

Australia

NHP

Product catalogue

Please note: pricing in this document is invalid
– for pricing and availability please access the
NHP customer portal under 'My Account'



nhp.com.au | nhpnz.co.nz






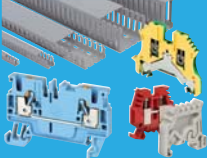







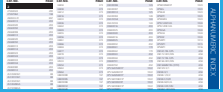
1300 647 647 | 0800 647 647



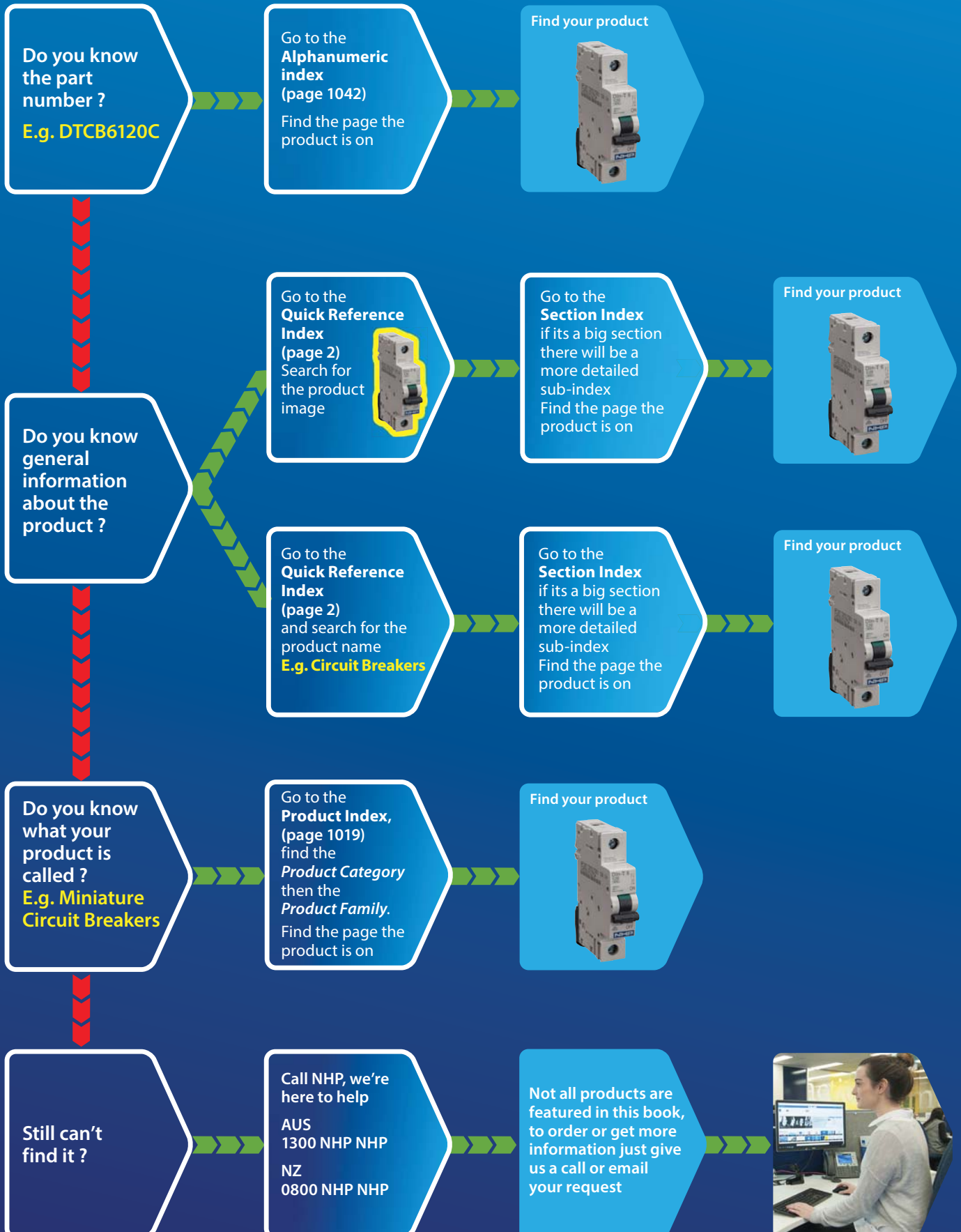
sales@nhp.com.au | sales@nhp-nz.com

Quick Reference Index

	How to use this catalogue <ul style="list-style-type: none"> • Find a product in this catalogue • Typical page layout 	Guide
	Product index <ul style="list-style-type: none"> • Product sorted by product category then family • All hyperlinked to the products page 	PI
	Power Distribution and Protection <ul style="list-style-type: none"> • Miniature Circuit Breakers (MCBs) • Earth Leakage (RCDs and RCBOs) • Moulded Case Circuit Breakers (MCCBs) • Air Circuit Breakers (ACB) • Distribution Boards 	1
	<ul style="list-style-type: none"> • Surge Protection • Temperature Monitoring • Arc Flash Detection • Busbars • Chassis and Power Connections • Earth Leakage Relays • Isolators and Fuse Gear • Isolators and Transfer Switches • Power Supplies and Transformers 	
	Energy Management and Building Automation <ul style="list-style-type: none"> • Complete Energy Management Solutions • Power and Multifunction Meters • Energy Monitoring Software • Analogue and Digital Meters • Transducers and Transformers • Building Automation solutions including lighting control 	2
	Power Quality <ul style="list-style-type: none"> • Power Factor Correction Systems • Harmonic Filters 	3
	Medium Voltage Power <ul style="list-style-type: none"> • Medium Voltage Cast Resin Transformers • Medium Voltage Oil Immersed Transform • Medium Voltage Air-Insulated Switchgear • Medium Voltage Gas-Insulated Switchgear • Medium Voltage Protection Relays • High Voltage Protection Relays 	4
	Motor Control and Drives <ul style="list-style-type: none"> • Contactors • Motor Protection • Motor Protection Circuit Breakers • Mounting and Connection Systems • Assembled Motor Starters • Condition Monitoring • Industrial Soft Starters • Low Voltage Variable Speed Drives • Medium Voltage Variable Speed Drives 	5
	Field Switching and Sensing <ul style="list-style-type: none"> • Photoelectric Sensors • Inductive Sensors • Capacitive Sensors • Ultrasonic Sensors • Magnetic Sensors • Limit Switches • Belt Drift Switches • Pressure Sensors • Level Sensors • Light Sensors • Encoders • Wireless Switches • Wireless Sensors 	6
	Safety <ul style="list-style-type: none"> • Mechanical Interlocks • Non-Contact Interlocks • Key exchange interlocks • Light Curtains • Laser Scanners • Pressure Mats • Safety Pull Wire Switches • Safety Enabling Switches • Single Function Safety Relays • Programmable Safety Relays • Safety Fencing 	7
	Automation Systems <ul style="list-style-type: none"> • Modular PLC Systems • Micro PLCs and Smart Relays • Operator Panels • Network Switching and Routing • Network Media • Remote Access • Gateways • Industrial Computers • Automation Software • Fieldbus I/O Systems • Servo Drives • Servo Cables and Motors • Gearboxes 	8

	Process Control Systems <ul style="list-style-type: none"> • Process Software • Process Virtualisation • Process Hardware • OEM Solutions 	9
	Operator Control Devices <ul style="list-style-type: none"> • Pushbuttons and Pilot Lights • Control and Cam Switches • Foot Switches • Pendants and Pendant Systems 	10
	Timers and Control Relays <ul style="list-style-type: none"> • General Purpose Relays • Electromechanical Relays • Solid State Relays • Time Delay Relays • Temperature Monitoring Relays • Voltage, Current, Phase and Power Factor Monitoring Relays • Time Switches 	11
	Termination and Wiring Systems <ul style="list-style-type: none"> • Screw Terminals • Screwless Terminals • Pre-Wired Cables and Connection Systems • Cable Ducting • DIN Rail • Cable Glands • Cable Sleeves 	12
	Enclosures and Climate Control <ul style="list-style-type: none"> • Terminal Boxes • Wall Mount Enclosures • Floor Standing Enclosures • Air Conditioning Systems • Chillers and Heat Exchangers • Filter Fans and Exhaust Fans • Heaters and Regulating Devices 	13
	Signalling Devices <ul style="list-style-type: none"> • Beacons • Stack Lights • Electronic Sounders • Sirens • Buzzers • Hooters • Bells 	14
	Hazardous Area Equipment <ul style="list-style-type: none"> • Lighting • Enclosures • Intrinsically Safe Isolators and I/O Systems • Control Stations and Junction Boxes • Signaling devices • Plugs Sockets and Isolators • Field Switches and Sensors • Cable Glands and Accessories 	15
	Plugs, Sockets and Switches <ul style="list-style-type: none"> • Industrial, Isolating and High Current Plugs and Sockets • Weatherproof Isolating Switches • Weather Protected GPOs • Weatherproof Switches 	16
	Switchboard Systems NHP offer its leading range of switchgear, motor control and automation products together in a quality switchboard systems that provide industry with a solution to the wide and varying requirements in Australia and New Zealand	17
	Electric Vehicle Charging Equipment AC and DC Electric Vehicle Chargers	18
	Conditions of Sale - for the Supply of Goods and Services <ul style="list-style-type: none"> • Current version at https://www.nhp.com.au/Terms-and-Conditions 	COS
	Alphanumeric Index <ul style="list-style-type: none"> • Products sorted by Catalogue Number • All hyperlinked to the products page 	AI

Finding a product in this catalogue



Typical page layout

Adobe Reader PDF navigation shortcuts

Action	Shortcut
Go to previous page	Alt + ⬅
Find a word	Ctrl + F

Headings are all **bookmarked** for easy navigation in the PDF

General **features and benefits** and description of the Product Category

Description and general features and benefits of the Product Line

Product Selection information and diagrams

Product Specific description and information

Product information Summary to assist with product selection.

Item Type
Describes the item type according to the following legend:
I Indent item (non-returnable, minimum order quantity applies)
A Assembled to order (non-returnable)
K A kit item which contains a number of parts (may contain indent items)
S Service
W Product only available from an Electrical Wholesaler

Single Function Safety Relays

Allen-Bradley GSR Safety Relays

- Single-wire safety connection for easy expandability and wiring while maintaining a high level of safety integrity
- Universal inputs are compatible with a wide range of safety devices for maximum flexibility
- Optional Ethernet/IP connectivity for integration into standard control systems
- Cabling for this range can be found in **Section 12 "Terminals and Pre-Wired Cables"**

The new generation of Guardmaster safety relays cover a broad scope of applications in a simplified product range. A range of safety devices such as interlock switches, emergency stop devices, pressure sensitive mats and OSSD devices such as safety light curtains; are all compatible with the same relay without additional configuration. The functionality of two standard relays can be achieved in one Dual Input (DI) device, allowing connection of two dual-channel input devices into one safety relay. Safety functions can be expanded or cascaded by linking multiple relays via a single-wire safety connection, while maintaining Cat 4, SIL3 and PLe rating.

Product Selection



- 1 Select the appropriate relay(s) from the **Standard or Guard Locking Relay** ranges based on the application. Any combination of these relays can be used for a modular safety relay solution.
- 2 Select the expansion relay(s) to increase the number of standard and time delayed outputs.
- 3 Add Ethernet/IP plug-in module for increased diagnostic capability.

Standard Relays

These safety relays can monitor a broad range of safety devices in a variety of applications. These single-function relays can achieve most of the functions safety systems require to comply with the relevant safety standards.

Function	Inputs	Outputs (safety)	Outputs (aux)	Un (V AC / V DC)	Reset (type)	Item Type	Catalogue No.	SAU
Single Input (SI)	1 N.C., 2 N.C., OSSD, Safety Mat	2 NO NO Relay	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual		440R-S1R2	303.41
Compatible Input (CI)	1 N.C., 2 N.C., OSSD, Safety Mat	2 NO NO Relay	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual		440R-S13R2	341.34
Input Safety Output	1 N.C., 2 N.C., OSSD, Safety Mat	2 NO DC PNP (Source)	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual		440R-D2252	498.10
Dual Input (DI)	1 N.C., 2 N.C., OSSD, Safety Mat	2 NO NO Relay	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual		440R-D22R2	502.5

Expansion

Additional standard or time-delayed outputs to standard GSR relays. The time-delay versions can be identified by the suffix.

Function	Inputs	Outputs (safety)	Outputs (aux)	Un (V AC / V DC)	Reset (type)	Item Type	Catalogue No.	SAU
Wire Input	4 NO	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual			440R-EM4R2	309.73
Wire Input	4 NO (delayed)	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual			440R-EM4R2D	331.23

Location bar
The Product Category and Product Line on the current page.

Product Line image
Representative sample of products in the Product Line products group

Section Number
Quick find Product Segment Section numbers

Catalogue No.
Quote this number (without any dashes or spaces) when placing an order. Dashes and spaces are only to assist readability.

Price
List price, GST excluded. **POA** is Price On Application, please contact NHP.

Product image
Indicative photograph for quick identification. Not to scale, actual product may vary based on configuration.

Hyperlinks throughout indexes, on all catalogue numbers and order forms

Catalogue revision number

Stanilite®

DISTRIBUTED BY **NHP**

Light the way.

NHP is now sole distributor for Stanilite® – Australia's market leader in emergency and exit lighting and monitoring systems, providing reliable, total solutions for safe evacuation. Make Stanilite® your emergency lighting partner.

This news is so hot off the press that there was no time to include Stanilite products in this Price List Catalogue. However, all the information you need is in the link below, including the full product catalogue, a product selector tool, downloadable links and much more!

Stanilite® – Lighting the way for 45+ years!

[Find out more](#)



ECONOMY RANGE

The Stanilite® Economy Range offers the most cost effective and reliable emergency lighting fittings on the market – backed by extensive testing. You get wide choice, AS/NZS 2293.3:2018 compliance, long life LED technology, lithium iron phosphate batteries and a two year warranty.

PLATINUM RANGE

Platinum products meet the highest technical standards but are also created with an emphasis on visual appeal. You'll get every benefit the Economy Range offers, plus a 10-year design life, advanced pulse-time control charging for longer battery use, and a five year complete fitting warranty.



All the NHP products you need at your fingertips through the NHP Portal

The NHP Portal was recently upgraded to allow customers to use the Portal to track the status of orders, including:



Estimated dispatch date - if the item is yet to be despatched, you'll be able to see the estimated date that your order will leave your local NHP warehouse.



Delivery tracking - if the item has already been despatched, you'll see when the order left the warehouse along with an ETA for delivery. There'll be a hyperlinked tracking number which you can click for more information.

[Register now](#)

Live and on-demand webinars

NHP continues to deliver a range of informative and engaging webinars to keep you up to speed with everything you need to know about power distribution and automation products, services and emerging industry trends.

Click the button to the right for a list of upcoming live webinars that will be facilitated by our product experts on a range of topics, as well as on-demand webinars that can be viewed whenever it's convenient for you.

[View our webinars](#)

NHP. Enabling the Connected Enterprise

Slides

NCC Compliance and the SMART eBox

Stephanie O'Donnell
Product Manager - Integrated Power & Energy

SMART DISTRIBUTION

Speaker Bio

Stephanie O'Donnell
Product Manager - Integrated Power and Energy
NHP Electrical Engineering Products

Call To Action

For more information about NHP, please visit our website


[Click here](#)

Navigation icons: Home, Live, Q&A, Help, Profile, Settings, Share, Link

Virtual Agent for stock availability

If you are not registered for the NHP Portal, you can still enter a part number, select your nearest location and the Virtual Agent will tell you the current stock level at your local NHP warehouse.

Speak to the Virtual Agent

 > NHP Virtual Agent

NHP Virtual Agent - AU

Please enter your PO number or Requisition number for the sales order

2 minutes ago

100010000
A minute ago

Item Number	Total	Quantity	Remaining	Quantity	Estimated	Despatch Date
COE48LG	1	1				Processing Order Line
NC248182U	1	1				Processing Order Line
DTCBDC220C	7	7				Processing Order Line
DTCBDC216C	5	5			16-10-2021	

YesNo

Type your message

Disclaimer - Stock quantity and estimated despatch dates shown are based on the last known information and are subject to change without notice.

NHP Services

In conjunction with our major supply line partners, NHP offers services and training solutions for our customers, leveraging industry and technology-specific expertise to maximise operational investments, improve their business and meet their everyday needs.

- Technical training
- Onsite support
- Repair and remanufacture
- Simple, flexible and worry free service agreements

Find out more



Air Circuit Breaker Total Care Package

NHP service solution to reduce the risk of unplanned downtime and optimise operational performance

SERVICES AND TRAINING



NHP Electrical Engineering Products

 AUS 1300 NHP NHP
NZ 0800 NHP NHP


nhp.com.au
nhp-nz.com

NHP. Enabling the Connected Enterprise

Learn how NHP is Enabling the Connected Enterprise for our customers.

SMART Safety

Enabling smarter machines and equipment



SMART Safety
Enabling smarter machines and equipment

SS > Industries & Solutions > Safety > Connected Enterprise > SMART Safety

Harnessing the power of safety and operational data can substantially improve safety compliance and performance.

Increasing safety system data and functionality at this moment of information results in increased machinery productivity and machine downtime.


To get most equipment back in operation as safely as possible, you need to have a SMART Safety solution, you can use the services from Socomec data and analytics using systems, integrated SMART Safety solution provides all the data needed to create a comprehensive picture of the safety of your factory, production line.

Benefits of SMART Safety

- Increase productivity**
The SMART Safety solution provides a comprehensive picture of the safety of your factory, production line.
- Minimize downtime**
The SMART Safety solution provides a comprehensive picture of the safety of your factory, production line.
- Enhance protection**
The SMART Safety solution provides a comprehensive picture of the safety of your factory, production line.
- Expand product portfolio**
The SMART Safety solution provides a comprehensive picture of the safety of your factory, production line.

Challenges to Safety

- Worker behavior**
The SMART Safety solution provides a comprehensive picture of the safety of your factory, production line.
- Working conditions**
The SMART Safety solution provides a comprehensive picture of the safety of your factory, production line.
- Machinery stoppages**
The SMART Safety solution provides a comprehensive picture of the safety of your factory, production line.
- Regulatory compliance**
The SMART Safety solution provides a comprehensive picture of the safety of your factory, production line.
- Emerging technologies**
The SMART Safety solution provides a comprehensive picture of the safety of your factory, production line.
- Data management**
The SMART Safety solution provides a comprehensive picture of the safety of your factory, production line.



[SMART SAFETY]

The Connected Enterprise
Industry 4.0


[Learn more](#)

SMART Distribution


Maximise your power availability through innovation

NHP Socomec Always On

Industries & Solutions > Solutions > Connected Enterprise > SMART Distribution > NHP Socomec Always On



For all your integration needs
Open, flexible and enclosed solutions



For all types of sources
Utility, Generator, PV, Battery, UPS

In today's industrial and business environment, it is essential to be able to rely on a continuous power supply. Modern buildings and industrial complexes have critical loads such as essential lighting, computers and continuously operating industrial equipment. Continual power supply is vital for these functions.

The design of the all in one Socomec ATyS transfer switch is based on proven load break switch technology, which guarantees both the continuity of the power supply and the safety of operators. Its stable positions allow energy consumption to be minimised whilst ensuring maximum immunity to electrical network disturbances, making this a truly robust and reliable solution.


Applications

- Buildings**
Commercial (Hotel, shopping centre, stadium, cinema, TV station, etc.), Government, Residential.
- Data Centres and Telecom**
HVAC cooling units, Server room, Security Systems & Control rooms, Radio/TV stations.
- Healthcare**
Operating theatres, intensive care units, laboratories, patient data systems, patient wards, examination rooms, sterilization rooms.
- Infrastructure**
Airports, Harbours, Tunnels, Highways.
- Industry**
Process manufacturing, Water treatment facilities, Machinery, Control room.

[Discover the power](#)

SMART Monitoring

Detect severe mechanical problems in real time



SMART Monitoring

Detect severe mechanical conditions in real time

With a robust motor control system and the help of our condition monitoring system, you can detect severe mechanical problems in real time and proactively action maintenance or repairs of machinery before it fails unexpectedly.

With a robust motor control system and the help of our condition monitoring system, you can detect severe mechanical problems in real time and proactively action maintenance or repairs of machinery before it fails unexpectedly.

Benefits of SMART Monitoring

Single control architecture
Simplifies the control architecture, reducing the risk of misconfiguration and ensuring consistent performance across all machinery.

Detect severe mechanical conditions
Detects severe mechanical conditions in real time, allowing you to take action before a failure occurs.

Machine protection
Protects your machinery from damage, ensuring it operates safely and efficiently.

Simple integration
Integrates seamlessly with your existing control system, making it easy to implement.

Our offering

Our offering is a comprehensive solution that includes a range of condition monitoring equipment, software, and services. We can help you to identify the right solution for your specific needs and ensure it is integrated correctly into your existing system.

Our offering is a comprehensive solution that includes a range of condition monitoring equipment, software, and services. We can help you to identify the right solution for your specific needs and ensure it is integrated correctly into your existing system.

SMART Monitoring Solutions

Condition Monitoring

Condition monitoring is a key part of any SMART Monitoring system. It allows you to monitor the health of your machinery in real time, so you can detect problems before they become serious.


Energy Monitoring

Energy monitoring is another key part of any SMART Monitoring system. It allows you to monitor the energy consumption of your machinery, so you can identify areas where energy is being wasted.

Eliminate unplanned shutdowns

SMART Motor Control

Experience the difference of data driven SMART Motor Control



SMART Motor Control

Experience the difference of data driven SMART Motor Control

With the information that you receive from SMART Motor Control devices, you can make SMART and informed decisions.

With the information that you receive from SMART Motor Control devices, you can make SMART and informed decisions.

Benefits of SMART Motor Control

Ability to track and analyse energy usage
Allows you to track and analyse the energy usage of your machinery, so you can identify areas where energy is being wasted.

Predictive warnings and targeted troubleshooting
Provides predictive warnings and targeted troubleshooting advice, so you can take action before a failure occurs.

Reduced architecture complexity
Reduces the complexity of your control architecture, making it easier to implement and maintain.

Improved team productivity and collaboration
Improves team productivity and collaboration, so you can get the most out of your SMART Motor Control system.

Maximised worker safety
Maximises worker safety, so you can ensure your machinery is operating safely and efficiently.

Challenges of conventional motor control

Limited visibility to energy usage
Limited visibility to energy usage, so you cannot identify areas where energy is being wasted.

No predictive warnings or targeted information
No predictive warnings or targeted information, so you cannot take action before a failure occurs.

Slow information sharing
Slow information sharing, so you cannot get the most out of your SMART Motor Control system.


Multiple architecture across control, safety and motion
Multiple architecture across control, safety and motion, making it difficult to implement and maintain.

Limited or no safety functionality
Limited or no safety functionality, so you cannot ensure your machinery is operating safely and efficiently.

Seize control

Modernisation

Begin your Connected Enterprise journey today



SMART Modernisation

Start your journey towards Industry 4.0

You can't achieve SMART Manufacturing without embracing modern technology. This is where WIP can help our customers modernise their automation systems and start their journey towards Industry 4.0.

You can't achieve SMART Manufacturing without embracing modern technology. This is where WIP can help our customers modernise their automation systems and start their journey towards Industry 4.0.

Current State of the Industry

The current state of the industry is one of rapid change and innovation. The demand for more efficient, flexible, and sustainable manufacturing processes is increasing, and the need for modern technology is becoming more urgent.

The current state of the industry is one of rapid change and innovation. The demand for more efficient, flexible, and sustainable manufacturing processes is increasing, and the need for modern technology is becoming more urgent.

Challenges to obsolescence

Limited parts availability
Limited parts availability, so you cannot replace broken parts and get your machinery back up and running.

Increasing support costs
Increasing support costs, so you cannot afford to maintain your existing machinery.

Subject matter expert attrition
Subject matter expert attrition, so you cannot get the expertise you need to maintain your machinery.

Regulatory compliance
Regulatory compliance, so you cannot ensure your machinery meets the latest standards.

The extended downtime risk
The extended downtime risk, so you cannot afford to have your machinery out of production.

Modernisation of legacy automation
Modernisation of legacy automation, so you can improve the efficiency and reliability of your machinery.

Modernisation incentives

Connectivity
Connectivity, so you can get the most out of your SMART Motor Control system.

Intelligence
Intelligence, so you can make better decisions and improve your productivity.

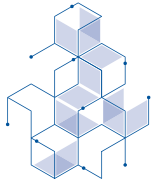
Agility
Agility, so you can respond quickly to changes in demand and market conditions.

Sustainability
Sustainability, so you can reduce your carbon footprint and improve your environmental performance.

Realise the benefits

Introducing TemBreak Pro

A new generation of high performance Moulded Case Circuit Breakers



POWERING TODAY
CONNECTING TOMORROW

[Find out more](#)

TemBreak Pro Moulded Case Circuit Breakers

Maximise reliability.
Set securely, configure easily.
Measure and control energy.

NHP

SMART Panelboard Selection Guide

Enhance your Concept
Panelboard with SMART
upgrade options

- Energy metering and reporting
- Digital connectivity to the web
- Arc flash optical relay
- Temperature monitoring
- Power Transfer Switching
- Earth leakage testing
- Emergency light testing
- Isolation Chassis for maintenance
- Surge Protection and earth monitor

SMART DISTRIBUTION

NHP Electrical Engineering Products

AUS 1300 NHP NHP

nhp.com.au

SMART Panelboard Selection Guide

- Energy metering and reporting
- Digital connectivity to the web
- Arc flash optical relay
- Temperature monitoring
- Power transfer switching
- Earth leakage testing
- Emergency light testing
- Isolation chassis for maintenance
- Surge protection and earth monitor

[Read more](#)

NHP

Engineering Products



AUS 1300 NHP NHP

NZ

0800 NHP NHP

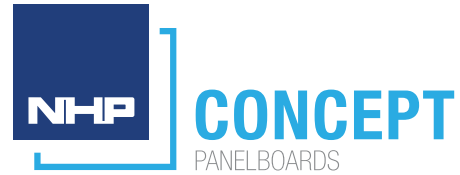
nhp.com.au
nhpnz.co.nz

Are you prepared for AS/NZS 61439?

NHP offers an extensive range for LV applications:

- CUBIC Modular Switchboard System rated up to 6300A
- NHP Concept Panelboards with Standard Declaration of Conformity certificates available
- Circuit breakers from Terasaki, including the new TemBreak Pro range of MCCBs
- Loadbreak switches, fuses, manual changeover switches and automatic transfer switches from Socomec as part of a verified solution
- Stand alone verified Socomec maintenance bypass solution

Don't be left behind



CUBIC

socomec
Innovative Power Solutions



Time to switch!

- Easy installation
- Safe and reliable enclosed isolators which comply with AS/NZS 60947-3
- IP65
- Extensive range (25-250A)
- Simple ordering with local stock
- Available in polycarbonate, polyester, aluminium and stainless steel

Switch today

NHP

Quality switch disconnectors for reliable and safe isolation

POWER DISTRIBUTION AND PROTECTION

NHP Electrical Engineering Products

AUS 1300 NHP NHP

nhp.com.au

The advertisement features a background image of a city skyline at night with a bridge and a river. In the foreground, several NHP switch disconnectors are displayed. The text is overlaid on the image, with the NHP logo in the top right corner. The main headline is 'Quality switch disconnectors for reliable and safe isolation', followed by 'POWER DISTRIBUTION AND PROTECTION'. At the bottom, there is contact information: 'NHP Electrical Engineering Products', 'AUS 1300 NHP NHP', and 'nhp.com.au'.

Power distribution and protection

Whether located in the field or as part of the switchboard, NHP has power switching products that are suitable for isolating, changeover and transfer switching applications.

NHP also provides Australia's widest range of circuit protection products from miniature circuit breakers and moulded case circuit breakers through to 6300A air circuit breakers, which are the most compact, robust and high performance breakers on the market.

In addition, a large range of switch fuses, earth leakage protection devices, surge protection and arc fault detection relays complete the vast protection range.

NHP also integrates the above offerings into a range of enclosed options including the Concept range of distribution switchboards conforming to AS/NZS 61439.

[Discover the power](#)

 **socomec**
Innovative Power Solutions

 **TERASAKI**
Innovators in Protection Technology

 **DELTA**
Smarter. Greener. Together.

Power quality

NHP has a wide range of power quality solutions to cater for power factor correction and harmonics.

- Static VAR Generator (SVG) solutions for demanding and fast changing power factor correction needs
- Harmonic mitigation solutions with active harmonic filters
- Combined SVG and active filter systems for a total power factor correction solution - reactive and harmonic correction as well as load balancing, all in the one cabinet.

With years of experience providing power quality analysis, NHP can assist to identify and resolve your power quality problems.

[Find out more](#)



Medium Voltage (MV) power

NHP is proud to bring to the market a complete range of MV products and solutions to complement our current low voltage industrial switchgear and automation offering.

From quality MV to long-lasting transformers and market leading substation and automation solutions, the NHP MV offering can be customised to suit your specific design performance criteria and is not only reliable and built to last, but also ideal for the Australasian MV industry climate.

Partner with NHP



Electric Vehicle (EV) chargers

Electric vehicles are a growth industry throughout the world and how they are charged is increasingly a topic of interest. When vehicles are parked for longer periods of time, such as overnight, they can be charged with AC, or in a short amount of time they can be quickly charged with DC.

NHP offers a complete range of EV chargers to suit every need, from low-cost home solutions to large DC Quick Charging. NHP also makes installation easy by offering everything you will need upstream, enabling quick and simple implementation of the chargers.

Join the revolution



SMART Machine Safety Selection Guide

A tool for selection of integrated and reliable machine safety components

A banner for the Smart Machine Safety Selection Guide. It features a background image of a factory with robotic arms. Overlaid on this is a semi-transparent blue box containing the title 'Smart Machine Safety Selection Guide' in white, followed by the subtitle 'A tool for selection of integrated and reliable machine safety components'. Below the text is a collection of various NHP safety components like relays and sensors. At the bottom, there is a dark blue bar with the NHP logo and contact information: 'NHP Electrical Engineering Products', 'AUS 1300 NHP NHP NZ 0800 NHP NHP', and 'nhp.com.au'.

Smart Machine Safety Selection Guide

A tool for selection of integrated and reliable machine safety components

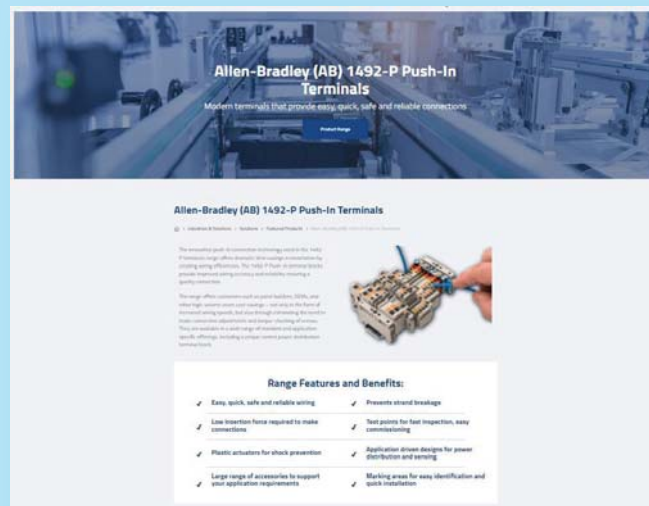
NHP Electrical Engineering Products

AUS 1300 NHP NHP NZ 0800 NHP NHP nhp.com.au

Get SMART

AB 1492-P Push-In Terminals

Modern terminals that provide easy, quick, safe and reliable connections

A screenshot of the Allen-Bradley (AB) 1492-P Push-In Terminals webpage. The header features the product name and a tagline: 'Modern terminals that provide easy, quick, safe and reliable connections'. Below this is a 'Product Range' button. The main content area includes a breadcrumb trail, a detailed description of the terminals' benefits, and a 'Range Features and Benefits' section. This section lists eight key features in two columns, each preceded by a checkmark. An image of a hand inserting a wire into a terminal block is also shown.

Allen-Bradley (AB) 1492-P Push-In Terminals

Modern terminals that provide easy, quick, safe and reliable connections

Allen-Bradley (AB) 1492-P Push-In Terminals

The 1492-P push-in terminals are the only 100% non-solderable terminals that provide a secure, reliable connection. They are designed for easy, quick, safe and reliable connections. The 1492-P push-in terminals are available in a wide range of configurations to meet your needs.

Range Features and Benefits:

- ✓ Easy, quick, safe and reliable wiring
- ✓ Low insertion force required to make connections
- ✓ Plastic actuators for shock protection
- ✓ Large range of accessories to support your application requirements
- ✓ Prevents strand breakage
- ✓ Test points for fast inspection, easy troubleshooting
- ✓ Application driven designs for power distribution and wiring
- ✓ Marking areas for easy identification and quick installation

Find out more

Sprecher + Schuh CEP7-1 Electronic Overload Relay

NHP's next generation motor protection solutions

A screenshot of the Sprecher + Schuh CEP7-1 Electronic Overload Relay webpage. The header features the product name and a tagline: 'Now is the time to migrate'. Below this is a 'Product Range' button. The main content area includes a breadcrumb trail, a detailed description of the relay's benefits, and a 'Features and benefits' section. This section lists eight key features in two columns, each preceded by a checkmark. An image of the CEP7-1 relay is also shown.

CEP7-1 Electronic Overload Relay

Now is the time to migrate

Why upgrade or migrate to CEP7-1 Electronic Overload Relay

More than 100 years of experience in motor protection has made Sprecher + Schuh a world leader in motor protection. The CEP7-1 is the next generation of motor protection. It is a modern, reliable, and easy-to-use device that provides the best protection for your motor.

Features and benefits

- ✓ Basic version, CEP7-1EE, Trip Class 10 and 20, manual reset only
- ✓ 6 to 100 A current adjustment range to cover a variety of motor applications
- ✓ A variety of accessories for enhanced protection
- ✓ Electronic design and thermal memory
- ✓ Advanced version, CEP7-1EP, Trip Class 10, 15, 20, 25, 30, manual or automatic reset
- ✓ Supports both single- and three-phase operation in a single component
- ✓ Current measurement-based protection
- ✓ Phase loss protection

Read more

SMART e-Box

An all-in-one enclosed Energy Management System



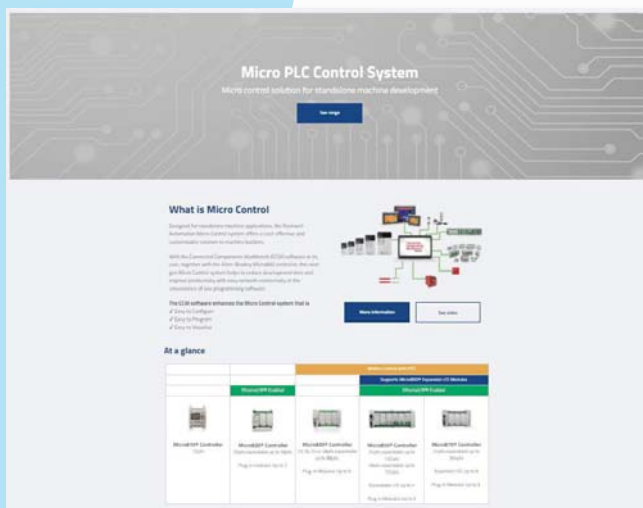
The image shows a white, rectangular SMART eBox unit with a blue label that reads "EMS COMMS PANEL" and another label that reads "SMART eBOX". The unit is set against a background of a city skyline at night. The NHP logo is in the top right corner.

NHP Electrical Engineering Products  1300 NHP NHP nhp.com.au

[Discover more](#)

Micro PLC Control System

Micro control solution for standalone machine development



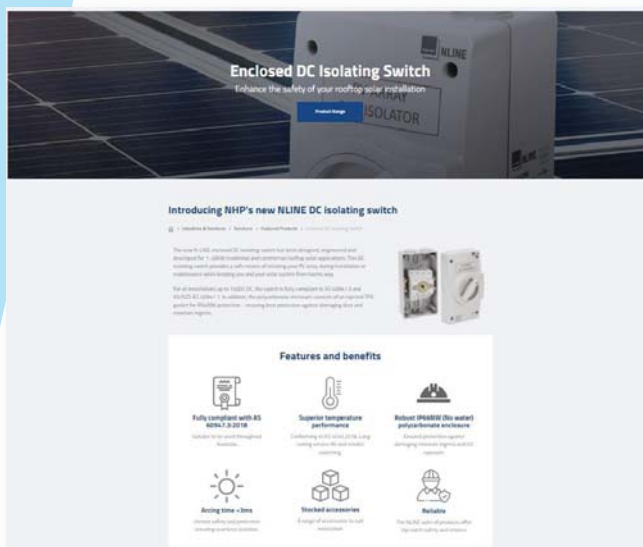
The image shows a webpage for the Micro PLC Control System. The header includes the title "Micro PLC Control System" and a subtitle "Micro control solution for standalone machine development". Below the header is a "What is Micro Control" section with a diagram of a microcontroller system. The "At a glance" section features a table of product specifications.

Product	Power Supply	IO Channels	Communication	Price
MicroPLC Controller	24V DC	16 Digital Input, 16 Digital Output	RS485	\$1,200
MicroPLC Controller	24V DC	16 Digital Input, 16 Digital Output	RS485	\$1,500
MicroPLC Controller	24V DC	16 Digital Input, 16 Digital Output	RS485	\$1,800
MicroPLC Controller	24V DC	16 Digital Input, 16 Digital Output	RS485	\$2,100
MicroPLC Controller	24V DC	16 Digital Input, 16 Digital Output	RS485	\$2,400

[Modernise your control](#)

Introducing NHP's new NLINE DC isolating switch

Enhance the safety of your rooftop solar installation



The image shows a white, rectangular NLINE DC Isolating Switch unit with a blue label that reads "NLINE DC ISOLATOR". The unit is set against a background of solar panels. The NHP logo is in the top right corner.

Enclosed DC Isolating Switch
Enhance the safety of your rooftop solar installation

Introducing NHP's new NLINE DC isolating switch

The new NLINE DC isolating switch has been designed, engineered and developed for 1-10kW residential and commercial rooftop solar applications. The DC isolating switch provides safe means of disconnecting your PV array during maintenance whilst keeping you and your solar system safe from electric shock.

For all installations up to 10kW DC, the switch is fully compliant to AS 6100.1.5 and AS 6100.1.2. In addition, the switch provides a means of an approved PV system for NHP's protection - ensuring that protection systems designed for fire and lightning systems.

Features and benefits

- Fully compliant with AS 6100.1.2:2019**
Suitable for use throughout Australia.
- Superior temperature performance**
Conforming to AS 6100.1.2:2019, Long term service life and excellent performance.
- Robust (IP68) (No water) polycarbonate enclosure**
Designed to protect against damaging environmental conditions.
- Arcing time < 1ms**
Minimises arcing time during switching operations.
- Standard accessories**
Range of accessories for easy installation.
- Reliable**
The NLINE DC isolating switch offers long life, safety and reliability.

[Learn more](#)

Power Distribution and Protection

Circuit Breakers

Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)	18
MOD6 RCD Selection Guide	19
DIN-T MCB Selection Guide	27,36
DIN-T RCD Selection Guide	36
Easy Selection	51
TemBreak Pro Catalogue Number Construction	52
TemBreak Pro Selection	54
Moulded Case Circuit Breakers	55
TemBreak PRO Moulded Case Circuit Breaker	Index 55
TemBreak Mining MCCB	101
Terasaki TemBreak 1 Moulded Case Circuit Breakers	104
Air Circuit Breakers	108

Distribution Boards

Loadcentre Assemblies	114
The CONCEPT Panelboard Range	119
NHP Concept Panelboard Selection Guide	120
Panelboards	121
CONCEPT PLUS Range - CPL	123
CONCEPT PREMIER Range - CPR	130

Switchboard Monitoring

Surge Protection	145
Temperature Monitoring	154
Arc Flash Detection Technologies	156

Busbar, Chassis and Power Connections

Chassis	Index 159
DIN MCB Chassis Order Form	164
Isolation MCB Chassis Order Form	168
Chassis for Terasaki MCCBs	Index 171
HC High Current Chassis Order Form	174
Flexible Busbar and Braids	175
Power Connections	181

Earth Leakage Protection

Earth Leakage Relays	183
----------------------	-----

Fuse Isolators and Fuse Gear

Fuse Switches	189
Fuses and Fuse Holders	192

Isolators and Transfer Switches

Enclosed Isolating Switches	197
Load Break Switches	Index 204
Transfer Switches	220

Power Supplies and Transformers

Switched Mode Power Supplies	249
Transformers	253

Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBs)

MOD6 Miniature Circuit Breaker



- Complies with AS/NZS 60898
- MOD6 MCBs feature 6kA short circuit rating
- C curve tripping characteristic
- Pad lockable and sealable toggle restricts unauthorized action
- Free tripping mechanism even if toggle is locked or sealed ON or OFF
- Fast connection pin/fork busbar comb or busbar chassis
- Suits pole covers, loadcentres and Concept One Panelboards
- Approval No. N17481 or RCM
- For general purpose light and power applications

The NHP MOD6 range of circuit breakers consists of AS/NZS 60898 tested and approved MCBs with 6kA short circuit rating and current rating range of 6 to 63A in 1, 2 and 3 pole.

The MOD6 series are purpose designed for domestic and commercial installations and suit installation within MOD6 loadcentres and Concept One panelboards.

MOD6 6kA MCB

- NHP MOD6 MCBs offering core range of quality 6kA circuit protection that has been tested to local standards and holds Australian and New Zealand approvals.

C-Curve (5 - 10 In)

1 Pole



MOD6132

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
6	240	48		MOD6106	27.00
10	240	48		MOD6110	27.00
16	240	48		MOD6116	27.00
20	240	48		MOD6120	27.00
25	240	48		MOD6125	27.00
32	240	48		MOD6132	27.00
40	240	48		MOD6140	27.00
50	240	48		MOD6150	27.00
63	240	48		MOD6163	27.00

2 Pole



MOD6240

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
6	415	110		MOD6206	91.00
10	415	110		MOD6210	91.00
16	415	110		MOD6216	91.00
20	415	110		MOD6220	91.00
25	415	110		MOD6225	91.00
32	415	110		MOD6232	91.00
40	415	110		MOD6240	91.00
50	415	110		MOD6250	91.00
63	415	110		MOD6263	91.00

3 Pole



MOD6325

In (A @30°C)	Un (V AC)	Item Type	Catalogue No.	\$AU
6	415		MOD6306	128.00
10	415		MOD6310	128.00
16	415		MOD6316	128.00
20	415		MOD6320	128.00
25	415		MOD6325	128.00
32	415		MOD6332	128.00
40	415		MOD6340	128.00
50	415		MOD6350	128.00
63	415		MOD6363	128.00




MOD6 RCD Selection Guide

1



	M6RCBSxxxxCAN	M6RCBDxxxxCAN	MOD6RCBO1	MOD6RCBO2
Standard (AS/NZS)	61009-1	61009-1	61009-1	61009-1
No. poles and module width	1P + N - 18 mm	1P + N - 18 mm	1P + N - 18 mm	2P - 36 mm
Mounting	Busbar/DIN rail	DIN rail	Busbar/DIN rail	Busbar/DIN rail
Current ratings	6A / 10A / 16A 20A / 25A / 32A	6A / 10A / 16A 20A / 25A / 32A	10A / 16A / 20A 25A / 32A	10A / 16A / 20A 25A / 32A / 40A
Trip sensitivity	10 mA / 30 mA	10 mA / 30 mA	30 mA	10 mA / 30 mA
Switched Neutral	Yes	Yes	No	Yes
Line Side	Bottom	Top or Bottom	Bottom	Top or Bottom
Sensitivity type	A	A	A	A
Short circuit rating	6 kA	6 kA	6 kA	6 kA
Curve types	C	C	C	C
Rated AC voltage 1P/2,3,4P	230/240 V	230/240 V	230/240 V	230/240 V
Sealable in On-Off position	No	No	Yes	Yes
Terminal size - ON-top	16 mm ²	16 mm ²	25 mm ²	25 mm ²
Terminal size - OFF-bottom	25 mm ²	16 mm ²	35 mm ²	25 mm ²
Product Selection	22	22	21	23

B1107D_DCHRT-501

		
M6RCBF	M6RCBT	MOD6RCCB
61009-1	61009-1	61008-1
3P + N - 72 mm	3P + N - 54mm	2P - 36 mm 4P - 72 mm
DIN rail	Chassis/ DIN rail	DIN rail
6A / 10A / 16A / 20A / 25A / 32A	6A / 10A / 16A / 20A / 25A / 32A / 40A / 50A / 63A	40A / 63A
30 mA	30 mA	30 mA
Yes	No	Yes
Top or Bottom	Bottom	Top or Bottom
A	A	A
6 kA	6 kA	Inc - 10 kA MCB or fuse backup
	C	-
400/415 V	230/240 V	2P 230/240 V 4P 400/415 V
Yes	Yes	Yes
25 mm ²	25 mm ²	50 mm ²
25 mm ²	25 mm ²	50 mm ²
23	24	21

B1107D_DCHRT-S02

Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBs)

MOD6 Residual Current Device

1



MOD6 RCCBs (Safety Switches)

- Complies with AS/NZS 61008 (RCCBs)
- MOD6 RCCBs feature 6kA conditional short circuit rating
- 1P+N and 3P+N for single or three phase loads
- Type AC or Type A RCD option
- 30mA sensitivity featured as standard simplifying the selection for personnel protection applications
- Fast connection pin/fork busbar comb or busbar chassis
- Suits pole covers and loadcentres
- Approval No NSW17482 or RCM Mark

Type A

In (A @30°C)	IΔn (mA)	Poles	W (mm)	Item Type	Catalogue No.	\$AU
40	30	1P + N	36		MOD6RCCB2-40-30-A	227.00
40	30	3P + N	72		MOD6RCCB4-40-30-A	276.00
63	30	1P + N	36		MOD6RCCB2-63-30-A	304.00
63	30	3P + N	72		MOD6RCCB4-63-30-A	355.00



MOD6RCCB4-40-30-A

MOD6 RCBO1 6kA Panelboard Model - 1 Pole Width (Longbody with Pigtail)

- Complies with AS/NZS 61009 (RCBOs)
- MOD6 RCBOs feature 6kA short circuit rating
- Single screw RCBO features a neutral pigtail saving cable and installation time
- Type A RCD
- 30 mA sensitivity general personnel protection applications
- C trip curve for general light and power applications
- Fast connection pin/fork busbar comb or busbar chassis
- Suits Concept One Panelboards
- Approval No NSW17482 or RCM
- For commercial applications

Type A

Approval No NSW17482 or RCM

In (A @30°C)	IΔn (mA)	Icn (kA)	W (mm)	Item Type	Catalogue No.	\$AU
10	30	6	18		MOD6RCBO1-10-30-AL	206.00
16	30	6	18		MOD6RCBO1-16-30-AL	206.00
20	30	6	18		MOD6RCBO1-20-30-AL	206.00
25	30	6	18		MOD6RCBO1-25-30-AL	206.00
32	30	6	18		MOD6RCBO1-32-30-AL	206.00



MOD6RCBO1-25-30-AL

1

MOD6 Compact RCBO 6kA (RCBS) Loadcentre / Panelboard Model (with Pigtail)

- Complies with AS/NZS 61009 (RCBOs)
- MOD6 RCBOs feature 6kA short circuit rating
- Compact single screw RCBO features a neutral pigtail saving cable and installation time
- Type A RCD with switched neutral
- 30mA sensitivity general personnel protection applications
- 10mA sensitivity option for higher risk applications
- C trip curve for general light and power applications
- Fast connection pin/fork busbar comb or busbar chassis
- Suits pole covers, loadcentres and Concept One Panelboards
- Approval No NSW24576 or RCM
- Energy Safe Victoria (ESV) compliant for residential applications
- 10 mA units compliant with Type 1 requirements

Type A Switched Neutral

In (A @30°C)	IΔn (mA)	Icn (kA)	W (mm)	Item Type	Catalogue No.	\$AU
6	30	6	18		M6RCBS-06-30-CAN	310.00
10	30	6	18		M6RCBS-10-30-CAN	310.00
16	30	6	18		M6RCBS-16-30-CAN	310.00
20	30	6	18		M6RCBS-20-30-CAN	310.00
25	30	6	18		M6RCBS-25-30-CAN	310.00
32	30	6	18		M6RCBS-32-30-CAN	310.00
6	10	6	18	I	M6RCBS-06-10-CAN	326.00
10	10	6	18		M6RCBS-10-10-CAN	326.00
16	10	6	18		M6RCBS-16-10-CAN	326.00
20	10	6	18		M6RCBS-20-10-CAN	326.00
25	10	6	18	I	M6RCBS-25-10-CAN	326.00
32	10	6	18		M6RCBS-32-10-CAN	326.00

M6RCBS-16-30-CAN

MOD6 Compact RCBO 6kA (RCBD) Loadcentre Model

- Complies with AS/NZS 61009 (RCBOs)
- MOD6 RCBOs feature 6kA short circuit rating
- Compact double screw RCBO
- Type A RCD with switched neutral
- 30mA sensitivity general personnel protection applications
- 10mA sensitivity option for higher risk applications
- C trip curve for general light and power applications
- Fast connection special pin busbar comb
- Suits pole-covers and loadcentres
- Approval No NSW24576 or RCM
- Energy Safe Victoria (ESV) compliant for residential applications
- 10 mA units compliant with Type 1 requirements

Type A RCD with Switched Neutral

In (A @30°C)	IΔn (mA)	Icn (kA)	W (mm)	Item Type	Catalogue No.	\$AU
6	30	6	18		M6RCBD-06-30-CAN	310.00
10	30	6	18		M6RCBD-10-30-CAN	310.00
16	30	6	18		M6RCBD-16-30-CAN	310.00
20	30	6	18		M6RCBD-20-30-CAN	310.00
25	30	6	18		M6RCBD-25-30-CAN	310.00
32	30	6	18		M6RCBD-32-30-CAN	310.00
6	10	6	18	I	M6RCBD-06-10-CAN	326.00
10	10	6	18		M6RCBD-10-10-CAN	326.00
16	10	6	18		M6RCBD-16-10-CAN	326.00
20	10	6	18		M6RCBD-20-10-CAN	326.00
25	10	6	18	I	M6RCBD-25-10-CAN	326.00
32	10	6	18		M6RCBD-32-10-CAN	326.00

M6RCBD-32-30-CAN

MOD6 RCBO2 6kA 2 Pole Width

- Complies with AS/NZS 61009 (RCBOs)
- MOD6 RCBOs feature 6kA short circuit rating
- Type AC or Type A RCD with switched neutral
- 30mA sensitivity general personnel protection applications
- 10mA sensitivity option for higher risk applications
- C trip curve for general light and power applications
- Fast connection pin/fork busbar comb
- Suits pole-covers and loadcentres
- Approval No NSW17482 or RCM
- Energy Safe Victoria (ESV) compliant for residential applications
- 10mA units compliant with Type 1 requirements

Type A

In (A @30°C)	IΔn (mA)	Icn (kA)	W (mm)	Item Type	Catalogue No.	\$AU
10	30	6	36		MOD6RCBO2-10-30-A	180.00
16	30	6	36		MOD6RCBO2-16-30-A	180.00
20	30	6	36		MOD6RCBO2-20-30-A	180.00
25	30	6	36		MOD6RCBO2-25-30-A	188.00
32	30	6	36		MOD6RCBO2-32-30-A	202.00
40	30	6	36		MOD6RCBO2-40-30-A	202.00
6	10	6	36		MOD6RCBO2-06-10-A	232.00
10	10	6	36		MOD6RCBO2-10-10-A	232.00
16	10	6	36		MOD6RCBO2-16-10-A	232.00
20	10	6	36		MOD6RCBO2-20-10-A	232.00



MOD6RCBO2-20-30-A

MOD6 RCBO 6kA (RCBF) 3P+N Model

- Complies with AS/NZS 61009-1 (RCBOs)
- MOD6 RCBOs feature 6kA short circuit rating
- Type A RCD with switched neutral
- 30mA sensitivity general personnel protection applications
- C trip curve for general light and power applications
- Fast connection pin busbar comb
- Blue earth leakage indicator flag
- Dual incoming and outgoing terminals
- Suits pole-covers and loadcentres
- Approval No. RCM
- Energy Safe Victoria (ESV) compliant for residential applications

Type A

In (A @30°C)	IΔn (mA)	Item Type	Catalogue No.	\$AU
6	30		M6RCBF0630A	306.00
10	30		M6RCBF1030A	306.00
16	30		M6RCBF1630A	306.00
20	30		M6RCBF2030A	306.00
25	30		M6RCBF2530A	306.00
32	30		M6RCBF3230A	306.00



M6RCBF2030A

MOD6 AFDD (Arc Fault Detection Device)

- Attachment unit for use with M6RCBDXX30CAN
- Combination provides - arc fault protection, earth leakage protection, short circuit protection and overvoltage protection.
- Protects from both parallel and series arc faults
- Compact 2P (36 mm) width (with M6RCBD unit attached)
- Complies IEC62606
- Reduces risk of fire by protecting circuit from arc faults

AFDD

Item Description	Item Type	Catalogue No.	\$AU
MOD6 Arc Fault Detection Device suit M6RCBDxx30CAN		M6RCBD-AFDD	441.00



M6RCBD-AFDD

1

MOD6 3P RCBO (Panelboards)

- Complies with AS/NZS 61009 (RCBOs)
- M6RCBT MOD6 RCBOs feature 6kA short circuit rating
- C-Curve for general light, power and motor starting applications
- Type A RCD
- 30mA sensitivity for general personnel protection applications
- Compact 3P (54mm) width space saving
- Neutral pigtail (900mm) saving cable and installation time
- Padlockable and sealable toggle restricts unauthorised action
- Free tripping mechanism even if toggle is locked or sealed ON or OFF
- Fast connection pin/fork busbar comb or MOD6 busbar chassis
- Suits Concept One panelboards
- RCM approval



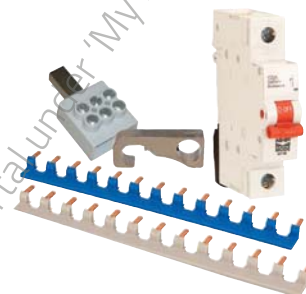
M6RCBT2530A

In (A @30°C)	IΔn (mA)	Poles	W (mm)	Item Type	Catalogue No.	\$AU
6	30	3P + N	54		M6RCBT0630A	320.00
10	30	3P + N	54		M6RCBT1030A	320.00
16	30	3P + N	54		M6RCBT1630A	320.00
20	30	3P + N	54		M6RCBT2030A	320.00
25	30	3P + N	54		M6RCBT2530A	320.00
32	30	3P + N	54		M6RCBT3230A	320.00
40	30	3P + N	54		M6RCBT4030A	425.00
50	30	3P + N	54		M6RCBT5030A	425.00
63	30	3P + N	54		M6RCBT6330A	425.00

Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)

MOD6 Accessories

1



Product Selection

The complementary series of MOD6 accessories includes the MOD6 main switches and busbar combs specific for the compact double screw MOD6 RCBO (M6RCBD) series for quick and easy installation of the MOD6 RCBOs.
Please note: For the IBC and ICL pin and fork busbars, DTLTD lock dog, DTPF pole fillers and DTTAX16PN3 3 way neutral link (suits RCCBs), which can also be used with the MOD6 MCBs and RCDs, please refer to the DIN-T accessories for further details.
No other DIN-T accessories are compatible with the MOD6 series of MCBs and RCDs including DIN-T auxiliaries, shunt trip, LOCKDIN, terminal covers and so on.

MOD6 Main Switches

The MOD6 main switches have the same profile as MOD6 MCBs and are suitable for use as a main switch (isolator) in loadcentres.

MOD6 Main Switch

1P, 2P and 3P Main Switches

Poles	In (A)	Item Type	Catalogue No.	\$AU
1P	80		MOD6MS180	28.00
1P	100		MOD6MS1100	50.00
2P	100		MOD6MS2100	197.00
3P	100		MOD6MS3100	168.00



MOD6MS180

Busbar Comb

Pin Type Busbar Comb

IBC and IBD busbar comb - IBC suits 18mm pitch devices and IBD M6RCBD RCBO

Ways	Poles	In EndFeed (A)	In CntrFeed (A)	Busbar (type)	Item Type	Catalogue No.	\$AU
12	1P	80	130	Pin		IBC112P	30.00
15	1P	80	130	Pin		IBC115P	36.00
18	1P	80	130	Pin		IBC118P	51.00
18	1P + N	80	100	Pin		IBD218P	75.00
55	1P + N	80	100	Pin		IBD255P	214.00
13	1P + N	63	63	Pin	K	IBD213P	64.00
8	1P	80	130	Pin		IBC108P	20.00



IBC108P

Fork Type

ICL

Ways	Poles	In CntrFeed (A)	In EndFeed (A)	Busbar (type)	Item Type	Catalogue No.	\$AU
4	1P	130	80	Fork	I	ICL41F	4.25
12	1P	150	90	Fork		ICL121F	11.00
18	1P	130	80	Fork		ICL181F	13.00
56	1P	130	110	Fork		ICL561F	135.00
57	3P	130	110	Fork		ICL573F	394.00



ICL41F

1

Busbar comb end caps

IBC and IBD busbar end caps



IBCEC1

Item Description	Item Type	Catalogue No.	\$AU
Buscomb End Cap to suit 1P IBC		IBCEC1	3.45
Buscomb End Cap to suit 2P IBD		IBDEC2	6.90

Terminal Pins**General accessories**

Pole Filler, Lock Dogs and Terminals



DTT9025PN

Item Description	Item Type	Catalogue No.	\$AU
Terminal 3 X 16mm neutral link to suit RCCB		DTTAX16PN3	32.00
Terminal Pin 25mm to suit DIN MCBs		DTTTLT25PN2	16.00
Terminal axial spade 25mm2 rear connect (insulated) (ideal for meter boards)		DTT9025PN	39.00

DIN-T MCB Selection Guide

1



	DIN-T6	DIN-T10	DIN-T15	DIN-T10H	DIN-T 2-in-1	DIN-T DC	DIN-T Easy-Fit
Standard (AS/NZS) ¹⁾	60898 / 60947-2	60898 / 60947-2	60947-2	60898 / 60947-2	60898	60898 / 60947-2	60898
No. poles and module width							
1P	18 mm	18 mm	18 mm	27 mm	18mm	18 mm	18 mm
2P	36 mm	36 mm	36 mm	54 mm	18mm	36 mm	-
3P	54 mm	54 mm	54mm	81 mm	36mm	-	54 mm
4P	-	72 mm	72 mm	108 mm	36mm	81 mm	-
Mounting							
	DIN rail	DIN rail	DIN rail	DIN rail	DIN rail	DIN rail	DIN rail
Current ratings							
	2 A - 63 A	0.5 A - 63 A	0.5 A - 63 A	80 A - 125 A	2 A - 40 A	0.5 A - 63 A	6 A - 63 A
Short circuit rating (kA)							
	6 kA	10 kA	15 kA - 50 kA	10 kA	6 kA	6 kA	6 kA
Curve types							
	C and D	B, C and D	C	B, C and D	C	B and C	C
Rated AC voltage 1P/2,3,4P							
	240/415 V	240/415 V	240/415 V	240/415 V	240/415 V	240/415 V	240/415 V
Rated DC voltage							
	48 V 1P 110 V 2P ²⁾	48 V 1P 110 V 2P ²⁾	48 V 1P 110 V 2P ²⁾	125 V 1P 250 V 2P 375 V 3P 500 V 4P	-	250 V 1P 500 V 2P 880 V 4P ²⁾	48 V 1P 110 V 2P ²⁾
Sealable in On-Off position							
	Yes	Yes	Yes	Yes	No	Yes	Yes
Terminal size-On-top							
	35 mm ²	35 mm ²	35 mm ²	70 mm ²	16 mm ²	35 mm ²	4 mm ² 6 A-20 A 35 mm ² 25 A - 63 A
Terminal size-Off-bottom							
	35 mm ²	35 mm ²	35 mm ²	70 mm ²	16 mm ²	35 mm ²	35 mm ²
Accessories							
	RCD add on AUX / AL Shunt UVT Motor operator	RCD add on AUX / AL Shunt UVT Motor operator	RCD add on AUX / AL Shunt UVT Motor operator	Shunt AUX / AL	AUX / AL Shunt	AUX / AL Shunt UVT Motor operator	AUX / AL Shunt
Product Selection							
	28	30	33	34	33	33	Contact NHP

Notes:

- 1) UL listed MCB refer to NHP.
2) Poles connected in series.

Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBs)

DIN-T Miniature Circuit Breakers



- High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- DIN rail mounting
- Free tripping mechanism even if toggle is locked ON or OFF

The DIN-T family of MCBs comprises a comprehensive range with short circuit breaking capacity from 6kA up to 50kA for 240 / 415V AC applications and rated current range from 0.5 to 125A.

Also included in this series are the DIN-T DC MCBs for DC applications as well as the Easy Fit and 2-in-1 MCBs featuring space saving advantages and reducing installation time.

The DIN-T MCB series is complemented by a comprehensive range of accessories including auxiliaries, main switches, shunt trips, motor operators, busbar combs, pushbuttons, lock dogs and more, combining to provide the complete solution for overload and short circuit protection for your commercial and industrial applications.

This series is suited for installation with NHP loadcentres, NHP Concept family of Panelboards and NHP busbar chassis.

DIN-T6

The DIN-T6 series of 6kA MCBs offers current ratings from 2 to 63A with C and D-curve options in 1, 2 and 3 poles.

- Complies with AS/NZS 60898 and AS/NZS 60947-2 (as applicable)
- DIN-T6 MCBs feature 6kA short circuit rating
- C curve for general light, power and motor starting applications
- D trip curve for high inrush, motor starting and transformer applications
- Pad lockable and sealable toggle restricts unauthorized action
- Large capacity terminals
- Fast connection pin/fork busbar comb or NC or GB busbar chassis
- Suits pole-covers, loadcentres and the Concept range of Panelboards
- Approval No. N17481 or RCM

C-Curve (5 - 10 In)

DIN-T6 C curve MCBs with current ranges from 2 to 63A in 1, 2 and 3 poles. General purpose light and power applications and motor starting.

1 Pole

DTCB6163C

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
2	240	48		DTCB6102C	60.00
4	240	48		DTCB6104C	60.00
6	240	48		DTCB6106C	60.00
10	240	48		DTCB6110C	60.00
13	240	48	I	DTCB6113C	60.00
16	240	48		DTCB6116C	60.00
20	240	48		DTCB6120C	60.00
25	240	48		DTCB6125C	60.00
32	240	48		DTCB6132C	60.00
40	240	48		DTCB6140C	60.00
50	240	48		DTCB6150C	60.00
63	240	48		DTCB6163C	60.00

2 Pole

DTCB6232C

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
2	415	110		DTCB6202C	225.00
4	415	110		DTCB6204C	225.00
6	415	110		DTCB6206C	225.00
10	415	110		DTCB6210C	225.00
16	415	110		DTCB6216C	225.00
20	415	110		DTCB6220C	225.00
25	415	110		DTCB6225C	225.00
32	415	110		DTCB6232C	225.00
40	415	110		DTCB6240C	225.00
50	415	110		DTCB6250C	225.00
63	415	110		DTCB6263C	225.00

3 Pole

In (A @30°C)	Un (V AC)	Item Type	Catalogue No.	\$AU
2	415		DTCB6302C	255.00
4	415		DTCB6304C	255.00
6	415		DTCB6306C	255.00
10	415		DTCB6310C	255.00
13	415	I	DTCB6313C	255.00
16	415		DTCB6316C	255.00
20	415		DTCB6320C	255.00
25	415		DTCB6325C	255.00
32	415		DTCB6332C	255.00
40	415		DTCB6340C	255.00
50	415		DTCB6350C	255.00
63	415		DTCB6363C	255.00



DTCB6340C

D-Curve (10 - 20 In)

DIN-T6 D curve MCBs with current ranges from 2 to 63A in 1, 2 and 3 poles. Motor starting and transformers applications.

1 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
2	240	48		DTCB6102D	80.00
4	240	48		DTCB6104D	80.00
6	240	48		DTCB6106D	80.00
10	240	48		DTCB6110D	80.00
16	240	48		DTCB6116D	80.00
20	240	48		DTCB6120D	80.00
25	240	48		DTCB6125D	80.00
32	240	48		DTCB6132D	80.00
40	240	48		DTCB6140D	87.00
50	240	48		DTCB6150D	87.00
63	240	48		DTCB6163D	87.00



DTCB6125D

2 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
2	415	110		DTCB6202D	263.00
4	415	110		DTCB6204D	263.00
6	415	110		DTCB6206D	263.00
10	415	110		DTCB6210D	263.00
16	415	110		DTCB6216D	263.00
20	415	110		DTCB6220D	263.00
25	415	110		DTCB6225D	263.00
32	415	110		DTCB6232D	263.00
40	415	110		DTCB6240D	282.00
50	415	110		DTCB6250D	282.00
63	415	110		DTCB6263D	282.00



DTCB6232D

3 Pole

In (A @30°C)	Un (V AC)	Item Type	Catalogue No.	\$AU
2	415		DTCB6302D	361.00
4	415		DTCB6304D	361.00
6	415		DTCB6306D	361.00
10	415		DTCB6310D	361.00
16	415		DTCB6316D	361.00
20	415		DTCB6320D	361.00
25	415		DTCB6325D	361.00
32	415		DTCB6332D	361.00
40	415		DTCB6340D	361.00
50	415		DTCB6350D	361.00
63	415		DTCB6363D	361.00



DTCB6363D

DIN-T10

The DIN-T10 series of 10kA MCBs offers current ratings ranging from 0.5 to 63A with B, C and D-curve options in 1, 2, 3 and 4 poles.

- Complies with AS/NZS 60898 and AS/NZS 60947-2 (as applicable)
- DIN-T10 MCBs feature 10kA short circuit rating
- B curve for long cable runs when fault loop impedance become an issue
- C curve for general light, power and motor starting applications
- D trip curve for high inrush, motor starting and transformer applications
- Pad lockable and sealable toggle restricts unauthorized action
- Large capacity terminals
- Fast connection pin/fork busbar comb or NC or GB busbar chassis
- Suits pole-covers, loadcentres and the Concept range of Panelboards
- Approval No. N17481 or RCM

C-Curve (5 - 10 In)

DIN-T10 C-curve MCBs with current ranges from 0.5 to 63A in 1, 2, 3 and 4 poles. General purpose light and power applications and motor starting.

1 Pole

DTCB10110C

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
0.5	240	48		DTCB10105C	99.00
1	240	48		DTCB10101C	99.00
2	240	48		DTCB10102C	99.00
3	240	48		DTCB10103C	99.00
4	240	48		DTCB10104C	99.00
6	240	48		DTCB10106C	99.00
10	240	48		DTCB10110C	99.00
16	240	48		DTCB10116C	99.00
20	240	48		DTCB10120C	99.00
25	240	48		DTCB10125C	99.00
32	240	48		DTCB10132C	99.00
40	240	48		DTCB10140C	99.00
50	240	48		DTCB10150C	99.00
63	240	48		DTCB10163C	99.00

2 Pole

DTCB10206C

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
1	415	110		DTCB10201C	307.00
2	415	110		DTCB10202C	307.00
4	415	110		DTCB10204C	307.00
6	415	110		DTCB10206C	307.00
10	415	110		DTCB10210C	307.00
16	415	110		DTCB10216C	307.00
20	415	110		DTCB10220C	307.00
25	415	110		DTCB10225C	307.00
32	415	110		DTCB10232C	307.00
40	415	110		DTCB10240C	307.00
50	415	110		DTCB10250C	307.00
63	415	110		DTCB10263C	307.00

3 Pole

DTCB10340C

In (A @30°C)	Un (V AC)	Item Type	Catalogue No.	\$AU
1	415		DTCB10301C	322.00
2	415		DTCB10302C	322.00
4	415		DTCB10304C	322.00
6	415		DTCB10306C	322.00
10	415		DTCB10310C	322.00
16	415		DTCB10316C	322.00
20	415		DTCB10320C	322.00
25	415		DTCB10325C	322.00
32	415		DTCB10332C	322.00
40	415		DTCB10340C	322.00
50	415		DTCB10350C	322.00
63	415		DTCB10363C	322.00

4 Pole

In (A @30°C)	Un (V AC)	Item Type	Catalogue No.	\$AU
2	415		DTCB10402C	440.00
6	415		DTCB10406C	440.00
10	415		DTCB10410C	440.00
16	415		DTCB10416C	440.00
20	415		DTCB10420C	440.00
25	415		DTCB10425C	440.00
32	415		DTCB10432C	440.00
40	415		DTCB10440C	456.00
50	415		DTCB10450C	481.00
63	415		DTCB10463C	497.00



DTCB10425C

B-Curve (3 - 5 In)

DIN-T10 B-curve MCBs with current range from 6 to 63A in 1, 2 and 3 poles. Ideal for resistive load applications and long cable runs such as carpark lighting when fault loop impedance becomes an issue.

1 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
6	240	48		DTCB10106B	110.00
10	240	48		DTCB10110B	110.00
16	240	48		DTCB10116B	110.00
20	240	48		DTCB10120B	110.00
25	240	48		DTCB10125B	110.00
32	240	48		DTCB10132B	110.00
40	240	48		DTCB10140B	139.00
50	240	48	I	DTCB10150B	182.00
63	240	48	I	DTCB10163B	220.00



DTCB10120B

2 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
6	415	110		DTCB10206B	323.00
10	415	110		DTCB10210B	323.00
16	415	110	I	DTCB10216B	323.00
20	415	110	I	DTCB10220B	323.00
32	415	110	I	DTCB10232B	323.00
40	415	110	I	DTCB10240B	333.00
50	415	110	I	DTCB10250B	376.00
63	415	110	I	DTCB10263B	394.00



DTCB10232B

3 Pole

In (A @30°C)	Un (V AC)	Item Type	Catalogue No.	\$AU
6	415		DTCB10306B	360.00
10	415	I	DTCB10310B	360.00
16	415		DTCB10316B	360.00
20	415		DTCB10320B	360.00
25	415		DTCB10325B	360.00
32	415		DTCB10332B	360.00
40	415		DTCB10340B	375.00
50	415	I	DTCB10350B	497.00
63	415		DTCB10363B	594.00



DTCB10320B

1

D-Curve (10 - 20 In)

DIN-T10 D-curve MCBs with current ranges from 0.5 to 63A in 1, 2, 3 and 4 poles. Motor starting and transformers applications.

1 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
1	240	48		DTCB10101D	110.00
2	240	48		DTCB10102D	110.00
4	240	48		DTCB10104D	110.00
6	240	48		DTCB10106D	110.00
10	240	48		DTCB10110D	110.00
16	240	48		DTCB10116D	110.00
20	240	48		DTCB10120D	110.00
25	240	48		DTCB10125D	110.00
32	240	48		DTCB10132D	110.00
40	240	48		DTCB10140D	139.00
50	240	48		DTCB10150D	182.00
63	240	48		DTCB10163D	220.00



DTCB10132D

2 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
1	415	110		DTCB10201D	323.00
2	415	110		DTCB10202D	323.00
4	415	110		DTCB10204D	323.00
6	415	110		DTCB10206D	323.00
10	415	110		DTCB10210D	323.00
16	415	110		DTCB10216D	323.00
20	415	110		DTCB10220D	323.00
25	415	110		DTCB10225D	323.00
32	415	110		DTCB10232D	323.00
40	415	110		DTCB10240D	351.00
50	415	110	I	DTCB10250D	394.00
63	415	110		DTCB10263D	440.00



DTCB10225D

3 Pole

In (A @30°C)	Un (V AC)	Item Type	Catalogue No.	\$AU
2	415		DTCB10302D	360.00
4	415		DTCB10304D	360.00
6	415		DTCB10306D	360.00
10	415		DTCB10310D	360.00
16	415		DTCB10316D	360.00
20	415		DTCB10320D	360.00
25	415		DTCB10325D	360.00
32	415		DTCB10332D	360.00
40	415		DTCB10340D	375.00
50	415		DTCB10350D	497.00
63	415		DTCB10363D	594.00



DTCB10320D

4 Pole

In (A @30°C)	Un (V AC)	Item Type	Catalogue No.	\$AU
10	415	I	DTCB10410D	456.00
16	415	I	DTCB10416D	456.00
20	415		DTCB10420D	456.00
25	415		DTCB10425D	456.00
32	415		DTCB10432D	456.00
40	415		DTCB10440D	481.00
50	415		DTCB10450D	624.00
63	415		DTCB10463D	941.00



DTCB10425D

DIN-T15

The DIN-T15 series offers MCBs with current ratings from 0.5 to 63A with C curve in 1, 2, 3 and 4 pole. This series meets the requirement of standards AS/NZS60947-2. The short circuit capacity rating varies from 15kA up to 50kA depending upon the current rating of the MCB and the number of poles. General purpose light and power applications and motor starting. Suits connection to CD, NC or GB chassis.

- Complies with AS/NZS 60947-2
- DIN-T15 MCBs feature 15kA+ short circuit rating
- C curve for general light, power and motor starting applications
- Pad lockable and sealable toggle restricts unauthorized action
- Large capacity terminals
- $I_{cs} = 50\% I_{cu}$
- Fast connection pin busbar comb or NC or GB busbar chassis
- For industrial applications
- Suits pole-covers, loadcentres and the Concept range of Panelboards

3-Pole C-Curve (5 - 10 In)

In (A @40°C)	Un (V AC)	Icu (kA @240VAC)	Icu (kA @415VAC)	Item Type	Catalogue No.	\$AU
6	415	50	25		DTCB15306C	753.00
10	415	50	25		DTCB15310C	753.00
16	415	50	25		DTCB15316C	753.00
20	415	50	25		DTCB15320C	753.00
25	415	50	25		DTCB15325C	753.00
32	415	40	20		DTCB15332C	753.00
40	415	40	20		DTCB15340C	753.00
50	415	30	15		DTCB15350C	753.00
63	415	30	15		DTCB15363C	753.00



DTCB15320C

DIN-T6 2-in-1

The DIN-T6 2-in-1 series of 6kA MCBs offers 1 pole + 1 pole and 2 pole MCBs in a single module width of 18mm with current ratings from 2 to 40A. 3 and 4 pole models are also available in two module widths of 36mm with current ratings from 2 to 40A.

- Complies with AS/NZS 60898
- DIN-T6 2-in-1 MCBs feature 6kA short circuit rating
- C-Curve For general purpose light and power applications
- Saves up to 50% of space
- Suits pole-covers and loadcentres
- Approval No. NSW24783 or RCM

2-Pole - Single Module Width (18mm)

In (A @30°C)	Un (V AC)	Item Type	Catalogue No.	\$AU
2	415		DTCBD6202C	300.00
4	415		DTCBD6204C	300.00
6	415		DTCBD6206C	300.00
10	415		DTCBD6210C	300.00
16	415		DTCBD6216C	300.00
20	415		DTCBD6220C	300.00



DTCBD6220C

DIN-T DC Series

DIN-T DC MCBs are equipped with a permanent magnet which aids arc extinguishing under fault conditions, making this range of MCBs suitable for DC voltages up to 250V DC (1 pole), 500V DC (2 poles in series) or 880V DC (4 poles in series). DIN-T DC MCBs are also suitable for AC voltages. Polarity labelling must be respected due to the permanent magnet in the MCB.

- Complies with AS/NZS 60898
- DIN-T DC MCBs feature 6kA short circuit rating
- C-Curve tripping characteristic
- Pad lockable and sealable toggle restricts unauthorized action
- Polarity sensitive
- Large capacity terminals
- Fast connection pin/fork busbar comb or NC or GB busbar chassis
- Suits pole-covers, loadcentres and the Concept range of Panelboards
- Approval No. NSW24265 or RCM

1



DTCBDC120C

DIN-T DC 1 Pole C-Curve (5 - 10 In)

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
0.5	240	250		DTCBDC105C	220.00
1	240	250		DTCBDC101C	220.00
2	240	250		DTCBDC102C	220.00
4	240	250		DTCBDC104C	220.00
6	240	250		DTCBDC106C	220.00
10	240	250		DTCBDC110C	220.00
16	240	250		DTCBDC116C	220.00
20	240	250		DTCBDC120C	220.00
25	240	250		DTCBDC125C	220.00
32	240	250		DTCBDC132C	220.00
40	240	250		DTCBDC140C	220.00
50	240	250		DTCBDC150C	220.00
63	240	250		DTCBDC163C	220.00



DTCBDC263C

DIN-T DC 2 Pole C-Curve (5 - 10 In)

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
1	415	500		DTCBDC201C	461.00
2	415	500		DTCBDC202C	461.00
4	415	500		DTCBDC204C	461.00
6	415	500		DTCBDC206C	461.00
10	415	500		DTCBDC210C	461.00
16	415	500		DTCBDC216C	461.00
20	415	500		DTCBDC220C	461.00
25	415	500		DTCBDC225C	461.00
32	415	500		DTCBDC232C	461.00
40	415	500		DTCBDC240C	461.00
50	415	500		DTCBDC250C	461.00
63	415	500		DTCBDC263C	461.00

DIN-T10H

The DIN-T10H series of MCBs offers rating from 80 to 125A with B, C and D-curve options in 1, 2, 3 and 4 pole. This series meets the requirements of standards AS/NZS60947-2 Icu 16kA, AS/NZS60898* Icn 15kA and has a module width of 27mm and suits NCH or CDH hybrid type chassis (does not fit standards CD, NC or GB chassis with 18mm pole pitch)

- AS/NZS 60947-2 & AS/NZS 60898*
- Centre trip position & trip test button
- Red ON or Green OFF status flag
- Sealable for tamper proof operation
- Pad lock accessory restricts unauthorized action
- Large capacity terminals
- 2 arc chambers ensuring excellent operating/backup characteristics
- Fast connection NCH Hybrid busbar chassis
- * When not mounted on NCH chassis IP20 shroud must be fitted
- For commercial and industrial applications
- Suits pole-covers, load centres and the Concept range of Panelboards

C-Curve (5-10 In)

C curve for general light, power and motor starting applications

1 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
80	240	125		DTCB10H180C	216.00
100	240	125		DTCB10H1100C	254.00
125	240	125		DTCB10H1125C	315.00



DTCB10H180C

2 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
80	415	250		DTCB10H280C	573.00
100	415	250		DTCB10H2100C	610.00
125	415	250		DTCB10H2125C	815.00



DTCB10H280C

3 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
80	415	375		DTCB10H380C	686.00
100	415	375		DTCB10H3100C	686.00
125	415	375		DTCB10H3125C	1,017.00



DTCB10H380C

4 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
80	415	500		DTCB10H480C	1,210.00
100	415	500		DTCB10H4100C	1,210.00
125	415	500		DTCB10H4125C	1,800.00



DTCB10H4100C

D-Curve (10-20 In)

D trip curve for high inrush, motor starting and transformer applications

1 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
80	240	125		DTCB10H180D	305.00
100	240	125		DTCB10H1100D	305.00
125	240	125	I	DTCB10H1125D	349.00



DTCB10H1100D

2 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
80	415	250		DTCB10H280D	617.00
100	415	250		DTCB10H2100D	695.00
125	415	250	I	DTCB10H2125D	926.00



DTCB10H280D

3 Pole

In (A @30°C)	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
80	415	375		DTCB10H380D	791.00
100	415	375		DTCB10H3100D	784.00
125	415	375		DTCB10H3125D	1,114.00



DTCB10H3100D

DIN-T MCB Selection Guide



	DIN-Safe DSRCBSxxxCAN	DIN-Safe DSRCBH	DIN-Safe DSRCB	DIN-Safe DSRCBxxxxAI	DIN-Safe DSRCD	DIN-Safe DSRCM	DIN-SAFE DSRCBT
Standard (AS/NZS)	61009	61009	61009	61009	61008	3190	61009
No. poles & module width	1P + N - 18 mm	1P + N - 18 mm	2P - 36 mm	2P - 36 mm	2P - 36 mm 4P - 72 mm	1P + N 3P, 3P + N	3P + N - 54mm
Mounting	Chassis / DIN rail	Chassis / DIN rail	Chassis / DIN rail	Chassis / DIN rail	DIN rail	Chassis / DIN rail	Chassis / DIN rail
Current ratings	6A / 10A / 16A / 20A 25A / 32A	6A / 10A 16A / 20A / 25A 32A / 40A	6A / 10A 16A / 20A / 25A 32A / 40A	6A / 10A 16A / 20A / 25A 32A / 40A	40A / 63A / 80A 100A / 125A	32A / 63A	6A/ 10A/ 16A/ 20A/ 25A/ 32A/ 40A/ 50A/ 63A
Trip sensitivity	10 mA / 30 mA	10 mA / 30 mA / 100 mA	10 mA / 30 mA / 100 mA	30 mA	30 mA / 100 mA / 300 mA	30 mA / 100 mA / 300 mA	30 mA/ 100 mA / 300 mA
Switched Neutral	Yes	No	Yes	Yes with overcurrent protection	Yes	—	No
Line Side	Bottom	Bottom	Top or Bottom	Top or Bottom	Top or Bottom	—	Bottom
Sensitivity type	A	A	A	AI	AC, A, AI, S, F and B	AC, A	A
Short circuit rating	6kA / 10kA ¹⁾	6 kA / 10 kA	10 kA	6 kA	Inc -10 kA MCB or fuse backup	—	10kA
Curve types	B and C	C and D	C	C	—	—	C
Rated AC voltage 1P/2,3,4P	230/240 V	230/240 V	230/240V ²⁾	230/240 V	2P 230/240 V 4P 400/415 V	230/240 V 400/415 V	400/415 V
Sealable in On-Off position	No	Yes	Yes	Yes	Yes	No	Yes
Terminal size - On-top	16 mm ²	25 mm ²	25 mm ²	25 mm ²	50 mm ²	16 mm ²	25 mm ²
Terminal size - OFF-bottom	35 mm ²	35 mm ²	35 mm ²	35 mm ²	50 mm ²	16 mm ²	25 mm ²
Product Selection	38	37	39	39	40	41	42

Notes:

- 1) 10kA only available up to 20A in C Curve
2) DSRCBxx30A units are suitable for 110/240V

B1105D_dCHRT-S01

Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)

DIN-Safe Residual Current Device

- High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- DIN rail mounting
- Free tripping mechanism even if toggle is locked or sealed ON or OFF

The DIN-Safe series of RCCBs and RCBOs offers a complete range of earth leakage solutions for your distribution network. The DIN-Safe RCCB series provides earth leakage protection with a wide range of options from the type of the RCD to the trip sensitivity depending upon your application requirements.

The DIN-Safe RCBOs combines the functions of both an MCB and RCD providing overload, short circuit and earth leakage protection in the one integral unit. Both compact and 2P wide electromechanical RCBOs are available.



DIN-Safe RCBO Single Pole Width 10kA (DSRCBH)

Long body RCBO of single pole width available with C and D Curve type (10kA) and 10mA, 30mA and 100mA trip sensitivity. Type A RCD is provided as standard.

Suits NC, CD and GB chassis.

- Complies with AS/NZS 61009 (RCBOs)
- DSRCBH RCBOs feature 10kA short circuit rating
- C curve for general light, power and motor starting applications
- D trip curve for high inrush, motorstarting and transformer applications
- Type A RCD
- 30 mA sensitivity general personnel protection applications
- 10 mA sensitivity option for higher risk applications
- 100 mA sensitivity option
- Single screw RCBO features a neutral pigtail saving cable and installation time
- Pad lockable and sealable toggle restricts unauthorized action
- Fast connection pin/fork busbar comb or NC or GB busbar chassis
- Suits metal loadcentres and the Concept range of Panelboards
- Approval No. N17482 or RCM
- 10 mA units compliant with Type 1 requirements

DSRCBH 10kA C Curve

10mA

In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
10	10	10	A	18		DSRCBH-10-10-A	569.00
16	10	10	A	18		DSRCBH-16-10-A	569.00
20	10	10	A	18		DSRCBH-20-10-A	569.00
25	10	10	A	18		DSRCBH-25-10-A	569.00
32	10	10	A	18		DSRCBH-32-10-A	569.00
40	10	10	A	18	I	DSRCBH-40-10-A	569.00



DSRCBH-20-10-A

30mA

In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
6	30	10	A	18		DSRCBH-06-30-A	524.00
10	30	10	A	18		DSRCBH-10-30-A	524.00
16	30	10	A	18		DSRCBH-16-30-A	524.00
20	30	10	A	18		DSRCBH-20-30-A	524.00
25	30	10	A	18		DSRCBH-25-30-A	524.00
32	30	10	A	18		DSRCBH-32-30-A	524.00
40	30	10	A	18		DSRCBH-40-30-A	524.00



DSRCBH-20-30-A

100mA

In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
10	100	10	A	18	I	DSRCBH-10-100-A	569.00
16	100	10	A	18		DSRCBH-16-100-A	569.00
20	100	10	A	18		DSRCBH-20-100-A	569.00
25	100	10	A	18	I	DSRCBH-25-100-A	569.00
32	100	10	A	18		DSRCBH-32-100-A	569.00
40	100	10	A	18		DSRCBH-40-100-A	569.00



DSRCBH-25-100-A

1

**DSRCBH 10kA D Curve**

30mA

In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
10	30	10	A	18		DSRCBH-10-30-AD	524.00
16	30	10	A	18		DSRCBH-16-30-AD	524.00
20	30	10	A	18		DSRCBH-20-30-AD	524.00
25	30	10	A	18		DSRCBH-25-30-AD	524.00
32	30	10	A	18		DSRCBH-32-30-AD	524.00
40	30	10	A	18		DSRCBH-40-30-AD	524.00

DIN-Safe RCB Single Pole Width 6kA (DSRCBH)

Long body RCB of single pole width available with MCB C curve type (6kA) and 30mA trip sensitivity. Type A RCD is provided as standard.

Suits NC, CD and GB chassis.

- Complies with AS/NZS 61009 (RCBOs)
- DSRCBH6 RCBs feature 6kA short circuit rating
- C curve for general light, power and motor starting applications
- Type A RCD
- 30mA sensitivity general personnel protection applications
- Single screw RCB features a neutral pigtail saving cable and installation time
- Pad lockable and sealable toggle restricts unauthorized action
- Fast connection pin/fork busbar comb or NC or GB busbar chassis
- Suits metal loadcentre's & Concept range of Panelboard's
- Approval No. N17482 or RCM



In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
6	30	6	A	18		DSRCBH6-06-30-A	423.00
10	30	6	A	18		DSRCBH6-10-30-A	423.00
16	30	6	A	18		DSRCBH6-16-30-A	423.00
20	30	6	A	18		DSRCBH6-20-30-A	423.00
25	30	6	A	18		DSRCBH6-25-30-A	423.00
32	30	6	A	18		DSRCBH6-32-30-A	423.00
40	30	6	A	18		DSRCBH6-40-30-A	423.00

DIN-Safe RCB Compact Single Pole Width 6kA (DSRCBS)

Compact RCB of single pole width available with C curve or B curve type (6kA) and 30mA trip sensitivity. Type A RCD suits NC, CD and GB chassis.

- Complies with AS/NZS 61009 (RCBOs)
- DSRCBS RCBs feature 6kA short circuit rating
- C curve for general light, power and motor starting applications
- Type A RCD with switched neutral
- 30 mA sensitivity general personnel protection applications
- 10 mA sensitivity option for higher risk applications
- Compact single screw RCB features a neutral pigtail saving cable and installation time
- Pad lockable and sealable toggle restricts unauthorized action
- Fast connection pin/fork busbar comb or NC or GB busbar chassis
- Suits pole-covers, loadcentres and the Concept range of Panelboards
- Approval No. NSW24576 or RCM
- Energy Safe Victoria (ESV) compliant for residential applications
- 10 mA units compliant with Type 1 requirements

DSRCBS 6kA C Curve Switched Neutral

In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
6	30	6	A	18		DSRCBS-06-30-CAN	563.00
10	30	6	A	18		DSRCBS-10-30-CAN	563.00
16	30	6	A	18		DSRCBS-16-30-CAN	563.00
20	30	6	A	18		DSRCBS-20-30-CAN	563.00
25	30	6	A	18		DSRCBS-25-30-CAN	563.00
32	30	6	A	18		DSRCBS-32-30-CAN	563.00
6	10	6	A	18	I	DSRCBS-06-10-CAN	588.00
10	10	6	A	18		DSRCBS-10-10-CAN	588.00
16	10	6	A	18		DSRCBS-16-10-CAN	588.00
20	10	6	A	18		DSRCBS-20-10-CAN	588.00
25	10	6	A	18	I	DSRCBS-25-10-CAN	588.00
32	10	6	A	18	I	DSRCBS-32-10-CAN	588.00

DSRCBS 6kA B Curve Switched Neutral

In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
6	30	6	A	18	I	DSRCBS0630BAN	563.00
10	30	6	A	18		DSRCBS1030BAN	563.00
16	30	6	A	18		DSRCBS1630BAN	563.00
20	30	6	A	18		DSRCBS2030BAN	563.00
25	30	6	A	18	I	DSRCBS2530BAN	563.00
32	30	6	A	18	I	DSRCBS3230BAN	563.00



DSRCBS1030BAN

DSRCBS 10kA C Curve Switched Neutral

In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
6	10	10	A	18	I	DSRCBS100610CAN	632.00
10	10	10	A	18	I	DSRCBS101010CAN	632.00
16	10	10	A	18	I	DSRCBS101610CAN	632.00
20	10	10	A	18	I	DSRCBS102010CAN	632.00
6	30	10	A	18	I	DSRCBS100630CAN	632.00
10	30	10	A	18	I	DSRCBS101030CAN	632.00
16	30	10	A	18	I	DSRCBS101630CAN	632.00
20	30	10	A	18	I	DSRCBS102030CAN	632.00



DSRCBS101010CAN

DIN-Safe RCBO (2P Width)

- Complies with AS/NZS 61009 (RCBOs)
- DSRCB RCBOs feature 10 kA short circuit rating (AI is 6 kA)
- Type A RCD
- Non-pigtail model with switched neutral
- Pigtail model with unswitched neutral
- 30 mA sensitivity general personnel protection applications
- 10 mA sensitivity option for higher risk applications
- 100 mA sensitivity option
- C trip curve for general light and power applications
- Fast connection pin / fork busbar comb
- Suits pole-covers, loadcentres and the Coneccept range of Panelboards
- Approval No. NSW17482 or RCM
- 10 mA units compliant with Type 1 requirements

10kA RCBO without Pigtail

Version with switched neutral and suits 3P+N NC or GB chassis or special CD chassis. Also suitable for loadcentres.

- Type A 30mA suitable for 110/240V
- Type A 10mA and 100mA suitable for 240V
- Type AI 30mA suitable for 240V

Type A RCBO

In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
6	10	10	A	36		DSRCB-06-10-A	477.00
10	10	10	A	36		DSRCB-10-10-A	477.00
16	10	10	A	36		DSRCB-16-10-A	477.00
20	10	10	A	36		DSRCB-20-10-A	477.00
6	30	10	A	36		DSRCB-06-30-A	465.00
10	30	10	A	36		DSRCB-10-30-A	465.00
16	30	10	A	36		DSRCB-16-30-A	465.00
20	30	10	A	36		DSRCB-20-30-A	465.00
25	30	10	A	36		DSRCB-25-30-A	465.00
32	30	10	A	36		DSRCB-32-30-A	465.00
40	30	10	A	36		DSRCB-40-30-A	465.00
10	100	10	A	36		DSRCB-10-100-A	490.00
16	100	10	A	36		DSRCB-16-100-A	490.00
20	100	10	A	36		DSRCB-20-100-A	490.00



DSRCB-06-30-A

1



DSRCB-25-30-AI

Type AI RCBO (High Immunity Type & Earth Leakage Trip Indicator)

In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
6	30	6	AI	36		DSRCB-06-30-AI	497.00
10	30	6	AI	36		DSRCB-10-30-AI	497.00
16	30	6	AI	36		DSRCB-16-30-AI	497.00
20	30	6	AI	36		DSRCB-20-30-AI	497.00
25	30	6	AI	36	I	DSRCB-25-30-AI	497.00
32	30	6	AI	36		DSRCB-32-30-AI	497.00
40	30	6	AI	36		DSRCB-40-30-AI	497.00

DIN-Safe Safety Switches (RCCBs)

The DIN-Safe RCCB series features Type A, F, S and B RCDs with 2P (1P+N) and 4P (3P+N) versions available with a variety of trip sensitivity options.

- Complies with AS/NZS 61008 (RCCBs)
- DIN-SAFE RCCBs feature 10 kA conditional short circuit rating
- 1P+N and 3P+N for single or three phase loads
- Type A, AI, F, B and S options
- 30 mA sensitivity featured as standard simplifying the selection for personnel protection applications
- 100 mA, 300 mA and 500 mA sensitivity options
- Fast connection pin/fork busbar comb or busbar chassis
- Suits pole-covers and loadcentres
- Approval No. NSW17482 (Type AC, A, AI & S)
- Approval No. NSW27811 (Type B)

DIN-Safe RCCB Type A

1P + N



DSRCD-2-40-30-A

In (A @30°C)	IΔn (mA)	RCD Type	W (mm)	Poles	Item Type	Catalogue No.	\$AU
40	30	A	36	1P + N		DSRCD-2-40-30-A	386.00
63	30	A	36	1P + N		DSRCD-2-63-30-A	425.00
80	30	A	36	1P + N		DSRCD-2-80-30-A	471.00
40	100	A	36	1P + N		DSRCD-2-40-100-A	465.00
80	100	A	36	1P + N	I	DSRCD-2-80-100-A	563.00

3P + N



DSRCD-4-40-30-A

In (A @30°C)	IΔn (mA)	RCD Type	W (mm)	Poles	Item Type	Catalogue No.	\$AU
40	30	A	72	3P + N		DSRCD-4-40-30-A	505.00
63	30	A	72	3P + N		DSRCD-4-63-30-A	549.00
63	100	A	72	3P + N		DSRCD-4-63-100-A	680.00
80	100	A	72	3P + N		DSRCD-4-80-100-A	745.00

DIN-Safe RCCB High Immunity Type (AI)

1P + N



DSRCD-2-63-30-AI

In (A @30°C)	IΔn (mA)	RCD Type	W (mm)	Poles	Item Type	Catalogue No.	\$AU
40	30	AI	36	1P + N		DSRCD-2-40-30-AI	458.00
63	30	AI	36	1P + N	I	DSRCD-2-63-30-AI	458.00

3P + N



DSRCD-4-40-30-AI

In (A @30°C)	IΔn (mA)	RCD Type	W (mm)	Poles	Item Type	Catalogue No.	\$AU
40	30	AI	72	3P + N		DSRCD-4-40-30-AI	556.00
63	30	AI	72	3P + N		DSRCD-4-63-30-AI	686.00

DIN-Safe RCCB Selective Type (40ms Delay)

1P + N

Poles	I Δ n (mA)	I _n (A @30°C)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
1P + N	100	63	S	36		DSRCD-2-63-100-S	588.00
1P + N	300	63	S	36		DSRCD-2-63-300-S	588.00
3P + N	100	63	S	72		DSRCD-4-63-100-S	680.00
3P + N	300	63	S	72		DSRCD-4-63-300-S	680.00



DSRCD-2-63-100-S

DIN-Safe RCCB Type B

1P + N

Poles	I Δ n (mA)	I _n (A @30°C)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
1P + N	30	63	B	72		DSRCD-2-63-30-B	1,482.00
3P + N	30	63	B	72		DSRCD-4-63-30-B	1,780.00



DSRCD-2-63-30-B

DIN-Safe RCCB Type F

1P + N

Poles	I Δ n (mA)	I _n (A @30°C)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
1P + N	30	40	F	36		DSRCD-2-40-30-F	816.00
3P + N	30	40	F	72		DSRCD-4-40-30-F	966.00

DSRCBT 30mA

- Complies with AS/NZS 61009 (RCBOs)
- DSRCBT DIN-T RCBOs feature 10kA short circuit rating
- C-Curve for general light, power and motor starting applications
- Type A RCD
- 30mA sensitivity for general personnel protection applications
- 100mA and 300mA options
- Compact 3P (54mm) width space saving
- Neutral pigtail (900mm) saving cable and installation time
- Padlockable and sealable toggle restricts unauthorised action
- Free tripping mechanism even if toggle is locked or sealed ON or OFF
- Fast connection pin/fork busbar comb or NC or GB busbar chassis
- Suits metal loadcentres and the Concept range of panelboards
- RCM approval

I _n (A @30°C)	I Δ n (mA)	I _{cn} (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
6	30	10	A	53.4		DSRCBT0630A	434.00
10	30	10	A	53.4		DSRCBT1030A	434.00
16	30	10	A	53.4		DSRCBT1630A	434.00
20	30	10	A	53.4		DSRCBT2030A	434.00
25	30	10	A	53.4		DSRCBT2530A	434.00
32	30	10	A	53.4		DSRCBT3230A	434.00
40	30	10	A	53.4		DSRCBT4030A	561.00
50	30	10	A	53.4		DSRCBT5030A	561.00
63	30	10	A	53.4		DSRCBT6330A	561.00



DSRCBT2530A

DSRCBT 100mA

I _n (A @30°C)	I Δ n (mA)	I _{cn} (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
6	100	10	A	53.4	I	DSRCBT06100A	765.00
10	100	10	A	53.4	I	DSRCBT10100A	765.00
16	100	10	A	53.4	I	DSRCBT16100A	765.00
20	100	10	A	53.4	I	DSRCBT20100A	765.00
25	100	10	A	53.4	I	DSRCBT25100A	765.00
32	100	10	A	53.4	I	DSRCBT32100A	765.00
40	100	10	A	53.4	I	DSRCBT40100A	893.00
50	100	10	A	53.4	I	DSRCBT50100A	893.00
63	100	10	A	53.4	I	DSRCBT63100A	893.00



DSRCBT16100A

1



DSRCBT32300A

DSRCBT 300mA

In (A @30°C)	IΔn (mA)	Icn (kA)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
6	300	10	A	53.4	I	DSRCBT06300A	765.00
10	300	10	A	53.4	I	DSRCBT10300A	765.00
16	300	10	A	53.4	I	DSRCBT16300A	765.00
20	300	10	A	53.4	I	DSRCBT20300A	765.00
25	300	10	A	53.4	I	DSRCBT25300A	765.00
32	300	10	A	53.4	I	DSRCBT32300A	765.00
40	300	10	A	53.4	I	DSRCBT40300A	893.00
50	300	10	A	53.4	I	DSRCBT50300A	893.00
63	300	10	A	53.4	I	DSRCBT63300A	893.00

DIN-Safe RCCB Add-on Module (DSRCM)

The add-on DSRCM module combines with a DIN-T6, DIN-T10 or DIN-T15 MCB to provide short circuit, overload and earth leakage protection for 1P+N, 3P and 3P+N circuits. Suits connection to NC, CD and GB chassis.

- 1P+N and 3P+N DSRCM type supply neutral connected by "pigtail" cable
- 1P+N DSRCM type are suitable for 415V 2P applications
- Current rating of Add-on Module is the MCBs maximum current rating to be connected

1P+N DSRCM

- Complies with AS3190 (RCCBs)
- DIN-SAFE Add-on-Modules feature 10kA conditional short circuit rating
- 1P+N, 3P and 3P+N for single or three phase loads
- Type AC RCD
- 30mA, 100mA, 300mA RCD options
- Suits pole-covers, loadcentres and the Concept range of Panelboards
- Approval No N11974 or RCM



DSRCM32-30-1PN

IΔn (mA)	In (A @30°C)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
30	32	AC	36		DSRCM32-30-1PN	726.00
30	63	AC	36		DSRCM63-30-1PN	888.00
100	32	AC	36		DSRCM32-100-1PN	752.00
100	63	AC	36		DSRCM63-100-1PN	943.00
300	32	AC	36		DSRCM32-300-1PN	820.00
300	63	AC	36		DSRCM63-300-1PN	943.00

3P 63A DSRCM

- Complies with AS3190 (RCCBs)
- DIN-SAFE Add-on-Modules feature 10kA conditional short circuit rating
- 1P+N, 3P and 3P+N for single or three phase loads
- Type AC RCD
- 30mA, 100mA, 300mA RCD options
- Suits pole-covers, loadcentres and the Concept range of Panelboards
- Approval No N11974 or RCM



DSRCM63-30-3P

IΔn (mA)	In (A @30°C)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
30	63	AC	54		DSRCM63-30-3P	1,028.00
100	63	AC	54		DSRCM63-100-3P	1,039.00
300	63	AC	54		DSRCM63-300-3P	1,039.00

3P+N DSRCM

- Complies with AS3190 (RCCBs)
- DIN-SAFE Add-on-Modules feature 10kA conditional short circuit rating
- 1P+N, 3P and 3P+N for single or three phase loads
- Type AC RCD
- 30mA, 100mA, 300mA RCD options
- Suits pole-covers, loadcentres and the Concept range of Panelboards
- Approval No N11974 or RCM



DSRCM63-30-3PN

IΔn (mA)	In (A @30°C)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
30	63	AC	54		DSRCM63-30-3PN	990.00
100	32	AC	36		DSRCM32-100-3PN	970.00
100	63	AC	54		DSRCM63-100-3PN	1,039.00
300	32	AC	36		DSRCM32-300-3PN	970.00
300	63	AC	54		DSRCM63-300-3PN	1,039.00

3P+N Type A DSRCM

- Complies with AS3190 (RCCBs)
- DIN-SAFE Add-on-Modules feature 10kA conditional short circuit rating
- 1P+N, 3P and 3P+N for single or three phase loads
- Type A RCD
- 30mA, 100mA, 300mA RCD options
- Suits pole-covers, loadcentres and the Concept range of Panelboards
- Approval No N11974 or RCM

IΔn (mA)	In (A @30°C)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
30	32	A	36		DSRCM32-30-3PNA	881.00



DSRCM32-30-3PNA

3P Type A DSRCM

- Complies with AS3190 (RCCBs)
- DIN-SAFE Add-on-Modules feature 10kA conditional short circuit rating
- 1P+N, 3P and 3P+N for single or three phase loads
- Type A RCD
- 30mA, 100mA, 300mA RCD options
- Suits pole-covers, loadcentres and the Concept range of Panelboards
- Approval No N11974 or RCM

IΔn (mA)	In (A @30°C)	RCD Type	W (mm)	Item Type	Catalogue No.	\$AU
30	63	A	54		DSRCM63-30-3PA	1,095.00



DSRCM63-30-3PA

Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBs)

DIN-T Accessories



- IEC 60947-3
- Double break contacts
- Sealable toggle
- Din Rail Mount
- Red Toggle
- Suits NC on GB Chassis

Completing the DIN-T series of MCBs and RCDs, the comprehensive range of accessories ensures a high degree of control, monitoring and safety options are available to satisfy any requirement.

DIN-T accessories include main switches, shunt and undervoltage trips, auxiliaries, LOCKDIN (lock dogs), contactors, pushbuttons, changeover switches, busbar combs, terminal covers and more.

DIN-T Main Switches

DIN-T main switches have the same profile as DIN-T MCBs and are suitable for use as a main switch (isolator) in loadcentres and distribution boards.

- Side mount 63 to 100 A NC Chassis
- Side mount 63 - 80 A CD Chassis



DINTMS631

Main Switches

In (A)	Poles	W (mm)	Item Type	Catalogue No.	\$AU
63	1P	18		DINTMS631	71.00
80	1P	18		DINTMS801	76.00
100	1P	18		DINTMS1001	80.00
63	2P	36		DINTMS632	92.00
80	2P	36		DINTMS802	112.00
100	2P	36		DINTMS1002	127.00
63	3P	54		DINTMS633	150.00
80	3P	54		DINTMS803	174.00
100	3P	54		DINTMS1003	196.00

DIN-T Shunt Trip

The shunt trip makes it possible to remotely switch the associated main device to the off position by energising coil of the shunt trip.

- Shunt trip are supplied as a kit for field fitting to MCBs
- Wide range of voltages in both AC and DC

Shunt Trip

- Can be fitted to LH or RH side of MCBs or RH side DSRCB, DSRCB
- Can be fitted to RH side of DSRCB or LH or RH side of DSRCB...AI provided auxiliary is fitted first
- Only fits to LH side of DTCB10H
- Anti-burn out contact (use terminals C1 and C2)
- Includes busbar cavity for chassis mounting



DTSHT2460V

Item Description	Item Type	Catalogue No.	\$AU
DIN-T Shunt Trip 110-415V AC & 110-125V DC		DTSHT110415V	285.00
DIN-T Shunt Trip 24-60V AC & 24-48V DC		DTSHT2460V	285.00
DTCB10H Shunt Trip 220-415V AC		DTCB10HSHT220415	287.00
DTCB10H Shunt Trip 48-130V AC	I	DTCB10HSHT48130	287.00

DIN-T Undervoltage Trip

The DIN-T UVT trips the MCB when the operating voltage threshold is lower than 0.5x Un. Adjustable time delay up to 300ms eliminates nuisance tripping.

Note: UVT does not suit DIN-T10H MCBs.

Undervoltage Trip

Item Description	Item Type	Catalogue No.	\$AU
DIN-T Undervoltage Trip 230V AC		DTUVT240VAC	305.00
DIN-T Undervoltage Trip 24V AC/DC		DTUVT24VDC	305.00



DTUVT240VAC

DIN-T Auxiliaries

Auxiliary contacts to suit DIN-T6, DIN-T10, DIN-T10H and DIN-T15 series of MCBs along with options for the DIN-Safe DSRCB and 2P/4P RCCB.

- Din-T auxiliary contacts indicate main contact position of the associated main device. 'H' = Auxiliary Switch
- Din-T alarm contacts indicate if main device has tripped. 'S' = Alarm Switch
- These auxiliaries are field fitable and feature a changeover contact

DIN-T Auxiliary Contact to suit DIN-T6, 10, 15 and DSRCB

Stack up to 4x units left or right side, however please note DTAUXAL type fits right side only on 2P RCBO and 2P/4P RCCB.

Includes busbar cavity for chassis mounting, current rating 5 A version with gold contacts available for very low current < 200 mA and voltage < 24 V applications.

Item Description	Item Type	Catalogue No.	\$AU
Auxiliary Contact Silver Contacts; Alarm (S) or Auxiliary (H) Output- suits DIN-T		DTAUXAL	184.00
Auxiliary Contact Gold Contacts; Alarm (S) or Auxiliary (H) Output - suits DIN-T		DTAUXALG	222.00



DTAUXAL

DIN-T Auxiliary contact to suit DSRCBS

Auxiliary contact for DSRCBS RCBs fit to right side only

Stack up to 3 additional Auxiliaries- DTAUXAL type

Item Description	Item Type	Catalogue No.	\$AU
Auxiliary Contact Silver Contacts- suits DSRCBS		DSRCBSAX	184.00
Auxiliary Contact Silver Contacts; Alarm (S) or Auxiliary (H) Output- suits DSRCBS		DSRCBSAXAL	204.00



DSRCBSAX

DIN-T Auxiliary contact to suit DTCB10H

- Auxiliary contact for DTCB10H fit to left side only
- Stack up to 1 additional auxiliaries
- Has one changeover contact for each H and S function

Item Description	Item Type	Catalogue No.	\$AU
DIN-T Auxiliary Contact To Suit DTCB10H		DTCB10HAUXAL	200.00

DIN-T Changeover Switch

DIN-T changeover switches have the same profile as DIN-T MCBs with 1P and 2P 25A options. A 2 position (i.e. without OFF position) or 3 position (I-O-II) DIN-T changeover switch is available.

- Standard IEC 60669-1
- Complies with IEC 408 isolating duty - has double break contacts
- Terminal protection IP 20
- Handle sealable and lockable in on or off position
- Captive terminal screws with cross head
- Option with or without OFF position

Changeover Switch

Item Description	Item Type	Catalogue No.	\$AU
DIN Change-Over Switch, without off 2P 25A		DTCS2522	129.00
DIN Change-Over Switch, with off 2P 25A		DTCS2523	138.00



DTCS2523

1

DIN-T Busbar Combs

Pin and fork type busbar combs available with end caps to suit.

Note: ICL end caps do not suit IBC busbar combs.

Pin Type Busbar Combs

Pin type busbar comb used to link up line side of MCBs and RCBs using the tunnel terminal.

IBC Type - 1-Phase (Comes Complete with End Caps)

Ways	Poles	InCntrFeed (A)	In EndFeed (A)	Item Type	Catalogue No.	\$AU
21	1P	130	80		IBC121P	63.00
55	1P	130	80		IBC155P	138.00



IBC121P

ICL Type - 2P, 3P and 3P+N

Ways	Poles	InCntrFeed (A)	In EndFeed (A)	Item Type	Catalogue No.	\$AU
10	1P + N	130	80		ICL102	46.00
56	1P + N	130	80		ICL562	226.00
6	1P + N	130	80		ICL62	33.00
12	3P	130	80		ICL123	85.00
15	3P	130	80		ICL153	106.00
18	3P	130	80		ICL183	127.00
21	3P	130	80		ICL213	167.00
57	3P	130	80		ICL573	393.00
56	3P + Aux	130	80		ICL563A	348.00
56	3P + N	130	80		ICL564	448.00



ICL62

IBD Type - 3P

Ways	Poles	InCntrFeed (A)	In EndFeed (A)	Item Type	Catalogue No.	\$AU
12	3P	100	80		IBD312P	79.00



IBD312P

DIN-T Busbar Comb End caps

End cap to suitable shroud end of buscomb neatly covering exposed or cut ends.

Busbar Comb End caps

Item Description	Item Type	Catalogue No.	\$AU
Buscomb End Cap 1 Phase ICL External		ICLEC1	0.85
Buscomb End Cap to suit 2P and 3P IBD		ICLEC23	8.35
Buscomb End Cap to suit 3P+N ICL		ICLEC4	8.35



ICLEC1

DIN-T Busbar Comb Tee-off cap

End cap to cover exposed unused tee-offs on DIN CD busbar chassis.

Busbar Comb Tee-off cap

Item Description	Item Type	Catalogue No.	\$AU
Buscomb tee-Off caps yellow (strip of 5)		ICLTOC	7.85



ICLTOC

DIN-T Pushbuttons

- Modular size
- DIN rail mounting
- Terminal protection IP 20
- Contacts 16 amp rating @250V AC

Pushbuttons

Item Description	Item Type	Catalogue No.	\$AU
DIN Pushbutton N/O + N/C 9mm		DTPC119	62.00



DTPC119

DIN-T Terminal Connectors

Options include axial spade (25mm²) or axial pin (25mm² and 50mm²) and lateral spade (35mm²) or lateral pin (35mm²) terminal connectors. Allows connection of larger cables into smaller terminals as well as offering separate terminal for customer connection preserving the life of the functional unit terminals.

Terminal Connectors

Item Description	Item Type	Catalogue No.	\$AU
Terminal Axial Pin 25mm ² (Insulated) to suit DIN MCBs		DTTAX25PN	21.00
Terminal Axial Spade 25mm (insulated) to suit DIN MCBs		DTTAX25SP	21.00
Terminal Long Lateral Pin 35mm to suit DIN MCBs		DTTLT35LPN	21.00
Terminal Lateral Pin 35mm to suit DIN MCBs		DTTLT35PN	21.00
Buscomb Terminal Feeder 35mm		DTCF35	33.00
Terminal Axial Pin 50mm (insulated) to suit DIN MCBs		DTTAX50PN	34.00



DTTLT35LPN

DIN-T Motor Operator

The motor operator allows remote opening or closing of attached MCBs and RCDs. Control of the DTMD can be achieved by a variety of means such as pushbuttons, switches, relays or building management systems.

Suitable for coupling to left or right side of DIN-T devices including 1, 2 and 3 pole DIN-T6, DIN-T10, DIN-T15, 2 and 4 pole DIN-T RCCBs and 2P RCBs.

Not suitable for DIN-T10H MCBs.

Motor Operator

Item Description	Item Type	Catalogue No.	\$AU
DIN Motor Driver 230V AC suits DIN-T		DTMD240VAC	1,142.00



DTMD240VAC

DIN-T Terminal Covers and Pole Fillers

5mm and 35mm DIN-T terminal covers to suit DIN-T6, DIN-T10 and DIN-T15 along with terminal covers to suit DIN-T10H and DSRCBH.

Pole filler DTPF available for use with escutcheon cut-out.

Terminal Covers & Pole Fillers

Item Description	Item Type	Catalogue No.	\$AU
Terminal Cover 5mm suits DIN-T MCBs		DTTC5	8.35
Terminal Cover 35mm suits DIN-T MCBs		DTTC35	29.00
Terminal Cover IP20 suits DTCB10H (required when not fitted to busbar chassis)		DTCB10HSRD	13.00
Terminal Cover 35mm suits DSRCBH	I	DSRCBHTC	15.00
DIN Dummy MCB (Filler for touch protection)		DTLDM	22.00



DTTC5

1

DIN-T Locking Devices

Captive and non-captive locking devices including the patented LOCKDIN™ solution.

LOCKDIN

The first comprehensive system for safe and secure locking of DIN-T MCBs (1, 2 and 3 pole). Easy to install and retrofit, options are also available for DIN-T RCBs and accept 2.5 - 6.5mm padlocks, hasps and scissor arrangements.

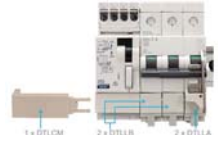
Blanking devices and pole fillers also available for a complete finish.

Note: LOCKDIN unsuitable for 1 pole compact RCBs.

Locking Devices

DTLLA

Item Description	Item Type	Catalogue No.	\$AU
LOCKDIN LOCK DIN-T MCBs & DSRCBH LEFT HAND 6.5mm		DTLLA	92.00
LOCKDIN LOCK DIN-T MCBs & DSRCBH RIGHT HAND 6.5mm		DTLLARH	92.00
LOCKDIN LOCK 2P DSRCBxxxxA LEFT HAND 6.5mm		DTLLAB	92.00
LOCKDIN LOCK 2P DSRCBxxxxA RIGHT HAND 6.5mm		DTLLABRH	92.00
LOCKDIN LOCK DTCB10H MCB 27mm SUIT 1P-4P 6.5mm		DTLLADTCB10H	109.00
LOCKDIN LOCK DIN-T MCBs & DSRCBH LEFT HAND 6.5mm 12 PACK		DTLLABULK	1,039.00
LOCKDIN LOCK DIN-T MCBs & DSRCBH RIGHT HAND 6.5mm 12 PACK		DTLLARHBULK	1,039.00

Pole Fillers and Blanking Devices

DTLCM

Item Description	Item Type	Catalogue No.	\$AU
LOCKDIN Locking Blank for DSRCM (Add On RCCB), 3 Pole MCBs		DTLCM	8.00
LOCKDIN Locking Blank for MCBs and DSRCBH (12 Pack)		DTLLB	22.00
LOCKDIN Pole Filler Extended Length to suit 63mm Cutout (12 Pack)		DTLPF	22.00

Other Lock Dogs (Non-Captive and Captive)

DCLD6

Item Description	Item Type	Catalogue No.	\$AU
LOCKING DEVICE SIDE MOUNT SUITS DTCB10H 6.5mm		DTCB10HLD	25.00
LOCKING DEVICE YELLOW NON CAPTIVE SUITS DTCB10H (QTY 10) 4mm		DTCB10HLDNC	25.00
LOCKING DEVICE CAPTIVE DIN-T MCBs 6.5mm		DCLD6	106.00

DIN-T Fillers**Pole Fillers and Lockdogs**

DTPF12

Item Description	Item Type	Catalogue No.	\$AU
DIN Pole Filler (1 Strip Of 12 Poles, 24 X 9mm Segments)		DTPF12	27.00
LOCKING DEVICE REMOVABLE INDIVIDUAL PIECE 8mm		DTLD	38.00

Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)

Safe-T Residual Current Device

- Complies with AS 3111 / AS 3190
- 6kA short circuit rating
- Clip tray mounting
- NEMA style 25mm width
- MCBs and RCBO options

The Safe-T range of earth leakage protection products consists of the single pole width SRCB RCBOs and Safe-T Earth Leakage Relays (ELR). The mounting method is identical to the Safe-T miniature breakers, utilising the clip-tray system.



Safe-T Single Pole Width RCBO (SRCB)

The SRCB series offers overload, short circuit (6kA) and earth leakage protection in a single module width unit with 10mA and 30mA trip sensitivity from 10A up to 20A.

The SRCB series can be retro fitted into older style TLC loadcenters, CST and CPS panelboards.

- Approval No. NSW15251 or RCM
- Current ratings 10A, 16A and 20A
- 10mA and 30mA sensitivities
- Available with different adaptors to suit NHP (CT), Heinemann and Eaton (Quicklag) busbar chassis
- Perfect for retro fit or new installations - 1P width

10mA SRCB

In (A @40°C)	IΔn Trip (mA)	W (mm)	Item Type	Catalogue No.	\$AU
10	10	25	I	SRCB1010	841.00
16	10	25		SRCB1610	815.00
20	10	25		SRCB2010	815.00



SRCB2010

30mA SRCB

In (A @40°C)	IΔn Trip (mA)	W (mm)	Item Type	Catalogue No.	\$AU
10	30	25		SRCB1030	653.00
16	30	25		SRCB1630	653.00
20	30	25		SRCB2030	653.00



SRCB2030

30mA SRCB Pre-Fitted with Adaptor

Item Description	Item Type	Catalogue No.	\$AU
RCBO SAFE-T 1P 10A 30mA with Eaton/Quicklag Adaptor		SRCB1030WA	653.00
RCBO SAFE-T 1P 16A 30mA with Eaton/Quicklag Adaptor		SRCB1630WA	653.00
RCBO SAFE-T 1P 20A 30mA with Eaton/Quicklag Adaptor		SRCB2030WA	653.00
RCBO SAFE-T 1P 10A 30mA with Heinemann Adaptor		SRCB1030HA	653.00
RCBO SAFE-T 1P 16A 30mA with Heinemann Adaptor		SRCB1630HA	653.00
RCBO SAFE-T 1P 20A 30mA with Heinemann Adaptor		SRCB2030HA	653.00



SRCB1030WA

Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBs)

DIN-T Contactors

- Standards IEC 60947-1, IEC 60947-4-1 and IEC 61095
- 16, 20, 25, 40 & 63A
- Silent operated, hum free AC/DC coils
- Integrated surge protection
- Low power consumption
- Indicator position flag Red/Green
- Space saving, no spacer required 16A & 20A models
- 9mm Spacer required 25, 40 & 63A models if duty time 1hour and ambient >40°C
- Add on auxiliary contact 2NO or 1NO/1NC
- DIN rail mount

Completing the DIN-T series of MCBs and RCDs, the comprehensive range of accessories ensures a high degree of control, monitoring and safety options are available to satisfy any requirement.

DIN-T accessories include main switches, shunt and undervoltage trips, auxiliaries, LOCKDIN (lock dogs), contactors, pushbuttons, changeover switches, busbar combs, terminal covers and more.

DIN-T DTC..D Contactors

Completing the DIN-T series of MCBs and RCDs, the comprehensive range of accessories ensures a high degree of control, monitoring and safety options are available to satisfy any requirement.

DIN-T accessories include main switches, shunt and undervoltage trips, auxiliaries, LOCKDIN (lock dogs), contactors, pushbuttons, changeover switches, busbar combs, terminal covers and more.



DTC1611240D

Ith@40°C (A)	Contacts	Coil Voltage (V AC / V DC)	W (mm)	AC-7a @230V (A / kW)	AC-7b @230V (A / kW)	Item Type	Catalogue No.	\$AU
16	1 NO + 1 NC	240V AC / 240V DC	17.8	16A/3.7kW	6A / 0.9kW		DTC1611240D	81.00
16	2 NO	240V AC / 240V DC	17.8	16A/3.7kW	6A / 0.9kW		DTC1620240D	81.00
20	2 NC	240V AC / 240V DC	17.8	20A/4.6kW	9A / 1.3kW		DTC2002240D	92.00
20	1 NO + 1 NC	240V AC / 240V DC	17.8	20A/4.6kW	9A / 1.3kW		DTC2011240D	92.00
20	2 NO	24V AC / 24V DC	17.8	20A/4.6kW	9A / 1.3kW		DTC202024D	92.00
20	2 NO	240V AC / 240V DC	17.8	20A/4.6kW	9A / 1.3kW		DTC2020240D	92.00
25	4 NO	12V AC / 12V DC	36	25A/5.8kW	9A / 1.3kW		DTC254012D	119.00
25	4 NO	24V AC / 240V DC	36	25A/5.8kW	9A / 1.3kW		DTC254024D	119.00
25	4 NC	240V AC / 240V DC	36	25A/5.8kW	6A / 0.9kW		DTC2504240D	119.00
25	4 NO	240V AC / 240V DC	36	25A/5.8kW	9A / 1.3kW		DTC2540240D	119.00
40	4 NO	24V AC / 24V DC	54	40A/9.2kW	22A / 3.7kW		DTC404024D	195.00
40	4 NO	240V AC / 240V DC	54	40A/9.2kW	22A / 3.7kW		DTC4040240D	195.00
63	4 NO	24V AC / 24V DC	54	63A/14.5kW	30A / 5kW		DTC634024D	238.00
63	4 NO	240V AC / 240V DC	54	63A/14.5kW	30A / 5kW		DTC6340240D	238.00

DIN-T DTC..D Auxiliary



DTCSP9

Item Description	Item Type	Catalogue No.	\$AU
DIN Contactor Spacer 9mm (10pack)		DTCSP9	5.40
DIN Contactor Auxiliary 9mm 1NO 1NC		DTCAUX11	59.00
DIN Contactor Auxiliary 9mm 2NO		DTCAUX20	59.00

Easy Selection

TemBreak Pro is an extensive range with amp frame sizes from 160 AF to 3200 AF!

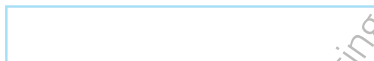
To simplify selection of TemBreak Pro MCCBs, please use the three colour coded label groups.

Colour coded labels to help identify a trip unit technology type and application fit



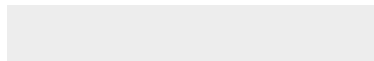
White label Thermal Magnetic

- Min 160 AF Max 800 AF
- Thermal Magnetic trip units
- Economical and space saving
- Light commercial range



Grey label Basic Electronic

- Min 160 AF Max 3200 AF
- Basic Electronic trip units
- Suits more complicated power reticulation
- Small hospitals / government buildings etc.



Blue label SMART Electronic

- Min 160 AF Max 1000 AF
- SMART Electronic trip units
- Suits applications requiring data
- Data centres / critical infrastructure



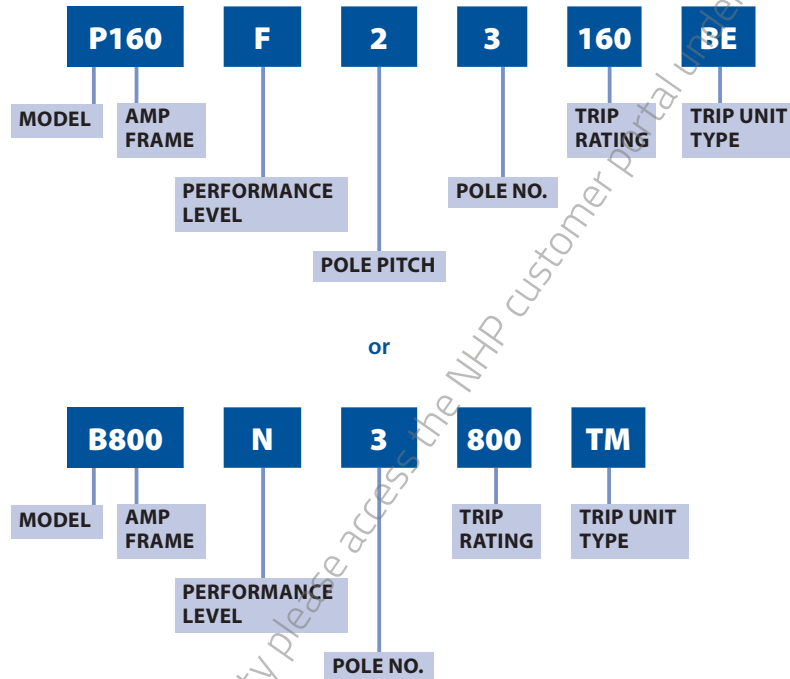
B1209D_dCHRT-S01

Pricing in this document is invalid – for pricing and availability please contact your NHP customer portal under 'My Account'

TemBreak Pro Catalogue Number Construction

The TemBreak Pro MCCB part number structure is made up of eight components that clearly define the specification for ease of ordering

Example part number



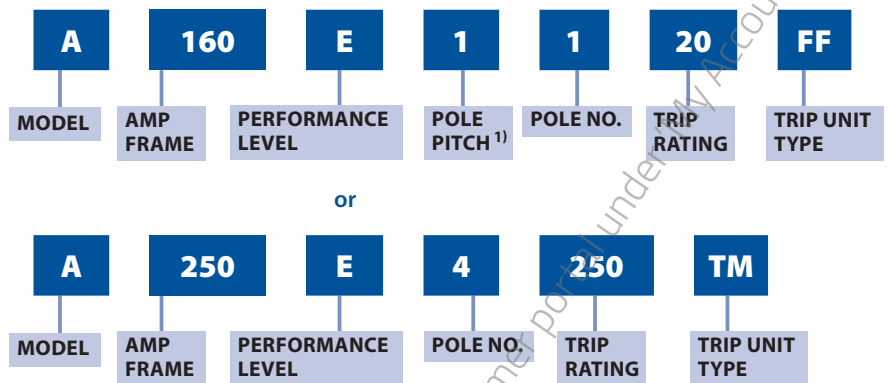
Model	The TemBreak Pro range consists of four model types: A, B, P and XS . The right model type is determined by the required performance characteristics.
Amp frame	The TemBreak Pro range has eleven amp rating frame types. They are: 160, 250, 400, 630, 800, 1000, 1250, 1600, 2000, 2500 and 3200. These models are spread across the 'white', 'grey' and 'blue' trip unit or frame size groups.
kA rating	The TemBreak Pro range has ten short circuit performance levels and a non-auto / switch option. They are: D (Switch), E (25 kA), F (36 kA), N (50 kA), M (65 kA), H (70 kA), HL (85 kA), G (100 kA), S (110 kA), P (125 kA) and R (200 kA).
Pole pitch	The pole pitch selection only applies to the 160 AF of A, P and B models. For 250 A models and above, this specification is not necessary. P/B160 models offers (1) 25 mm, (2) 30 mm or (3) 35 mm pole pitches. Pole pitch is important if fitting the MCCBs to a fixed chassis.

Number of poles	The TemBreak Pro range has four pole types. They are 1P, 2P, 3P and 4P. These models are spread across the range.
Trip rating	The TemBreak Pro range offers three broad trip unit ratings which vary depending on the trip unit technology and the MCCB frame size. Please refer to the main technical characteristics data table for a list of the available trip units.
Trip technology	Trip unit technologies are: Thermal Magnetic (TM), Basic Electronic (BE) and SMART Electronic (SE or SX). Within these three trip unit technologies, there are specification variations. Please refer to the main technical characteristics for more information.
Special options	The trip unit options selection only applies to B model types that have electronic trip units MCCBs. Please refer to the main technical characteristics data table for a list of the available trip unit options for further details.

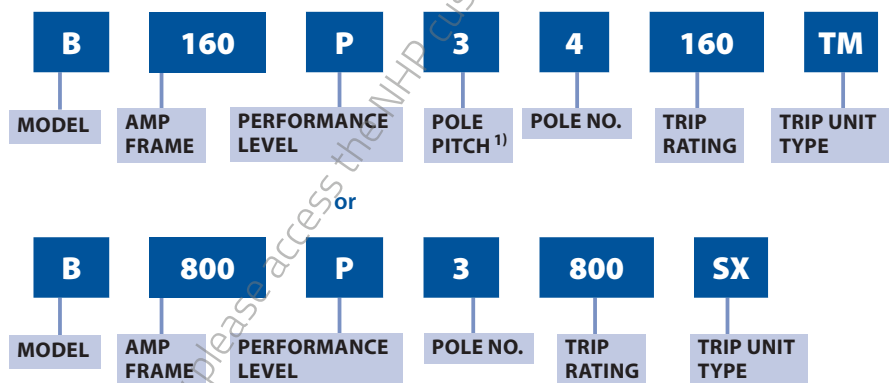
Note: Trip units are not supplied as separate components. MCCBs come with trip units installed and tested.

B1209D_dCHRT-S02

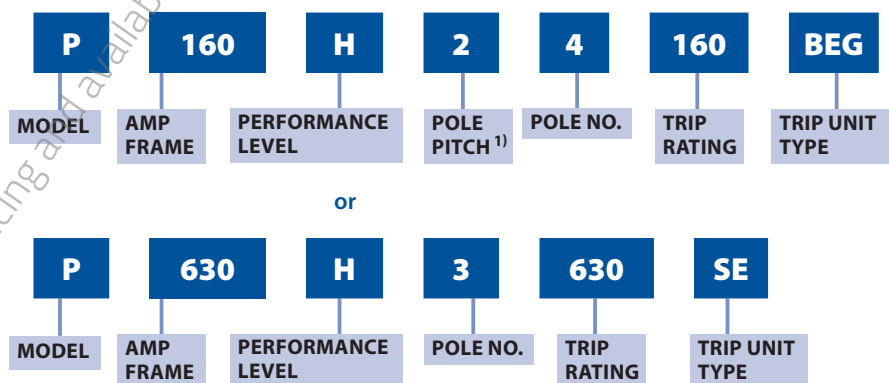
Example
part numbers –
A Model



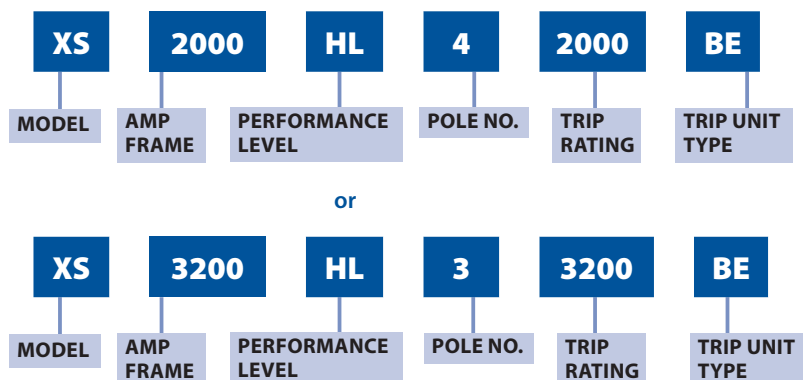
Example
part numbers –
B Model



Example
part numbers –
P Model



Example
part numbers –
B Model



Notes: 1) Pole pitch selection only applies to the 160 amp frame of A, P and B models.

- 1 (25 mm)
- 2 (30 mm)
- 3 (35 mm)

1 TemBreak Pro Selection

Ten performance levels to suit your application

E (25 kA)	HL (85 kA)
F (36 kA)	G (100 kA)
N (50 kA)	S (110 kA)
M (65 kA)	P (125 kA)
H (70 kA)	R (200 kA)





Non - Auto Option

D (Switch)

Four model types make up the complete range¹⁾

A	Model (basic applications 160-250 AF)
P	Model (mid to advanced applications 160-630 AF)
B	Model (high amps and kA ratings 160-1600 AF)
XS	Model (highest amp ratings 2000-3200 AF)

All I_{cu} kA figures shown are at 415 V AC, AF = Amp Frame size

		16 A	63 A	100 A	125 A	160 A	250 A	400 A	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
	XS model 2000-2500-3200 A Trip Units: BE, NN															
	Level HL-85 kA															
	B model 160-250-400, 800-1600 A 1P / 3P / 4P Trip Units: TM, BE, BEG, SE, SX, FF, NN	Level D – Switch														
		Level R – 200 kA														
		Level P – 125 kA														
		Level G – 100 kA														
		Level HL – 85 kA														
		Level H – 70 kA														
		Level N – 50 kA														
		Level F – 36 kA														
		Level E-25 kA-1P ²⁾														
		Level D – Switch														
	P model 160-250-400-630 A 3P / 4P Trip Units: TM, BE, BEG, SE, FF, NN	Level S – 110 kA														
		Level H – 70 kA														
		Level N – 50 kA														
		Level F – 36 kA														
		Level E – 25 kA														
		Level D – Switch														
		Level F – 36 kA														
	A model 125-160-250 A 1P / 3P / 4P Trip Units: TM, TF, FF, NN	Level E – 25 kA														
		Level E – 25 kA-1P ²⁾														
		Level D – Switch														
		Level F – 36 kA														

Notes: 1) This is the general TemBreak Pro range. Specialist MCCBs such as VS 1000 V AC MCCBs and DC MCCBs are also available.

2) 25 mm pole pitch for 'A model' and 35 mm pole pitch for 'B model'.

B1209D_dCHRT-S04

Moulded Case Circuit Breakers

TemBreak PRO Moulded Case Circuit Breaker

1

TemBreak PRO 160 AF	Page 55
TemBreak PRO 250 AF	Page 61
TemBreak PRO 400 AF	Page 66
TemBreak PRO 630 AF	Page 72
TemBreak PRO 800 AF	Page 77
TemBreak PRO 1000 AF	Page 82
TemBreak PRO 1250 AF	Page 84
TemBreak PRO 1600 AF	Page 85
TemBreak PRO 2000 AF	Page 86
TemBreak PRO 2500 AF	Page 87
TemBreak PRO 3200 AF	Page 88
TemBreak PRO Earth Leakage	Page 88
TemBreak PRO Accessories for 160 AF to 800 AF	Page 89
TemBreak PRO Accessories for 160AF to 1600AF	Page 94
TemBreak PRO Internal Accessories for 160AF to 1600AF	Page 97
TemBreak PRO External Accessories for 160AF to 1600AF	Page 98

TemBreak PRO (TBP) is a range of robust and reliable moulded-case circuit breakers and switch disconnectors that have been designed with extensive user-feedback from all sectors considered to deliver a superior product range.

The TBP MCCB range covers ampere frame sizes from 160A up to 3200A, with breaking capacities varying from 25kA – 200kA. Utilising a mixed blend of trip unit technologies including Thermal Magnetic (TM), Basic Electronic (BE) and 'SMART' Electronic (SE). Easily identified using name plate colour coding.



TemBreak PRO 160 AF

- General purpose power distribution, motor starting as well as energy metering and communications
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE Panel mount standard, with other mounting options
- 1, 2, 3 or 4 pole versions
- Suits XEP chassis, with panelboard options
- Fault ratings: 25, 36, 50, 70, 125 or 200 kA
- Trip unit options include thermal magnetic or electronic types

1 Pole

A Model 25kA FF

In (A@50°C)	Ir (A)	Ii (A)	Item Type	Catalogue No.	\$AU
16	16	600		A160-E1-1-16-FF	201.00
20	20	600		A160-E1-1-20-FF	201.00
25	25	600		A160-E1-1-25-FF	201.00
32	32	600		A160-E1-1-32-FF	201.00
40	40	600		A160-E1-1-40-FF	201.00
50	50	600		A160-E1-1-50-FF	201.00
63	63	1000		A160-E1-1-63-FF	201.00
80	80	1000		A160-E1-1-80-FF	250.00
100	100	1500		A160-E1-1-100-FF	250.00
125	125	1500		A160-E1-1-125-FF	285.00



A160-E1-1-20-FF

1



B160-E3-1-25-FF

B Model 25kA FF

In (A @50°C)	Ir (A)	Ii (A)	Item Type	Catalogue No.	\$AU
16	16	160		B160-E3-1-16-FF	307.00
19	20	200		B160-E3-1-20-FF	307.00
25	25	250		B160-E3-1-25-FF	307.00
32	32	320		B160-E3-1-32-FF	307.00
40	40	400		B160-E3-1-40-FF	307.00
50	50	500		B160-E3-1-50-FF	307.00
63	63	630		B160-E3-1-63-FF	307.00
80	80	800		B160-E3-1-80-FF	383.00
100	100	1000		B160-E3-1-100-FF	383.00
125	125	1250	I	B160-E3-1-125-FF	436.00
160	160	1600		B160-E3-1-160-FF	369.00

2 Pole

P Model 36kA FF



P160-F2-2-30-FF

In (A @50°C)	Ir (A)	Ii (A)	Item Type	Catalogue No.	\$AU
15	15	180	I	P160-F2-2-15-FF	635.00
20	20	240		P160-F2-2-20-FF	635.00
30	30	360	I	P160-F2-2-30-FF	635.00
40	40	480	I	P160-F2-2-40-FF	635.00
50	50	600	I	P160-F2-2-50-FF	635.00
60	60	720	I	P160-F2-2-60-FF	651.00
75	75	900	I	P160-F2-2-75-FF	651.00
100	100	1200	I	P160-F2-2-100-FF	662.00
125	125	1500	I	P160-F2-2-125-FF	662.00

3 Pole

A Model 25kA TF



A160-E1-3-25-TF

In (A@50°C)	Ir, Range (A)	Ii (A)	Item Type	Catalogue No.	\$AU
25	16A - 25A	600		A160-E1-3-25-TF	614.00
40	25A - 40A	600		A160-E1-3-40-TF	614.00
63	40A - 63A	1000		A160-E1-3-63-TF	614.00
80	50A - 80A	1000		A160-E1-3-80-TF	638.00
160	100A - 160A	1600		A160-E1-3-160-TF	809.00
125	80A - 125A	1500		A160-E1-3-125-TF	798.00
100	63A - 100A	1500		A160-E1-3-100-TF	786.00

A Model 36kA TF



A160-F1-3-25-TF

In (A@50°C)	Ir, Range (A)	Ii (A)	Item Type	Catalogue No.	\$AU
25	16A - 25A	600		A160-F1-3-25-TF	641.00
40	25A - 40A	600		A160-F1-3-40-TF	668.00
63	40A - 63A	1000		A160-F1-3-63-TF	668.00
80	50A - 80A	1000		A160-F1-3-80-TF	702.00
100	63A - 100A	1500		A160-F1-3-100-TF	842.00
125	80A - 125A	1500		A160-F1-3-125-TF	865.00
160	100A - 160A	1600		A160-F1-3-160-TF	876.00

P Model 36kA TM



P160-F2-3-32-TM

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	120A - 240A		P160-F2-3-20-TM	741.00
32	20A - 32A	192A - 384A		P160-F2-3-32-TM	741.00
50	32A - 50A	300A - 600A		P160-F2-3-50-TM	741.00
63	50A - 63A	378A - 756A		P160-F2-3-63-TM	951.00
100	63A - 100A	600A - 1200A		P160-F2-3-100-TM	999.00
125	80A - 125A	750A - 1500A		P160-F2-3-125-TM	999.00
160	100A - 160A	960A - 1600A		P160-F2-3-160-TM	1,044.00

P Model 36kA BE

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r		P160-F2-3-40-BE	1,836.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r		P160-F2-3-100-BE	2,084.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r		P160-F2-3-160-BE	2,084.00



P160-F2-3-40-BE

P Model 36kA BEG

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-F2-3-40-BEG	2,126.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-F2-3-100-BEG	2,422.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P160-F2-3-160-BEG	2,943.00



P160-F2-3-40-BEG

P Model 36kA SE

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-F2-3-40-SE	4,639.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-F2-3-100-SE	4,639.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r		P160-F2-3-160-SE	5,013.00



P160-F2-3-40-SE

P Model 50kA TM

In (A @50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	120A - 240A		P160-N2-3-20-TM	923.00
32	20A - 32A	192A - 384A		P160-N2-3-32-TM	951.00
50	32A - 50A	300A - 600A		P160-N2-3-50-TM	951.00
63	50A - 63A	378A - 756A		P160-N2-3-63-TM	1,085.00
100	63A - 100A	600A - 1200A		P160-N2-3-100-TM	1,239.00
125	80A - 125A	750A - 1500A		P160-N2-3-125-TM	1,273.00
160	100A - 160A	960A - 1600A		P160-N2-3-160-TM	1,333.00



P160-N2-3-20-TM

P Model 50kA BE

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r		P160-N2-3-40-BE	2,488.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r		P160-N2-3-100-BE	2,488.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r		P160-N2-3-160-BE	2,622.00



P160-N2-3-100-BE

P Model 50kA BEG

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-N2-3-40-BEG	2,551.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-N2-3-100-BEG	3,076.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P160-N2-3-160-BEG	3,434.00



P160-N2-3-40-BEG

P Model 50kA SE

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-N2-3-40-SE	5,162.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-N2-3-100-SE	5,162.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r		P160-N2-3-160-SE	5,686.00



P160-N2-3-40-SE

1



P160-H2-3-20-TM

P Model 70kA TM

In (A @50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	120A - 240A		P160-H2-3-20-TM	1,247.00
32	20A - 32A	192A - 384A		P160-H2-3-32-TM	1,283.00
50	32A - 50A	300A - 600A		P160-H2-3-50-TM	1,283.00
63	50A - 63A	378A - 756A		P160-H2-3-63-TM	1,466.00
100	63A - 100A	600A - 1200A		P160-H2-3-100-TM	1,672.00
125	80A - 125A	750A - 1500A		P160-H2-3-125-TM	1,982.00
160	100A - 160A	960A - 1600A		P160-H2-3-160-TM	1,720.00



P160-H2-3-40-BE

P Model 70kA BE

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r		P160-H2-3-40-BE	2,760.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r		P160-H2-3-100-BE	3,068.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r		P160-H2-3-160-BE	3,729.00



P160-H2-3-40-BEG

P Model 70kA BEG

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-H2-3-40-BEG	4,428.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-H2-3-100-BEG	5,125.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P160-H2-3-160-BEG	5,360.00



P160-H2-3-40-SE

P Model 70kA SE

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-H2-3-40-SE	5,911.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-H2-3-100-SE	5,911.00
160	64A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P160-H2-3-160-SE	6,539.00



B160-P3-3-32-TM

B Model 125kA TM

In (A @50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	120A - 240A		B160-P3-3-20-TM	1,796.00
32	20A - 32A	192A - 384A	I	B160-P3-3-32-TM	1,796.00
50	32A - 50A	300A - 600A		B160-P3-3-50-TM	1,796.00
63	40A - 63A	378A - 756A		B160-P3-3-63-TM	1,796.00
95	63A - 100A	600A - 1200A		B160-P3-3-100-TM	1,946.00
125	80A - 125A	750A - 1500A		B160-P3-3-125-TM	2,320.00
160	100A - 160A	960A - 2080A		B160-P3-3-160-TM	2,620.00



B160-R3-3-20-TM

B Model 200kA TM

In (A @50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	120A - 240A	I	B160-R3-3-20-TM	2,469.00
32	20A - 32A	192A - 384A	I	B160-R3-3-32-TM	2,469.00
50	32A - 50A	300A - 600A	I	B160-R3-3-50-TM	2,469.00
63	40A - 63A	378A - 756A	I	B160-R3-3-63-TM	2,469.00
95	63A - 100A	600A - 1200A	I	B160-R3-3-100-TM	2,693.00
125	80A - 125A	750A - 1500A	I	B160-R3-3-125-TM	3,068.00
160	160A - 160A	960A - 2080A	I	B160-R3-3-160-TM	3,442.00

A and P Model Non Auto

In (A @50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
160	Non-auto Switch Disconnecter		P160D23160NN	1,181.00



P160D23160NN

4 Pole

A Model 25kA TF

In (A @50°C)	Ir, Range (A)	Ii (A)	Item Type	Catalogue No.	\$AU
25	16A - 25A	600	I	A160-E1-4-25-TF	736.00
40	25A - 40A	600	I	A160-E1-4-40-TF	736.00
63	40A - 63A	1000	I	A160-E1-4-63-TF	790.00
80	50A - 80A	1000	I	A160-E1-4-80-TF	1,050.00
100	63A - 100A	1500	I	A160-E1-4-100-TF	1,194.00
125	80A - 125A	1500	I	A160-E1-4-125-TF	1,363.00
160	100A - 160A	1600	I	A160-E1-4-160-TF	1,499.00

A Model 36kA TF

In (A @50°C)	Ir, Range (A)	Ii (A)	Item Type	Catalogue No.	\$AU
25	16A - 25A	600	I	A160-F1-4-25-TF	821.00
40	25A - 40A	600	I	A160-F1-4-40-TF	821.00
63	40A - 63A	1000	I	A160-F1-4-63-TF	873.00
80	50A - 80A	1000	I	A160-F1-4-80-TF	1,194.00
100	63A - 100A	1500	I	A160-F1-4-100-TF	1,375.00
125	80A - 125A	1500	I	A160-F1-4-125-TF	1,553.00
160	100A - 160A	1600	I	A160-F1-4-160-TF	1,708.00

P Model 36kA TM

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	120A - 240A	I	P160-F2-4-20-TM	1,118.00
32	20A - 32A	192A - 384A	I	P160-F2-4-32-TM	1,118.00
50	32A - 50A	300A - 600A	I	P160-F2-4-50-TM	1,118.00
63	50A - 63A	378A - 756A	I	P160-F2-4-63-TM	1,441.00
100	63A - 100A	600A - 1200A	I	P160-F2-4-100-TM	1,573.00
125	80A - 125A	750A - 1500A	I	P160-F2-4-125-TM	1,833.00
160	100A - 160A	960A - 1600A	I	P160-F2-4-160-TM	1,917.00

P Model 36kA BE

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x In	1.5 - 10 x Ir	I	P160-F2-4-40-BE	2,747.00
100	40A - 100A	3 - 15 x In	1.5 - 10 x Ir	I	P160-F2-4-100-BE	2,747.00
160	63A - 160A	3 - 11 x In	1.5 - 10 x Ir	I	P160-F2-4-160-BE	2,865.00

P Model 36kA BEG

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x In	1.5 - 10 x Ir	I	P160-F2-4-40-BEG	2,943.00
100	40A - 100A	3 - 15 x In	1.5 - 10 x Ir	I	P160-F2-4-100-BEG	3,206.00
160	63A - 160A	3 - 11 x In	1.5 - 10 x Ir	I	P160-F2-4-160-BEG	3,866.00

P Model 36kA SE

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
100	40A - 100A	3 - 15 x In	1.5 - 10 x Ir	I	P160-F2-4-100-SE	5,911.00
160	64A - 160A	3 - 11 x In	1.5 - 10 x Ir	I	P160-F2-4-160-SE	6,732.00

1

P Model 50kA TM

In (A @50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	120A - 240A		P160-N2-4-20-TM	1,312.00
32	20A - 32A	192A - 384A		P160-N2-4-32-TM	1,312.00
50	32A - 50A	300A - 600A		P160-N2-4-50-TM	1,312.00
63	50A - 63A	378A - 756A		P160-N2-4-63-TM	1,396.00
100	63A - 100A	600A - 1200A		P160-N2-4-100-TM	1,595.00
125	80A - 125A	750A - 1500A		P160-N2-4-125-TM	1,641.00
160	100A - 160A	960A - 1600A		P160-N2-4-160-TM	1,716.00

P Model 50kA BE

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-N2-4-40-BE	3,302.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-N2-4-100-BE	3,302.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P160-N2-4-160-BE	3,481.00

P Model 50kA BEG

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-N2-4-40-BEG	3,434.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-N2-4-100-BEG	3,531.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P160-N2-4-160-BEG	3,942.00

P Model 50kA SE

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-N2-4-40-SE	6,883.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-N2-4-100-SE	6,883.00
160	64A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P160-N2-4-160-SE	7,406.00

P Model 70kA TM

In (A @50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	120A - 240A		P160-H2-4-20-TM	1,720.00
32	20A - 32A	192A - 384A		P160-H2-4-32-TM	1,766.00
50	32A - 50A	300A - 600A		P160-H2-4-50-TM	1,766.00
63	50A - 63A	378A - 756A		P160-H2-4-63-TM	2,013.00
100	63A - 100A	600A - 1200A		P160-H2-4-100-TM	2,301.00
125	80A - 125A	750A - 1500A		P160-H2-4-125-TM	2,728.00
160	100A - 160A	960A - 1600A		P160-H2-4-160-TM	2,098.00

P Model 70kA BE

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-H2-4-40-BE	3,729.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-H2-4-100-BE	4,156.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P160-H2-4-160-BE	4,428.00

P Model 70kA BEG

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-H2-4-40-BEG	5,360.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-H2-4-100-BEG	5,825.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P160-H2-4-160-BEG	6,091.00

P Model 70kA SE

In (A @50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-H2-4-40-SE	7,854.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P160-H2-4-100-SE	7,854.00
160	64A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P160-H2-4-160-SE	8,604.00

B Model 125kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	120A - 240A	I	B160-P3-4-20-TM	2,395.00
32	20A - 32A	192A - 384A	I	B160-P3-4-32-TM	2,395.00
50	32A - 50A	300A - 600A	I	B160-P3-4-50-TM	2,395.00
63	40A - 63A	378A - 756A	I	B160-P3-4-63-TM	2,395.00
95	63A - 100A	600A - 1200A	I	B160-P3-4-100-TM	2,918.00
125	80A - 125A	750A - 1500A	I	B160-P3-4-125-TM	3,142.00
160	100A - 160A	960A - 2080A	I	B160-P3-4-160-TM	4,116.00

B Model 200kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	120A - 240A	I	B160-R3-4-20-TM	3,293.00
32	20A - 32A	192A - 384A	I	B160-R3-4-32-TM	3,293.00
50	32A - 50A	300A - 600A	I	B160-R3-4-50-TM	3,293.00
63	40A - 63A	378A - 756A	I	B160-R3-4-63-TM	3,293.00
95	63A - 100A	600A - 1200A	I	B160-R3-4-100-TM	4,040.00
125	80A - 125A	750A - 1500A	I	B160-R3-4-125-TM	4,161.00
160	100A - 160A	960A - 2080A	I	B160-R3-4-160-TM	5,425.00

A and P Model Non Auto

In (A @50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
160	Non-auto Switch Disconnecter	I	A160D14160NN	967.00
160	Non-auto Switch Disconnecter		P160D24160NN	1,707.00

TemBreak PRO 250 AF

- General purpose power distribution, motor starting as well as energy metering and communications
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- 3 or 4 pole versions
- Suits XBP chassis, with panelboard options
- Fault ratings: 25, 36, 50, 70, 125 or 200 kA
- Trip unit options include thermal magnetic or electronic types

3 Pole

A Model 25kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
100	63A - 100A	500A - 1300A		A250-E-3-100-TM	1,169.00
125	80A - 125A	625A - 1625A		A250-E-3-125-TM	1,346.00
160	100A - 160A	800A - 2080A		A250-E-3-160-TM	1,381.00
200	125A - 200A	1000A - 2600A		A250-E-3-200-TM	1,403.00
250	158A - 250A	1250A - 2750A		A250-E-3-250-TM	1,448.00



A250-E-3-100-TM

A and P Model 36kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
50	32A - 50A	300A - 650A		P250-F-3-50-TM	1,115.00
63	40A - 63A	378A - 819A		P250-F-3-63-TM	1,239.00
100	63A - 100A	600A - 1300A		P250-F-3-100-TM	1,239.00
125	80A - 125A	750A - 1625A		P250-F-3-125-TM	1,492.00
160	100A - 160A	800A - 2080A		A250-F-3-160-TM	1,488.00
160	100A - 160A	960A - 2080A		P250-F-3-160-TM	1,821.00
200	125A - 200A	1000A - 2600A		A250-F-3-200-TM	1,510.00
200	125A - 200A	1200A - 2400A		P250-F-3-200-TM	1,918.00
250	160A - 250A	1250A - 2750A		A250-F-3-250-TM	1,510.00
250	160A - 250A	1500A - 2500A		P250-F-3-250-TM	2,035.00



P250-F-3-50-TM

1



P250-F-3-40-BE

P Model 36kA BE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r		P250-F-3-40-BE	2,125.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r		P250-F-3-100-BE	2,354.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r		P250-F-3-160-BE	2,441.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r		P250-F-3-250-BE	2,457.00



P250-F-3-40-BEG

P Model 36kA BEG

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-F-3-40-BEG	2,389.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-F-3-100-BEG	2,781.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-F-3-160-BEG	2,781.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-F-3-250-BEG	3,361.00



P250-F-3-40-SE

P Model 36kA SE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-F-3-40-SE	5,386.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-F-3-100-SE	5,386.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-F-3-160-SE	5,761.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-F-3-250-SE	6,210.00



P250-N-3-50-TM

P Model 50kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
50	32A - 50A	300A - 650A		P250-N-3-50-TM	1,205.00
63	40A - 63A	378A - 819A		P250-N-3-63-TM	1,317.00
100	63A - 100A	600A - 1300A		P250-N-3-100-TM	1,317.00
125	80A - 125A	750A - 1625A		P250-N-3-125-TM	1,539.00
160	100A - 160A	960A - 2080A	I	P250-N-3-160-TM	2,030.00
200	125A - 200A	1200A - 2400A	I	P250-N-3-200-TM	2,089.00
250	160A - 250A	1500A - 2500A		P250-N-3-250-TM	2,132.00



P250-N-3-40-BE

P Model 50kA BE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r		P250-N-3-40-BE	2,877.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r		P250-N-3-100-BE	2,877.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r		P250-N-3-160-BE	3,007.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r		P250-N-3-250-BE	3,127.00



P250-N-3-40-BEG

P Model 50kA BEG

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-N-3-40-BEG	3,076.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-N-3-100-BEG	3,076.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-N-3-160-BEG	3,654.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-N-3-250-BEG	3,775.00



P250-N-3-100-SE

P Model 50kA SE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-N-3-40-SE	5,799.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-N-3-100-SE	5,799.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-N-3-160-SE	6,210.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-N-3-250-SE	6,584.00

P Model 70kA TM

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
50	32A - 50A	300A - 650A		P250-H-3-50-TM	1,749.00
63	40A - 63A	378A - 819A		P250-H-3-63-TM	2,023.00
100	63A - 100A	600A - 1300A		P250-H-3-100-TM	2,023.00
125	80A - 125A	750A - 1625A		P250-H-3-125-TM	2,139.00
160	100A - 160A	960A - 2080A		P250-H-3-160-TM	2,681.00
200	125A - 200A	1200A - 2400A	I	P250-H-3-200-TM	2,759.00
250	160A - 250A	1500A - 2500A		P250-H-3-250-TM	2,815.00



P250-H-3-50-TM

P Model 70kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x In	1.5 - 10 x Ir		P250-H-3-40-BE	3,186.00
100	40A - 100A	3 - 15 x In	1.5 - 10 x Ir		P250-H-3-100-BE	3,654.00
160	63A - 160A	3 - 11 x In	1.5 - 10 x Ir		P250-H-3-160-BE	3,654.00
250	100A - 250A	3 - 11 x In	1.5 - 10 x Ir		P250-H-3-250-BE	4,660.00



P250-H-3-40-BE

P Model 70kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x In	1.5 - 10 x Ir	I	P250-H-3-40-BEG	3,636.00
100	40A - 100A	3 - 15 x In	1.5 - 10 x Ir	I	P250-H-3-100-BEG	4,309.00
160	63A - 160A	3 - 11 x In	1.5 - 10 x Ir	I	P250-H-3-160-BEG	4,164.00
250	100A - 250A	3 - 11 x In	1.5 - 10 x Ir	I	P250-H-3-250-BEG	5,311.00



P250-H-3-40-BEG

P Model 70kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x In	1.5 - 10 x Ir	I	P250-H-3-40-SE	7,108.00
100	40A - 100A	3 - 15 x In	1.5 - 10 x Ir	I	P250-H-3-100-SE	7,108.00
160	63A - 160A	3 - 11 x In	1.5 - 10 x Ir	I	P250-H-3-160-SE	8,230.00
250	100A - 250A	3 - 11 x In	1.5 - 10 x Ir	I	P250-H-3-250-SE	8,976.00



P250-H-3-100-SE

B Model 125kA TM

In (A@45°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
250	160A - 250A	1500A - 2500A		B250-P-3-250-TM	2,844.00



B250-P-3-250-TM

B Model 125kA BE

In (A@45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	14 - 13 x In	2.5 - 10 x Ir	I	B250P340BE	4,639.00
125	50A - 125A	14 - 13 x In	2.5 - 10 x Ir	I	B250P3125BE	4,639.00
250	100A - 250A	14 - 13 x In	2.5 - 10 x Ir		B250-P-3-250-BE	5,088.00



B250P340BE

B Model 125kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	14 - 13 x In	2.5 - 10 x Ir	I	B250P340SE	8,976.00
125	50A - 125A	14 - 13 x In	2.5 - 10 x Ir	I	B250P3125SE	8,976.00
250	100A - 250A	14 - 13 x In	2.5 - 10 x Ir	I	B250P3250SE	11,371.00



B250P3125SE

1



B250-R-3-250-TM

B Model 200kA TM

In (A@45°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
250	160A - 250A	1500A - 2500A	I	B250-R-3-250-TM	3,218.00



P250D3250NN

A and P Model Non Auto

In (A@50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
250	Non-auto Switch Disconnecter		A250D3250NN	1,135.00
250	Non-auto Switch Disconnecter		P250D3250NN	1,403.00

4 Pole

A Model 25kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
100	63A - 158A	500A - 1300A	I	A250-E-4-100-TM	1,669.00
125	80A - 160A	625A - 1625A	I	A250-E-4-125-TM	1,767.00
160	100A - 100A	800A - 2080A	I	A250-E-4-160-TM	1,957.00
200	125A - 200A	1000A - 2600A	I	A250-E-4-200-TM	2,096.00
250	158A - 250A	1250A - 2750A	I	A250-E-4-250-TM	1,899.00

A and P Model 36kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)		Item Type	Catalogue No.	\$AU
50	32A - 50A	300A - 650A	P	I	P250-F-4-50-TM	1,375.00
63	40A - 63A	378A - 819A	P	I	P250-F-4-63-TM	1,637.00
100	63A - 100A	600A - 1300A	P	I	P250-F-4-100-TM	1,637.00
125	80A - 125A	750A - 1625A	P	I	P250-F-4-125-TM	2,194.00
160	100A - 160A	800A - 2080A	A	I	A250-F-4-160-TM	1,997.00
160	100A - 160A	960A - 2080A	P	I	P250-F-4-160-TM	2,488.00
200	125A - 200A	1000A - 2600A	A	I	A250-F-4-200-TM	2,160.00
200	125A - 200A	1200A - 2400A	P	I	P250-F-4-200-TM	2,391.00
250	160A - 250A	1250A - 2750A	A	I	A250-F-4-250-TM	2,225.00
250	159A - 250A	1500A - 2500A	P	I	P250-F-4-250-TM	2,581.00

P Model 36kA BE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-F-4-40-BE	3,380.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-F-4-100-BE	3,380.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-F-4-160-BE	3,555.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-F-4-250-BE	3,666.00

P Model 36kA BEG

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-F-4-40-BEG	3,361.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-F-4-100-BEG	3,599.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-F-4-160-BEG	3,599.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-F-4-250-BEG	3,599.00

P Model 36kA SE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-F-4-40-SE	7,002.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-F-4-100-SE	7,002.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-F-4-160-SE	7,489.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-F-4-250-SE	8,072.00

P Model 50kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
50	32A - 50A	300A - 650A	I	P250-N-4-50-TM	1,587.00
63	40A - 63A	378A - 819A	I	P250-N-4-63-TM	1,886.00
100	63A - 100A	600A - 1300A	I	P250-N-4-100-TM	1,886.00
125	80A - 125A	750A - 1625A	I	P250-N-4-125-TM	2,518.00
160	100A - 160A	960A - 2080A	I	P250-N-4-160-TM	2,867.00
200	125A - 200A	1200A - 2400A	I	P250-N-4-200-TM	2,920.00
250	159A - 250A	1500A - 2500A		P250-N-4-250-TM	2,979.00

P Model 50kA BE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-N-4-40-BE	3,467.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-N-4-100-BE	3,467.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-N-4-160-BE	3,624.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-N-4-250-BE	3,769.00

P Model 50kA BEG

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-N-4-40-BEG	3,775.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-N-4-100-BEG	4,154.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-N-4-160-BEG	4,154.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-N-4-250-BEG	5,096.00

P Model 50kA SE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-N-4-40-SE	8,230.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-N-4-100-SE	8,230.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-N-4-160-SE	9,015.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-N-4-250-SE	10,098.00

P Model 70kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
50	32A - 50A	300A - 650A	I	P250-H-4-50-TM	2,277.00
63	40A - 63A	378A - 819A		P250-H-4-63-TM	2,875.00
100	63A - 100A	600A - 1300A		P250-H-4-100-TM	2,875.00
125	80A - 125A	750A - 1625A		P250-H-4-125-TM	3,263.00
160	100A - 160A	960A - 2080A	I	P250-H-4-160-TM	4,777.00
200	125A - 200A	1200A - 2400A	I	P250-H-4-200-TM	2,473.00
250	159A - 250A	1500A - 2500A		P250-H-4-250-TM	2,524.00

P Model 70kA BE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-H-4-40-BE	4,660.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r		P250-H-4-100-BE	5,373.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-H-4-160-BE	5,373.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r		P250-H-4-250-BE	3,636.00

P Model 70kA BEG

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-H-4-40-BEG	5,311.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-H-4-100-BEG	6,127.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-H-4-160-BEG	6,127.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-H-4-250-BEG	6,433.00

1

P Model 70kA SE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-H-4-40-SE	9,201.00
100	40A - 100A	3 - 15 x I _n	1.5 - 10 x I _r	I	P250-H-4-100-SE	9,201.00
160	63A - 160A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-H-4-160-SE	10,698.00
250	100A - 250A	3 - 11 x I _n	1.5 - 10 x I _r	I	P250-H-4-250-SE	11,669.00

P Model 125kA BE

In (A@45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	14 - 13 x I _n	2.5 - 10 x I _r	I	B250P440BE	6,031.00
125	50A - 125A	14 - 13 x I _n	2.5 - 10 x I _r	I	B250P4125BE	6,031.00
250	100A - 250A	14 - 13 x I _n	2.5 - 10 x I _r	I	B250-P-4-250-BE	6,620.00

P Model 125kA SE

In (A@45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
40	16A - 40A	14 - 13 x I _n	2.5 - 10 x I _r	I	B250P440SE	9,874.00
125	50A - 125A	14 - 13 x I _n	2.5 - 10 x I _r	I	B250P4125SE	9,874.00
250	100A - 250A	14 - 13 x I _n	2.5 - 10 x I _r	I	B250P4250SE	12,342.00

P Model 125kA TM

In (A@45°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
250	160A - 250A	1500A - 2500A	I	B250-P-4-250-TM	5,238.00

P Model 200kA TM

In (A@45°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
250	160A - 250A	1500A - 2500A	I	B250R4250TM	6,059.00

P Model Non Auto

In (A@50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
250	Non-auto Switch Disconnecter	I	P250D4250NN	2,188.00

TemBreak PRO 400 AF

- General purpose power distribution, motor starting as well as energy metering and communications
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- 3 or 4 pole versions
- Suits XCP chassis, with panelboard options
- Fault ratings; 25, 30, 50, 70, 110, 125 or 200 kA
- Trip unit options include Thermal magnetic or electronic types

3 Pole

P Model 25kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
250	157A - 250A	1250A - 2000A	I	P400-E-3-250-TM	2,763.00
400	252A - 400A	2000A - 4000A		P400-E-3-400-TM	2,763.00



P400-E-3-400-TM

P Model 36kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
250	157A - 250A	1250A - 2500A		P400-F-3-250-TM	2,904.00
400	252A - 400A	2000A - 4000A		P400-F-3-400-TM	2,904.00



P400-F-3-400-TM

P Model 36kA BE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r		P400-F-3-250-BE	3,310.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r		P400-F-3-400-BE	3,535.00



P400-F-3-250-BE

P Model 36kA BEG

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-F-3-250-BEG	4,252.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-F-3-400-BEG	4,364.00



P400-F-3-250-BEG

P Model 36kA SE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-F-3-250-SE	7,854.00
400	250A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-F-3-400-SE	7,854.00



P400-F-3-400-SE

P Model 50kA TM

In (A@50°C)	I _r Range (A)	I _i Range (A)	Item Type	Catalogue No.	\$AU
250	157A - 250A	1250A - 2500A		P400-N-3-250-TM	3,479.00
400	252A - 400A	2000A - 4000A		P400-N-3-400-TM	3,647.00



P400-N-3-250-TM

P Model 50kA BE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r		P400-N-3-250-BE	3,842.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r		P400-N-3-400-BE	3,908.00



P400-N-3-250-BE

P Model 50kA BEG

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-N-3-250-BEG	5,250.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-N-3-400-BEG	5,362.00



P400-N-3-250-BEG

P Model 50kA SE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-N-3-250-SE	8,604.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r		P400-N-3-400-SE	8,604.00



P400-N-3-400-SE

1



P400-H-3-250-TM

P Model 70kA TM

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	Item Type	Catalogue No.	\$AU
250	157A - 250A	1250A - 2500A		P400-H-3-250-TM	3,968.00
400	252A - 400A	2000A - 4000A		P400-H-3-400-TM	4,769.00



P400-H-3-250-BE

P Model 70kA BE

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r		P400-H-3-250-BE	4,528.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r		P400-H-3-400-BE	4,640.00



P400-H-3-250-BEG

P Model 70kA BEG

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-H-3-250-BEG	5,749.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r		P400-H-3-400-BEG	5,861.00



P400-H-3-400-SE

P Model 70kA SE

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-H-3-250-SE	12,118.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-H-3-400-SE	12,118.00



P400-S-3-400-TM

P Model 110kA TM

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	Item Type	Catalogue No.	\$AU
250	252A - 400A	2000A - 4000A	I	P400-S-3-250-TM	4,116.00
400	157A - 250A	1250A - 2500A	I	P400-S-3-400-TM	4,116.00



P400-S-3-250-BE

P Model 110kA BE

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-S-3-250-BE	5,162.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r		P400-S-3-400-BE	5,162.00



P400-S-3-400-BEG

P Model 110kA BEG

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-S-3-250-BEG	6,360.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-S-3-400-BEG	6,360.00

P Model 110kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-S-3-250-SE	15,336.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-S-3-400-SE	15,336.00



P400-S-3-400-SE

B Model 125kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	2.5 - 10 x I _r	I	B400-P-3-250-BE	6,508.00
400	160A - 400A	3 - 12 x I _n	2.5 - 10 x I _r	I	B400-P-3-400-BE	6,508.00



B400-P-3-400-BE

B Model 125kA SE

In (A@50°C)	Ir, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	2.5 - 10 x I _r	I	B400P3250SE	15,336.00
400	160A - 400A	2.5 - 10 x I _r	I	B400P3400SE	15,336.00



B400P3400SE

B Model 125kA SX

In (A@50°C)	Ir, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	2.5 - 10 x I _r	I	B400P3250SX	10,848.00
400	160A - 400A	2.5 - 10 x I _r	I	B400P3400SX	10,848.00



B400P3250SX

B Model 200kA BEG

In (A@50°C)	Ir, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	2.5 - 10 x I _r	I	B400-R-3-250-BE	7,108.00
400	160A - 400A	2.5 - 10 x I _r	I	B400-R-3-400-BE	7,108.00



B400-R-3-250-BE

B Model 200kA SE

In (A@50°C)	Ir, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	2.5 - 10 x I _r	I	B400R3250SE	17,804.00
400	160A - 400A	2.5 - 10 x I _r	I	B400R3400SE	17,804.00



B400R3400SE

B Model 200kA SX

In (A@50°C)	Ir, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	2.5 - 10 x I _r	I	B400R3250SX	12,118.00
400	160A - 400A	2.5 - 10 x I _r	I	B400R3400SX	12,118.00



B400R3400SX

1



P400D3400NN

P Model Non Auto

In (A@50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
400	Non-auto Switch Disconnecter		P400D3400NN	2,550.00

4 Pole

P Model 25kA TM

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
250	157A - 250A	1250A - 2500A	I	P400-E-4-250-TM	3,912.00
400	252A - 400A	2000A - 4000A	I	P400-E-4-400-TM	3,912.00

P Model 36kA TM

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
250	157A - 250A	1250A - 2500A	I	P400-F-4-250-TM	4,442.00
400	252A - 400A	2000A - 4000A	I	P400-F-4-400-TM	4,442.00

P Model 36kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-F-4-250-BE	4,000.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-F-4-400-BE	4,224.00

P Model 36kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-F-4-250-BEG	5,157.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-F-4-400-BEG	5,269.00

P Model 36kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-F-4-250-SE	9,726.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-F-4-400-SE	9,726.00

P Model 50kA TM

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
250	157A - 250A	1250A - 2500A	I	P400-N-4-250-TM	4,440.00
400	252A - 400A	2000A - 4000A	I	P400-N-4-400-TM	5,458.00

P Model 50kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-N-4-250-BE	4,758.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-N-4-400-BE	5,009.00

P Model 50kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-N-4-250-BEG	6,207.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-N-4-400-BEG	6,319.00

P Model 50kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-N-4-250-SE	10,623.00
400	160A - 400A	3 - 12 x I _n	1.5 - 10 x I _r	I	P400-N-4-400-SE	10,623.00

P Model 70kA TM

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
250	157A - 250A	1250A - 2500A	I	P400-H-4-250-TM	5,035.00
400	252A - 400A	2000A - 4000A	I	P400-H-4-400-TM	5,899.00

P Model 70kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Isd, Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x In	1.5 - 10 x Ir	I	P400-H-4-250-BE	4,383.00
400	160A - 400A	3 - 12 x In	1.5 - 10 x Ir	I	P400-H-4-400-BE	4,513.00

P Model 70kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Isd, Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x In	1.5 - 10 x Ir	I	P400-H-4-250-BEG	6,873.00
400	160A - 400A	3 - 12 x In	1.5 - 10 x Ir	I	P400-H-4-400-BEG	6,985.00

P Model 70kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Isd, Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x In	1.5 - 10 x Ir	I	P400-H-4-250-SE	14,586.00
400	160A - 400A	3 - 12 x In	1.5 - 10 x Ir	I	P400-H-4-400-SE	14,586.00

P Model 110kA TM

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
250	157A - 250A	1250A - 2500A	I	P400-S-4-250-TM	5,162.00
400	252A - 400A	2000A - 4000A	I	P400-S-4-400-TM	5,162.00

P Model 110kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Isd, Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x In	1.5 - 10 x Ir	I	P400-S-4-250-BE	6,732.00
400	160A - 400A	3 - 12 x In	1.5 - 10 x Ir	I	P400-S-4-400-BE	6,732.00

P Model 110kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Isd, Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x In	1.5 - 10 x Ir	I	P400-S-4-250-BEG	8,976.00
400	160A - 400A	3 - 12 x In	1.5 - 10 x Ir	I	P400-S-4-400-BEG	8,976.00

P Model 110kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Isd, Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 12 x In	1.5 - 10 x Ir	I	P400-S-4-250-SE	17,206.00
400	160A - 400A	3 - 12 x In	1.5 - 10 x Ir	I	P400-S-4-400-SE	17,206.00

B Model 125kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Isd, Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 11 x In	2.5 - 10 x Ir	I	B400-P-4-250-BE	8,230.00
400	160A - 400A	3 - 11 x In	2.5 - 10 x Ir	I	B400-P-4-400-BE	8,230.00

B Model 125kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	Isd, Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 11 x In	2.5 - 10 x Ir	I	B400P4250SE	19,450.00
400	160A - 400A	3 - 11 x In	2.5 - 10 x Ir	I	B400P4400SE	19,450.00

1

B Model 125kA SX

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 11 x I _n	2.5 - 10 x I _r	I	B400P4250SX	13,092.00
400	160A - 400A	3 - 11 x I _n	2.5 - 10 x I _r	I	B400P4400SX	13,092.00

B Model 200kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 11 x I _n	2.5 - 10 x I _r	I	B400-R-4-250-BE	8,976.00
400	160A - 400A	3 - 11 x I _n	2.5 - 10 x I _r	I	B400-R-4-400-BE	8,976.00

B Model 200kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 11 x I _n	2.5 - 10 x I _r	I	B400R4250SE	22,068.00
400	160A - 400A	3 - 11 x I _n	2.5 - 10 x I _r	I	B400R4400SE	22,068.00

B Model 200kA SX

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
250	100A - 250A	3 - 11 x I _n	2.5 - 10 x I _r	I	B400R4250SX	14,586.00
400	160A - 400A	3 - 11 x I _n	2.5 - 10 x I _r	I	B400R4400SX	14,586.00

P Model Non Auto

In (A@50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
400	Non-auto Switch Disconnector	I	P400D4400NN	3,679.00

TemBreak PRO 630 AF

- General purpose power distribution, motor starting as well as energy metering and communications
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- 3 or 4 pole versions
- Fault ratings; 25, 36, 50, 70 or 110 kA
- Trip unit options include Thermal magnetic or electronic types

3 Pole

P Model 25kA TM

In (A@30°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	2520A - 5040A		P630-E-3-630-TM	3,612.00



P630-E-3-630-TM

P Model 36kA TM

In (A@30°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	2520A - 5040A		P630-F-3-630-TM	3,773.00



P630-F-3-630-TM

P Model 36kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r		P630-F-3-630-BE	4,440.00



P630-F-3-630-BE

P Model 36kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-F-3-630-BEG	6,863.00



P630-F-3-630-BEG

P Model 36kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-F-3-630-SE	9,277.00



P630-F-3-630-SE

P Model 50kA TM

In (A@30°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	2520A - 5040A		P630-N-3-630-TM	3,894.00



P630-N-3-630-TM

P Model 50kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r		P630-N-3-630-BE	5,445.00



P630-N-3-630-BE

P Model 50kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-N-3-630-BEG	7,193.00



P630-N-3-630-BEG

P Model 50kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r		P630-N-3-630-SE	10,668.00



P630-N-3-630-SE

1



P630-H3-3-630-TM

P Model 70kA TM

In (A@30°C)	I _r , Range (A)	I _i , Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	2520A - 5040A	I	P630-H3-3-630-TM	4,394.00



P630-H-3-630-BE

P Model 70kA BE

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-H-3-630-BE	5,876.00



P630-H-3-630-BEG

P Model 70kA BEG

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-H-3-630-BEG	8,105.00



P630-H-3-630-SE

P Model 70kA SE

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-H-3-630-SE	13,840.00



P630-S-3-630-TM

P Model 110kA TM

In (A@30°C)	I _r , Range (A)	I _i , Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	2520A - 5040A	I	P630-S-3-630-TM	5,873.00



P630-S-3-630-BE

P Model 110kA BE

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-S-3-630-BE	7,108.00



P630-S-3-630-BEG

P Model 110kA BEG

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-S-3-630-BEG	7,854.00

P Model 110kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-S-3-630-SE	15,223.00



P630-S-3-630-SE

P Model Non Auto

In (A@50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
630	Non-auto Switch Disconnecter		P630D3630NN	3,399.00



P630D3630NN

4 Pole

P Model 25kA TM

In (A@30°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	2520A - 5040A	I	P630-E-4-630-TM	4,426.00

P Model 36kA TM

In (A@30°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	2520A - 5040A	I	P630-F-4-630-TM	4,663.00

P Model 36kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-F-4-630-BE	6,212.00

P Model 36kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-F-4-630-BEG	7,647.00

P Model 36kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-F-4-630-SE	11,371.00

P Model 50kA TM

In (A@30°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	2520A - 5040A	I	P630-N-4-630-TM	4,531.00

P Model 50kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r		P630-N-4-630-BE	6,450.00

P Model 50kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-N-4-630-BEG	7,979.00

1

P Model 50kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-N-4-630-SE	13,077.00

P Model 70kA TM

In (A@30°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	2520A - 5040A	I	P630-H-4-630-TM	5,123.00

P Model 70kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-H-4-630-BE	6,962.00

P Model 70kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-H-4-630-BEG	9,253.00

P Model 70kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-H-4-630-SE	18,328.00

P Model 110kA TM

In (A@30°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	2520A - 5040A	I	P630-S-4-630-TM	7,854.00

P Model 110kA BE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-S-4-630-BE	10,098.00

P Model 110kA BEG

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-S-4-630-BEG	11,108.00

P Model 110kA SE

In (A@50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	250A - 630A	3 - 11 x I _n	1.5 - 10 x I _r	I	P630-S-4-630-SE	21,076.00

P Model Non Auto

In (A@50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
630	Non-auto Switch Disconnecter	I	P630D4630NN	4,682.00

TemBreak PRO 800 AF

- General purpose power distribution, motor starting as well as energy metering and communications
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- 3 or 4 pole versions
- Fault ratings: 36, 50, 70, 100, 125 or 200 kA
- Trip unit options include Thermal magnetic or electronic types

3 Pole

B Model 36kA TM

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	3150A - 6300A		B800-F-3-630-TM	5,876.00
800	504A - 800A	4000A - 8000A		B800-F-3-800-TM	6,025.00



B800-F-3-630-TM

B Model 50kA TM

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	3150A - 6300A		B800-N-3-630-TM	6,717.00
800	504A - 800A	4000A - 8000A		B800-N-3-800-TM	6,829.00



B800-N-3-630-TM

B Model 50kA BE

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x In	2.5 - 10 x Ir		B800-N-3-630-BE	6,382.00
800	320A - 800A	14 - 12 x In	2.5 - 10 x Ir		B800-N-3-800-BE	7,248.00



B800-N-3-630-BE

B Model 50kA SE

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	14 - 12 x In	2.5 - 10 x Ir	I	B800-N-3-800-SE	15,336.00



B800-N-3-800-SE

B Model 50kA SX

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	14 - 10 x In	2.5 - 10 x Ir	I	B800-N-3-800-SX	9,726.00



B800-N-3-800-SX

B Model 70kA TM

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	3150A - 6300A	I	B800-H-3-630-TM	9,253.00
800	504A - 800A	4000A - 8000A	I	B800-H-3-800-TM	9,477.00



B800-H-3-630-TM

1



B800-H-3-630-BE

B Model 70kA BE

In (A @50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x I _n	2.5 - 10 x I _r		B800-H-3-630-BE	6,863.00
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r		B800-H-3-800-BE	9,150.00



B800H3630BEG

B Model 70kA BEG

In (A @50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800H3630BEG	11,968.00
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r		B800H3800BEG	12,361.00



B800-H-3-800-SE

B Model 70kA SE

In (A @50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-H-3-800-SE	17,206.00



B800-H-3-800-SX

B Model 70kA SX

In (A @50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r		B800-H-3-800-SX	10,848.00



B800-G-3-630-TM

B Model 100kA TM

In (A @45°C)	I _r , Range (A)	I _i , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	2520A - 5040A	I	B800-G-3-630-TM	8,800.00
800	320A - 800A	3200A - 6400A	I	B800-G-3-800-TM	8,976.00



B800-G-3-630-BE

B Model 100kA BE

In (A @45°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-G-3-630-BE	10,120.00
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-G-3-800-BE	10,732.00



B800-G-3-800-SE

B Model 100kA SE

In (A @45°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-G-3-800-SE	22,942.00

B Model 100kA SX

In (A@45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-G-3-800-SX	14,401.00



B800-G-3-800-SX

B Model 125kA BE

In (A@45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-P-3-630-BE	10,098.00
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-P-3-800-BE	10,098.00



B800-P-3-800-BE

B Model 125kA BEG

In (A@45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800P3630BEG	11,371.00
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800P3800BEG	11,371.00



B800P3800BEG

B Model 125kA SE

In (A@45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-P-3-800-SE	22,068.00



B800-P-3-800-SE

B Model 125kA SX

In (A@45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800P3630SX	13,840.00
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-P-3-800-SX	14,214.00



B800P3630SX

B Model 200kA BE

In (A@45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800R3630BE	11,596.00
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-R-3-800-BE	11,596.00



B800-R-3-800-BE

B Model 200kA SE

In (A@45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-R-3-800-SE	27,024.00



B800-R-3-800-SE

1



B800-R-3-800-SX



B800D3800NN

B Model 200kA SX

In (A @ 45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-R-3-800-SX	18,810.00

B Model Non Auto

In (A @ 50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
800	Non-auto Switch Disconnect		B800D3800NN	6,549.00

4 Pole

B Model 36kA TM

In (A @ 50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
800	504A - 800A	4000A - 8000A	I	B800-F-4-800-TM	6,690.00

B Model 50kA TM

In (A @ 50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	3150A - 6300A	I	B800-N-4-630-TM	8,824.00
800	504A - 800A	4000A - 8000A		B800-N-4-800-TM	8,992.00

B Model 50kA BE

In (A @ 50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-N-4-630-BE	9,938.00
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r		B800-N-4-800-BE	10,347.00

B Model 50kA SE

In (A @ 50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	3 - 11 x I _n	1.5 - 10 x I _r	I	B800-N-4-800-SE	18,328.00

B Model 50kA SX

In (A @ 50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	3 - 11 x I _n	1.5 - 10 x I _r	I	B800-N-4-800-SX	12,718.00

B Model 70kA TM

In (A @ 50°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	396A - 630A	3150A - 6300A	I	B800-H-4-630-TM	12,214.00
800	504A - 800A	4000A - 8000A	I	B800-H-4-800-TM	12,494.00

B Model 70kA BE

In (A @ 50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-H-4-630-BE	11,205.00
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800-H-4-800-BE	11,486.00

B Model 70kA BEG

In (A @ 50°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800H4630BEG	14,362.00
800	320A - 800A	14 - 12 x I _n	2.5 - 10 x I _r	I	B800H4800BEG	14,834.00

B Model 70kA SE

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	Isc, Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	3 - 11 x In	1.5 - 10 x Ir	I	B800-H-4-800-SE	20,572.00

B Model 70kA SX

In (A @50°C)	Ir, Range (A)	Ii, Range (A)	Isc, Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	3 - 11 x In	1.5 - 10 x Ir	I	B800-H-4-800-SX	13,989.00

B Model 100kA TM

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	2520A - 5040A	I	B800-G-4-630-TM	11,886.00
800	320A - 800A	3200A - 6400A	I	B800-G-4-800-TM	13,840.00

B Model 100kA BE

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	Isc, Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	3 - 11 x In	1.5 - 10 x Ir	I	B800-G-4-630-BE	13,836.00
800	320A - 800A	3 - 11 x In	1.5 - 10 x Ir	I	B800-G-4-800-BE	13,836.00

B Model 100kA SE

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	Isc, Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	3 - 11 x In	1.5 - 10 x Ir	I	B800-G-4-800-SE	23,935.00

B Model 100kA SX

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	Isc, Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	3 - 11 x In	1.5 - 10 x Ir	I	B800-G-4-800-SX	16,495.00

B Model 125kA BE

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	Isc, Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	3 - 11 x In	2.5 - 10 x Ir	I	B800-P-4-630-BE	14,586.00
800	320A - 800A	3 - 11 x In	2.5 - 10 x Ir	I	B800-P-4-800-BE	14,586.00

B Model 125kA BEG

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	Isc, Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	3 - 11 x In	2.5 - 10 x Ir	I	B800P4630BEG	16,045.00
800	320A - 800A	3 - 11 x In	2.5 - 10 x Ir	I	B800P4800BEG	16,045.00

B Model 125kA SE

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	Isc, Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	3 - 11 x In	1.5 - 10 x Ir	I	B800-P-4-800-SE	25,060.00

B Model 125kA SX

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	Isc, Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	3 - 11 x In	1.5 - 10 x Ir	I	B800P4630SX	18,328.00
800	320A - 800A	3 - 11 x In	1.5 - 10 x Ir	I	B800-P-4-800-SX	18,702.00

B Model 200kA BE

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	Isc, Range (A)	Item Type	Catalogue No.	\$AU
630	252A - 630A	3 - 11 x In	2.5 - 10 x Ir	I	B800R4630BE	16,084.00
800	320A - 800A	3 - 11 x In	2.5 - 10 x Ir	I	B800-R-4-800-BE	16,084.00

1

B Model 200kA SX

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
800	320A - 800A	3 - 11 x I _n	1.5 - 10 x I _r	I	B800-R-4-800-SX	28,416.00

B Model Non Auto

In (A @50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
800	Non-auto Switch Disconnector		B800D4800NN	7,332.00

TemBreak PRO 1000 AF

- General purpose power distribution, motor starting as well as energy metering and communications
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- 3 or 4 pole versions
- Fault ratings: 50 or 70 kA
- Electronic type trip units

3 Pole

B Model 50kA BE

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r		B1000-N-3-1000-BE	10,507.00



B1000-N-3-1000-BE

B Model 50kA SE

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r	I	B1000-N-3-1000-SE	21,381.00



B1000-N-3-1000-SE

B Model 50kA SX

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r	I	B1000-N-3-1000-SX	13,855.00



B1000-N-3-1000-SX

B Model 70kA BE

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r		B1000-H-3-1000-BE	11,236.00



B1000-H-3-1000-BE

B Model 70kA SE

In (A @45°C)	Ir, Range (A)	Ii, Range (A)	I _{sd} , Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r	I	B1000-H-3-1000-SE	20,845.00



B1000-H-3-1000-SE

B Model 70kA SX

In (A @45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r	I	B1000-H-3-1000-SX	13,945.00



B Model Non Auto

In (A @45°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
1000	Non-auto Switch Disconnect	I	B1000D31000NN	9,477.00



4 Pole

B Model 50kA BE

In (A @45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r	I	B1000-N-4-1000-BE	13,658.00

B Model 50kA SE

In (A @45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r	I	B1000-N-4-1000-SE	23,470.00

B Model 50kA SX

In (A @45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r	I	B1000-N-4-1000-SX	16,250.00

B Model 70kA BE

In (A @45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r	I	B1000-H-4-1000-BE	15,168.00

B Model 70kA SE

In (A @45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r	I	B1000-H-4-1000-SE	23,720.00

B Model 70kA SX

In (A @45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
1000	400A - 1000A	14 - 10 x I _n	2.5 - 8 x I _r	I	B1000-H-4-1000-SX	15,339.00

B Model Non Auto

In (A @45°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
1000	Non-auto Switch Disconnect	I	B1000D41000NN	10,785.00

1

TemBreak PRO 1250 AF

- General purpose power distribution and motor starting
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- 3 or 4 pole versions
- Fault ratings: 50, 70 or 85 kA
- Electronic type trip unit

3 Pole**B Model 50kA BE****B1250-N-3-1250-BE**

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection		B1250-N-3-1250-BE	15,570.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1250N31250BERC	18,807.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1250N31250BECI	14,643.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1250N31250BERCCI	20,016.00

B Model 70kA BE**B1250-H-3-1250-BE**

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	I	B1250-H-3-1250-BE	16,220.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1250H31250BERC	19,032.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1250H31250BECI	17,275.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1250H31250BERCCI	20,088.00

B Model 85kA BE**B1250-HL-3-1250-BE**

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection		B1250-HL-3-1250-BE	17,187.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1250HL31250BERC	20,828.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1250HL31250BECI	18,583.00

B Model Non Auto

In (A@50°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
1250	Non-auto Switch Disconnecter		B1250D31250NN	13,869.00
1250	Non-auto Switch Disconnecter	A	B1250D31250NNRC	17,129.00
1250	Non-auto Switch Disconnecter	A	B1250D31250NNCI	15,078.00
1250	Non-auto Switch Disconnecter	A	B1250D31250NNRCCI	18,337.00

4 Pole**B Model 50kA BE**

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection		B1250-N-4-1250-BE	20,240.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1250N41250BERC	24,383.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1250N41250BECI	21,655.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1250N41250BERCCI	24,668.00

B Model 70kA BE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	I	B1250-H-4-1250-BE	20,754.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1250H41250BERC	24,358.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1250H41250BECI	21,809.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1250H41250BERCCI	24,606.00

B Model 85kA BE

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	I	B1250-HL-4-1250-BE	21,592.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1250HL41250BERC	26,264.00
1250	500A - 1250A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1250HL41250BECI	22,987.00

B Model Non Auto

In (A@50°C)	Trip Unit Protection Type	Standard Installation Method	Item Type	Catalogue No.	\$AU
1250	Non-auto Switch Disconnecter	Front Connection	I	B1250D41250NN	16,642.00
1250	Non-auto Switch Disconnecter	Rear Connection	A	B1250D41250NNRC	20,801.00
1250	Non-auto Switch Disconnecter	Front Connection	A	B1250D41250NNCCI	17,851.00
1250	Non-auto Switch Disconnecter	Rear Connection	A	B1250D41250NNRCCI	21,086.00

TemBreak PRO 1600 AF

- General purpose power distribution and motor starting
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- 3 or 4 pole versions
- Fault ratings: 50, 70 or 85 kA
- Electronic type trip unit

3 Pole

B Model 50kA BE

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection		B1600-N-3-1600-BE	18,216.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600N31600BERC	22,165.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1600N31600BECI	19,749.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600N31600BERCCI	23,374.00



B1600-N-3-1600-BE

B Model 50kA BEG

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600N31600BEGRC	31,426.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1600N31600BEGCI	28,534.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600N31600BEGRCCI	32,635.00



B1600N31600BEGCI

B Model 85kA BE

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection		B1600-HL-3-1600-BE	19,599.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600HL31600BERC	23,509.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1600HL31600BECI	24,024.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600HL31600BERCCI	24,717.00



B1600-HL-3-1600-BE

B Model 85kA BEG

In (A@50°C)	I _r , Range (A)	I _i , Range (A)	I _{sd} , Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	I	B1600HL31600BEG	21,318.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600HL31600BEGRC	25,238.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1600HL31600BEGCI	22,527.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600HL31600BEGRCCI	26,447.00



B1600HL31600BEG

1

B Model Non Auto

In (A@50°C)	Trip Unit Protection Type	Standard Installation Method	Item Type	Catalogue No.	\$AU
1600	Non-auto Switch Disconnecter	Front Connection	I	B1600D31600NN	17,594.00
1600	Non-auto Switch Disconnecter	Rear Connection	A	B1600D31600NNRC	21,531.00
1600	Non-auto Switch Disconnecter	Front Connection	A	B1600D31600NNCI	18,803.00
1600	Non-auto Switch Disconnecter	Rear Connection	A	B1600D31600NNRCCI	22,740.00

4 Pole

B Model 50kA BE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	I	B1600-N-4-1600-BE	25,503.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600N41600BERC	30,661.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1600N41600BECI	26,712.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600N41600BERCCI	30,677.00

B Model 50kA BEG

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1600N41600BEGRC	42,191.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600N41600BEGCI	38,097.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1600N41600BEGRCCI	42,207.00

B Model 85kA BE

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	I	B1600-HL-4-1600-BE	26,556.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600HL41600BERC	31,669.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1600HL41600BECI	27,764.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600HL41600BERCCI	31,686.00

B Model 85kA BEG

In (A@50°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Standard Installation Method	Item Type	Catalogue No.	\$AU
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	I	B1600HL41600BEG	28,426.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600HL41600BEGRC	33,539.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Front Connection	A	B1600HL41600BEGCI	29,634.00
1600	640A - 1600A	14 - 12 x I _n	2.5 - 10 x I _r	Rear Connection	A	B1600HL41600BEGRCCI	33,556.00

B Model Non Auto

In (A@50°C)	Trip Unit Protection Type	Standard Installation Method	Item Type	Catalogue No.	\$AU
1600	Non-auto Switch Disconnecter	Front Connection	I	B1600D41600NN	25,511.00
1600	Non-auto Switch Disconnecter	Rear Connection	A	B1600D41600NNRC	30,678.00
1600	Non-auto Switch Disconnecter	Front Connection	A	B1600D41600NNCI	26,719.00
1600	Non-auto Switch Disconnecter	Rear Connection	A	B1600D41600NNRCCI	30,695.00

TemBreak PRO 2000 AF

- General purpose power distribution and motor starting
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- 3 or 4 pole versions
- Fault rating 85 kA
- Electronic type trip unit

3 Pole

XS Model 85kA BE

In (A@45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
2000	1000A - 2000A	3 - 12 x I _n	2 - 10 x I _r		XS2000-HL-3-2000-BE	26,182.00



XS2000-HL-3-2000-BE

XS Model Non Auto

In (A@45°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
2000	Non-auto Switch Disconnecter	I	XS2000D32000NN	21,694.00

4 Pole

XS Model 85kA BE

In (A@45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
2000	1000A - 2000A	3 - 12 x I _n	2 - 10 x I _r		XS2000-HL-4-2000-BE	36,654.00

XS Model Non Auto

In (A@45°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
2000	Non-auto Switch Disconnecter	I	XS2000D42000NN	34,782.00

TemBreak PRO 2500 AF

- General purpose power distribution and motor starting
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- Fault ratings: 85 kA
- Electronic type trip unit

3 Pole

XS Model 85kA BE

In (A @45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
2500	1250A - 2500A	3 - 12 x I _n	2 - 10 x I _r		XS2500-HL-3-2500-BE	27,561.00



XS2500-HL-3-2500-BE

XS Model Non Auto

In (A @45°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
2500	Non-auto Switch Disconnecter	I	XS2500D32500NN	23,938.00

4 Pole

XS Model 85kA BE

In (A @45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
2500	1250A - 2500A	3 - 12 x I _n	2 - 10 x I _r		XS2500-HL-4-2500-BE	33,288.00

XS Model Non Auto

In (A @45°C)	Trip Unit Protection Type	Item Type	Catalogue No.	\$AU
2500	Non-auto Switch Disconnecter	I	XS2500D42500NN	31,623.00

1

TemBreak PRO 3200 AF

- General purpose power distribution and motor starting
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- Fault ratings: 85 kA
- Electronic type trip unit

3 Pole**XS Model 85kA BE**

XS3200-HL-3-3200-BE

In (A@45°C)	I _r Range (A)	I _i Range (A)	I _{sd} Range (A)	Item Type	Catalogue No.	\$AU
3200	1600A - 3200A	3 – 12 x I _n	2 - 10 x I _r		XS3200-HL-3-3200-BE	33,288.00

TemBreak PRO Earth Leakage

- Earth leakage protection ELCB for Power distribution or motor start applications
- Current limiting, lowers fault let through energy
- Direct opening main contact / toggle mechanism
- Complies to AS / NZ 60947-2, IEC 60947-2, AS / NZS 2081 and CE
- Panel mount standard, with other mounting options
- Full range of accessories for application flexibility
- 3 or 4 pole versions
- Fault interruption rating; 65 kA

ZS Model 125 AF**3 Pole 65kA TF**

ZS125M350TF

In (A@50°C)	I _r Range (A)	I _i (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	240A		ZS125M320TF	5,595.00
32	20A - 32A	384A		ZS125M332TF	5,595.00
50	32A - 50A	600A		ZS125M350TF	5,595.00
63	40A - 63A	756A		ZS125M363TF	5,651.00
100	63A - 100A	1200A		ZS125M3100TF	5,826.00
125	80A - 125A	1250A		ZS125M3125TF	6,107.00

4 Pole 65kA TF

ZS125M420TF

In (A@50°C)	I _r Range (A)	I _i (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	240A		ZS125M420TF	5,913.00
32	20A - 32A	384A		ZS125M432TF	5,913.00
50	32A - 50A	600A		ZS125M450TF	6,042.00
63	40A - 63A	756A		ZS125M463TF	6,197.00
100	63A - 100A	1200A		ZS125M4100TF	6,508.00
125	80A - 125A	1250A		ZS125M4125TF	7,177.00

4 Pole 65kA TF SN

ZS125M420TF SN

In (A@50°C)	I _r Range (A)	I _i (A)	Item Type	Catalogue No.	\$AU
20	12.5A - 20A	240A		ZS125M420TF SN	5,913.00
32	20A - 32A	384A		ZS125M432TF SN	5,986.00
100	63A - 100A	1200A		ZS125M4100TF SN	6,773.00
125	80A - 125A	1250A		ZS125M4125TF SN	7,457.00

ZS Model 250 AF

3 Pole 65kA TF

In (A@50°C)	I _r Range (A)	I _i (A)	Item Type	Catalogue No.	\$AU
160	100A - 160A	2080A		ZS250M3160TF	6,670.00
250	160A - 250A	2500A		ZS250M3250TF	6,889.00



ZS250M3160TF

4 Pole 65kA TF

In (A@50°C)	I _r Range (A)	I _i (A)	Item Type	Catalogue No.	\$AU
160	100A - 160A	2080A		ZS250M4160TF	7,401.00
250	160A - 250A	2500A		ZS250M4250TF	8,070.00



ZS250M4160TF

4 Pole 65kA TF SN

In (A@50°C)	I _r Range (A)	I _i (A)	Item Type	Catalogue No.	\$AU
160	100A - 160A	2080A		ZS250M4160TFSN	7,666.00
250	160A - 250A	2500A		ZS250M4250TFSN	8,475.00



ZS250M4160TFSN

TemBreak PRO Accessories for 160 AF to 800 AF

External Accessories

Direct mount handles

Item Description	Item Type	Catalogue No.	\$AU
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR P160 BLACK		TPHB165UR5BN	449.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR ZS125 BLACK		T2HB12UR5BNP	466.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR A160 BLACK		T2HB16LUR5BNP	466.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR ZS125 RED		T2HB12UR5RNP	517.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR A160 RED	I	T2HB16LUR5RNP	517.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR P160 RED	I	TPHB165UR5R	550.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR A250 BLACK		T2HB25LUR5BNP	576.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR B250/ZS250 BLACK		T2HB25UR5BNP	576.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR P250 BLACK		TPHB255UR5BN	576.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR B/L400 BLACK		T2HB40UR5BNP	657.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR P400/P630 BLACK		TPHB635UR5BN	657.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR A250 RED	I	T2HB25LUR5RNP	690.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR B250/ZS250 RED	I	T2HB25UR5RNP	690.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR P250 RED	I	TPHB255UR5RN	690.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR B/L400 RED	I	T2HB40UR5RNP	787.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR P400/P630 RED	I	TPHB635UR5RN	787.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR B/L800 BLACK		T2HB80UR5BNP	1,513.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR B1600 RED	I	T2HBX6UR5BT	1,720.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR B/L800 RED	I	T2HB80UR5RNP	1,740.00
TBP HANDLE DIRECT MOUNT WITH DIRECT INTERLOCK FOR B1600 BLACK	I	T2HBX6UR5RT	1,984.00



T2HB12UR5BNP

1



T2HP12R6BNP

HP Handle

Item Description	Item Type	Catalogue No.	\$AU
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR ZS250 GREY		T2HP12R6BNP	653.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR A160 GREY	I	T2HP16LR6BNP	653.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR A250 GREY		T2HP25LR6BNP	653.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR B160/B250/ZS250 GRAY		T2HP25R6BNP	653.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR P160 GREY		TPHP16SR6BN	653.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR P250 GREY		TPHP25SR6BN	653.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR B400/L400 GREY		T2HP40R6BNP	730.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR P400/P630 GREY		TPHP63SR6BN	730.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR ZS250 RED		T2HP12R6RNP	741.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR A160 RED	I	T2HP16LR6RNP	741.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR A250 RED	I	T2HP25LR6RNP	741.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR B160/B250/ZS250 RED		T2HP25R6RNP	741.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR P160 RED		TPHP16SR6RN	756.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR P250 RED		TPHP25SR6RN	756.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR B400/L400 RED	I	T2HP40R6RNP	996.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR AF 800/1000 GREY		T2HP80R6BNP	1,403.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR AF 800/1000 RED	I	T2HP80R6RNP	1,828.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR B1250/B1600 GREY		T2HPX6R6BNP	1,979.00
TBP HP HANDLE WITH EXTENSION SHAFT IP65 FOR B1250/B1600 RED	I	T2HPX6R6RNP	2,350.00

Handle Box and Mechanism

Item Description	Item Type	Catalogue No.	\$AU
TBP HANDLE BOX AND MECHANISM FOR A160		TPHS16L	223.00
TBP HANDLE BOX AND MECHANISM FOR P160		TPHS16S	223.00
TBP HANDLE BOX AND MECHANISM FOR ZS125/B160		TPHSB12	223.00
TBP HANDLE BOX AND MECHANISM FOR P250		TPHS25	248.00
TBP HANDLE BOX AND MECHANISM FOR A250		TPHS25L	248.00
TBP HANDLE BOX AND MECHANISM FOR B250		TPHSB25	248.00
TBP HANDLE BOX AND MECHANISM FOR P400/P630		TPHS40	288.00
TBP HANDLE BOX AND MECHANISM FOR B400/B630		TPHSB40	288.00
TBP HANDLE MECHANISM FOR B800		TPHS80	1,001.00

HS Handle



TPHS16LR5GM

Item Description	Item Type	Catalogue No.	\$AU
TBP HS HANDLE IP65 FOR B1600 GREY METAL LEVER		TPHSX6F65BM	1,796.00
TBP HS HANDLE IP65 FOR B1600 W/METAL LEVER RED		TPHSX6F65RM	2,350.00
TBP HS HANDLE IP55 FOR A160 GREY		TPHS16LR5GM	601.00
TBP HS HANDLE IP55 FOR ZS125 GREY		TPHS12R5GM	624.00
TBP HS HANDLE IP55 FOR P160 GREY		TPHS16R5GM	624.00
TBP HS HANDLE IP55 FOR A250 GREY		TPHS25LR5GM	624.00
TBP HS HANDLE IP55 FOR P250 GREY		TPHS25R5GM	624.00
TBP HS HANDLE IP55 FOR B/L160/250/ZS250 GREY		TPHS25SR5GM	624.00
TBP HS HANDLE IP55 FOR A160 RED	A	TPHS16LR5RM	686.00
TBP HS HANDLE IP55 FOR ZS125 RED	A	TPHS12R5RM	730.00
TBP HS HANDLE IP55 FOR P160 RED	A	TPHS16R5RM	730.00
TBP HS HANDLE IP55 FOR A250 RED	A	TPHS25LR5RM	730.00
TBP HS HANDLE IP55 FOR P250 RED	A	TPHS25R5RM	730.00
TBP HS HANDLE IP55 FOR B/L160/250/ZS250 RED	A	TPHS25SR5RM	730.00
TBP HS HANDLE IP65 FOR B400/B630 - ZS400/ZS630 GREY		TPHS40BR6GM	753.00
TBP HS HANDLE IP65 FOR P400/P630 GREY		TPHS63R5GM	753.00
TBP HS HANDLE IP65 FOR B400/B630 - ZS400/ZS630 RED	A	TPHS40BR6RM	1,037.00
TBP HS HANDLE IP65 FOR P400/P630 RED	A	TPHS63R5RM	1,037.00
TBP HS HANDLE IP65 FOR B800/B1000/ZS630/ZS800 GREY		TPHS80F65BM	1,113.00
TBP HS HANDLE IP65 FOR B800/B1000 - ZS800/ZS630 RED	A	TPHS80F65RM	1,338.00

CR Flush Terminal Cover

Item Description	Item Type	Catalogue No.	\$AU
TBP CR FLUSH TERMINAL COVER FOR ZS125 3P (QTY 1)	I	T2CR123SHP	78.00
TBP CR FLUSH TERMINAL COVER FOR A160 3P (QTY 1)		T2CR12L3SHP	79.00
TBP CR FLUSH TERMINAL COVER FOR P160 3P (QTY 1)		TPCR163SPH	87.00
TBP CR FLUSH TERMINAL COVER FOR B250/ZS250 3P (QTY 1)	I	T2CR253SHP	94.00
TBP CR FLUSH TERMINAL COVER FOR A250/P250 3P (QTY 1)		T2CR25L3SHP	95.00
TBP CR FLUSH TERMINAL COVER FOR ZS125 3P (QTY 2)		T2CR123SP	112.00
TBP CR FLUSH TERMINAL COVER FOR A160 3P (QTY 2)		T2CR12L3SP	112.00
TBP CR FLUSH TERMINAL COVER FOR P160 3P (QTY 2)		TPCR163SP	112.00
TBP CR FLUSH TERMINAL COVER FOR A250/P250 4P (QTY 1)	I	T2CR25L4SHP	124.00
TBP CR FLUSH TERMINAL COVER FOR B250/ZS250 4P (QTY 1)	I	T2CR254SHP	125.00
TBP CR FLUSH TERMINAL COVER FOR B250/ZS250 3P (QTY 2)		T2CR253SNP	134.00
TBP CR FLUSH TERMINAL COVER FOR A250/P250 3P (QTY 2)		T2CR25L3SP	134.00
TBP CR FLUSH TERMINAL COVER FOR A160 4P (QTY 1)	I	T2CR12L4SHP	138.00
TBP CR FLUSH TERMINAL COVER FOR ZS125 4P (QTY 1)	I	T2CR124SHP	139.00
TBP CR FLUSH TERMINAL COVER FOR P160 4P (QTY 1)	I	TPCR164SPH	157.00
TBP CR FLUSH TERMINAL COVER FOR P400/P630 3P (QTY 1)	I	TPCR633SPH	172.00
TBP CR FLUSH TERMINAL COVER FOR B250/ZS250 4P (QTY 2)		T2CR254SNP	178.00
TBP CR FLUSH TERMINAL COVER FOR A250/P250 4P (QTY 2)		T2CR25L4SP	178.00
TBP CR FLUSH TERMINAL COVER FOR ZS125 4P (QTY 2)	I	T2CR124SP	198.00
TBP CR FLUSH TERMINAL COVER FOR A160 4P (QTY 2)	I	T2CR12L4SP	198.00
TBP CR FLUSH TERMINAL COVER FOR P160 4P (QTY 2)		TPCR164SP	202.00
TBP CR FLUSH TERMINAL COVER FOR P400/P630 4P (QTY 1)	I	TPCR634SPH	212.00
TBP CR FLUSH TERMINAL COVER FOR P400/P630 3P (QTY 2)		TPCR633SP	246.00
TBP CR FLUSH TERMINAL COVER FOR P400/P630 4P (QTY 2)	I	TPCR634SP	301.00
TBP CR FLUSH TERMINAL COVER FOR B800/B1000 3P (QTY 1)		T2CR803SHP	412.00
TBP CR FLUSH TERMINAL COVER FOR B800P/B800R 3P (QTY 1)	I	T2CR803LHP	512.00
TBP CR FLUSH TERMINAL COVER FOR B800/B1000 4P (QTY 1)	I	T2CR804SHP	535.00
TBP CR FLUSH TERMINAL COVER FOR B800/B1000 3P (QTY 2)		T2CR803SNP	587.00
TBP CR FLUSH TERMINAL COVER FOR B800P/B800R 4P (QTY 1)	I	T2CR804LHP	634.00
TBP CR FLUSH TERMINAL COVER FOR B800P/B800R 3P (QTY 2)	I	T2CR803LNP	730.00
TBP CR FLUSH TERMINAL COVER FOR B800/B1000 4P (QTY 2)	I	T2CR804SNP	763.00
TBP CR FLUSH TERMINAL COVER FOR B800P/B800R 4P (QTY 2)	I	T2CR804LNP	895.00



T2CR12L3SHP

CS STD Terminal Cover

Item Description	Item Type	Catalogue No.	\$AU
TBP CS STD TERMINAL COVER FOR B160 1P (QTY 2)		T2CS161SP	30.00
TBP CS STD TERMINAL COVER FOR P160 3P (QTY 2)		TPCS163SPB	102.00



TPCS163SPB

1



TPCF163SSNPH

CF Terminal Cover

Item Description	Item Type	Catalogue No.	\$AU
TBP CF SHORT TERMINAL COVER FOR 3P P160 (QTY 1)	I	TPCF163SSNPH	61.00
TBP CF LONG TERMINAL COVER FOR 3P P160 (QTY 1)		TPCF163SLNPH	66.00
TBP CF LONG TERMINAL COVER FOR 4P P160 (QTY 1)	I	TPCF164SLNPH	83.00
TBP CF LONG TERMINAL COVER FOR 1P A160 (QTY 2)		T2CF12L1SLNP	98.00
TBP CF LONG TERMINAL COVER FOR 3P ZS125 (QTY 1)		T2CF123SLHP	108.00
TBP CF LONG TERMINAL COVER FOR 3P P160 (QTY 2)		TPCF163SLNP	108.00
TBP CF LONG TERMINAL COVER FOR 4P ZS125 (QTY 1)		T2CF124SLHP	114.00
TBP CF LONG TERMINAL COVER FOR 3P B250 (QTY 1)		T2CF253LLHP	134.00
TBP CF LONG TERMINAL COVER FOR 3P ZS250 (QTY 1)		T2CF253SLHP	135.00
TBP CF SHORT TERMINAL COVER FOR 3P P160 (QTY 2)		TPCF163SSNP	136.00
TBP CF SHORT TERMINAL COVER FOR 4P P160 (QTY 2)		TPCF164SSNP	145.00
TBP CF LONG TERMINAL COVER FOR 4P ZS250 (QTY 1)		T2CF254SLHP	158.00
TBP CF LONG W/BARRIER TERMINAL COVER FOR 3P P160 (QTY 1)		TPCF163SLEPH	165.00
TBP CF LONG TERMINAL COVER FOR 4P P160 (QTY 2)		TPCF164SLNP	167.00
TBP CF W/REAR BARRIER TERMINAL COVER FOR 3P P160 (QTY 1)	I	TPCF163SSEPH	220.00
TBP CF W/REAR BARRIER TERMINAL COVER FOR 4P P160 (QTY 2)	I	TPCF164SSEPH	242.00
TBP CF LONG TERMINAL COVER FOR 3P P400/P630 (QTY 1)		TPCF633SLNPH	253.00
TBP CF WIDE TERMINAL COVER FOR 3P P400/P630 (QTY 1)		TPCF633SWNPH	274.00
TBP CF WIDE TERMINAL COVER FOR 4P P400/P630 (QTY 1)	I	TPCF634SWNPH	313.00
TBP CF LONG W/BARRIER TERMINAL COVER FOR 4P P160 (QTY 1)	I	TPCF164SLEPH	322.00
TBP CF LONG TERMINAL COVER FOR 3P P400/P630 (QTY 2)		TPCF633SLNP	361.00
TBP CF LONG W/BARRIER TERMINAL COVER FOR 3P P400/P630 (QTY 1)	I	TPCF633SLEPH	392.00
TBP CF WIDE TERMINAL COVER FOR 3P P400/P630 (QTY 2)		TPCF633SWNP	420.00
TBP CF LONG TERMINAL COVER FOR 4P P400/P630 (QTY 1)	I	TPCF634SLNPH	497.00
TBP CF LONG TERMINAL COVER FOR 4P B800/B1000 (QTY 1)		T2CF804SLHP	503.00
TBP CF WIDE TERMINAL COVER FOR 4P P400/P630 (QTY 2)		TPCF634SWNP	521.00
TBP CF WIDE W/BARRIER TERMINAL COVER FOR 3P P400/P630 (QTY 1)		TPCF633SWEPH	546.00
TBP CF LONG W/BARRIER TERMINAL COVER FOR 4P P400/P630 (QTY 1)	I	TPCF634SLEPH	566.00
TBP CF LONG TERMINAL COVER FOR 4P P400/P630 (QTY 2)		TPCF634SLNP	621.00
TBP CF WIDE W/BARRIER TERMINAL COVER FOR 4P P400/P630 (QTY 1)	I	TPCF634SWEPH	677.00



TPCF16SL

Terminal Cover Clip

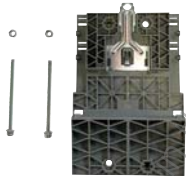
Item Description	Item Type	Catalogue No.	\$AU
TBP TERMINAL COVER CLIP FOR ZS125/B160/ZS250/B250		T2CF00L	35.00
TBP TERMINAL COVER CLIP FOR P160		TPCF16SL	9.90
TBP TERMINAL COVER CLIP FOR P400/P630		TPCF63SL	9.90



T2BA25L3SH

Interpole Barrier

Item Description	Item Type	Catalogue No.	\$AU
TBP INTERPOLE BARRIER FOR A250/P250/ZS250 (QTY 2)		T2BA25L3SH	57.00



TPDA16SA

DIN rail Adaptor

Item Description	Item Type	Catalogue No.	\$AU
TBP DIN RAIL ADAPTOR FOR A160		TPDA16SA	195.00

Tunnel Terminal

Item Description	Item Type	Catalogue No.	\$AU
TBP TUNNEL TERMINAL FIT 6-50mm ² FOR ZS125 (QTY 6)		T2FW1253A	422.00
TBP TUNNEL TERMINAL FIT 35-120mm ² FOR B250/ZS250 (QTY 6)		T2FW25L3B	466.00
TBP TUNNEL TERMINAL FIT 240mm ² FOR B/L400 (QTY 6)		T2FW40L3A	1,096.00
TBP TUNNEL TERMINAL FIT 35 TO 120 mm ² FOR P160 (QTY 3)	I	TPFW16S3L1H	664.00
TBP TUNNEL TERMINAL FIT 6 CABLES 4 TO 25 mm ² FOR P160 (QTY 3)		TPFW16S3L6H	698.00
TBP TUNNEL TERMINAL FIT 35 TO 120 mm ² FOR P160 (QTY 4)	I	TPFW16S4L1H	860.00
TBP TUNNEL TERMINAL FIT 35 TO 300 mm ² 1 HOLE FOR P400/630 (QTY 3)		TPFW63S3S1H	1,036.00
TBP TUNNEL TERMINAL FIT 6 CABLES 4 TO 25 mm ² FOR P160 (QTY 4)	I	TPFW16S4L6H	1,340.00
TBP TUNNEL TERMINAL FIT 35 TO 300 mm ² 1 HOLE FOR P400/630 (QTY 4)	I	TPFW63S4S1H	1,373.00
TBP TUNNEL TERMINAL FIT 35 TO 300 mm ² 2 HOLE FOR P400/630 (QTY 3)	I	TPFW63S3L2H	1,382.00
TBP TUNNEL TERMINAL FIT 35 TO 300 mm ² 2 HOLE FOR P400/630 (QTY 4)	I	TPFW63S4L2H	1,834.00



TPFW16S3L1H

Non Captive Lock

Item Description	Item Type	Catalogue No.	\$AU
TBP NON CAPTIVE LOCK 5 x 16.5mm SLOT FOR ZS/B125/160/250		T2HL25B	78.00
TBP NON CAPTIVE LOCK 5 x 16.5mm SLOT FOR B400 UP TO 1000A		T2HL40A	157.00
TBP NON CAPTIVE LOCK 3 x 8mm SLOT FOR B1250/1600A		T2HLX6A	269.00
TBP NONCAPTIVE LOCK W/5 x 16.5mm SLOT FOR P400/P630		TPHL63SA	105.00



TPHL63SA

Rear Connect Kit

Item Description	Item Type	Catalogue No.	\$AU
TBP REAR CONNECT KIT FOR B1250 3P		T2M2264CAA	2,786.00

Interlock

Item Description	Item Type	Catalogue No.	\$AU
TBP INTERLOCK WIRE 1.5M FOR A/B/ZS MODELS		T2MW00LA	215.00
TBP INTERLOCK WIRE 1.0M FOR A/B/ZS MODELS		T2MW00SA	182.00
TBP CABLE INTERLOCK KIT WITHOUT WIRE FOR B160/B250		T2MW25CA	762.00
TBP INTERLOCK WIRE FOR P MODELS 1.0M		TPMW00S	186.00
TBP INTERLOCK WIRE FOR P MODLES 1.5M		TPMW00L	219.00
TBP FRONT LINK INTERLOCK LEFT SIDE FOR 4P P160		TPML16SL4	283.00
TBP FRONT LINK INTERLOCK LEFT SIDE FOR 3P P160		TPML16SL3	379.00
TBP FRONT LINK INTERLOCK LEFT SIDE FOR 3P P250		TPML25SL3	414.00
TBP FRONT LINK INTERLOCK LEFT SIDE FOR 4P P250		TPML25SL4	414.00
TBP FRONT LINK INTERLOCK RIGHT SIDE FOR P160		TPML16SR3	454.00
TBP FRONT LINK INTERLOCK RIGHT SIDE FOR P250		TPML25SR3	488.00
TBP CABLE INTERLOCK KIT W/OUT WIRE FOR A250		T2MW25LCP	704.00
TBP CABLE INTERLOCK KIT W/OUT WIRE FOR P160		TPMW16SCN	780.00
TBP CABLE INTERLOCK KIT W/OUT WIRE FOR P250		TPMW25SCN	796.00
TBP FRONT LINK INTERLOCK RIGHT SIDE FOR P400/P630 HANDLE		TPML63SR3H	1,060.00
TBP FRONT LINK INTERLOCK RIGHT SIDE FOR P400/P630 MOTOR		TPML63SR3M	1,060.00
TBP FRONT LINK INTERLOCK LEFT SIDE FOR 3P P400/P630 HANDLE		TPML63SL3H	1,113.00
TBP FRONT LINK INTERLOCK LEFT SIDE FOR 3P P400/P630 MOTOR		TPML63SL3M	1,113.00
TBP CABLE INTERLOCK FOR HANDLES W/OUT WIRE FOR P400/P630		TPMW63SCH	1,236.00
TBP CABLE INTERLOCK FOR MOTORS W/OUT WIRE FOR P400/P630		TPMW63SCM	1,236.00
TBP FRONT LINK INTERLOCK LEFT SIDE FOR 4P P400/P630 HANDLE		TPML63SL4H	2,193.00
TBP FRONT LINK INTERLOCK LEFT SIDE FOR 4P P400/P630 MOTOR		TPML63SL4M	2,193.00



TPML16SL4

Studs

Item Description	Item Type	Catalogue No.	\$AU
TBP REAR CONNECT STUDS FOR 3P ZS125		T2RP123SA	542.00
TBP REAR CONNECT STUDS FOR 3P P400/B400		T2RP403SA	1,720.00
TBP REAR CONNECT STUDS FOR 3P B800		T2RP803SA	2,953.00
TBP REAR CONNECT STUDS FOR 3P P630		T2RP404SA	2,570.00
TBP REAR CONNECT STUDS FOR 4P P160 (HALF SET)	I	TPRP164SH	634.00
TBP REAR CONNECT STUDS FOR 3P A250/P250		T2RP25L3SA	710.00



TPRP164SH

1



TPFB163SBC

Extension Bars

Item Description	Item Type	Catalogue No.	\$AU
TBP STRAIGHT EXTENSION BARS 1P B160 (QTY 2)		T2FB121BA	39.00
TBP STRAIGHT EXTENSION BARS 3P ZS125/B160 (QTY 6)		T2FB123BA	170.00
TBP STRAIGHT EXTENSION BARS 4P ZS125/B160 (QTY 8)		T2FB124BA	249.00
TBP STRAIGHT EXTENSION BARS 3P P160 (QTY 6)		TPFB163SBC	203.00
TBP FLANGED EXTENSION BARS 3P P630 (QTY 3)		TPFB633WHC	291.00
TBP STRAIGHT EXTENSION BARS 4P P160 (QTY 8)	I	TPFB164SBC	319.00
TBP STRAIGHT EXTENSION BARS 4P P400 (QTY 4)	I	T2FB404H	424.00
TBP FLANGED EXTENSION BARS 4P P400 (QTY 4)	I	TPFB404WHC	424.00
TBP FLANGED EXTENSION BARS 4P P630 (QTY 4)	I	TPFB634WHC	424.00
TBP FLANGED EXTENSION BARS 3P P400 (QTY 3)		TPFB403WHA	535.00

TemBreak PRO Accessories for 160AF to 1600AF

External Accessories

Motor Operators Type MC



TPMC63SD02N

Item Description	Item Type	Catalogue No.	\$AU
TBP MOTOR 24V DC FOR P160/P250		TPMC25SD02N	3,700.00
TBP MOTOR 110V DC FOR P160/P250		TPMC25SD10N	3,700.00
TBP MOTOR 230V DC FOR P160/P250	I	TPMC25SD20N	3,700.00
TBP MOTOR 110-240V AC FOR P400/P630		TPMC63SA10N	5,106.00
TBP MOTOR 24-48V DC FOR P400/P630		TPMC63SD02N	5,106.00
TBP MOTOR 240V AC FOR B1250/B1600		T2MCX6A24NP	5,779.00
TBP MOTOR 24V DC FOR B1250/B1600		T2MCX6D02NP	5,779.00

Ground Fault

Item Description	Item Type	Catalogue No.	\$AU
TBP GROUND FAULT NEUTRAL PHASE CT 400A FOR MCCB B400/L400		T2GB40N04A	1,093.00
TBP GROUND FAULT NEUTRAL PHASE CT 1600A FOR MCCB B1600		T2GBX6N16A	1,610.00

OC Seal Kit

Item Description	Item Type	Catalogue No.	\$AU
TBP OCR SEAL KIT FOR B250/L250		T2SF25NEA	95.00

Extension Bars

Item Description	Item Type	Catalogue No.	\$AU
TBP PLUG IN EXTENSION BAR 3P KIT FOR P160		T2PF123HA	78.00
TBP PLUG IN EXTENSION BAR 4P KIT FOR P160		T2PF124HA	115.00
TBP PLUG IN EXTENSION BAR 3P KIT FOR FRAMES 250	I	T2PF253HA	120.00
TBP PLUG IN EXTENSION BAR 4P KIT FOR FRAMES 250	I	T2PF254HA	168.00
TBP PLUG IN EXTENSION BAR 3P KIT FOR FRAMES 400	I	T2PF403HA	296.00
TBP PLUG IN EXTENSION BAR 4P KIT FOR FRAMES 400	I	T2PF404HA	398.00

Plug-in Base



T2PF803HA

Item Description	Item Type	Catalogue No.	\$AU
TBP PLUG IN BASE 3P FOR P160	I	TPPM16A3A	340.00
TBP PLUG IN BASE 4P FOR P160	I	TPPM16A4A	473.00
TBP PLUG IN BASE 3P FOR P250	I	TPPM25A3A	490.00
TBP PLUG IN BASE 4P FOR P250	I	TPPM25A4A	778.00
TBP PLUG IN EXTENSION BAR 3P KIT FOR FRAMES 800	I	T2PF803HA	2,412.00
TBP PLUG IN EXTENSION BAR 4P KIT FOR FRAMES 800	I	T2PF804HA	3,132.00
TBP PLUG IN BASE 3P FOR P630		TPPM63A3A	5,086.00
TBP PLUG IN BASE 4P FOR P630	I	TPPM63A4A	7,119.00

Plug-in Conversion Kit

Item Description	Item Type	Catalogue No.	\$AU
TBP MCCB PLUG-IN CONVERSION KIT 3P FOR P160 60A TO 125A		2M6583CAA	860.00
TBP MCCB PLUG-IN CONVERSION KIT 3P FOR P160 15A TO 50A	I	2M6583CBA	860.00
TBP MCCB PLUG-IN CONVERSION KIT 4P FOR P160 60A TO 125A	I	2M6584CAA	1,082.00
TBP MCCB PLUG-IN CONVERSION KIT 4P FOR P160 15A TO 50A	I	2M6584CBA	1,082.00
TBP MCCB PLUG-IN CONVERSION KIT 3P FOR B400/L400	I	2M0405CAAK	2,383.00
TBP MCCB PLUG-IN CONVERSION KIT 3P FOR P400	I	2M6380CAA	2,383.00
TBP MCCB PLUG-IN CONVERSION KIT 3P FOR P630	I	2M6380CBA	2,383.00
TBP MCCB PLUG-IN CONVERSION KIT 4P FOR B400/L400	I	2M0406CAAK	3,047.00
TBP MCCB PLUG-IN CONVERSION KIT 4P FOR P400	I	2M6381CAA	3,047.00
TBP MCCB PLUG-IN CONVERSION KIT 4P FOR P630	I	2M6381CBA	3,047.00

2M0405CAAK



Withdrawable Plug in Base

Item Description	Item Type	Catalogue No.	\$AU
WITHDRAWABLE PLUG-IN BASE/CARRIAGE KIT 800A 3P IP20	I	2M2867CBD	11,730.00
WITHDRAWABLE PLUG-IN BASE/CARRIAGE KIT 800A 4P IP20	I	2M2868CBD	14,039.00

Captive Lock Cover

Item Description	Item Type	Catalogue No.	\$AU
TBP CAPTIVE LOCK COVER FOR A250		TPCLCA25	138.00
TBP CAPTIVE LOCK COVER FOR A250D		TPCLCA25D	138.00
TBP CAPTIVE LOCK COVER FOR P160 TM/BE		TPCLCP16	138.00
TBP CAPTIVE LOCK COVER FOR P160 SE	I	TPCLCP16SE	138.00
TBP CAPTIVE LOCK COVER FOR P250 TM/BE		TPCLCP25	138.00
TBP CAPTIVE LOCK COVER FOR P250 SE	I	TPCLCP25SE	138.00
TBP CAPTIVE LOCK COVER FOR P400/P630		TPCLCP63	184.00
TBP CAPTIVE LOCK COVER FOR 800/1000A	I	TPCLCB100	339.00
TBP CAPTIVE LOCK COVER FOR 1250/1600A	I	TPCLCB160	561.00

Communication Module

Item Description	Item Type	Catalogue No.	\$AU
TBP COMMUNICATION MODULE MODBUS RTU UNIT WITHOUT I/O		TPCM00D02NA	1,601.00
TBP COMMUNICATION MODULE MODBUS RTU WITH 2 RELAY CONTACTS	I	TPCM00D02WA	3,391.00

CIP Connection

Item Description	Item Type	Catalogue No.	\$AU
TBP PTA/OAZ CONNECTION CABLE 1.2M		TPPHQTT130HA	401.00
TBP CIP CONNECTION LEAD 24V 1.2M		TPPHQTT140HA	401.00
TBP CIP CONNECTION LEAD 0.5M	I	TPPHQTT330HA	668.00
TBP CIP CONNECTION LEAD 0.5M P400/630	I	TPPHQTT430HA	668.00
TBP CIP CONNECTION LEAD 1.5M		TPPHQTT340HA	734.00
TBP CIP CONNECTION LEAD 1.5M P400/630		TPPHQTT440HA	734.00
TBP CIP CONNECTION LEAD 24V 1.2M P400/630	I	TPPHQTT160HA	798.00
TBP CIP CONNECTION LEAD 3M	I	TPPHQTT350HA	867.00
TBP CIP CONNECTION LEAD 3M P400/630	I	TPPHQTT450HA	867.00
TBP CIP CONNECTION LEAD 5M	I	TPPHQTT360HA	2,092.00
TBP CIP CONNECTION LEAD 5M P400/630	I	TPPHQTT460HA	2,092.00
TBP CIP CONNECTION LEAD 10M	I	TPPHQTT370HA	3,228.00
TBP CIP CONNECTION LEAD 10M P400/630	I	TPPHQTT470HA	3,228.00

Withdrawable Internal Metal Frame

Item Description	Item Type	Catalogue No.	\$AU
WITHDRAWABLE INTERNAL METAL FRAME FOR MCCB BODY 800A 3P	I	2G1335CAB	2,727.00
WITHDRAWABLE INTERNAL METAL FRAME FOR MCCB BODY 800A 4P	I	2G1335CBB	3,527.00

1



TPSS00NA

SMART Status Auxiliary (AX/AL)

Item Description	Item Type	Catalogue No.	\$AU
TBP SMART AX/AL SWITCH		TPSS00NA	405.00

SMART Connection Leads

Item Description	Item Type	Catalogue No.	\$AU
TBP ZONE INTERLOCK CONNECTION LEAD 1.2M	I	TPPHQTT150HA	884.00

Internal Accessories

Shunt Trips

Item Description	Item Type	Catalogue No.	\$AU
TBP SHUNT TRIP FOR A/P MODEL 110V AC		T2SH00LA10T	424.00
TBP SHUNT TRIP FOR A/P MODEL 230-240V AC		T2SH00LA20T	424.00
TBP SHUNT TRIP FOR A/P MODEL 400-415V AC		T2SH00LA40T	424.00
TBP SHUNT TRIP FOR A/P MODEL 12V DC		T2SH00LD01T	424.00
TBP SHUNT TRIP FOR A/P MODEL 24V DC		T2SH00LD02T	424.00
TBP SHUNT TRIP FOR A/P MODEL 48V DC		T2SH00LD04T	424.00
TBP SHUNT TRIP FOR A/P MODEL 110V DC		T2SH00LD10T	424.00
TBP SHUNT TRIP FOR A/P MODEL 230V DC	I	T2SH00LD20T	424.00

Under Voltage Trips Instantaneous

Item Description	Item Type	Catalogue No.	\$AU
TBP UVT INST FOR B800-1600 MODEL 230-240V AC	I	T2UV80A24NTA	396.00
TBP UVT INST FOR B800-1600 MODEL 440-450V AC	I	T2UV80A45NTA	404.00
TBP UNDER VOLTAGE TRIPS INSTANTANEOUS FOR A/P MODEL 110V AC		T2UV00LA10NT	546.00
TBP UNDER VOLTAGE TRIPS INSTANTANEOUS FOR A/P MODEL 230-240V AC		T2UV00LA20NT	546.00
TBP UNDER VOLTAGE TRIPS INSTANTANEOUS FOR A/P MODEL 400-440V AC		T2UV00LA40NT	546.00
TBP UNDER VOLTAGE TRIPS INSTANTANEOUS FOR A/P MODEL 24V DC		T2UV00LD02NT	691.00
TBP UNDER VOLTAGE TRIPS INSTANTANEOUS FOR A/P MODEL 110V DC	I	T2UV00LD10NT	691.00
TBP UNDER VOLTAGE TRIPS INSTANTANEOUS FOR A/P MODEL 230V DC	I	T2UV00LD20NT	691.00

Under Voltage Trips With Delay For A and P Model

Item Description	Item Type	Catalogue No.	\$AU
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A/P MODEL 110V AC	I	T2UV00LA10DS	820.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A/P MODEL 230-240V AC	I	T2UV00LA24DS	820.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A/P MODEL 380-415V AC	I	T2UV00LA40DS	820.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A/P MODEL 440-450V AC	I	T2UV00LA45DS	820.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A/P MODEL 24V DC	I	T2UV00LD02DS	1,033.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A/P MODEL 110V DC	I	T2UV00LD10DS	1,033.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A400/P630 MODEL 4P 110V AC	I	T2UV00LA10DL	1,111.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A400/P630 MODEL 4P 230-240V AC	I	T2UV00LA24DL	1,111.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A400/P630 MODEL 4P 380-415V AC	I	T2UV00LA40DL	1,111.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A400/P630 MODEL 4P 440-450V AC	I	T2UV00LA45DL	1,111.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A400/P630 MODEL 4P 24V DC	I	T2UV00LD02DL	1,362.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A400/P630 MODEL 4P 110V DC	I	T2UV00LD10DL	1,362.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A/P MODEL 230V DC	I	T2UV00LD24DS	1,403.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR A400/P630 MODEL 4P 230V DC	I	T2UV00LD24DL	1,522.00

Under Voltage Trips With Delay For B Model

Item Description	Item Type	Catalogue No.	\$AU
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B MODEL UP TO 630A 230-240V AC	I	T2UV00A24DSA	605.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B MODEL UP TO 630A 110V AC	I	T2UV00A10DSA	833.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B MODEL UP TO 630A 200-220V AC	I	T2UV00A20DSA	833.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B MODEL UP TO 630A 380-415V AC	I	T2UV00A40DSA	833.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B MODEL UP TO 630A 440-450V AC	I	T2UV00A45DSA	833.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B MODEL UP TO 630A 24V DC	I	T2UV00D02DSA	1,021.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B MODEL UP TO 630A 110V DC	I	T2UV00D10DSA	1,021.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B800-1600 MODEL 110V AC	I	T2UV80A10DSA	1,033.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B800-1600 MODEL 380-415V AC	I	T2UV80A40DSA	1,033.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B800-1600 MODEL 440-450V AC	I	T2UV80A45DSA	1,033.00
TBP UNDER VOLTAGE TRIPS WITH 500ms DELAY FOR B MODEL UP TO 630A 230V DC	I	T2UV00D24DSA	1,396.00

Auxiliary

Item Description	Item Type	Catalogue No.	\$AU
TBP AUXILIARY WIRED FOR A/P MODEL 1 C/O MICRO SWITCH		T2AX00LML3RWA	248.00
TBP ALARM W/WIRE FOR A/P MODEL 1 C/O MICRO SWITCH LEFT SIDE		T2AL00LML3RWA	281.00

TemBreak PRO Internal Accessories for 160AF to 1600AF

Internal accessories are fitted by the user.

Accessory fitting combinations:

Internal accessories are fitted by the user. Each MCCB includes an internal left and right pocket. There are 2 "pocket spaces" in left pocket, and 2 "pocket spaces" in right pocket. AUX and AL use 1 pocket space each. SH and UV use 2 pocket spaces. Auxiliary contacts and Alarm contacts fit in the left and right pockets. Shunt trips and Under voltage trips fit in the right pocket only. One Shunt Trip OR one Under Voltage trip can be installed in an MCCB, not both at the same time, as they occupy the same position. 160 AF and 250 AF MCCBs have the same accessory capacities.

4 x AUX across both left and right pockets - Pockets now full. 3 x AUX and 1 x AL - Pockets now full. 1 x AUX and 1 x AL in left and 1 x AUX and 1 x AL in right pocket - Pockets now full. 1 x AUX or 1 AL in Left pocket, 1 x SH only or 1 x UV only in right pocket - Pockets now full.

Auxiliary Switches AX

Auxiliary switches operate only when an MCCB is switched OFF and ON, but not when the MCCB trips. 1C/O = changeover auxiliaries are snap action microswitch types, and are rated for general purpose applications.

Item Description	Item Type	Catalogue No.	\$AU
TBP AUXILIARY SWITCH W/WIRE FOR A/P MODELS 1NO/NC		T2AX00LML3SWA	204.00
TBP AUXILIARY SWITCH FOR B MODEL 1NO HEAVY DUTY		T2AX00B1STA	219.00
TBP AUXILIARY SWITCH 1NC HEAVY DUTY		T2AX00B2STA	219.00
TBP AUXILIARY SWITCH FOR B MODEL 1C/O MICROCURRENT		T2AX00M3RTA	330.00
TBP AUXILIARY SWITCH FOR B MODEL 1C/O		T2AX00M3STA	202.00
TBP AUXILIARY SWITCH W/WIRE FOR B MODEL 1C/O		T2AX00M3SWA	219.00



T2AX00LML3SWA

Alarm Switches AL

Alarm switches operate only when an MCCB trips, but not when the MCCB is switched OFF and ON. 1C/O = changeover alarms are snap action microswitch types, and are rated for general purpose applications.

Item Description	Item Type	Catalogue No.	\$AU
TBP ALARM FOR A/P MODEL 1C/O LEFT SIDE MOUNTING WIRED		T2AL00LML3SWA	204.00
TBP ALARM SWITCH FOR B MODEL 1NO HEAVY DUTY		T2AL00B1STA	258.00
TBP ALARM SWITCH FOR B MODEL 1NC HEAVY DUTY		T2AL00B2STA	258.00
TBP ALARM SWITCH FOR B MODEL 1C/O MICROCURRENT	I	T2AL00M3RTA	279.00
TBP ALARM SWITCH FOR B MODEL 1C/O		T2AL00M3STA	203.00
TBP ALARM SWITCH FOR B MODEL 1C/O WIRED		T2AL00M3SWA	219.00
TBP ALARM FOR A/P MODEL 1C/O RIGHT SIDE MOUNTING WIRED	I	T2AL00LMR3SWA	210.00



T2AL00LML3SWA

1



T2SH00D02TA

Shunt Trips SH

Item Description	Item Type	Catalogue No.	\$AU
TBP SHUNT TRIP FOR A/P MODEL W/WIRE 12V DC	I	T2SH00LD01WA	370.00
TBP SHUNT TRIP FOR B MODELS 12V DC		T2SH00D01TA	381.00
TBP SHUNT TRIP FOR B MODELS 24V DC		T2SH00D02TA	380.00
TBP SHUNT TRIP FOR A/P MODEL W/WIRE 48V DC	I	T2SH00LD04WA	381.00
TBP SHUNT TRIP FOR A/P MODEL W/WIRE 200-240V DC	I	T2SH00LD20WA	381.00
TBP SHUNT TRIP FOR B160 1P 24V DC		T2SH16D02WA	381.00
TBP SHUNT TRIP FOR B MODELS 48V DC		T2SH00D04TA	381.00
TBP SHUNT TRIP SHUNT TRIP W/WIRE 110-120V AC	I	T2SH00LA10WA	381.00
TBP SHUNT TRIP FOR B160 1P MODEL 48V DC		T2SH16D04WA	395.00
TBP SHUNT TRIP FOR B MODELS 110V DC		T2SH00D10TA	381.00
TBP SHUNT TRIP FOR A/P MODELS W/WIRE 380-450V AC	I	T2SH00LA40WA	381.00
TBP SHUNT TRIP FOR B MODELS 230V DC	I	T2SH00D20TA	381.00
TBP SHUNT TRIP FOR B MODELS 110V AC		T2SH00A10TA	381.00
TBP SHUNT TRIP FOR B160 1P 110V AC	I	T2SH16A10WA	381.00
TBP SHUNT TRIP FOR B MODELS 240V AC		T2SH00A20TA	381.00
TBP SHUNT TRIP FOR B160 1P 240V AC	I	T2SH16A20WA	381.00
TBP SHUNT TRIP FOR B MODELS 415V AC		T2SH00A40TA	381.00
TBP SHUNT TRIP FOR B160 1P MODEL 415V AC	I	T2SH16A40WA	395.00

Under Voltage Trips

UVTs for 20 to 1600A MCCBs. UVTs are an instantaneous type. For the complete range of time delay types refer NHP.

Under Voltage Trips Instantaneous for B160 to B400

T2UV00A40NTA

Item Description	Item Type	Catalogue No.	\$AU
TBP UVT INST FOR B160 TO B400 24V DC		T2UV00D02NTA	404.00
TBP UVT INST FOR B MODELS UP TO 800A 48V DC	I	T2UV00D04NTA	419.00
TBP UVT INST FOR B160 TO B400 110V DC	I	T2UV00D10NTA	475.00
TBP UVT INST FOR B160 TO B400 230V DC	I	T2UV00D20NTA	404.00
TBP UVT INST FOR B160 TO B400 100V AC		T2UV00A10NTA	404.00
TBP UVT INST FOR B160 TO B400 240V AC		T2UV00A20NTA	404.00
TBP UVT INST FOR B160 TO B400 415V AC		T2UV00A40NTA	404.00

Under Voltage Trips Instantaneous for B800 to B1600

T2UV80D10NTA

Item Description	Item Type	Catalogue No.	\$AU
TBP UVT INST FOR B800-1600 MODEL 24V DC		T2UV80D02NTA	404.00
TBP UVT INST FOR B800-1600 MODEL 110V DC	I	T2UV80D10NTA	404.00
TBP UVT INST FOR B160 TO B400 230V DC	I	T2UV80D20NTA	419.00
TBP UVT INST FOR B800-1600 MODEL 110V AC		T2UV80A10NTA	404.00
TBP UVT INST FOR B800-1600 MODEL 240V AC		T2UV80A20NTA	404.00
TBP UVT INST FOR B800-1600 MODEL 415V AC	I	T2UV80A40NTA	404.00



T2UV00LA40NWA

Item Description	Item Type	Catalogue No.	\$AU
TBP UVT INST FOR A/P MODELS W/WIRE 24V DC	I	T2UV00LD02NWA	404.00
TBP UVT INST FOR A/P MODELS W/WIRE 100-120V DC	I	T2UV00LD10NWA	404.00
TBP UVT INST FOR A/P MODELS W/WIRE 200-240V DC	I	T2UV00LD20NWA	404.00
TBP UVT INST FOR A/P MODELS W/WIRE 100-120V AC	I	T2UV00LA10NWA	404.00
TBP UVT INST FOR A/P MODELS W/WIRE 200-240V AC	I	T2UV00LA20NWA	404.00
TBP UVT INST FOR A/P MODELS W/WIRE 380-450V AC	I	T2UV00LA40NWA	404.00

TemBreak PRO External Accessories for 160AF to 1600AF

All accessories are customer fit.

Toggle Lock Padlock Attachment - Non Captive

The padlocking attachment is installed to the MCCB toggle. While a padlock is fitted it cannot be removed. Allows up to 3 x 6mm padlocks or a hasp. Lock OFF as standard.



T2HL25L

Item Description	Item Type	Catalogue No.	\$AU
TBP NON CAPTIVE TOGGLE LOCK 5 x 16.5mm SLOT FOR A/P 160/250		T2HL25L	78.00

Attached Busbar

Plated copper busbar sets. Bars are available as straight "SB" or flanged/Wide "WB" types. Wide and narrow terminal covers to suit are available.

Item Description	Item Type	Catalogue No.	\$AU
TBP STRAIGHT EXTENSION BARS 3P A/P 250 (QTY 6)		T2FB25L3SB	308.00
TBP FLANGED EXTENSION BARS 3P A/P 250 (QTY 6)	I	T2FB25L3WB	312.00

T2FB25L3SB



T2BA253LHA

Interpole barriers are sold in sets of 2 x rigid rubber barriers. Barrier sets are also supplied with each new MCCB.

Interpole Barriers

Item Description	Package (qty)	Item Type	Catalogue No.	\$AU
TBP INTERPOLE BARRIER FOR B250 (QTY 2)	2		T2BA253LHA	31.00
TBP INTERPOLE BARRIER FOR B400A-1600A (QTY 2)	2		T2BA403SHA	35.00

T2BA253LHA

Attached Flat Bar

Item Description	Poles	Package (qty)	Item Type	Catalogue No.	\$AU
TBP STRAIGHT EXTENSION BARS 1P B160 (QTY 2)	1	2		T2FB251BA	41.00
TBP STRAIGHT EXTENSION BARS 3P B160/250 ZS250 (QTY 6)	3	6		T2FB253BA	121.00
TBP STRAIGHT EXTENSION BARS 3P B400 (QTY 6)	3	6		T2FB463BA	376.00
TBP STRAIGHT EXTENSION BARS 4P B160/250 ZS250 (QTY 8)	4	8		T2FB254BA	162.00
TBP STRAIGHT EXTENSION BARS 4P B400 (QTY 8)	4	8		T2FB464BA	475.00

T2FB251BA



Tunnel Clamp Terminals

Item Description	Number of Poles	Package (qty)	Item Type	Catalogue No.	\$AU
TBP TUNNEL TERMINAL FIT 6-50mm ² FOR ZS125 (QTY 8)	4	8	I	T2FW1254A	547.00
TBP TUNNEL TERMINAL FIT 35-120mm ² FOR B250/ZS250 (QTY 8)	4	8	I	T2FW25L4B	654.00
TBP TUNNEL TERMINAL FIT 240mm ² FOR B/L400 (QTY 8)	4	8	I	T2FW40L4A	1,250.00

Rear Connection Terminal Studs

Item Description	Poles	Package (qty)	Item Type	Catalogue No.	\$AU
TBP REAR CONNECT STUDS FOR 3P B250/L250	3	6	I	T2RP253LA	829.00
TBP REAR CONNECT STUDS FOR 3P ZS250	3	6		T2RP253SB	581.00
TBP REAR CONNECT STUDS FOR 3P B400/L400	3	6	I	T2 RP 403 LA	1,822.00
TBP REAR CONNECT STUDS FOR 3P P630	3	6		T2RP463SA	2,020.00
TBP REAR CONNECT STUDS FOR 3P B800P/B800R	3	6		T2RP803LA	4,579.00
TBP REAR CONNECT STUDS FOR 3P B1000	3	6		T2RPX03SA	3,956.00
TBP REAR CONNECT STUDS FOR 4P ZS125	4	8	I	T2RP124SA	722.00
TBP REAR CONNECT STUDS FOR 4P ZS250	4	8	I	T2RP254SA	1,214.00

T2RP253SB



MCCB Mounting Accessories

Item Description	Item Type	Catalogue No.	\$AU
TBP DIN RAIL ADAPTOR FOR ZS125		T2 DA 12A	195.00

Add-on CTV Metering Blocks

Item Description	Poles	Item Type	Catalogue No.	\$AU
TB2 125/5A ADD ON CTV BLOCK 3P 125 AF	3	A	T2SW3P1251255K	1,632.00
TB2 150/5A ADD ON CTV BLOCK 3P 250 AF	3	A	T2SW3P2501505K	1,704.00
TB2 250/5A ADD ON CTV BLOCK 3P 250 AF	3	A	T2SW3P2502505K	1,704.00
TB2 400/5A ADD ON CTV BLOCK 3P 400/630 AF	3	A	T2SW3P6304005K	3,287.00
TB2 600/5A ADD ON CTV BLOCK 3P 400/630 AF	3	A	T2SW3P6306005K	2,228.00
TB2 400/5A ADD ON CTV BLOCK 4P 400/630 AF	4	A	T2SW4P6304005K	2,951.00

T2SW3P1251255K



1



T2SW3P630TC

CTV Metering Block Terminal Covers

Item Description	Poles	Item Type	Catalogue No.	\$AU
TB2 CTV BLOCK TERMINAL COVER 3P 125 AF	3	A	T2SW3P125TC	102.00
TB2 CTV BLOCK TERMINAL COVER 3P 250 AF	3	A	T2SW3P250TC	205.00
TB2 CTV BLOCK TERMINAL COVER 3P 400/630 AF	3	A	T2SW3P630TC	205.00
TB2 CTV BLOCK TERMINAL COVER 4P 400/630 AF	4	A	T2SW4P630TC	293.00



T2GB40N08A

Ground Fault Neutral Current Transformers (CT)

Item Description	Item Type	Catalogue No.	\$AU
TBP GROUND FAULT NEUTRAL PHASE CT 1000A FOR MCCB B1000		T2GB40N08A	1,297.00
TBP GROUND FAULT NEUTRAL PHASE CT 800A FOR MCCB B/L800/1000	I	T2GBX6N10A	1,494.00
TBP GROUND FAULT NEUTRAL PHASE CT 1250A FOR MCCB B1250	I	T2GBX6N12A	1,558.00



T2HS400SHAFT

Handle Shafts - Extension Type HS (Plastic)

Item Description	Item Type	Catalogue No.	\$AU
TBP SHAFT FOR HS HANDLE UP TO 250A	I	T2HS250SHAFT	77.00
TBP SHAFT FOR HS HANDLE B400 TO 1600		T2HS400SHAFT	832.00



2H6959CBA1

Control Wiring Plugs and Sockets for Plug-in MCCBs

Item Description	Item Type	Catalogue No.	\$AU
TBP PLUG IN AUXILIARY/ALARM MCCB SIDE	I	2H6959CAA1	70.00
TBP PLUG IN SHUNT TRIP/UNDERVOLTAGE TRIP MCCB SIDE	I	2H6959CBA1	70.00

OCR Sealing Kit

Item Description	Item Type	Catalogue No.	\$AU
TBP TRIP UNIT OCR SEAL KIT FOR ZS125/ZS250		T2SF25NTA	78.00

Moulded Case Circuit Breakers

TemBreak Mining MCCB

- 1000 VAC MCCB for power distribution and motor starting use in mines or tunnels
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- Full range of accessories for application flexibility
- 3 pole MCCB
- Compact 155 mm H, 68 mm D, 30 mm pole centres
- Fault interruption rating; 10 kA I_{cu} @ 1000 V AC
- Utilisation voltage ratings 1000 or 1100 V AC
- Thermal magnetic trip unit: adjustable thermal / adjustable magnetic
- Trip units; 50, 63, 100, 125 A

The TemBreak Mining Breakers VS range are designed for 1000V AC and 1100V AC applications such as mining and tunnel applications which require a robust durable breaker. The VS breaker offers a variety of ratings starting from 20A up to 1250A with short circuits up to 30kA, utilising thermal magnetic and electronic trip units to provide the optimum protection for power networks.

TemBreak Mining 125 AF

- 1000 VAC MCCB for power distribution and motor starting use in mines or tunnels
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- Full range of accessories for application flexibility
- 3 pole MCCB
- Compact 155 mm H, 68 mm D, 30 mm pole centres
- Fault interruption rating; 10 kA I_{cu} @ 1000 V AC
- Utilisation voltage ratings 1000 or 1100 V AC
- Thermal magnetic trip unit: adjustable thermal / adjustable magnetic
- Trip units; 50, 63, 100, 125 A

Thermal Magnetic 125 AF 10kA

3 Pole

I_n (A @45°C)	I_r , Adjustable (A)	I_m , Adjustable (A)	I_{cu} , 1000V (kA)	Poles	Item Type	Catalogue No.	\$AU
100	63 - 100	600 - 1200	10	3		VS125GJ3100	1,863.00
50	32 - 50	300 - 600	10	3	I	VS125GJ350	1,889.00
63	40 - 63	378 - 756	10	3		VS125GJ363	1,889.00
125	80 - 125	750 - 1250	10	3	I	VS125GJ3125	2,143.00



VS125GJ3100

Thermal Magnetic 125 AF 4kA

3 Pole

I_n (A @45°C)	I_r , Adjustable (A)	I_m , Adjustable (A)	I_{cu} , 1000V (kA)	Poles	Item Type	Catalogue No.	\$AU
20	12.5 - 20	120 - 240	4	3		VS125NJ320	1,817.00
32	20 - 32	192 - 384	4	3		VS125NJ332	1,817.00



VS125NJ320

1

TemBreak Mining 250 AF

- 1000 VAC MCCB for power distribution and motor starting use in mines or tunnels
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- Full range of accessories for application flexibility
- 3 pole MCCB
- Compact 165 mm H, 68 mm D, 35 mm pole centres
- Fault interruption rating; 10 kA I_{cu} @ 1000 V AC
- Utilisation voltage ratings 1000 or 1100 V AC
- Thermal magnetic trip unit: adjustable thermal / adjustable magnetic
- Trip units; 160 A, 250 A

Thermal Magnetic 250 AF 10kA

3 Pole



VS250GJ3160

In (A @45°C)	I _r , Adjustable (A)	I _m , Adjustable (A)	I _{cu} , 1000V (kA)	Poles	Item Type	Catalogue No.	\$AU
160	100 - 160	960 - 2080	10	3		VS250GJ3160	2,583.00
250	160 - 250	1500 - 2500	10	3	I	VS250GJ3250	2,713.00

TemBreak Mining 400 AF

- 1000 VAC MCCB for power distribution and motor starting use in mines or tunnels
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- Full range of accessories for application flexibility
- 3 pole MCCB
- Compact 260 mm H, 140 mm D, 45 mm pole centres
- Fault interruption rating; 18 kA I_{cu} @ 1000 VAC
- Utilisation voltage ratings 1000 or 1100 VAC
- 5 dial electronic trip unit: Individual dial setting adjustments of LSI settings
- Options include PTA
- Trip units; 250 A, 400 A

Electronic 400 AF 18 kA

3 Pole



VS400NE3250K

In (A @45°C)	I _r , Adjustable (kA)	I _m , Adjustable (A)	I _{cu} , 1000V (kA)	Poles	Item Type	Catalogue No.	\$AU
250	100 - 250	-	12.5	3		VS400NE3250K	6,415.00
400	160 - 400	-	12.5	3		VS400NE3400K	6,817.00

TemBreak Mining 630 AF

- 1000 V AC MCCB for power distribution and motor starting use in mines or tunnels
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- Full range of accessories for application flexibility
- 3 pole MCCB
- 273 mm (H), 103 mm (D), 70 mm pole centres
- Fault interruption rating; 20 kA I_{cu} @ 1000 V AC
- Utilisation voltage ratings 1000 or 1100 V AC
- 5 dial electronic trip unit: Individual dial setting adjustments of LSI settings
- Options include GF or PTA
- Trip units; 630 A

Electronic 630 AF 20 kA

3 Pole

In (A @45°C)	I _r , Adjustable (kA)	I _m , Adjustable (A)	I _{cu} (kA)	Poles	Item Type	Catalogue No.	\$AU
630	315 - 630	-	18	3		VS630NE3630K	9,010.00
630	315 - 630	-	18	3	A	VS630NE3AG630K	12,552.00



VS630NE3630K

TemBreak Mining 800 AF

- 1000 VAC MCCB for power distribution and motor starting use in mines or tunnels
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- Full range of accessories for application flexibility
- 3 pole MCCB
- 370 mm (H), 120 mm (D), 70 mm pole centres
- Fault interruption rating; 30 kA I_{cu} @ 1000 VAC
- Utilisation voltage ratings 1000 or 1100 VAC
- 2 dial electronic trip unit: 7 preset characteristic curve selection dial and base current adjustment dial
- Options include GF or PTA
- Trip units; 800 A

Electronic 800 AF 30 kA

3 Pole

In (A @45°C)	I _r , Adjustable (kA)	I _m , Adjustable (A)	I _{cu} (kA @1.1kVAC)	Poles	Item Type	Catalogue No.	\$AU
800	320 - 800	-	30	3	I	VS800GE3800	14,077.00



VS800GE3800

TemBreak Mining 1250 AF

- 1000 VAC MCCB for power distribution and motor starting use in mines or tunnels
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status – maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- Full range of accessories for application flexibility
- 3 pole MCCB
- 370 mm (H), 120 mm (D), 70 mm pole centres
- Fault interruption rating; 30 kA I_{cu} @ 1000 VAC
- Utilisation voltage ratings 1000 or 1100 VAC
- 2 dial electronic trip unit: 7 preset characteristic curve selection dial and base current adjustment dial
- Options include GF or PTA
- Trip units; 1250 A

Electronic 1250 AF 30 kA 1000 V AC

3 Pole

In (A @45°C)	I _r , Adjustable (kA)	I _m , Adjustable (A)	I _{cu} , 1100V (kA @1.1kVAC)	Poles	Item Type	Catalogue No.	\$AU
1250	500 - 1250	-	30	3		VS1250NE31250K	20,729.00



VS1250NE31250K

Moulded Case Circuit Breakers

Terasaki TemBreak 1 Moulded Case Circuit Breakers



Terasaki TemBreak 1 Moulded Case Circuit Breakers (MCCBs) provide a power distribution and protection solution for industrial, commercial and mining applications.

Product Selection

The range consists of MCCBs ranging 0.7 to 3200A, across 4 Ampere Frame sizes, abbreviated "AF". The frame sizes are:

XM30PB: 0.7 to 12A, **400 AF:** 160 to 400A, **800 AF:** 630 to 800A, **1600 AF:** 1250 to 160 A, **3200 AF:** 2000 to 3200A.

TemBreak 1 MCCBs consist of Hydraulic Magnetic (XM30PB), and electronic trip unit MCCBs. Complimentary product additions and various sizes are stocked by NHP.

XM30PB Motor Start MCCB

Dimensions: H 148 / W 78 / D 97mm, Hydraulic magnetic motor circuit protector. New **T1CF033SLNG** Line and Load clip-on terminal cover sets now available.

- 1 or 3 phase motor starting MCCB, MCC applications
- Current limiting device, reduces fault let through energy for increased installation safety
- Complies to AS / NZS 60947-2, IEC 60947-2
- Panel mount standard with plug-in option
- Wide range of accessories for application flexibility
- 3 pole MCCB
- Compact 148 mm H, 103 mm D, 25 mm pole centres
- Fault rating: 85 kA I_{cu} @ 415 VAC
- 100% I_{cu} / I_{cs}
- Utilisation ratings from 220 V to 525 VAC
- Hydraulic magnetic trip unit: fixed long time / fixed magnetic
- Trip units; 0.7, 1.4, 2.0, 2.6, 4.0, 5.0, 8.0, 10, 12 A



XM30PB073P

In (A @45°C)	AC3 kW - 240V AC	AC3 kW - 415V AC	Poles	Item Type	Catalogue No.	\$AU
0.7	-	0.2	3	I	XM30PB073P	828.00
10	2.2	4	3	I	XM30PB103P	828.00
12	-	5.5	3		XM30PB123P	828.00
1.4	0.2	0.5	3		XM30PB143P	828.00
2	-	0.75	3		XM30PB23P	828.00
2.6	0.4	1.1	3		XM30PB263P	828.00
4	0.75	1.5	3	I	XM30PB43P	828.00
5	-	2.2	3		XM30PB53P	828.00
8	-	3.7	3	I	XM30PB83P	828.00

Moulded Case Circuit Breakers

TemBreak1 Accessories

TemBreak1 Internal Accessories

TemBreak 1 internal accessories are NHP factory or branch fit on new MCCBs. TemBreak1 MCCBs allow one auxiliary or alarm contact assembly to be installed. For multiple auxiliary requirements, order those auxiliary types with multiple C/O contacts, for example 1 C/O or 2 C/O. For applications requiring both auxiliary and alarm contacts refer to Combination Auxiliary Alarm Contacts. One shunt trip OR one under voltage trip can be installed however both CANNOT be installed in the MCCB together as they occupy the same position.

Frame Size Key:

X2 = 250 AF, **X4** = 400 AF, **X6 - X8** = 630 / 800 AF, **X123 - X163** = 1250 / 1600 AF 3P, **X124 - X164** = 1250 / 1600 AF 4P, **X12 - X16** = 1250 / 1600 AF 3/4P, **X20 - X25** = 2000 / 3200 AF

Combination Auxiliary Alarm Contacts

Item Description	Item Type	Catalogue No.	\$AU
Alarm/Auxiliary Switch 1C Left/Right Side XM30PB AF	I	UXLB0008C	216.00



UXLB0008C

TemBreak1 External Accessories

Motor Operators

Padlockable in the OFF position on when used for MCCB sizes 800 to 1600A. Select motor by appropriate frame size and control voltage. Motors are operated electrically from a remote location or can be manually switched from the front. XMD motors offer superior ON-OFF-TRIP indication. XMC motors are used on many older TemBreak 1 transfer switches. A motor base support is required to be ordered with XMC4 and XMC6 motors - see listing below.

Item Description	Item Type	Catalogue No.	\$AU
TB1 XMD Motor Operator 110V DC XV630/800 AF	I	2H1299CAC	4,673.00
TB1 XMD Motor Operator 110V DC XV630/800 AF	I	2H1301CAC	4,673.00
TB1 XMD Motor Operator 24V DC XV630/800 AF	I	2H1302CAC	4,673.00
XMB Motor Operator 110 V AC XS/2000/2500/3200 AF	I	UXMB0006B	6,487.00
XMB Motor Operator 240 V AC XS/2000/2500/3200 AF	I	UXMB0008B	6,487.00
XMB Motor Operator 110 V DC XS/2000/2500/3200 AF	I	UXMB0009B	6,487.00



UXMB0009B

Handles - Direct Mount

Direct mount handles are door interlocking, and mount directly to the front of an MCCB. The handles are fixed depth types as they do not have a shaft. IP54 rated. Allows for padlocking in the OFF position, and field convertable for ON locking. Contact NHP for direct mount handles without door interlocking.

Item Description	Item Type	Catalogue No.	\$AU
Panel Mount Handle XS2000/2500/3200 AF	I	XFE10	2,990.00



XFE10

Handle - Plastic Extension Shaft Type IP55 Type T1HS

Item Description	Item Type	Catalogue No.	\$AU
Grey, IP55 handle + 356mm shaft	K	T1HS40R5GM	689.00



T1HS40R5GM

1

Handle - Plastic Extension Shaft Type IP65 Type T1HP

Supplied as a kit consisting of a panel mount handle, extension shaft (420mm to 630A / 445mm to 1600A) and MCCB mounting mechanism. Padlockable in the OFF position, able to be field converted to lock ON. Up to 3 padlocks or a hasp can be fitted. Door defeat standard. OCR setting dials visible while handle fitted. Door interlocking in the ON and OFF/Padlocked positions.



T1HP40R6BNA4

Item Description	Item Type	Catalogue No.	\$AU
HP Extension IP65 Grey/Black Handle/Shaft XM30PB AF		T1HP03R6BNA4	535.00
HP Extension IP65 Grey/Black Handle/Shaft XV400 AF		T1HP40R6BNA4	590.00

Handle - Metal Extension Shaft Type YASD

Supplied as a kit consisting of a panel mount handle, extension shaft and MCCB mounting mechanism. Padlockable in the OFF position only. Up to 3 padlocks or a hasp can be fitted. OCR setting dials visible while handle fitted. Note: Door interlocking while handle is ON. There is no door interlocking while handle is OFF or while padlocked OFF.



YASD22D

Item Description	Item Type	Catalogue No.	\$AU
YASD Extension IP65 Metal Handle/Shaft Kit TL100EM	A	YASD22	1,658.00
YASD Extension IP65 Metal Handle/Shaft Kit 400 AF		YASD34	1,760.00
YASD Extension IP65 Metal Handle/Shaft Kit TL100NJ	A	YASD22D	1,937.00

Handle Mechanism Padlock Attachment For Extension Handles

Allows an MCCB mounted handle mechanism to be padlocked, ensuring the MCCB cannot be operated, for example, when a switchboard door is open for maintenance.

Item Description	Item Type	Catalogue No.	\$AU
TB1 HP Handle Mechanism Padlock Off Device XM30PB	A	T1HP30PALK	75.00
Mechanical Interlocks – NHP Factory Fit - 3 Pole Walking Beam Interlock	I	UXKC0012A	3,552.00

Terminal Covers

Used for insulation protection for front connect and rear connect MCCBs. Front connect covers are suited for general applications. Covers supplied in sets of 2.



XM30TSC

Item Description	Item Type	Catalogue No.	\$AU
Front Connect Terminal Cover XM30PB AF (2 pcs)	I	T1CF033SLNG	55.00
XM30PB LineSide Screw Terminal Cover		XM30TSC	101.00

Toggle Padlock Attachment - Non Captive Type

The padlocking attachment is installed to the MCCB toggle. While a padlock is fitted it cannot be removed. Allows up to 3 x 6 mm padlocks or a hasp. Lock OFF as standard.



UXKB0001A

Item Description	Item Type	Catalogue No.	\$AU
Non Captive Padlock Attachment XS2000/2500/3200 AF		UXKB0001A	136.00

Toggle Extension Attachment

Used to extend the length of an MCCB to allow greater leverage on larger MCCBs.



UXHB0001B

Item Description	Item Type	Catalogue No.	\$AU
Handle Extension XS2000/2500/3200 AF	I	UXHB0001B	335.00

Ground Fault Neutral Current Transformer (CT)

Optional - needed where a 4th neutral pole is present.

Item Description	Item Type	Catalogue No.	\$AU
TB1 Ground Fault Neutral Phase Current Transformer 2000A	I	UXOY0006A	1,225.00
TB1 Ground Fault Neutral Phase Current Transformer 2500A	I	UXOY0007A	1,505.00



UXOY0006A

TO100BA to TB1 or TB2 Chassis Adaptor Kit

Used to allow XH125NJ or S125NJ TemBreak 2 MCCBs to be retro fitted to older chassis where TO100BA MCCBs are installed. An XH125NJ will be the best physical fit, and an S125NJ will mount, but be shallower than the old TO100BA (86mm deep) as it is 68mm deep.

Item Description	Item Type	Catalogue No.	\$AU
TB1 TO100BA Replace With S125NJ Adaptor Kit	I	TO400XS125	149.00



TO400XS125

OCR Sealing Kit

An optional OCR cover sealing kit that allows a compression seal device to be inserted.

Item Description	Item Type	Catalogue No.	\$AU
OCR Trip Unit Sealing Kit XS2000/2500/3200 AF	A	XS2000OCRSK	108.00



XS2000OCRSK

Air Circuit Breakers

Terasaki Air Circuit Breakers



- Super fast clearance of short circuits, minimises the thermal and mechanical stress on busbars during an electrical fault
- Unique 'Double Break' contact mechanism provides excellent mechanical and electrical endurance reducing life cycle costs
- High short time withstand rating (I) providing superior selectivity and ensuring a reliable power supply
- Isolating clusters on body, allow complete ACB circuit to be replaced and maintained without shutting down the switchboard
- On-board energy management monitoring which facilitates energy usage reporting

The Terasaki TemPower 2 AR series of Air Circuit Breaker is a mid to premium range, with ratings from 630 to 6300A. They are suited to general industry, mining, healthcare / hospitals, large commercial buildings, data centres and marine / ships. The range features breaking capacities from 65 to 120kA in both 3 and 4 pole and has a wide selection of accessories available.

Product Selection

Terasaki AR series ACBs can be purchased as either a basic pre-built standard item or as a custom built item.

Standard ACBs are kept on the shelf in a pre-built 3 pole configuration providing fast customer delivery. The ACB body (withdrawable part) and carriage (fixed part) are ordered separately according to the required carriage terminal configuration.

When selecting and ACB, it is necessary to follow the process defined below:

- 1 Amp rating (eg, 1600A) and breaking capacity (eg, 65kA)
- 2 Charging motor or no charging motor (NB: only available at 240V AC)
- 3 Carriage terminal configuration (eg, vertical top and horizontal bottom)

Contact NHP for further details on ordering a custom built Terasaki TemPower2 ACB.

ACB AGR11

ACB-AGR11 Specification:

AR-S type ACB body, 3 pole with TemPro PLUS overcurrent release (self powered type AGR11 with LSI Protection)

- Fixed or Withdrawable types available
- 3 pole only
- Vertical-Vertical tag arrangement
- 4 C/O auxiliary switch
- No communication capability
- **No other ACB configurations available**
- Compatible with TemPower2 customer-fit accessories, excluding ground fault CTs

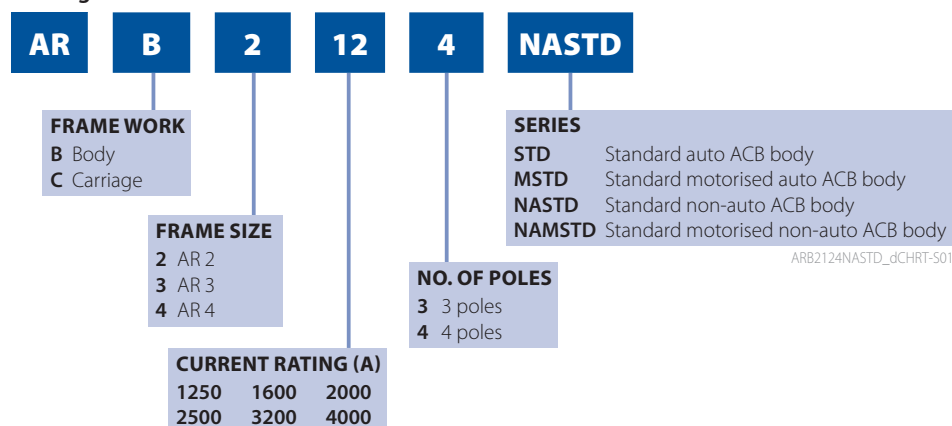
ACB Body with AGR11C

Item Description	Item Type	Catalogue No.	\$AU
AR2 ACB BODY 1250A 65kA AGR11C 3P FIXED VERTICAL-VERTICAL	I	ARB212BE3FVV	14,325.00
AR2 ACB BODY 1600A 65kA AGR11C 3P FIXED VERTICAL-VERTICAL	I	ARB216BE3FVV	14,462.00
AR2 ACB BODY 2000A 65kA AGR11C 3P FIXED VERTICAL-VERTICAL	I	ARB220BE3FVV	17,134.00
AR3 ACB BODY 2500A 85kA AGR11C 3P FIXED VERTICAL-VERTICAL	I	ARB325BE3FVV	18,043.00
AR3 ACB BODY 3200A 85kA AGR11C 3P FIXED VERTICAL-VERTICAL	I	ARB332BE3FVV	20,391.00

ACB Body & Carriage with AGR11C

Item Description	Item Type	Catalogue No.	\$AU
AR2 ACB BODY & CARRIAGE 1250A 65kA AGR11C 3P WITHDRAWABLE VERTICAL-VERTICAL	I	ARBC212BE3WDVV	20,060.00
AR2 ACB BODY & CARRIAGE 1600A 65kA AGR11C 3P WITHDRAWABLE VERTICAL-VERTICAL	I	ARBC216BE3WDVV	20,804.00
AR2 ACB BODY & CARRIAGE 2000A 65kA AGR11C 3P WITHDRAWABLE VERTICAL-VERTICAL	I	ARBC220BE3WDVV	23,477.00
AR3 ACB BODY & CARRIAGE 2500A 85kA AGR11C 3P WITHDRAWABLE VERTICAL-VERTICAL	I	ARBC325BE3WDVV	27,697.00
AR3 ACB BODY & CARRIAGE 3200A 85kA AGR11C 3P WITHDRAWABLE VERTICAL-VERTICAL	I	ARBC332BE3WDVV	30,046.00

Catalogue Number Construction



Standard ACBs

Standard ACB specification:

- AR-S type ACB body, 3 pole with TemPro PLUS overcurrent release (type AGR21BC-PG with 240V AC control voltage)
- 240V AC charging motor installed when the MSTD part numbers are ordered
- MODBUS communications capability (data monitoring)
- 240V AC continuous rated shunt trip
- 7 C/O auxiliary switch and IP41 door flange

Standard Auto ACB Body, 3 Pole

Standard ACB body, requires a standard carriage to suit.

Item Description	In (A @40°C)	Icu (kA @440VAC)	Poles	Item Type	Catalogue No.	\$AU
AR ACB Body Size 2 1250A 3P 65kA With AGR-21CL-PG Trip Unit	1250	65	3		ARB2123STD	18,227.00
AR ACB Body Size 2 1600A 3P 65kA With AGR-21CL-PG Trip Unit	1600	65	3		ARB2163STD	18,400.00
AR ACB Body Size 2 2000A 3P 65kA With AGR-21CL-PG Trip Unit	2000	65	3		ARB2203STD	21,801.00
AR ACB Body Size 3 2500A 3P 85kA With AGR-21CL-PG Trip Unit	2500	85	3		ARB3253STD	22,956.00
AR ACB Body Size 3 3200A 3P 85kA With AGR-21CL-PG Trip Unit	3200	85	3		ARB3323STD	25,945.00
AR ACB Body Size 4 4000A 3P 100kA With AGR-21CL-PG Trip Unit	4000	100	3	A	ARB4403STD	37,039.00



ARB3253STD

Standard Motorised Auto ACB Body, 3 Pole

Standard body with additional spring charge motor and closing coil. Requires a standard carriage to suit.

Item Description	In (A @40°C)	Icu (kA @440VAC)	Poles	Item Type	Catalogue No.	\$AU
AR ACB Body Size 2 1250A 3P 65kA With AGR-21CL-PG Trip Unit And 240V AC Spring Charge Motor	1250	65	3		ARB2123MSTD	20,060.00
AR ACB Body Size 2 1600A 3P 65kA With AGR-21CL-PG Trip Unit And 240V AC Spring Charge Motor	1600	65	3		ARB2163MSTD	20,237.00
AR ACB Body Size 2 2000A 3P 65kA With AGR-21CL-PG Trip Unit And 240V AC Spring Charge Motor	2000	65	3	A	ARB2203MSTD	23,636.00
AR ACB Body Size 3 2500A 3P 85kA With AGR-21CL-PG Trip Unit And 240V AC Spring Charge Motor	2500	85	3		ARB3253MSTD	24,792.00
AR ACB Body Size 3 3200A 3P 85kA With AGR-21CL-PG Trip Unit And 240V AC Spring Charge Motor	3200	85	3		ARB3323MSTD	27,516.00
AR ACB Body Size 4 4000A 3P 100kA With AGR-21CL-PG Trip Unit And 240V AC Spring Charge Motor	4000	100	3	A	ARB4403MSTD	38,374.00



ARB2123MSTD

1



ARB2123NASTD

Standard Non-Auto ACB Body, 3 Pole

Standard non-auto ACB body (NASTD) is a standard body with no trip unit. Requires a standard carriage to suit. These units are not available off the shelf and will be manufactured on request.

Item Description	In (A @40°C)	Icw (kA)	Poles	Item Type	Catalogue No.	\$AU
AR ACB Body Size 2 1250A 3P 65kA Non-Auto	1250	65kA for 1s / 50kA for 3s	3	A	ARB2123NASTD	9,485.00
AR ACB Body Size 2 1600A 3P 65kA Non-Auto	1600	65kA for 1s / 50kA for 3s	3	A	ARB2163NASTD	9,781.00
AR ACB Body Size 2 2000A 3P 65kA Non-Auto	2000	65kA for 1s / 50kA for 3s	3	A	ARB2203NASTD	13,133.00
AR ACB Body Size 3 2500A 3P 85kA Non-Auto	2500	85kA for 1s / 65kA for 3s	3	A	ARB3253NASTD	14,400.00
AR ACB Body Size 3 3200A 3P 85kA Non-Auto	3200	85kA for 1s / 65kA for 3s	3	A	ARB3323NASTD	17,493.00
AR ACB Body Size 4 4000A 3P 100KA Non-Auto	4000	100kA for 1s / 85kA for 3s	3	A	ARB4403NASTD	28,368.00

Standard Motorised Non-Auto ACB Body, 3 Pole

Standard non-auto ACB body (NASTD) is a standard body with no trip unit plus additional spring charge motor and closing coil. Requires a standard carriage to suit.



ARB2123NAMSTD

Item Description	In (A @40°C)	Icu (kA @440VAC)	Poles	Item Type	Catalogue No.	\$AU
AR ACB Body Size 2 1250A 3P 65kA Non-Auto With 240V AC Spring Charge Motor	1250	65	3	A	ARB2123NAMSTD	11,552.00
AR ACB Body Size 2 1600A 3P 65kA Non-Auto With 240V AC Spring Charge Motor	1600	65	3	A	ARB2163NAMSTD	11,754.00
AR ACB Body Size 2 2000A 3P 65kA Non-Auto With 240V AC Spring Charge Motor	2000	65	3	A	ARB2203NAMSTD	15,254.00
AR ACB Body Size 3 2500A 3P 85kA Non-Auto With 240V AC Spring Charge Motor	2500	85	3	A	ARB3253NAMSTD	16,393.00
AR ACB Body Size 3 3200A 3P 85kA Non-Auto With 240V AC Spring Charge Motor	3200	85	3	A	ARB3323NAMSTD	19,133.00
AR ACB Body Size 4 4000A 3P 100KA Non-Auto With 240V AC Spring Charge Motor	4000	100	3	A	ARB4403NAMSTD	30,915.00



NHP's ACB Total Care Package ensures peace of mind

Poorly maintained ACBs can lead to catastrophic product failure during operation. The consequences of this can be lost production, significant downtime, costly repairs, and financial penalties from government safety authorities if on-site personnel are injured.

In order to be able to help our customers' current challenges, NHP created the Total Care Package which includes year round support, an emergency back-up service, extended warranty, as well as many other beneficial features, all bundled into a small monthly payment.

Take advantage of NHP's Total Care Package and the peace of mind that comes from comprehensive product knowledge, best practice electrical services.

For more information, visit nhp.com.au/more/tcp

NHP ELECTRICAL ENGINEERING PRODUCTS
1300 NHP NHP | nhp.com.au | [f](#) [in](#) [t](#) [You Tube](#)



1



ARC2203VVSTD

Standard ACB Carriage, 3 Pole

Standard carriage, suitable for use with STD, MSTD, NASTD and NAMSTD ACB bodies.

Item Description	Top Terminals (orientation)	Bottom Terminals (orientation)	Item Type	Catalogue No.	SAU
AR Carriage Size 2 800/1250A 3P Vertical/Horizontal Terminals Std	Vertical	Horizontal		ARC2123VHSTD	7,227.00
AR Carriage Size 2 800/1250A 3P Horizontal/Horizontal Terminals Std	Horizontal	Horizontal		ARC2123HHSTD	7,298.00
AR Carriage Size 2 800/1250A 3P Vertical/Vertical Terminals Std	Vertical	Vertical		ARC2123VVSTD	7,298.00
AR Carriage Size 2 800/1250A 3P Horizontal/Vertical Terminals Std	Horizontal	Vertical	A	ARC2123HVSTD	7,367.00
AR Carriage Size 2 1600/2000A 3P Horizontal/Horizontal Terminals Std	Horizontal	Horizontal		ARC2203HHSTD	8,072.00
AR Carriage Size 2 1600/2000A 3P Horizontal/Vertical Terminals Std	Horizontal	Vertical		ARC2203HVSTD	8,072.00
AR Carriage Size 2 1600/2000A 3P Vertical/Horizontal Terminals Std	Vertical	Horizontal		ARC2203VHSTD	8,072.00
AR Carriage Size 2 1600/2000A 3P Vertical/Vertical Terminals Std	Vertical	Vertical		ARC2203VVSTD	8,072.00
AR Carriage Size 2 800/1250A 3P Front/Front Terminals Std	Front	Front		ARC2123FFSTD	8,557.00
AR Carriage Size 2 1600/2000A 3P Front/Front Terminals Std	Front	Front		ARC2203FFSTD	9,369.00
AR Carriage Size 3 2500/3200A 3P Horizontal/Horizontal Terminals Std	Horizontal	Horizontal		ARC3323HHSTD	12,168.00
AR Carriage Size 3 2500/3200A 3P Horizontal/Vertical Terminals Std	Horizontal	Vertical		ARC3323HVSTD	12,285.00
AR Carriage Size 3 2500/3200A 3P Vertical/Horizontal Terminals Std	Vertical	Horizontal		ARC3323VHSTD	12,285.00
AR Carriage Size 3 2500/3200A 3P Vertical/Vertical Terminals Std	Vertical	Vertical		ARC3323VVSTD	12,285.00
AR Carriage Size 3 2500/3200A 3P Front/Front Terminals Std	Front	Front		ARC3323FFSTD	14,475.00
AR Carriage Size 4 4000A 3P Vertical/Vertical Terminals Std	Vertical	Vertical		ARC4403VVSTD	18,293.00

TemPower2 Customer-Fit Accessories

Terasaki TemPower 2 ACB customer-fit accessories are used as replacements for existing ACBs or to add to a new ACB for project requirements.

The following accessories are available for customer installation.

- Mechanical interlocks (carriage components only, body components are factory fit.)
- Insulation barriers
- Lifting accessories
- Shutter padlock devices
- Modbus communication interfaces
- Mal-insertion devices
- Side fixing bolts
- Drawout handles
- IP41 door flange
- IP55 cover
- Automatic racking device
- Contact grease

All other accessories are factory-fit by NHP Service for assurance of quality and maintenance of warranty conditions.

Terasaki ACB Interpole Barriers

Interpole barriers are used to increase electrical separation when installing an ACB and fit between power connections to increase phase to phase air gap between power connections.



AR2INTPOLEBAR3P

Item Description	Item Type	Catalogue No.	SAU
AR ACB Interpole Barrier Size 2 3P 800-2000 AF	K	AR2INTPOLEBAR3P	311.00
AR ACB Interpole Barrier Size 3 3P 1600-3200 AF	K	AR3INTPOLEBAR3P	323.00
AR ACB Interpole Barrier Size 4 3P 4000 AF	K	AR4INTPOLEBAR3P	335.00
AR ACB Interpole Barrier Size 6 3P 5000-6300 AF	K	AR6INTPOLEBAR3P	361.00
AR ACB Interpole Barrier Size 2 4P 800-2000 AF	K	AR2INTPOLEBAR4P	426.00
AR ACB Interpole Barrier Size 3 4P 1600-3200 AF	K	AR3INTPOLEBAR4P	438.00
AR ACB Interpole Barrier Size 4 4P 4000 AF	K	AR4INTPOLEBAR4P	451.00
AR ACB Interpole Barrier Size 6 4P 5000-6300 AF	K	AR6INTPOLEBAR4P	471.00
AR ACB Interpole Barrier 3P Size 6	I	1H4864BAA	904.00
AR ACB Interpole Barrier 4P Size 6	I	1H4864BBA	924.00

Terasaki ACB Lifting Accessories

Terasaki ACB lifting accessories assist in safely and carefully moving ACBs.

- ACB lifting lugs to add lifting holes to ACB bodies
- ACB lifting trolley, appropriate for all size bodies and carriages
- ACB carriage features lifting holes as standard

Item Description	Item Type	Catalogue No.	\$AU
AR ACB Body Lifting Plates Size 2/3/4 800-4000 AF	K	AR234ACBLIFTLUGS	52.00
AR ACB Body Lifting Plates Size 6 5000-6300 AF	K	AR6ACBLIFTLUGS	95.00
AR ACB Lifting Trolley	I	ARACBTRUCK	25,682.00



ARACBTRUCK

Terasaki ACB Shutter Padlock Devices

Shutter padlock devices are used to lock main circuit safety shutters while an ACB body is removed. This prevents accidental touching of live terminals inside the ACB carriage.

Item Description	Item Type	Catalogue No.	\$AU
AR ACB Shutter Padlock Device 3/4P Size 2/3 800-3200 AF	K	AR23SHUTPADLOCK	471.00
AR ACB Shutter Padlock Device 3/4P Size 4 4000 AF	K	AR4SHUTPADLOCK	483.00
AR ACB Shutter Padlock Device 3P Size 6 5000-6300 AF	K	AR6SHUTPADLOCK3P	496.00
AR ACB Shutter Padlock Device 4P Size 6 5000-6300 AF	K	AR6SHUTPADLOCK4P	501.00



AR23SHUTPADLOCK

Terasaki ACB Installation Manuals

Item Description	Item Type	Catalogue No.	\$AU
AR ACB Installation Manual For AGR-21C Tempro Plus	I	ARAGR21BMANUAL	14.00



ARAGR21BMANUAL

Terasaki ACB Miscellaneous Accessories

Item Description	Item Type	Catalogue No.	\$AU
AR ACB IP55 Lockable Escutcheon Door Cover	K	ARDOORCOVERIP55	1,590.00



ARDOORCOVERIP55

Terasaki Ground Fault CTs

A Terasaki external ground fault 4th CT is required to be fitted to the switchboard neutral bar when the ground fault protection function is used. Also required with 4 pole ACBs for Restricted Earth Fault applications.

Item Description	Item Type	Catalogue No.	\$AU
AR ACB Ground Fault CT 200A	I	XCW0840LS02	352.00
AR ACB Ground Fault CT 2000A		XEC1640LS20	596.00

Loadcentre Assemblies

MOD6 Range of Loadcentres



MOD6 range of pole covers and loadcentres to suit MOD6 MCBs, RCDs and RCBOs

- Pole covers up to 4 poles and loadcentre up to 36 poles
- Surface mount or flush mount
- Insulated enclosure
- AS/NZS 3439.3

The MOD6 range of enclosures includes an insulated basic pole cover through to flush or surface mount insulated loadcentre. These enclosures are designed to suit MOD6 MCBs/RCDs and accessories for domestic and commercial applications.

MOD6 CSP Pole Covers

- IP30 rating
- RAL 7035 Grey
- 1, 2 and 4 Pole sealable

Insulated Surface Mount

No earth or neutral bars.



CSPC1

Poles	HxWxD (mm)	Item Type	Catalogue No.	\$AU
1	130 x 32 x 62		CSPC1	17.00
2	130 x 52 x 62		CSPC2	21.00
4	130 x 87 x 62		CSPC4	29.00
6	159 x 122 x 65		CSPC6	61.00
8	159 x 158 x 65		CSPC8	87.00

MOD6 CSB Loadcentres

Complete with pin type busbar comb, split neutral bars and earth bar.

- IP40 rating
- Split neutral and earth bars rated 100A
- Removable earth and neutral bar
- White or transparent door
- Door hinged at the top
- Supplied complete with busbar comb
- Base (ABS)
- Door (white -ABS), (transparent (polycarbonate)
- 8way- Neutral split 4/4 & 8way earth, 12way- Neutral split 5/3/3 & 12way earth
- 18way- Neutral split 9/3/3/3 & 18way earth, 24way- Neutral split 10/3/3/3/3 & 24way earth
- 36way- Neutral split 12/12/12 & 36way earth

Insulated Surface Mount White Door



CSB24SW

Poles	HxWxD (mm)	Item Type	Catalogue No.	\$AU
8	200 x 185 x 94		CSB08SW	109.00
12	200 x 256 x 97		CSB12SW	128.00
18	220 x 363 x 97		CSB18SW	190.00
24	326 x 269 x 97		CSB24SW	256.00
36	473 x 306 x 102		CSB36SW	328.00

Insulated Surface Mount Transparent Door



CSB36ST

Poles	HxWxD (mm)	Item Type	Catalogue No.	\$AU
8	200 x 185 x 94		CSB08ST	109.00
12	200 x 256 x 97		CSB12ST	128.00
18	220 x 363 x 97		CSB18ST	190.00
24	326 x 269 x 97		CSB24ST	256.00
36	473 x 306 x 102		CSB36ST	328.00

Insulated Flush Mount White Door

Poles	Base HxWxD (mm)	Cover HxWxD (mm)	Cutout HxW (mm)	Item Type	Catalogue No.	\$AU
12	211 x 270 x 66	246 x 304 x 29	199 x 259		CSB12FW	128.00
18	232 x 380 x 76	267 x 412 x 29	213 x 365		CSB18FW	190.00
24	304 x 270 x 76	358 x 305 x 29	311 x 259		CSB24FW	256.00
36	470 x 308 x 76	503 x 342 x 29	458 x 296		CSB36FW	328.00

CSB36FW

Insulated Flush Mount Transparent Door

Poles	Base HxWxD (mm)	Cover HxWxD (mm)	Cutout HxW (mm)	Item Type	Catalogue No.	\$AU
12	211 x 270 x 66	246 x 304 x 29	199 x 259		CSB12FT	128.00
18	232 x 380 x 76	267 x 412 x 29	213 x 365		CSB18FT	190.00
24	304 x 270 x 76	358 x 305 x 29	311 x 259		CSB24FT	256.00
36	470 x 308 x 76	503 x 342 x 29	458 x 296		CSB36FT	328.00

CSB12FT

Metal Backing Plate (Long) to suit CSB Flush Loadcentre

Width identical to loadcentre, extends height on one end by 150mm.

Item Description	HxWxD ((mm))	Item Type	Catalogue No.	\$AU
Metal Back Plate (Long), to suit CSB12 Flush Loadcentre (Mechanical Protection)	1 x 256 x 97		CSB12FMPL	64.00
Metal Back Plate (Long), to suit CSB18 Flush Loadcentre (Mechanical Protection)	1 x 256 x 97		CSB18FMPL	64.00
Metal Back Plate (Long), to suit CSB24 Flush Loadcentre (Mechanical Protection)	1 x 256 x 97		CSB24FMPL	73.00
Metal Back Plate (Long), to suit CSB36 Flush Loadcentre (Mechanical Protection)	1 x 256 x 97		CSB36FMPL	73.00

CSB18FMPL

MOD6 Loadcentre Packs

Pre-packaged MOD6 loadcentre complete with MCBs, mainswitch, safety-switches, pin type busbar comb and split neutral bars and earth bar.

- IP40 rating
- Split neutral and earth bars rated 100A
- Removable earth and neutral bar
- Door hinged at the top
- Supplied complete with busbar comb
- Base (ABS)
- Door (white -ABS), (transparent - polycarbonate)
- 8way - Neutral split 4/4 and 8way earth, 12way - Neutral split 5/3/3 and 12way earth
- 18way - Neutral split 9/3/3/3 and 18way earth, 24way - Neutral split 10/3/3/3 and 24way earth
- 36way - Neutral split 12/12/12 and 36way earth

Insulated Surface Mount Transparent Door, Main Switch Circuit Breaker

Item Description	HxWxD ((mm))	Item Type	Catalogue No.	\$AU
CSB Surface Mount Loadcentre Pack, 12-Way, Transparent Door with 63A MCB Main Switch, 3x16A MCB, 2x10A MCB, 2x40A 30mA 2P RCCB	200 x 256 x 97		MOD612PK2	619.00

MOD612PK2

Insulated Surface Mount Transparent Door, Main Switch Isolator

Item Description	HxWxD ((mm))	Item Type	Catalogue No.	\$AU
CSB Surface Mount Loadcentre Pack, 12-Way, Transparent Door with 80A Isolator Main Switch, 3x16A MCB, 2x10A MCB, 2x40A 30mA 2P RCCB	200 x 256 x 97		MOD612PKV2	610.00

MOD612PKV2

Loadcentre Assemblies

DIN-T Range of Loadcentres



- 2 to 72 poles
- Surface mount or flush mount
- Insulated and metal
- Weatherproof

The DIN-T range of enclosures offers a complete range from an insulated basic pole cover through to an insulated or metal weatherproof loadcentre. These enclosures are designed to suit DIN mount MCBs and accessories for commercial and industrial applications.

DTPC Pole Covers

Insulated Pole Covers

Surface Mounted Pole Covers

Not suitable for longbody RCBOs for example DSRCBH.



DTPC2LD

Poles	HxWxD (mm)	LockdinCut (Y / N)	Item Type	Catalogue No.	\$AU
2	139 x 51 x 61	Yes		DTPC2LD	31.00
4	139 x 88 x 61	Yes		DTPC4LD	38.00

Surface Mounted Pole Cover-Packs (Complete with MCB)

- Comes complete with captive locking device LockDIN™
- Suitable as meter isolator

C Curve



DTPC2LDCB

In (A)	Poles	Trip Curve	Icn (kA)	HxWxD (mm)	Item Type	Catalogue No.	\$AU
63	1	C	6	139 x 51 x 61		DTPC2LDCB	185.00
63	1	C	10	139 x 51 x 61		DTPC2LD631PK	197.00
63	3	C	6	139 x 88 x 61		DTPC4LDCB	423.00
63	3	C	10	139 x 88 x 61	A	DTPC4LD633PK	388.00

ILC Pole Covers

Larger Insulated pole cover to suit DIN style MCBs and RCBOs that have that extra bit of wiring room.

- Standard AS / NZS 3439-3
- Suit Din-T MCBs, DIN-SAFE RCDs and DIN-SAFE RCBOs
- IP40 rating
- Sealing option
- Option - Neutral and earth bars rated 100A
- RAL 7035 Grey impact resistant base (ABS)
- Transparent polycarbonate door

Surface Mounted Insulated Loadcentre



ILC4S

Poles	Colour (door)	HxWxD (mm)	Item Type	Catalogue No.	\$AU
4	Clear / Transparent	175 x 90 x 100		ILC4S	107.00
8	Clear / Transparent	175 x 170 x 120		ILC8S	131.00
4	No Door	175 x 90 x 100		ILC4SLD	117.00

ILC General Accessories



ILCSB

Item Description	Item Type	Catalogue No.	\$AU
ILC Lead Sealing Bracket		ILCSB	6.35

Surface Mounted Insulated Loadcentre Packs (Complete with MCB)

- Comes complete with captive locking device LockDIN™
- Suitable as meter isolator

C Curve

In (A)	Poles	Icn (kA)	HxWxD (mm)	Item Type	Catalogue No.	\$AU
80	1	10	175 x 90 x 100	K	ILC4SLDCB801P	606.00
63	3	10	175 x 90 x 100	K	ILC4SLDCB3P	485.00
80	3	10	175 x 90 x 100		ILC4SLDCB803P	1,579.00
100	3	10	175 x 90 x 100		ILC4SLDCB1003P	1,579.00



ILC4SLDCB3P

DIN-MODULA 150 Series

Insulated loadcentre.

- Standard AS/NZS 3439-3
- Suit Din-T MCBs, DIN-SAFE RCDs and DIN-SAFE RCBOs
- IP40 rating
- Max Load 63A
- 150mm centres between DIN rails
- 30mm clearance behind DIN rail
- RAL 7035 Grey impact resistant base (ABS)
- Transparent polycarbonate door
- Halogen free

Surface Mounted Insulated Loadcentre

Poles	Neutral (tunnels)	Earth (tunnels)	HxWxD (mm)	Item Type	Catalogue No.	\$AU
36	36	26	450 x 355 x 142		DM15036	503.00
54	36	26	600 x 355 x 142		DM15054	722.00
72	36	26	750 x 355 x 142	I	DM15072	951.00



DM15036

DIN-MODULA Weatherproof Series

Insulated Loadcentre.

- Standard AS/NZS 3439-3
- Suit Din-T MCBs, DIN-SAFE RCDs and DIN-SAFE RCBOs
- IP55-IP07 rating
- Max 100A load
- Door lock option
- 125mm centres between DIN rails
- Neutral and earth bars rated 100A
- Grey impact resistant base (polystyrene)
- Transparent polycarbonate door
- Halogen free

Surface Mounted Insulated Loadcentre

Poles	Neutral	Earth	HxWxD (mm)	Item Type	Catalogue No.	\$AU
36	24/12	18	500 x 285 x 138		DMWP36	602.00



DMWP36

1

NLC Loadcentre

Metal loadcentre.

- Standard AS / NZS 3439-3
- Suit Din-T MCBs, DIN-SAFE RCDs and DIN-SAFE RCBOs
- 1mm zinc annealed steel
- IP30 rating (IP40 with door)
- Polyester powder coated N42 grey
- Neutral and earth bars rated 100A
- Circuit schedule
- Door and lock option
- Flush escutcheon option
- E/N bars 2x25mm², remaining 16mm²



NLC8S

Surface Mounted Metal Loadcentre

Poles	HxWxD (mm)	Item Type	Catalogue No.	\$AU
8	245 x 268 x 68		NLC8S	237.00
12	245 x 418 x 68		NLC12S	275.00
15	245 x 418 x 68		NLC15S	314.00
18	245 x 493 x 68		NLC18S	341.00
21	245 x 568 x 68		NLC21S	357.00
24	245 x 693 x 68		NLC24S	462.00

Doors

Item Description	Item Type	Catalogue No.	\$AU
Door to suit NLC8 and TLC6 Grey		LD6/8	114.00
Door to suit NLC12 and TLC9 Grey		LD9/12	114.00
Door to suit NLC15 and TLC12 Grey		LD12/15	135.00
Door to suit NLC18 and TLC15 Grey		LD15/18	135.00
Door to suit NLC21 and TLC18 Grey		LD18/21	142.00
Door to suit NLC24 and TLC21 Grey		LD24	186.00



LD6/8

General Accessories

Item Description	Item Type	Catalogue No.	\$AU
NLC & TLC Door Locking Kit CL001		DSLK	54.00

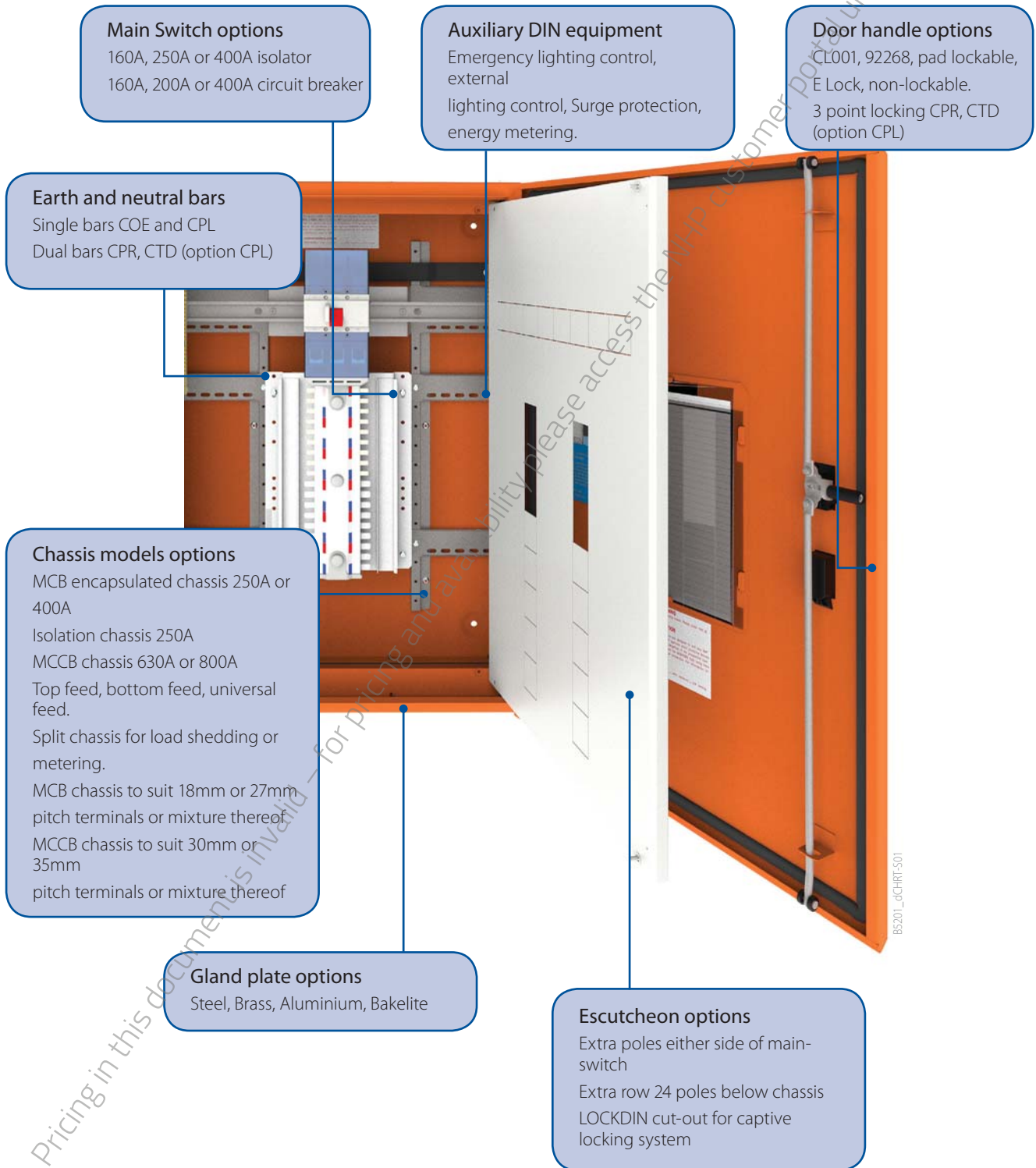


DSLK

The CONCEPT Panelboard Range

The Concept range has a panelboard model to suit just about all applications from standard configurations to a unique design. NHP's new design tool Xpress ProDesigner (XPD) can turn around a specific request into a custom design within minutes. XPD linked to NHP's national manufacturing centre can successfully deliver a customised, engineered solution from end to end.

1



NHP Concept Panelboard Selection guide



PANELBOARDS	CONCEPT ONE COE	CONCEPT PLUS CPL	CONCEPT PREMIER CPR	CONCEPT TOUGH CTD
IP rating	IP40	IP42 (IP52)	IP66	IP66
Width	530mm	600mm	600mm	800mm
Depth (including door)	153mm	200mm	240mm	300mm
Mild Steel colours	Light Grey RAL7035	N42 Storm Grey X15 Orange	N42 Storm Grey X15 Orange	X15 Orange
Stainless steel colours	-	-	X15 Orange Natural (No4)	X15 Orange Brushed (No4)
Material Mild Steel	1mm	1.6mm	1.6mm	2.0mm
316 Stainless steel	-	-	1.6mm	2.0mm
MCB Type	MOD6/ DIN-T	DIN-T	DIN-T	DIN-T
MCB Chassis Type	Encapsulated	NC Encapsulated GB-Isolation option	NC Encapsulated GB-Isolation option	NC Encapsulated GB-Isolation option
MCB Chassis Rating	250A	250A	250A, 400A	250A, 400A
MCB Pole Capacity	24-84	24-96	24-96	24-96
Isolator Main Switch	160A, 250A	160A, 250A	160A, 250A, 400A	160A, 250A, 400A
MCCB Main Switch	160A, 200A	160A, 200A	160A, 200A, 300A	160A, 200A, 300A
Spare DIN rail	16 poles	18 poles	18 poles	18 poles
Extra row DIN rail 24 Poles	-	Option	Option	Option
Split, Hybrid chassis	-	Option	Option	Option
Metering	-	Option	Option	Option
MCB captive locking "LOCKDIN"	-	-	Option	Option
MCCB Type	-	-	160AF, 250AF	160AF, 250AF
MCCB Chassis Type	-	-	XEP, XAP	XEP, XAP
MCCB Chassis Rating	-	-	630A	630A
MCCB Pole Capacity	-	-	18-72	18-72
Door hinged	RH	RH	RH	RH
Escutcheon hinged	No	Yes	Yes	Yes
Door handle	Semi flush S/handle	Semi flush S/handle	Semi flush S/handle	L Handle
3 Point locking	-	Option	Standard	Standard
Door lock CL001	Standard	Standard	Standard	-
Door lock 92268 or 42886	Option	Option	Option	-
Door lock non-locking	Option	Option	Option	-
PWD lock "E-Lock"	Option	Option	Option	-
Padlockable	Option	Option	Option	Standard
Page	121	123	130	136

B52_d5ELN-501

Panelboards

CONCEPT ONE Panelboards

- Standard AS/NZS 61439-3
- Compact 160 A or 250 A main switch
- 24, 36, 48, 60 and 84-Way
- Knockouts for up to 16 modules of DIN equipment
- Semi flush door swing handle

The Concept One range is an economical indoor panelboard designed for the commercial applications.

Concept One Panelboard COE

The light commercial panelboard for MOD6 and DIN-T MCBs.

These panelboards come complete with 250A encapsulated top feed chassis and earth neutral bars, powder coated to RAL7035 Light Grey.

Width 530mm, depth 153mm including door 20mm excluding door handle.

No Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		COE-24-LG	1,422.00
36	864	4		COE-36-LG	1,629.00
48	864	4		COE-48-LG	1,838.00
60	1080	5		COE-60-LG	2,044.00
84	1296	6		COE-84-LG	2,460.00



COE-24-LG

160A Isolator Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		COE-24M160-LG	1,698.00
36	864	4		COE-36M160-LG	1,906.00
48	864	4		COE-48M160-LG	2,114.00
60	1080	5		COE-60M160-LG	2,320.00
84	1296	6		COE-84M160-LG	2,737.00



COE-24M160-LG

250A Isolator Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
36	864	4		COE-36M250-LG	2,114.00
48	864	4		COE-48M250-LG	2,320.00
60	1080	5		COE-60M250-LG	2,529.00
84	1296	6		COE-84M250-LG	2,946.00



COE-36M250-LG

160A MCCB Main Switch- Adjustable 100-160A

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	COE24MCCB160LG	2,252.00
36	864	4	K	COE36MCCB160LG	2,460.00
48	864	4	K	COE48MCCB160LG	2,668.00
60	1080	5	K	COE-60MCCB160-LG	2,874.00
84	1296	6	K	COE-84MCCB160-LG	3,290.00



COE24MCCB160LG

200A MCCB Main Switch- Adjustable 125-200A

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
36	864	4	K	COE36MCCB200LG	2,598.00
48	864	4	K	COE48MCCB200LG	2,806.00
60	1080	5	K	COE60MCCB200LG	3,014.00
84	1296	6	K	COE84MCCB200LG	3,428.00



COE36MCCB200LG

1

Concept One Panelboard Accessories

Mounted to either top, bottom or side of Concept One or mounted separately. Width 530mm, depth 153mm includes door 20mm excluding door handle.

Accessory Modules**Cutout Escutcheon**

COEACC-21-LG

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
21	432	2		COEACC-21-LG	1,007.00
42	432	2		COEACC-42-LG	1,034.00
63	648	3		COEACC-63-LG	1,312.00

Blank Escutcheon

COEACC-2M-ELG

H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
432	2		COEACC-2M-ELG	951.00
648	3		COEACC-3M-ELG	1,257.00

Gear Trays

COEGT-2M

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT ONE Gear Tray, suits 2M-432 mm Enclosure, White		COEGT-2M	133.00
CONCEPT ONE Gear Tray, suits 3M-648 mm Enclosure, White		COEGT-3M	207.00

Flush Kits

COEFK-4MLG

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT ONE Flush Kit to suit 3M-648 mm Enclosure, Light Grey (RAL 7035)		COEFK-3MLG	507.00
CONCEPT ONE Flush Kit to suit 4M-864 mm Enclosure, Light Grey (RAL 7035)		COEFK-4MLG	537.00
CONCEPT ONE Flush Kit to suit 5M-1080 mm Enclosure, Light Grey (RAL 7035)		COEFK-5MLG	581.00
CONCEPT ONE Flush Kit to suit 6M-1296 mm Enclosure, Light Grey (RAL 7035)	I	COEFK-6MLG	610.00

Gland Plates

COEAEGPV

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT ONE End Plate, Steel, Light Grey	I	CECEECMSG	31.00
CONCEPT ONE End Plate, Open	I	CECEECMSGA	31.00
CONCEPT ONE PVC gland plate	I	CECEGPPV5	21.00
CONCEPT ONE Metal Gland Plate	I	CECEGPM51LG	25.00
CONCEPT ONE End cap assembly complete Metal gland plate	I	COEAEGMS	63.00
CONCEPT ONE End cap assembly complete PVC gland plate	I	COEAEGPV	63.00

General Accessories

COEEN-24

Item Description	Item Type	Catalogue No.	\$AU
24 Way earth and neutral bar mounting kit (includes bars)	K	COEEN-24	135.00
36 Way earth and neutral bar mounting kit (includes bars)	K	COEEN-36	170.00
48 Way earth and neutral bar mounting kit (includes bars)	K	COEEN-48	202.00
60 Way earth and neutral bar mounting kit (includes bars)	K	COEEN-60	236.00
84 Way earth and neutral bar mounting kit (includes bars)	K	COEEN-84	303.00

CONCEPT PLUS Range - CPL

Standard Panelboard - CPL

NC 250A busbar chassis top feed 3P



Isolation Panelboard - CPLG

Isolation chassis GB 250A busbar chassis top feed 3P,
Busbar tee-off can be isolated prior to fitting or removing MCBs



X-Row Panelboard - CPLX

Extra row 24 poles of DIN at bottom of
board for general DIN accessories



Energy metering Panelboard - CPLMS

Single energy meter monitoring total board
consumption



Dual Energy metering Panelboard - CPLMD

Dual energy meter monitoring Light and
power circuits separately



For other options contact NHP

- Compact NHP Concept POWERBUS System
- Split chassis for load shedding or metering
- Other Main switch options
- Surge protection
- Emergency lighting control
- External lighting control

CPL Panelboards are available in either Grey or Orange options.

CPL Panelboards can be fitted with 160A or 250A isolator main switch or 160A or 200A MCCB main switch.*

*excludes metering CPLM Panelboards

Panelboards

CONCEPT PLUS Panelboard



- Standard AS/NZS 61439-3
- Option - Compact 160 A or 250 A main switch
- Option - Isolator or circuit breaker main switch
- Modular sizes up to 96-Way
- Knockouts for up to 18 modules DIN equipment
- Accessory modules
- Removable gland plates
- Door fitted independent of escutcheon
- Right hand door hinging
- Semi flush door swing handle
- IP42 (option IP52)
- Chassis tee-off isolator option

The Multi-Purpose Panelboard for DIN-T MCBs.

The Concept Plus range is an general purpose IP 42 indoor panelboard designed for the commercial and industrial sectors. Concept Plus is a modular design that will accept DIN-T circuit breakers and associated accessory devices.

Product Selection

Boards available in 2 colour options;

- Grey
- Orange
- Simply swap "G" with "O" in item number for colour changes.

Concept Plus Panelboard CPL

The multi-purpose panelboard for DIN-T MCBs.

These panelboards come complete with encapsulated NC top feed chassis. Width 600mm, depth 200 mm includes door 20mm excluding door handle.

Grey - Mild Steel

No Main Switch



CPL-24-G

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		CPL-24-G	1,896.00
36	864	4		CPL-36-G	2,103.00
48	864	4		CPL-48-G	2,380.00
60	1080	5		CPL-60-G	2,723.00
72	1296	6		CPL-72-G	3,137.00
84	1296	6		CPL-84-G	3,550.00
96	1512	7		CPL-96-G	4,032.00

160A Main Switch



CPL-24M160-G

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		CPL-24M160-G	2,311.00
36	864	4		CPL-36M160-G	2,517.00
48	864	4		CPL-48M160-G	2,793.00
60	1080	5		CPL-60M160-G	3,137.00

250A Main Switch



CPL-36M250-G

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
36	864	4	K	CPL-36M250-G	2,723.00
48	864	4	K	CPL-48M250-G	3,000.00
60	1080	5	K	CPL-60M250-G	3,344.00
72	1296	6	K	CPL-72M250-G	3,757.00
84	1296	6	K	CPL-84M250-G	4,171.00
96	1512	7	K	CPL-96M250-G	4,652.00

160A MCCB Main Switch - Adjustable 100A - 160A

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPL24MCCB160G	2,793.00
36	864	4	K	CPL36MCCB160G	3,000.00
48	864	4	K	CPL48MCCB160G	3,275.00
60	1080	5	K	CPL60MCCB160G	3,621.00
72	1296	6	K	CPL72MCCB160G	4,032.00
84	1296	6	K	CPL84MCCB160G	4,447.00
96	1512	7	K	CPL96MCCB160G	4,929.00



CPL24MCCB160G

200A MCCB Main Switch - Adjustable 125A - 200A

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPL24MCCB200G	2,931.00
36	864	4	K	CPL36MCCB200G	3,137.00
48	864	4	K	CPL48MCCB200G	3,413.00
60	1080	5	K	CPL60MCCB200G	3,757.00
72	1296	6	K	CPL72MCCB200G	4,171.00
84	1296	6	K	CPL84MCCB200G	4,584.00
96	1512	7	K	CPL96MCCB200G	5,067.00



CPL24MCCB200G

Orange - Mild Steel

No Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		CPL-24-O	1,896.00
36	864	4		CPL-36-O	2,103.00
48	864	4		CPL-48-O	2,380.00
60	1080	5		CPL-60-O	2,723.00
72	1296	6		CPL-72-O	3,137.00
84	1296	6		CPL-84-O	3,550.00
96	1512	7		CPL-96-O	4,032.00



CPL-24-O

160A Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		CPL-24M160-O	2,311.00
36	864	4		CPL-36M160-O	2,517.00
48	864	4		CPL-48M160-O	2,793.00
60	1080	5		CPL-60M160-O	3,137.00



CPL-24M160-O

250A Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
36	864	4	K	CPL-36M250-O	2,723.00
48	864	4	K	CPL-48M250-O	3,000.00
60	1080	5	K	CPL-60M250-O	3,344.00
72	1296	6	K	CPL-72M250-O	3,757.00
84	1296	6	K	CPL-84M250-O	4,171.00
96	1512	7	K	CPL-96M250-O	4,652.00



CPL-36M250-O

160A MCCB Main Switch - Adjustable 100A - 160A

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPL24MCCB160O	2,793.00
36	864	4	K	CPL36MCCB160O	3,000.00
48	864	4	K	CPL48MCCB160O	3,275.00
60	1080	5	K	CPL60MCCB160O	3,621.00
72	1296	6	K	CPL72MCCB160O	4,032.00
84	1296	6	K	CPL84MCCB160O	4,447.00
96	1512	7	K	CPL96MCCB160O	4,929.00



CPL24MCCB160O

1



CPL24MCCB2000

200A MCCB Main Switch - Adjustable 125A - 200A

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPL24MCCB2000	2,931.00
36	864	4	K	CPL36MCCB2000	3,137.00
48	864	4	K	CPL48MCCB2000	3,413.00
60	1080	5	K	CPL60MCCB2000	3,757.00
72	1296	6	K	CPL72MCCB2000	4,171.00
84	1296	6	K	CPL84MCCB2000	4,584.00
96	1512	7	K	CPL96MCCB2000	5,067.00

Concept Plus Panelboard CPLG with GB Isolation Chassis

The multi-purpose isolation panelboard for DIN-T MCBs.

These panelboards come complete with GB isolation top feed chassis allowing each tee-off on the chassis to be separately isolated.

Width 600mm, depth 200mm includes door 20mm excluding door handle.

Available in either Grey or Orange, simply substitute "G" with "O".

Grey - Mild Steel

No Main Switch



CPLG-24-G

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		CPLG-24-G	2,720.00
36	864	4		CPLG-36-G	3,083.00
48	864	4		CPLG-48-G	3,590.00
60	1080	5		CPLG-60-G	4,097.00
72	1296	6	A	CPLG-72-G	4,676.00
84	1296	6	A	CPLG-84-G	5,258.00
96	1512	7	A	CPLG-96-G	5,982.00

Concept Plus Panelboard CPLX (Extra Row DIN Rail Below Chassis - 24 Poles)

The multi-purpose panelboard for DIN-T MCBs (with extra row DIN rail).

These panelboards come complete with an encapsulated top fed NC chassis and an extra row of DIN rail at the bottom of the board.

Width 600mm, depth 200mm includes door 20mm excluding door handle.

Available in either Grey or Orange, simply substitute "G" with "O".

Grey - Mild Steel

No Main Switch



CPLX-30-G

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
30	864	4		CPLX-30-G	2,343.00
48	1080	5		CPLX-48-G	2,586.00
72	1512	7		CPLX-72-G	3,344.00
96	1728	8		CPLX-96-G	4,239.00

Concept Plus with Single Energy Metering

The energy metering panelboard for DIN-T MCBs. These panelboards offer a compact energy metering solution utilising the EM270 DIN energy meter. The EM270 offers Modbus RTU (serial) communications protocol with 2 pulse outputs.

Width 600mm, depth 200mm includes door 20mm excluding door handle.

Available in either Grey or Orange, simply substitute "G" with "O".

Grey - Mild Steel

250A Main Switch



CPLMS-24M250-G

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	864	4		CPLMS-24M250-G	6,615.00
36	864	4	A	CPLMS-36M250-G	6,892.00
48	1080	5	A	CPLMS-48M250-G	7,167.00
60	1296	6	A	CPLMS-60M250-G	7,443.00
72	1296	6		CPLMS-72M250-G	7,719.00
84	1512	7	A	CPLMS-84M250-G	7,995.00
96	1512	7	A	CPLMS-96M250-G	8,269.00

Orange - Mild Steel

250A Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	864	4	A	CPLMS-24M250-O	6,615.00
36	864	4		CPLMS-36M250-O	6,892.00
48	1080	5		CPLMS-48M250-O	7,167.00
72	1296	6		CPLMS-72M250-O	7,719.00



CPLMS-24M250-O

Concept Plus with Dual Energy Metering

The dual energy metering panelboard for DIN-T MCBs separately monitors light and power. These panelboards offer a compact energy metering solution utilising the EM270 DIN energy meter via Modbus RTU (serial) communications protocol with 2 pulse outputs.

Width 600mm, depth 200mm includes door 20mm excluding door handle.

Available in either Grey or Orange, simply substitute "G" with "O".

Grey - Mild Steel

250A Main Switch

Poles (total)	Light Poles	Power Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	12	12	864	4	A	CPLMD-1212M250-G	6,892.00
36	12	24	1080	5		CPLMD-1224M250-G	7,167.00
36	18	18	1080	5	A	CPLMD-1818M250-G	7,167.00
48	18	30	1080	5		CPLMD-1830M250-G	7,443.00
48	24	24	1080	5		CPLMD-2424M250-G	7,443.00
60	18	42	1296	6		CPLMD-1842M250-G	7,719.00
60	30	30	1296	6	A	CPLMD-3030M250-G	7,719.00
72	24	48	1512	7		CPLMD-2448M250-G	7,995.00
72	36	36	1512	7	A	CPLMD-3636M250-G	7,995.00
84	30	54	1512	7	A	CPLMD-3054M250-G	8,269.00
84	42	42	1512	7	A	CPLMD-4242M250-G	8,269.00
96	36	60	1728	8		CPLMD-3660M250-G	8,544.00
96	48	48	1728	8	A	CPLMD-4848M250-G	8,544.00



CPLMD-1212M250-G

Orange - Mild Steel

250A Main Switch

Poles (total)	Light Poles	Power Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	12	12	864	4		CPLMD-1212M250-O	6,892.00
36	12	24	1080	5		CPLMD-1224M250-O	7,167.00
36	18	18	1080	5	A	CPLMD-1818M250-O	7,167.00
48	18	30	1080	5		CPLMD-1830M250-O	7,443.00
48	24	24	1080	5		CPLMD-2424M250-O	7,443.00
60	18	42	1296	6		CPLMD-1842M250-O	7,719.00
60	30	30	1296	6		CPLMD-3030M250-O	7,719.00
72	24	48	1512	7		CPLMD-2448M250-O	7,995.00
72	36	36	1512	7	A	CPLMD-3636M250-O	7,995.00
84	30	54	1512	7		CPLMD-3054M250-O	8,269.00
84	42	42	1512	7	A	CPLMD-4242M250-O	8,269.00
96	36	60	1728	8		CPLMD-3660M250-O	8,544.00
96	48	48	1728	8		CPLMD-4848M250-O	8,544.00



CPLMD-1212M250-O

CPL Accessory Modules

Mounted to either top, bottom or side of Concept Plus or mounted separately. Width 600mm, depth 200mm includes door 20mm excluding door handle.

E/N bars not included.

Accessory Modules, Grey, Mild Steel

Horizontal DIN Cutout Escutcheon

Poles	Height (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	432	2		CPLACC-24-G	1,249.00
48	432	2		CPLACC-48-G	1,312.00
72	648	3		CPLACC-72-G	1,449.00



CPLACC-24-G

1



CPLACC2MEG

Blank Escutcheon

Height (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
432	2	K	CPLACC2MEG	1,208.00
648	3	K	CPLACC3MEG	1,345.00
864	4	K	CPLACC4MEG	1,484.00
1080	5	K	CPLACC5MEG	1,620.00
1296	6	K	CPLACC6MEG	1,760.00
1512	7	K	CPLACC7MEG	1,896.00
1728	8	K	CPLACC8MEG	2,035.00
1944	9	K	CPLACC9MEG	2,172.00

No Escutcheon



CPLACC2MG

Height (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
432	2	K	CPLACC2MG	1,140.00
648	3	K	CPLACC3MG	1,277.00

Accessory Modules, Orange, Mild Steel

Horizontal DIN Cutout Escutcheon



CPLACC-24-O

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	432	2		CPLACC-24-O	1,249.00
48	432	2		CPLACC-48-O	1,312.00
72	648	3		CPLACC-72-O	1,449.00

Blank Escutcheon



CPLACC-2ME-O

Height (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
432	2	K	CPLACC-2ME-O	1,208.00
648	3	K	CPLACC-3ME-O	1,345.00
864	4	K	CPLACC-4ME-O	1,484.00
1080	5	K	CPLACC-5ME-O	1,620.00
1296	6	K	CPLACC-6ME-O	1,760.00

No Escutcheon



CPLACC-2M-O

Height (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
432	2	K	CPLACC-2M-O	1,140.00
648	3	K	CPLACC-3M-O	1,277.00

Concept Plus Accessories CPL

General accessories.

Gland Plate Accessories

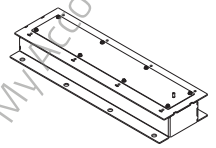


CPLEGP-BK5

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT PLUS Gland Plate Gasket		CPL-EGGF	37.00
CONCEPT PLUS Gland Plate, Mild Steel 1.6 mm, Orange (X15)		CPLEGP-MS1OR	80.00
CONCEPT PLUS Gland Plate, Mild Steel 1.6 mm, Storm Grey (N42)	I	CPLEGP-MS1SG	80.00
CONCEPT PLUS Gland Plate, Aluminium 3.0 mm		CPLEGP-AL3	124.00
CONCEPT PLUS Gland Plate, Bakelite 5.0 mm		CPLEGP-BK5	124.00
CONCEPT PLUS Gland Plate, Brass 3.0 mm		CPLEGP-BR3	401.00

Plinths

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT PLUS Plinth Kit, Single, 75 mm, Hot Dip Galvanised		CPLAP-SGAL	436.00



CPLAP-SGAL

IP52 Kits

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT Panelboard Kit IP52, to suit 3M-648 mm CPL Enclosure	K	CPLEIP52M3	135.00
CONCEPT Panelboard Kit IP52, to suit 4M-864 mm CPL Enclosure	K	CPLEIP52M4	135.00
CONCEPT Panelboard Kit IP52, to suit 5M-1080 mm CPL Enclosure	K	CPLEIP52M5	135.00
CONCEPT Panelboard Kit IP52, to suit 6M-1296 mm CPL Enclosure	K	CPLEIP52M6	135.00
CONCEPT Panelboard Kit IP52, to suit 7M-1512 mm CPL Enclosure	K	CPLEIP52M7	135.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

1

CONCEPT PREMIER Range - CPR

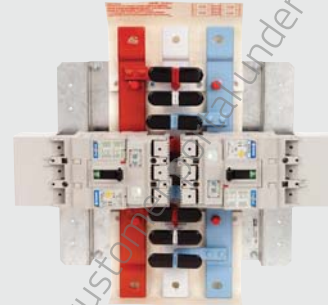
Standard Panelboard - CPR

NC 250A busbar chassis top feed 3P



MCCB Panelboard*

MCCB chassis busbar chassis suits Terasaki MCCBs



Isolation Chassis Panelboard*

Isolation chassis GB 250A busbar chassis top feed 3P, Busbar tee-off can be isolated prior to fitting or removing MCB
Captive locking mechanism option



400A Panelboard- CPRH

NC 400A busbar chassis with VLB 400A main isolator



Captive Locking Panelboard LOCKDIN*

Escutcheon cut-out suitable for MCB captive locking system "LOCKDIN"



For other options contact NHP

- Compact NHP Concept POWERBUS System
- Split chassis for load shedding or metering
- Hybrid chassis suits 80-125A MCBs and 0.5-63A MCBs
- Single sided MCCB chassis options
- Other Main switch options
- Surge protection
- Emergency lighting control
- External lighting control

CPR Panelboards are available in either Grey, Orange, Orange Stainless Steel or Natural Stainless steel options.
CPR Panelboards can be fitted with 160A or 250A isolator main switch or 160A or 200A MCCB main switch.**

*Made to order contact NHP

*Excludes MCCB chassis Panelboards

Panelboards

CONCEPT PREMIER Panelboard

- Standard AS/NZS 61439
- Compact 160 A or 250 A main switch option
- 400A Isolator main switch option
- Isolator or circuit breaker main switch option
- IP66
- Modular sizes up to 96-Way
- 1.6 mm fully welded construction
- Stainless Steel option
- Accessory modules
- Removable gland plates
- Door fitted independent of escutcheon
- Removeable hinged escutcheon
- Right hand door hinging as standard
- Semi flush swing handle, lockable door
- 3 point locking
- Chassis tee-off isolator option

The Premium Panelboard for DIN-T MCBs or Tembreak MCCBs.

The Concept Premier CPR range is a premium IP66 panelboard designed commercial and industrial applications. Concept Premier is a modular design that will accept either DIN-T or Terasaki MCCB circuit breakers and associated accessory devices.

Product Selection

Boards available in 4 colour / material options:

- Grey enclosure
- Orange enclosure
- Natural stainless steel
- Orange stainless steel

Simply swap "G" with "O", "SS" or "SSO" in item number for different options.

Please note when substituting "SS" or "SSO" for stainless version price will be higher than listed for mild steel versions. Contact NHP for prices.

Concept Premier CPR Panelboard

The Premium Panelboard for DIN-T MCBs.

These panelboards come complete with 250A NC chassis (TF) suitable for DIN-T MCBs and accessory items. Width 600mm, depth 240mm excluding door handle.

Grey - Mild Steel

No Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		CPR-24-G	2,744.00
36	864	4		CPR-36-G	3,018.00
48	864	4		CPR-48-G	3,293.00
60	1080	5		CPR-60-G	3,773.00
72	1296	6		CPR-72-G	4,390.00
84	1296	6		CPR-84-G	5,075.00
96	1512	7		CPR-96-G	5,899.00



CPR-24-G

160A Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPR-24M160-G	3,099.00
36	864	4	K	CPR-36M160-G	3,368.00
48	864	4	K	CPR-48M160-G	3,638.00
60	1080	5	K	CPR-60M160-G	4,110.00
72	1296	6	K	CPR-72M160-G	4,715.00



CPR-24M160-G



1



CPR-24M250-G

250A Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPR-24M250-G	3,301.00
36	864	4	K	CPR-36M250-G	3,570.00
48	864	4	K	CPR-48M250-G	3,840.00
60	1080	5	K	CPR-60M250-G	4,311.00
72	1296	6	K	CPR-72M250-G	4,917.00
84	1296	6	K	CPR-84M250-G	5,591.00
96	1512	7	K	CPR-96M250-G	6,398.00

400A Main Switch



CPRH-24-M400-G

Poles	Poles (27mm Pitch)	Poles (18mm Pitch)	Item Type	Catalogue No.	\$AU
24	0	24	A	CPRH-24-M400-G	4,257.00
48	0	48	A	CPRH-48-M400-G	4,796.00
72	0	72	A	CPRH-72-M400-G	5,936.00
96	0	96	A	CPRH-96-M400-G	7,434.00
18	6	12	A	CPRH-612-M400-G	4,317.00
42	6	36	A	CPRH-636-M400-G	4,857.00
42	12	30	A	CPRH-1230-M400-G	4,857.00
72	12	60	A	CPRH-1260-M400-G	6,115.00

160A MCCB Main Switch - Adjustable 100-160A



CPR24MCCB160G

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPR24MCCB160G	3,570.00
36	864	4	K	CPR36MCCB160G	3,840.00
42	864	4	K	CPR48MCCB160G	4,110.00
60	1080	5	K	CPR60MCCB160G	4,581.00

200A MCCB Main Switch - Adjustable 125-200A



CPR24MCCB200G

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPR24MCCB200G	3,705.00
42	864	4	K	CPR48MCCB200G	4,244.00
60	1080	5	K	CPR60MCCB200G	4,715.00
72	1296	6	K	CPR72MCCB200G	5,321.00
84	1296	6	K	CPR84MCCB200G	5,994.00
96	1512	7	K	CPR96MCCB200G	6,803.00

Orange - Mild Steel

No Main Switch



CPR-24-O

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		CPR-24-O	2,744.00
36	864	4		CPR-36-O	3,018.00
48	864	4		CPR-48-O	3,293.00
60	1080	5		CPR-60-O	3,773.00
72	1296	6		CPR-72-O	4,390.00
84	1296	6		CPR-84-O	5,075.00
96	1512	7		CPR-96-O	5,899.00

160A Main Switch



CPR-24M160-O

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPR-24M160-O	3,099.00
36	864	4	K	CPR-36M160-O	3,368.00
48	864	4	K	CPR-48M160-O	3,638.00
60	1080	5	K	CPR-60M160-O	4,110.00
72	1296	6	K	CPR-72M160-O	4,715.00

250A Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPR-24M250-O	3,301.00
36	864	4	K	CPR-36M250-O	3,570.00
48	864	4	K	CPR-48M250-O	3,840.00
60	1080	5	K	CPR-60M250-O	4,311.00
72	1296	6	K	CPR-72M250-O	4,917.00
84	1296	6	K	CPR-84M250-O	5,591.00
96	1512	7	K	CPR-96M250-O	6,398.00



CPR-24M250-O

400A Main Switch

Poles	Poles (27mm Pitch)	Poles (18mm Pitch)	Item Type	Catalogue No.	\$AU
24	0	24	A	CPRH-24-M400-O	4,257.00
48	0	48	A	CPRH-48-M400-O	4,796.00
72	0	72	A	CPRH-72-M400-O	5,936.00
96	0	96	A	CPRH-96-M400-O	7,434.00
18	6	12	A	CPRH-612-M400-O	4,317.00
42	6	36	A	CPRH-636-M400-O	4,857.00
42	12	30	A	CPRH-1230-M400-O	4,857.00
72	12	60	A	CPRH-1260-M400-O	6,115.00



CPRH-24-M400-O

160A MCCB Main Switch - Adjustable 100-160A

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3	K	CPR24MCCB1600	3,570.00
36	864	4	K	CPR36MCCB1600	3,840.00
48	864	4	K	CPR48MCCB1600	4,110.00
60	1080	5	K	CPR60MCCB1600	4,581.00



CPR24MCCB1600

200A MCCB Main Switch - Adjustable 125-200A

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
36	864	4	K	CPR36MCCB2000	3,974.00
48	864	4	K	CPR48MCCB2000	4,244.00
60	1080	5	K	CPR60MCCB2000	4,715.00
72	1296	6	K	CPR72MCCB2000	5,321.00
84	1296	6	K	CPR84MCCB2000	5,994.00
96	1512	7	K	CPR96MCCB2000	6,803.00



CPR36MCCB2000

Orange- 316 Stainless Steel

No Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		CPR-24-SSO	6,120.00
36	864	4		CPR-36-SSO	6,664.00
48	864	4	A	CPR-48-SSO	7,207.00
60	1080	5	A	CPR-60-SSO	8,024.00
72	1296	6	A	CPR-72-SSO	8,839.00
84	1296	6	A	CPR-84-SSO	9,384.00
96	1512	7	A	CPR-96-SSO	10,063.00



CPR-24-SSO

Natural Raw Finish- 316 Stainless Steel

No Main Switch

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	648	3		CPR-24-SS	6,120.00
36	864	4		CPR-36-SS	6,664.00
48	864	4		CPR-48-SS	7,207.00
60	1080	5		CPR-60-SS	8,024.00
72	1296	6		CPR-72-SS	8,839.00
84	1296	6	A	CPR-84-SS	9,384.00
96	1512	7	A	CPR-96-SS	10,063.00



CPR-24-SS

1

Concept Premier Accessory Modules- CPRACC

Mounted to either top, bottom or side of Concept Premier or mounted separately. Width 600mm, depth 240mm excluding door handle.

- E/N bars not included

Accessory Module Grey**Horizontal Cut-out Escutcheon**

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	432	2		CPRACC-24-G	1,647.00
48	432	2		CPRACC-48-G	1,716.00
72	648	3		CPRACC-72-G	1,853.00

CPRACC-24-G

Blank Escutcheon

H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
432	2	K	CPRACC2MEG	1,647.00
648	3	K	CPRACC3MEG	1,785.00
864	4	K	CPRACC4MEG	1,922.00
1080	5	K	CPRACC5MEG	2,058.00
1296	6	K	CPRACC6MEG	2,332.00
1512	7	K	CPRACC7MEG	2,470.00
1728	8	K	CPRACC8MEG	2,608.00
1944	9	K	CPRACC9MEG	2,744.00

CPRACC2MEG

No Escutcheon

H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
432	2	K	CPRACC2MG	1,578.00
648	3	K	CPRACC3MG	1,716.00

CPRACC2MG

Accessory Module Orange**Horizontal Cut-out Escutcheon with DIN Rail**

Poles	H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
24	432	2		CPRACC-24-O	1,647.00
48	432	2		CPRACC-48-O	1,716.00
72	648	3		CPRACC-72-O	1,853.00

CPRACC-24-O

Blank Escutcheon

H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
432	2	K	CPRACC-2ME-O	1,647.00
648	3	K	CPRACC-3ME-O	1,785.00
864	4	K	CPRACC-4ME-O	1,922.00
1080	5	K	CPRACC-5ME-O	2,058.00
1296	6	K	CPRACC-6ME-O	2,332.00

CPRACC-2ME-O

No Escutcheon

H (mm)	Modules (qty)	Item Type	Catalogue No.	\$AU
432	2	K	CPRACC2MO	1,578.00
648	3	K	CPRACC3MO	1,716.00

CPRACC2MO

Concept Premier Accessories-CPR

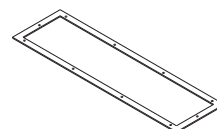
General accessories.

- Gland plate gasket foam
- Suits CONCEPT Premier

Gland Plate Accessories

Gland Plates

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT PREMIER Gland Plate Gasket		CPR-EGGF	44.00
CONCEPT PREMIER Gland Plate, Mild Steel 2.0 mm, Orange (X15)	I	CPREGP-MS2OR	80.00
CONCEPT PREMIER Gland Plate, Mild Steel 2.0 mm, Storm Grey (N42)	I	CPREGP-MS2SG	80.00
CONCEPT PREMIER Gland Plate, Aluminium 3.0 mm		CPREGP-AL3	123.00
CONCEPT PREMIER Gland Plate, Bakelite 5.0 mm		CPREGP-BK5	123.00
CONCEPT PREMIER Gland Plate, Aluminium 6.0 mm		CPREGP-AL6	154.00
CONCEPT PREMIER Gland Plate, Brass 3.0 mm		CPREGP-BR3	418.00



CPR-EGGF

Floor Mounting Plinths

Single Width

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT PREMIER Kit, Single, 75 mm, Hot Dip Galvanised		CPRAP-SGAL	626.00



CPRAP-SGAL

Rainhoods

Single Width

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT PREMIER Rainhood Kit, Single, Mild Steel, Orange		CPRAR-SOR	348.00
CONCEPT PREMIER Rainhood Kit, Single, Mild Steel, Grey		CPRAR-SSG	348.00
CONCEPT PREMIER Rainhood Kit, Single, Stainless Steel		CPRAR-SSS	694.00
CONCEPT PREMIER Rainhood Kit, Single, Stainless Steel Orange		CPRAR-SSSO	694.00



CPRAR-SOR

Panelboards

CONCEPT TOUGH Panelboard



- Compact 160 A or 250 A main switch
- IP66
- 2 mm fully welded construction
- Stainless Steel option
- Removable gland plates
- Door fitted independent of escutcheon
- L type padlockable door handle
- 3 point locking
- Chassis tee-off isolator option

The Heavy Duty Panelboard for DIN-T MCBs or Tembreak MCCBs.

The Concept Tough range is a heavy duty IP66 panelboard designed industrial and mining applications.

The Heavy Duty Panelboard for DIN-T MCBs

These panelboards come complete with NC chassis suitable for DIN-T MCBs and accessory items.
Width 800mm, depth 320mm including door, excluding door handle and weatherproof lip.

Orange - Mild Steel

No Main Switch



CTD240

Poles	H (mm)	Box Size	Item Type	Catalogue No.	\$AU
24	1000	2		CTD240	9,301.00
36	1000	2	A	CTD360	9,825.00
48	1000	2	A	CTD480	10,087.00
60	1500	3	A	CTD600	12,051.00
72	1500	3	A	CTD720	12,707.00

250A Main Switch



CTD24M2500

Poles	H (mm)	Box Size	Item Type	Catalogue No.	\$AU
24	1000	2	A	CTD24M2500	9,693.00
36	1000	2	A	CTD36M2500	10,217.00
48	1000	2	A	CTD48M2500	10,479.00
60	1500	3	A	CTD60M2500	12,444.00
84	1500	3	A	CTD84M2500	13,754.00
96	1500	3	A	CTD96M2500	14,146.00

Brushed Raw Finish - 316 Stainless Steel

No Main Switch



CTD72SS

Poles	H (mm)	Box Size	Item Type	Catalogue No.	\$AU
24	1000	2	A	CTD24SS	POA
36	1000	2	A	CTD36SS	POA
48	1000	2	A	CTD48SS	POA
60	1500	3	A	CTD60SS	POA
72	1500	3	A	CTD72SS	POA

Panelboards

General Panelboard Hardware / Accessories

1

Panelboard Emergency Lighting Test Kits

Panelboard emergency lighting test kits which includes timer with built in operator and contactor.

Open Type - Suit Panelboards

Emergency lighting test switch, to semi automate the testing of emergency lighting. The test switch is one central point to trigger emergency lights for required regular testing as per AS/NZS 2293 standards. Easily able to be retrofit into Panelboard's to allow regular maintenance testing of single point emergency lights. Kit comes complete with contactor with 4 N/C contacts, additional contactors can be pigbacked. Timer can be set for 120mins (initial test) or 90 mins (regular test). Unit comes complete with labels to easily identify supply MCBs.

Item Description	Item Type	Catalogue No.	\$AU
Emergency Lighting Test Kit, Push button operation (Open Type)		CELAELK1W	358.00
Emergency Lighting Test Kit, Key switch operation (Open Type)		CELAELK2W	378.00



CELAELK2W

Enclosed - Surface Mount

Emergency lighting test switch, to semi automate the testing of emergency lighting. The test switch is one central point to trigger emergency lights for required regular testing as per AS/NZS 2293 standards. Easily able to be retrofit into Panelboard's to allow regular maintenance testing of single point emergency lights. Kit comes complete with contactor with 4 N/C contacts, additional contactors can be pigbacked. Timer can be set for 120mins (initial test) or 90 mins (regular test). Unit comes complete with labels to easily identify supply MCBs.

Item Description	Item Type	Catalogue No.	\$AU
Emergency Lighting Test Unit, Rotary Switch (Enclosed Type)		ELTSA	361.00
Emergency Lighting Test Unit, Key Switch (Enclosed Type)		ELTKA	378.00



ELTSA

Item Description	Item Type	Catalogue No.	\$AU
Emergency light test switch spare keys (2 pk)		NTSKEY	49.00

Panelboard External Lighting Kits

Panelboard external lighting kits includes time clock and contactor with bypass switch.

Item Description	Item Type	Catalogue No.	\$AU
External Light Control Kit On-Off Auto 1 CH 2 N/O 25 A	K	CELEXT-LKC	368.00
External Light Control Kit On-Off Auto 1 CH 2 N/O 25 A	K	CELEXT-LK1	402.00
External Light Control Kit On-Off Auto 2 CH 2 N/O 25 A	K	CELEXT-LK2	469.00



CELEXT-LK1

Panelboard Main Switches

General Panelboard Main Switch Kits - Concept Isolator

- Excellent short circuit ratings - Icu 25kA
- Market leading Selectivity levels
- Suitable for Concept Panelboards
- Suitable for connecting to NC or GB chassis with connection kit



CEL3160MKGB

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT Panelboard Main Switch Kit, 160A 3P TBP Isolator - CPLG (GB Chassis)		CEL3160MKGB	407.00
CONCEPT Panelboard Main Switch Kit, 160A 3P TBP Isolator - COE, CPL and CPR (NC Chassis)		CEL3160MK	440.00
CONCEPT Panelboard Main Switch Kit, 250A 3P TBP Isolator - COE, CPL and CPR (NC Chassis)		CEL3250MK	632.00
CONCEPT Panelboard Main Switch Kit, 250A 3P TBP Isolator - CPLG (GB Chassis)		CEL3250MKGB	632.00

General Panelboard Main Switch Kits - Circuit Breaker



CELMCCB-3-63

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT Panelboard Main Switch Kit, 63 A (adjustable 40-63 A) 3P MCCB - COE, CPL and CPR (NC Chassis)	K	CELMCCB-3-63	722.00
CONCEPT Panelboard Main Switch Kit, 100 A (adjustable 63-100 A) 3P MCCB - COE, CPL and CPR (NC Chassis)	K	CELMCCB-3-100	918.00
CONCEPT Panelboard Main Switch Kit, 160 A (adjustable 100-160 A) 3P MCCB - COE, CPL and CPR (NC Chassis)	K	CELMCCB-3-160	1,049.00
CONCEPT Panelboard Main Switch Kit, 200 A (adjustable 125-200 A) 3P MCCB - COE, CPL and CPR (NC Chassis)	K	CELMCCB-3-200	1,180.00

Surge Protection Kits



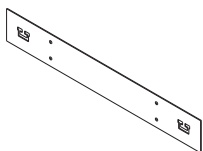
CELSURGEK1

Item Description	Item Type	Catalogue No.	\$AU
Surge Protection Kit, Type 2 Surge Divertor (40 kA), MCB, Wiring Loom and Label	K	CELSURGEK1	1,003.00

Panelboard Gear Trays

Panelboard gear tray to suit Concept Plus and Concept Premier panelboards.

Gear Trays

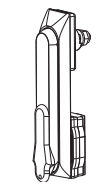


CELAG-MS05

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT Panelboard Gear Tray 1M-216 mm suits CPL and CPR, White		CELAG-MS1	108.00
CONCEPT Panelboard Gear Tray 2M-432 mm suits CPL and CPR, White		CELAG-MS2	130.00
CONCEPT Panelboard Gear Tray 3M-648 mm suits CPL and CPR, White		CELAG-MS3	158.00
CONCEPT Panelboard Gear Tray 0.5M-108 mm suits CPL and CPR, White		CELAG-MS05	44.00

Door Accessories

Handles - COE, CPL & CPR

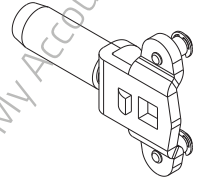


CELHD-SSS9

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT Panelboard Door Semi Flush Swing Handle, Keyed CL001		CELHDS-PS-C	59.00
CONCEPT Panelboard Door Semi Flush Swing Handle, Keyed 92268		CELHDS-PS-9	66.00
CEL PBD ACC DOOR SWING HANDLE PAD-LOCKABLE 10mm		CELHDS-PP-P	146.00
CONCEPT Panelboard Door Semi Flush Swing Handle, Keyed PWD (E-LOCK)		CELHDS-PB-E	238.00
CONCEPT Panelboard Door Semi Flush Swing Handle, IP66, Keyed CL001		CELHDS-ZS-C	105.00
CONCEPT Panelboard Door Semi Flush Swing Handle, IP66, Keyed 92268		CELHDS-ZS-9	120.00
CEL PBD ACC DOOR SWING HANDLE PAD-LOCKABLE 10mm IP66		CELHDS-ZP-P	250.00
CONCEPT Panelboard Door Semi Flush Swing Handle, IP66, Keyed PWD (E-LOCK)		CELHDS-ZB-E	314.00
Spare Key Code CL001		KEYCL001	13.00
Spare Key Code 92268		KEY92268	13.00
CONCEPT Panelboard Door Semi Flush Swing Handle, K144	I	CELHDS-PS-K	66.00
CONCEPT Panelboard Door Semi Flush Swing Handle, IP66, No Lock Cylinder		CELHDS-ZP-BN	105.00
CONCEPT Panelboard Door Semi Flush Swing Handle, Stainless Steel, IP66 Metal E-key		CELHD-SSS9	578.00
CONCEPT Panelboard Door Semi Flush Swing Handle, Stainless Steel, IP66 Non-Lockable		CELHD-SSSC	578.00

Handle Cams

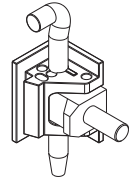
Item Description	Item Type	Catalogue No.	\$AU
CONCEPT PLUS Door Handle Roller Locking Cam Single Point		CELHCR-P21A60	14.00
CONCEPT Door Handle, Locking Roller Cam, Three Point, suits CPL and CPR		CELHC-RP21C60	27.00



CELHC-RP21C60

Hinges

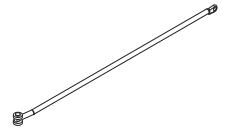
Item Description	Item Type	Catalogue No.	\$AU
Concept Panelboard door hinge black zinc with steel pin		CELHHC-ZBK3	51.00
Concept Panelboard door hinge stainless steel with stainless steel pin		CELHHC-S113	552.00



CELHHC-ZBK3

Locking Rod

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT Panelboard Door Locking rod size 3M suits CPL and CPR		CELDLR-3MS	29.00
CONCEPT Panelboard Door Locking rod size 4M suits CPL and CPR		CELDLR-4MS	42.00
CONCEPT Panelboard Door Locking rod size 5M suits CPL and CPR		CELDLR-5MS	52.00
CONCEPT Panelboard Door Locking rod size 6M suits CPL and CPR		CELDLR-6MS	66.00
CONCEPT Panelboard Door Locking rod size 7M suits CPL and CPR		CELDLR-7MS	70.00
CONCEPT Panelboard Door Locking rod size 8M suits CPL and CPR		CELDLR-8MS	73.00
CONCEPT Panelboard Door Locking rod size 9M suits CPL and CPR		CELDLR-9MS	77.00



CELDLR-5MS

Handle Inserts

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT Panelboard Door Handle Cylinder, 42886 Suits CELHDSZPBN	I	CELD5NB4	562.00

Panelboard General Accessories

General Accessories

Item Description	Item Type	Catalogue No.	\$AU
Schedule Card Holder A4 (Clear Perspex)		CELAC-PA4	9.30
CONCEPT Panelboard A4 Clear Sheet		CELAC-MSA4	17.00
DIN Mounting Holder suits 22.5 mm Profile Equipment		M22IVS	40.00

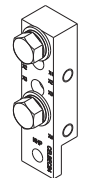


M22IVS

Earth and Neutral Bars and Accessories

Earth and Neutral Bar Accessories

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT Panelboard Earth and Neutral Extension Bar (suits 250 A Bars CELBNG)		CELBEC-B4	102.00



CELBEC-B4

1

250 A Earth and Neutral Bars 2 Screw

M8 studs top & bottom, spare 1 x 25mm + 1 x 16mm, 2 x 25mm tunnel terminals and remainder 2 screw 16mm tunnel terminals.

Poles	Numbering	Length (mm)	W (mm)	Item Type	Catalogue No.	\$AU
24	1 - 24	268	19		CELBNC-24-A2	101.00
36	1 - 36	340	19		CELBNC-36-A2	124.00
48	1 - 48	430	19		CELBNC-48-A2	156.00
60	1 - 60	520	19		CELBNC-60-A2	198.00
72	1 - 72	610	19		CELBNC-72-A2	230.00
84	1 - 84	718	19		CELBNC-84-A2	257.00
96	1 - 96	790	19		CELBNC-96-A2	292.00

CELBNC-60-A2

250A Earth and Neutral Bars 2 Screw - ODD and EVEN

M8 studs top & bottom, spare 1 x 25mm + 1 x 16mm, 2 x 25mm tunnel terminals and remainder 2 screw 16mm tunnel terminals.

Poles	Numbering	Length (mm)	W (mm)	Item Type	Catalogue No.	\$AU
12	1 - 23	178	19		CELBNC-12-C2	69.00
12	2 - 24	178	19		CELBNC-12-B2	69.00
18	1 - 35	232	19		CELBNC-18-C2	80.00
18	2 - 36	232	19		CELBNC-18-B2	80.00
24	1 - 47	268	19		CELBNC-24-C2	101.00
24	2 - 48	268	19		CELBNC-24-B2	101.00
30	1 - 59	304	19		CELBNC-30-C2	115.00
30	2 - 60	304	19		CELBNC-30-B2	115.00
36	1 - 71	340	19		CELBNC-36-C2	124.00
36	2 - 72	340	19		CELBNC-36-B2	124.00
42	1 - 83	394	19		CELBNC-42-C2	144.00
42	2 - 84	394	19		CELBNC-42-B2	144.00
48	1 - 95	430	19		CELBNC-48-C2	156.00
48	2 - 96	430	19		CELBNC-48-B2	156.00

CELBNC-12-C2

250A Panelboard Earth and Neutral Bar Kits

Panelboard earth and neutral bar kits including earth and neutral bar mounting brackets, labels and fasteners.

Poles	Numbering	Length (mm)	W (mm)	Item Type	Catalogue No.	\$AU
24	1 - 24	268	19	K	CELEN24	134.00
36	1 - 36	340	19	K	CELEN36	167.00
48	1 - 48	430	19	K	CELEN48	200.00
60	1 - 60	520	19	K	CELEN60	234.00
72	1 - 72	610	19	K	CELEN72	266.00
84	1 - 84	718	19	K	CELEN84	299.00
96	1 - 96	790	19	K	CELEN96	332.00

CELEN24

400A Earth and Neutral Bars 2 Screw

M10 studs top & amp; bottom, 2 x M8 25mm, suit CPL & CPR tunnel terminals and remainder 2 screw 16mm, suit CPL & CPR tunnel terminals.

Poles	Numbering	Length (mm)	W (mm)	Item Type	Catalogue No.	\$AU
24	1 - 24	268	19		CELBNG-24-A2	164.00
36	1 - 36	340	19		CELBNG-36-A2	207.00
48	1 - 48	430	19		CELBNG-48-A2	256.00
60	1 - 60	520	19		CELBNG-60-A2	298.00
72	1 - 72	610	19		CELBNG-72-A2	319.00
84	1 - 84	718	19		CELBNG-84-A2	362.00
96	1 - 96	790	19		CELBNG-96-A2	380.00

CELBNG-24-A2

Labels**Labels**

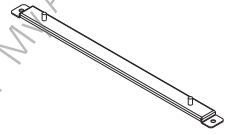
Item Description	Item Type	Catalogue No.	\$AU
Label Escutcheon Legend 1-48 DIN-T		LABLEG1-48D	24.00
Label Escutcheon Legend 49-96 DIN-T		LABLEG4996D	22.00
Label Legend LOCKDIN No 1-48	I	LABLE148DT	39.00
Label Legend Tough LOCKDOG 49-96	I	LABLE4996DT	39.00
Schedule Card A4 No 1-96 and 1-60		CPSCHEDULECARD	5.00

LABLEG1-48D

Brackets and Supports

Mounting Brackets

Item Description	Item Type	Catalogue No.	\$AU
CONCEPT Panelboard Wall Mounting Bracket Black, suit CPL and CPR		CELAB-GBBK	158.00



CELAB-GBBK

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Panelboards

Rapid Test RCD Testing System



- Reduces risk by eliminating the need to access live parts
- Reduces risk by minimising potential exposure to arc flash
- Improves productivity, reduces downtime (saving money)
- Simplifies testing, test entire Panelboard in minutes (labour savings)
- Automatically generates report (no manual report writing)
- Reduce compliance costs
- Exceed compliance requirements
- WiFi connection
- Security lockout switch option

Test Equipment



NRT-TUWFM

Item Description	Item Type	Catalogue No.	\$AU
RCD Rapid Test System 24 Channel module 110/240V 10-500mA		NRT-RB24F	749.00
RCD Rapid Test System Wi-Fi Master 240V 10-100mA		NRT-TUWFM	1,005.00
RCD Rapid Test System Wi-Fi Master and 8-Channel Module 110/240V 10-500mA		NRT-MC8F5	1,153.00

Retrofit Test Equipment



NRTRFCPR55L50

Item Description	Item Type	Catalogue No.	\$AU
RCD Rapid Test System Retro Fit Kit - FIBOX IP66 Clear Enclosure, 32 Channels	A	NRTRFPC32CL	3,780.00
RCD Rapid Test System Retro Fit Kit - Concept Plus IP42 Grey Enclosure, 55 Channels	A	NRTRFCPL55G	5,184.00
RCD Rapid Test System Retro Fit Kit - Concept Plus IP42 Orange Enclosure, 55 Channels	A	NRTRFCPL55O	5,184.00
RCD Rapid Test System Retro Fit Kit - Concept Premier IP66 Grey Enclosure, 55 Channels	A	NRTRFCPR55G	5,346.00
RCD Rapid Test System Retro Fit Kit - Concept Premier IP66 Orange Enclosure, 55 Channels	A	NRTRFCPR55O	5,346.00
RCD Rapid Test System Retro Fit Kit - Concept Premier IP33 Grey Enclosure With 5M Wiring Loom, 55 Channels	A	NRTRFCPR55L5G	5,832.00
RCD Rapid Test System Retro Fit Kit - Concept Premier IP33 Orange Enclosure With 5M Wiring Loom, 55 Channels	A	NRTRFCPR55L5O	5,832.00

Accessories

General Accessories



USBL

Item Description	Item Type	Catalogue No.	\$AU
RCD Rapid Test System RJ12 Dust Cover	I	RTSDC	5.95
RCD Rapid Test System Stacking Bracket (NRTTUWF/NRTRB24) (2 pk)		USB	9.50
RCD Rapid Test System Communications Cable RJ12 Connector, length 0.3 m		FL-300	12.00
RCD Rapid Test System Stacking Bracket (NRTMC8/NRTRB24) (2 pk)		USBL	12.00
RCD RTS Verification Test Lead		VTL	54.00

Main switchboard

Does the building have external lightning protection?
(A lightning rod)



YES

NO

Conducted Lightning Energy

- Direct lightning strike to building
- Lightning rod

Worst case as per IEC 61643

Because the lightning rod increases the likelihood of a lightning strike and secondly as the strike is local a maximum proportion of the energy will enter the supply.

USE I_{imp} 25kA
(10/350 μ s waveform)

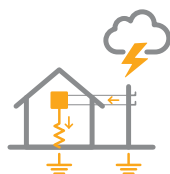
Type 1 + 2 PSC - 25 kA

	SPD Distance from M.E.N link	Poles	NHP Part No.
Single Phase	< 10m	L-N	CPT-PSC1-25-230IR
	> 10m	L-N+PE	CPT-PSC2-25-230IR
Three Phase	< 10m	L-L-L-N	CPT-PSC3-25-400IR
	> 10m	L-L-L-N+PE	CPT-PSC4-25-400IR

**Parameters per Range**

I_{imp}	25 kA
I_{max}	100 kA
I_{msc}	200 kA
I_n	20 kA
U_p	≤ 1.5 kV

Does your building have overhead supply or is in a region with greater than 2.2 lightning flashers per km² per year*?



YES

NO

**Conducted Lightning Energy**

- Direct strike to overhead lines but at a distance

Normal case as per IEC 61643

It is assumed that it is less likely the energy from a lightning strike will enter the supply and if it does a greater percentage of the energy will already have been diverted to earth by other conductors.

USE I_{imp} 12.5kA
(10/350 μ s waveform)
- Consider upgrading to I_{imp} 25kA

Type 1 + 2 PSC - 12.5 kA

	SPD Distance from M.E.N link	Poles	NHP Part No.
Single Phase	< 10m	L-N	CPT-PSC1-12-230IR
	> 10m	L-N+PE	CPT-PSC2-12-230IR
Three Phase	< 10m	L-L-L-N	CPT-PSC3-12-400IR
	> 10m	L-L-L-N+PE	CPT-PSC4-12-400IR

**Parameters per Range**

I_{imp}	12.5 kA
I_{max}	65 kA
I_n	20 kA
U_p	≤ 1.5 kV

Underground mains supply



YES

Induced Surges Events

- Cloud to cloud lightning
- Supply Network switching
- Inductive/Capacitive loads

It is assumed that no energy from a lightning strike will directly enter the supply

USE I_{max} 40kA
(8/20 μ s waveform)
- Consider upgrading to PSC I_{imp} 12.5kA

Type 2 PSM - 40 kA

	SPD Distance from M.E.N link	Poles	NHP Part No.
Single Phase	< 10m	L-N	CPT-PSM1-40-230IR
	> 10m	L-N+PE	CPT-PSM2-40-230IR **
Three Phase	< 10m	L-L-L-N	CPT-PSM3-40-400IR
	> 10m	L-L-L-N+PE	CPT-PSM4-40-400IR **

* Replace IR with SG for inbuilt earth loop impedance monitoring

**Parameters per Range**

I_{max}	40 kA
I_n	20 kA
U_p	≤ 1.3 kV

B8101_dSELN-S01

1 Distribution board

Type 2 PSM - 40 kA

SPD Distance from M.E.N link		Poles	NHP Part No.
Single Phase	< 10m	L-N	CPT-PSM1-40-230IR
	> 10m	L-N+PE	CPT-PSM2-40-230IR **
Three Phase	< 10m	L-L-L-N	CPT-PSM3-40-400IR
	> 10m	L-L-L-N+PE	CPT-PSM4-40-400IR **



Parameters per Range

I_{max}	40 A
I_n	20 kA
U_p	≤ 1.3 kV

Type 2: PSM- 40 SafeGround Series with integrated Earth Loop Impedance Monitoring

**Upgrade the PSM range to SAFEGROUND® to monitor the earth connection critical to provide a path to direct surge energy.

Ground status

No Connection



Poor



Correct



I_{max}
40kA (type 2)

Effective surge protection

When the SAFEGROUND® LED is green, it indicates that the ground path is good enough to shunt the energy peaks to ground effectively.

Confirmation of proper installation

When the SAFEGROUND® LED is green, it indicates that the protection device is properly wired and powered up.

Safety information in the event of indirect contact

When the SAFEGROUND® cannot detect any ground connection, it is advisable to check the installation status.

Type 2 PSM - 20 kA

SPD Distance from M.E.N link		Poles	NHP Part No.
Single Phase	< 10m	L-N	CPT-PSM1-20-230IR
	> 10m	L-N+PE	CPT-PSM2-20-230IR **
Three Phase	< 10m	L-L-L-N	CPT-PSM3-20-400IR
	> 10m	L-L-L-N+PE	CPT-PSM4-20-400IR **



Parameters per Range

I_{max}	20 kA
I_n	10 kA
U_p	≤ 1.3 kV

*Check the lightning density in your region here:

Australia:

http://www.bom.gov.au/jsp/ncc/climate_averages/thunder-lightning/index.jsp

New Zealand:

https://statisticsnz.shinyapps.io/lightning_strikes/

Based on Australia and New Zealand's Main Electrical supply of 230 / 400 V AC. For other voltages, please contact NHP.

Surge Protection

Cirprotec Electrical Network Surge Diverters

- DIN rail and panel mount options offer installation flexibility
- Onboard status indication (flag or LED) for visual indication that the installation remains protected
- Remote indication (via volt free contacts) to alert that a module needs replacement
- Modular options to allow easy replacement should a module reach End-Of-Life.

Type 1 / Class I. Ability to discharge lightning currents (10/350 μ s). For incoming power supply panels of installations provided with external lightning rods and / or at high risk of direct lightning strikes. IEC 61643-11.

Type 1+2 / Class I+II. Ability to discharge lightning currents (10/350 μ s) and induced voltage surges (8/20 μ s). IEC 61643-11.

Type 2 / Class II. Ability to discharge induced voltage surges (8/20 μ s). Suitable for the second level of protection in supply distribution panels in which Type 1 protectors are installed, or for the first level of protection for applications not exposed to direct strikes and with no external lightning protection system. IEC 61643-11.

Type 2+3 / Class II+III. Ability to discharge induced voltage surges (8/20 μ s), while offering very fine protection of sensitive equipment (1.2/50 μ s). IEC 61643-11.

Type 3 / Class III. For very fine protection of sensitive equipment (1.2/50 μ s). Installation downstream of type 2 protection. IEC 61643-11.

TVSS / SPD. Ability to discharge voltage surges (up to 240kA). For IEEE location categories C, B and A. UL 1449 3rd. Ed.

Modular, monobloc and pluggable surge solutions for the protection of AC electrical networks and photovoltaic electrical networks from lightning, internally induced transients and also external voltage transients. Products are available to meet either IEC 61643 or UL 1449 3rd Edition international standards. Multiple surge diverters installed in a cascaded approach should be used to ensure adequate protection of the facility.

IEC Type 1+2

PSC - Pluggable Type 1+2 surge diverter for installation at service entrance or in high lightning areas.

- PSC is the range of combined devices for discharging lightning currents (Type 1 / Class I), and protecting against induced transient overvoltages (Type 2 / Class II), in accordance with IEC 61643-11
- DIN rail plug-in format
- Suitable as the first step of protection in incoming power supply panels and areas with greater exposure to the atmosphere, where installations are usually provided with an external lightning protection system
- Discharges impulse currents with a 10/350 μ s waveform. Iimp: 25 kA, 12.5 kA per phase
- Remote and visual indication of protection device life status
- Reversible chassis to allow cable entry from above or below. Mechanically polarised cartridges depending on the network voltage, to avoid possible cartridge replacement errors
- Biconnect - two types of terminal: for rigid or flexible cable and for fork type comb busbar

PSC Surge Diverters

1P

Iimp L-N (kA)	I _{max} L-N (kA)	In L-N (kA)	Un, L-L / L-N (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
12.5	65	20	L-N: 230	1.3	L-N		CPT-PSC1-12-230IR	511.00
25	100	25	L-N: 230	1.3	L-N		CPT-PSC1-25-230IR	795.00



CPT-PSC1-12-230IR

1P + N-PE

Iimp L-N (kA)	I _{max} L-N (kA)	In L-N (kA)	Un, L-L / L-N (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
12.5	65	20	L-L: 400 / L-N: 230	1.3	L+N-PE		CPT-PSC2-12-230IR	952.00
25	100	25	L-L: 400 / L-N: 230	1.3	L+N-PE		CPT-PSC2-25-230IR	1,407.00



CPT-PSC2-12-230IR

1



CPT-PSC3-25-400IR

3P

Iimp L-N (kA)	I _{max} L-N (kA)	In L-N (kA)	Un, L-L / L-N (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
12	65	20	L-L: 400 / L-N: 230	1.5	L+L+L+N	I	CPT-PSC3-12-400IR	1,779.00
25	100	25	L-L: 400 / L-N: 230	1.5	L+L+L+N		CPT-PSC3-25-400IR	2,338.00

3P + N-PE

Iimp L-N (kA)	I _{max} L-N (kA)	In L-N (kA)	Un, L-L / L-N (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
12.5	65	20	L-L: 400 / L-N: 230	1.3	L+L+L+N-PE		CPT-PSC4-12-400IR	1,974.00
25	100	25	L-L: 400 / L-N: 230	1.3	L+L+L+N-PE		CPT-PSC4-25-400IR	3,186.00



CPT-PSC4-12-400IR

PSC Replacement Modules

Replacement modules for PSC range of surge diverters.

1P

Iimp L-N (kA)	I _{max} L-N (kA)	In L-N (kA)	Un, L-L / L-N (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
12.5	65	20	L-N:230	1.3	L-N	I	CPT-PSC12-230MOD	604.00
25	100	25	L-N:230	1.3	L-N	I	CPT-PSC25-230MOD	1,037.00



CPT-PSC12-230MOD

IEC Type 2

PSM - Pluggable Type 2 surge diverter for transient overvoltage protection. Suited for installation in distribution board or installations without risk of direct lightning strike.

PSM is the range of devices for discharging induced transient overvoltages (Type 2 / Class II), in accordance with IEC 61643-11

- DIN rail plug-in format
- Suitable for the second stage of protection in supply distribution panels in which Type 1 protection devices are installed, or for the first stage of protection in residential, commercial or other applications not exposed to direct strikes and with no external lightning protection system
- High discharge capacity with an 8/20 μ s waveform. I_{max}: 40 kA or 30 kA
- Remote and visual indication of life status of the protection device
- Reversible chassis to allow cable entry from above or below. Mechanically polarised cartridges depending on the network voltage, to avoid possible cartridge replacement errors
- Biconnect - two types of terminal: for rigid or flexible cable and for fork type comb busbar

PSM Safeground

SAFEGROUND® is the first protection device on the market that tests and indicates if you have an adequate ground connection to enable surge energy to be diverted away from your sensitive equipment.

1P + N-PE

I _{max} L-N (kA)	In L-N (kA)	Un L-N / L-L (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
40	20	L-N: 230	3	L+N-PE	I	CPT-PSM2-40-230SG	794.00



CPT-PSM2-40-230SG

3P + N-PE

I _{max} L-N (kA)	In L-N (kA)	Un L-N / L-L (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
40	20	L-L: 400 / L-N: 230	1.3	L+L+L+N-PE		CPT-PSM4-40-400SG	590.00



CPT-PSM4-40-400SG

PSM Surge Diverters

1P

Imax L-N (kA)	In L-N (kA)	Un L-N / L-L (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
20	10	L-N: 230	1.4	L-N		CPT-PSM1-20-230IR	154.00
40	20	L-N: 230	1.3	L-N		CPT-PSM1-40-230IR	201.00



CPT-PSM1-20-230IR

1P + N-PE

Imax L-N (kA)	In L-N (kA)	Un L-N / L-L (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
20	10	L-L: 400 / L-N: 230	1.4	L+N-PE		CPT-PSM2-20-230IR	290.00
40	20	L-L: 400 / L-N: 230	1.4	L+N-PE		CPT-PSM2-40-230IR	301.00



CPT-PSM2-20-230IR

3P + N-PE

Imax L-N (kA)	In L-N (kA)	Un L-N / L-L (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
40	20	L-L: 400 / L-N: 230	1.4	L+L+L+N-PE		CPTPSM3-40/400IR	516.00



CPTPSM3-40/400IR

3P + N-PE

Imax L-N (kA)	In L-N (kA)	Un L-N / L-L (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
20	20	L-L: 400 / L-N: 230	1.4	L+L+L+N-PE		CPT-PSM4-20-400IR	411.00
40	20	L-L: 400 / L-N: 230	1.4	L+L+L+N-PE		CPT-PSM4-40-400IR	565.00



CPT-PSM4-20-400IR

PSM Replaceable Modules

Replacement modules for the CPTPSM range of surge diverters.

1P

Imax L-N (kA)	In L-N (kA)	Un L-N/PE (V AC)	Up (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
20	10	230	1.4	L-N		CPT-PSM20-230MOD	136.00
40	20	230	1.3	L-N		CPT-PSM40-230MOD	158.00



CPT-PSM20-230MOD

N-PE

Imax N-PE (kA)	In N-PE (kA)	Un L-N / L-L	Upl (kV @In)	Protection (modes)	Item Type	Catalogue No.	\$AU
40	20	/	1.5	N-PE		CPT-PSM40N-MOD	206.00



CPT-PSM40N-MOD

1

IEC Type 2+3

DM - Combination single-phase surge diverter and EMI filter suitable for protection of sensitive single phase equipment.

- DM is a range of combined devices for discharging induced transient overvoltages (Type 2 / Class II) and provides fine protection for sensitive equipment (Type 3 / Class III) in accordance with IEC 61643-11
- The range also includes devices that are for very fine protection of sensitive equipment, in accordance with IEC61643-11. These devices are surge protection devices (Type 3 / Class III)
- Complete with a built-in EMI filter
- DIN rail mounting, with a monobloc format
- Suitable as the final stage of protection in installations with electromagnetic disturbances which might interrupt, degrade limit line performance
- Series connection for applications up to 8 / 20 A rated current (depending on model)
- With electromagnetic interference (EMI) filter
- Combined voltage pulse with 1.2 / 50 μ s waveform. Uoc: 6 kV
- Remote and local visual indication of life status of the protection device



CPT-DM2-230-20A

In L-L (kA 8/20)	Un L-N/PE (V AC)	Up (kV @In)	Protection (modes)	#DIN Mods	Item Type	Catalogue No.	\$AU
10	L-N: 230	1.2	L+N-PE	4		CPT-DM2-230-20A	637.00
5	L-N: 230	1.2	L+N-PE	3	I	CPT-DM1-230-8A	524.00

Cirprotec Solar PV-rated Surge Protection

Cirprotec surge protection products to suit solar applications. Manufactured in Spain.

- PSC PV and PSM PV are ranges of combined devices for discharging lightning currents (Type 1 / Class I) and protecting against induced transient overvoltages (Type 2 / Class II), for Photovoltaic installations, in accordance with EN 50539-11
- DIN rail plug-in format
- PSM PV UL 1449 certified
- PSC PV is suitable as protection for combiner boxes in areas with greater exposure to the atmosphere, where installations are usually provided with an external lightning protection system
- PSM PV is suitable for all photovoltaic applications: large-scale, rooftop and self-consumption (off-grid) DC installations
- High current discharge capacity with a 8/20 μ s waveform, I_{max}: 40 kA
- Discharges impulse currents with a 10/350 μ s waveform, I_{imp}: 5 kA
- Exclusive devices for photovoltaic systems according to EN 50539-11. Maximum voltage rating 1500 V DC
- Remote and visual indication of protection device life status
- No back-up fuse required thanks to a dynamic thermal disconnection system with a breaking capacity of 10 kA (I_{scpv})

PSC Range

Type 1 + 2 Overvoltage Protectors



CPT-PSC3-5-1000IR

I _{imp} L-L (kA 10/350)	I _{max} L-L (kA 8/20)	In L-L (kA 8/20)	Poles	Uc Max (V DC)	Up (kV @In)	Item Type	Catalogue No.	\$AU
5	40	20	2P + E	1060	4	I	CPT-PSC3-5-1000IR	1,772.00

PSM Range

Type 2 Overvoltage Protectors



CPT-PSM3-40-1500IR

I _{max} L-L (kA 8/20)	In L-L (kA 8/20)	Poles	Uc Max (V DC)	Up (kV @In)	Item Type	Catalogue No.	\$AU
40	20	2P + E	600	2.6	I	CPT-PSM3-40-600IR	588.00
40	20	2P + E	1060	4	I	CPT-PSM3-40-1000IR	605.00
40	15	2P + E	1500	5	I	CPT-PSM3-40-1500IR	731.00

CPS Block Plus TVSS Modular Surge Protective Panels

High capacity power surge diverters with noise filtration suitable for installation at the service entrance or in high lightning risk areas. Available as a panel mount device and tested to UL1449 3rd Edn the CPS Block Plus is available from 120 to 240kA.

- CPS Block Plus is the range of modular surge protection devices (SPD - TVSS) in accordance with UL 1449 3rd edition. NEMA type enclosure with replaceable surge protection modules, prewired
- Depending on the maximum discharge capacity of the suppressor and the exposure level of the installation, they are suitable either as the first stage of protection in outbuildings, service entrances and main panels, or as the second stage protection in main panels, distribution panels and short distance circuits. Location categories C and B respectively in accordance with IEEE C62.41.2-2002
- Maximum discharge capacity per phase with 8/20 μ s waveform. I_{max}: 240 kA, 200 kA, 160 kA and 120 kA, depending on the model
- Nominal discharge current per phase with an 8/20 μ s waveform. I_n: 20 kA.
- Redundant Multi Discharge System (MDS) using varistor technology with individual disconnect of each MOV. All-mode-protection: common and differential mode protection (AMP)
- LED system for early end of life warning: Intelligent Aging Display (IAD®) for monitoring the % protection available for each mode. Values: 0%, 33%, 66%, 100%. With remote indication (IR)
- Electromagnetic and radio frequency interference (EMI/RFI) filter

CPS Block Plus Surge Diverters

I _{max} L-L (kA 8/20)	Un L-N / L-L (V AC)	V _{pr} L-N / L-L (V)	Phases	Protection (modes)	IP Rating	Item Type	Catalogue No.	\$AU
120	230 / 400	1000 / 2000	3P	L-N, L-G, N-G, L-L	IP55		CPTCPSBLOCKPLUS120	7,641.00
160	230 / 400	1000 / 2000	3P	L-N, L-G, N-G, L-L	IP55	I	CPTCPSBLOCKPLUS160	7,932.00
200	230 / 400	1000 / 2000	3P	L-N, L-G, N-G, L-L	IP55		CPTCPSBLOCKPLUS200	8,938.00
240	230 / 400	1000 / 2000	3P	L-N, L-G, N-G, L-L	IP55	I	CPTCPSBLOCKPLUS240	9,759.00



CPTCPSBLOCKPLUS120

CPS Nano Plus TVSS Surge Protection Devices

Compact hardwired surge protection with noise filter. The CPS Nano Plus has UL1449 certification and is suitable for installation at the distribution board level or the main board level in areas of lower risk of atmospheric activity.

- CPS Nano Plus is the range of non-modular surge protection devices (SPD - TVSS) in accordance with UL 1449 3rd edition. NEMA type enclosure, hardwired compact format
- Depending on the maximum discharge capacity of the suppressor and the exposure level of the installation, they are suitable either as the first stage of protection in outbuildings, service entrances and main panels, or as the second stage protection in main panels, distribution panels and short distance circuits, or also as the third stage next to individual equipment and subpanels in long distance circuits. Location categories C, B and A respectively in accordance with IEEE C62.41.2-2002
- Maximum discharge capacity per phase with 8/20 μ s waveform. I_{max}: 160 kA, 120 kA, 80 kA, 60 kA and 40 kA, depending on the model
- Nominal discharge current per phase with an 8/20 μ s waveform. I_n: 10 to 20 kA, depending on the model
- Redundant Multi Discharge System (MDS) using varistor technology with individual disconnect of each MOV. All-mode-protection: common and differential mode protection (AMP)
- LED system for early end of life warning: Intelligent Aging Display (IAD®) for monitoring the % protection available for the equipment. Values: 0%, 50%, 100%. With remote indication (IR)
- Electromagnetic and radio frequency interference (EMI/RFI) filter

I _{max} L-L (kA 8/20)	Un L-N / L-L (V AC)	V _{pr} L-N / L-L (V)	Phases	Protection (modes)	IP Rating	Item Type	Catalogue No.	\$AU
60	230 /	1000 /	1P	L-N, L-G, N-G, L-L	IP66	I	CPTCPSNANOPLUS1P60	1,801.00
40	230 / 400	1000 / 2000	3P	L-N, L-G, N-G, L-L	IP66	I	CPTCPSNANOPLUS3P40	1,759.00
60	230 / 400	1000 / 2000	3P	L-N, L-G, N-G, L-L	IP66	I	CPTCPSNANOPLUS3P60	2,178.00
80	230 / 400	1000 / 2000	3P	L-N, L-G, N-G, L-L	IP66	I	CPTCPSNANOPLUS3P80	2,680.00
120	230 / 400	1000 / 2000	3P	L-N, L-G, N-G, L-L	IP66		CPTCPSNANOPLUS3P120	3,517.00
160	230 / 400	1000 / 2000	3P	L-N, L-G, N-G, L-L	IP66	I	CPTCPSNANOPLUS3P160	3,752.00



CPTCPSNANOPLUS3P40

Surge Protection

Cirprotec Fine Protection Surge Diverters



- Compact size
- Status indication (or LED)
- DIN rail mounting
- Thermal disconnection
- Remote indication (via volt free contact)
- Integrated MOV and / or spark gap technology

Fine protection surge protection devices for final protection of sensitive equipment, communication networks, RF installations and I/O circuits.

DIN Rail Mounted Fine Protection Surge Diverters

DIN rail mounted surge diverters for Telephone networks, Data networks, Measurement and Control, and RF networks.

- DIN 12 and 24 are the series of devices for discharging transient overvoltages networks and digital networks
- In accordance with IEC 61643-21
- DIN rail format or rail monobloc format (varies by part number)
- Suitable for the protection of instrumentation installed in RS 232 networks. By their nature, they are highly exposed to induced transient overvoltages (surges) associated with meteorological activity
- Suitable for the protection of instrumentation installed in binary networks. By their nature, they are highly exposed to induced transient overvoltages (surges) associated with meteorological activity
- Protection of a pair of wires / four – wire protection
- Provides models with protection of the following signal types DeviceNet, RS 485 / 422, 4-20 mA, PROFIBUS PA, Binary signals, KNX bus, Modbus, PTC



CPT-DIN6V-2C

Un L-N/PE (V AC)	Uc Max (V AC)	Imax L-PE (kA)	In L-PE (kA)	Protected (wires)	Item Type	Catalogue No.	\$AU
6	7	10	5	1 pair	I	CPT-DIN6V-2C	373.00
12	16	10	5	2+GND	I	CPT-DIN12V-3	430.00
12	16	10	5	2+GND	I	CPT-DIN485-3	510.00
12	16	10	5	7+GND	I	CPT-DIN12V-8	720.00
24	30	10	5	1 pair	I	CPT-DIN24V-3A	356.00
24	30	10	5	4	I	CPT-DIN24V-4G1	533.00
24	16	10	5	4+GND	I	CPT-DIN24V-5N	596.00
24	16	10	5	7+GND	I	CPT-DIN24V-8	604.00
48	180	10	5	1 pair	I	CPT-DIN485-2C	481.00
50	180	10	5	1 pair	I	CPT-DIN-ADSL	264.00

CSF21

CSF is the range of combined Type 2+3/Class II+III devices intended for protecting against induced voltage surges (8/20 µs) while providing a very fine protection (1,2/50 µs) to sensitive equipment, in accordance with the IEC/EN 61643-11 standard.

Un L-N/PE (V AC)	Uc Max (V AC)	Imax L-N (kA)	Imax L-N (kA)	Item Type	Catalogue No.	\$AU
12	20	6	6	I	CPTCSF21-12IR	387.00
20	150	6	6	I	CPTCSF21-120IR	384.00
24	30	6	6	I	CPTCSF21-24IR	387.00
30	275	20	20	I	CPTCSF21-230IR	396.00
48	60	6	6	I	CPTCSF21-48IR	387.00
60	75	6	6	I	CPTCSF21-60IR	387.00

Communication, Data, Control and RF Surge Protection Devices

BNV Terminal Surge Protection

BNV DIN mounted terminal SPDs suitable for protection of analogue signals, Profibus networks, binary signals and KNX bus.

Surge Protection Communication Devices



CPT-BNV30

Communications	Imax L-PE (kA)	In L-PE (kA)	Un L-N/PE (V AC)	Protected (wires)	Item Type	Catalogue No.	\$AU
24V 2-wire Analogue Data, RS-232, Profibus PA, 24V 2-wire Digital Data	5	5	24	2	I	CPT-BNV30	303.00

Ethernet SPDs for Cat. 5e and Cat. 6

Surge protection for Ethernet data networks for Cat 5e and Cat 6 networks.

Ethernet Cables for Surge Protection Devices

Item Description	Item Type	Catalogue No.	\$AU
ETHERNET 1P POE CAT6		CPTNETPRO1PPOE	645.00
ETHERNET RJ45 F-F CAT6 18P	I	CPTNETPROCG18P6	11,043.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Surge Protection

MOD6 Electrical Network Surge Diverters



IEC Type 2

Class II monobloc surge protection device for secondary protection or for installations where there is no exposure to direct lightning. Ideal for distribution boards.

Electrical Network Diverters

- MOD6 Electrical Network Diverters are a range of devices for discharging induced transient overvoltages (Type 2 / Class II), in accordance with IEC 61643-11
- DIN rail plug-in format
- Suitable for the second stage of protection in supply distribution panels in which Type 1 protection devices are installed, or for the first stage of protection in residential, commercial or other applications not exposed to direct strikes and with no external lightning protection system
- High discharge capacity with an 8/20 μ s waveform. I_{max}: 40 kA or 30 kA
- Remote and visual indication of life status of the protection device
- Biconnect - two types of terminal: for rigid or flexible cable and for fork type comb busbar



MOD6-SD1-20-230

Poles	I _{max} L-N (kA)	I _n L-N (kA)	U _n (V AC)	U _p (kV @I _n)	Protection (modes)	Item Type	Catalogue No.	\$AU
1P	20	10	230	1.4	L-N		MOD6-SD1-20-230	111.00
1P	40	20	230	1.3	L-N		MOD6-SD1-40-230	143.00
1P + N	20	10	230	1.4	L+N-PE		MOD6-SD2-20-230	265.00
1P + N	40	20	230	1.3	L+N-PE		MOD6-SD2-40-230	334.00
3P + N	20	10	400	1.4	L+L+L+N-PE		MOD6-SD4-20-400	478.00
3P + N	40	20	400	1.3	L+L+L+N-PE		MOD6-SD4-40-400	538.00

Surge Protection

Allen-Bradley Electrical Network Surge Diverters

- DIN Rail mount surge diverters for fast and easy installation
- Surge modules to suit all points of installation from the main board to the communications networks
- Panel mount surge filter option to filter out high frequency noise to prevent premature aging of equipment

Surge protection devices for the protection and filtering of AC electrical power networks.



4983-DS AC Power Surge Diverter

Bulletin 4983-DS offers a number of options to meet your basic surge protection needs. The 4983-DS products are connected in parallel and use an MOV to clamp high-voltage surges. The 4983-DS is primarily used in the main electrical panel for the protection of single- and three-phase systems, and conforms to UL1449 and UL1283.

I _{max} L-L (kA 8/20)	I _n L-L (kA 8/20)	U _n L-L (V AC)	U _p (kV @I _n)	Protection (modes)	Item Type	Catalogue No.	\$AU
40	20	277	1.8	L-G, N-G		4983-DS277-401	159.63
80	20	277	1.8	L-G, N-G	I	4983-DS277-804	1,074.42



4983-DS277-401

Temperature Monitoring

Osensa FTX Over Temperature Monitoring



- Continuous real-time temperature monitoring
- Accepts up to 24 optical fiber sensor inputs (6 channels per base unit)
- 12-24VDC power
- Modbus RTU communications
- DIN-rail mountable

Overheating is one of the largest causes of failure in critical switchboards components such as Moulded Case Circuit Breakers (MCCBs) and Air Circuit Breakers (ACBs). Modern circuit protection is provided by digital, microprocessor based overcurrent relays which are operated by measuring current flow, not heat. Therefore, abnormal heating caused by loose connection bolts, ventilation failure or worn contacts are usually left undetected by conventional circuit protection devices. This abnormal heating can lead to pre-mature failure of switchgear and also constitutes a potential fire hazard. The NHP 3C Over Temperature Monitoring System extends the level of monitoring potential hot spots in the switchboard. This system is installed within a switchboard control cubical and is connected directly to the busbar or switchgear terminals by a non-conductive fibre optic probe that is terminated with a special lug. The temperature is measured by pulsing a laser down a fibre optic cable causing a phosphor dot within the lug to glow. The temperature monitoring module then measures the decay rate of the phosphor glow and calculates the temperature.

Product Selection



- 1 Choose a Temperature Transmitter**
At how many critical points (channels) are you monitoring temperature? 6,12,18 or 24
- 2 Choose a Temperature Probe**
What is the required probe cable length? 5 or 10m
Extension cables of 10 or 15m are available if required.
- 3 Choose a Connector Ring for Probe Tip Mounting**
What is the mounting procedure? 10.1 or 13.1mm
- 4 Optional real-time temperature monitoring and configuration software and configuration cables** are available for local monitoring and data logging.



B8301D_05ELN-101

Temperature Transmitters

Each temperature transmitter accepts six optical fiber sensor inputs for convenient three-phase monitoring and includes isolated RS-485 serial connectivity over industry standard Modbus RTU protocol. Each kit includes a DIN rail TBUS connector which enables multiple transmitters to be connected serially on a standard 35mm DIN rail.



FTX602PWR6CH

Item Description	Item Type	Catalogue No.	\$AU
6 Channel Temperature Transmitter, RS-485 only with DIN Rail T-BUS Connector	K	FTX602PWR6CH	3,393.00
12 Channel Temperature Transmitter, RS-485 only with DIN Rail T-BUS Connector	K	FTX602PWR12CH	6,754.00
18 Channel Temperature Transmitter, RS-485 only with DIN Rail T-BUS Connector	K	FTX602PWR18CH	10,117.00
24 Channel Temperature Transmitter, RS-485 only with DIN Rail T-BUS Connector	K	FTX602PWR24CH	13,478.00

Temperature Probes

NHP 3C medium voltage fiber optic temperature sensors provide reliable 24/7 thermal monitoring with noise-free performance. The probes are constructed from durable, high dielectric strength materials and have been tested to safely operate on equipment rated up to 38kV (22kV DC).



PRB-GB3-05M-ST-L-TP2

Item Description	Item Type	Catalogue No.	\$AU
5m Fibre Optic Temperature Probe with Ring ClampTip		PRB-GB3-05M-ST-L-TP2	407.00
10m Fibre Optic Temperature Probe with Ring ClampTip	I	PRB-GB3-10M-ST-L-TP2	498.00

Accessories

A range of accessories for the 3C Temperature sensing products are available to suit various applications.

Extension Cables

Item Description	Item Type	Catalogue No.	\$AU
All Polymer optical fibre extension cable, 10m long	I	EXT-PF1-10M-ST-ST	303.00
All Polymer optical fibre extension cable, 15m long	I	EXT-PF1-15M-ST-ST	353.00



EXT-PF1-10M-ST-ST

Connectors

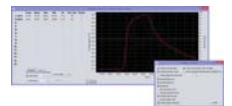
Item Description	Item Type	Catalogue No.	\$AU
Connector Ring for Probe Tip Mounting, 10.1mm diameter	I	ACC-CONN-RING-0.375IN	8.95
Connector Ring for Probe Tip Mounting, 13.1mm diameter	I	ACC-CONN-RING-0.5IN	8.95



ACC-CONN-RING-0.375IN

Configuration Software

Item Description	Item Type	Catalogue No.	\$AU
Real time temperature monitoring software	I	OSENSAVIEW-PRO	559.00



OSENSAVIEW-PRO

Configuration Cables

Item Description	Item Type	Catalogue No.	\$AU
Communication cable to convert USB to RS-485	I	ACC-CBL-USB-RS485	172.00



ACC-CBL-USB-RS485

Arc Flash Detection Technologies

ArcLogiX™ Current Sensing

- Simple to use - One touch button press allows ACB maintenance mode to be easily turned on and off
- Cost effective - Visualisation on the touch screen of up to 12 connected ACBs
- Energy efficiency - Realtime ACB energy management data available on the HMI
- Situational awareness - Email personnel noncompliance violations and maintenance alarms
- Visualisation of key parameters - ACB protection settings and internal ACB contact temperatures (Arc LogiX™ CS only designed to function with Terasaki AR ACBs)
- Isolation of personnel when switching - Remote open and closing of the ACB
- Switchboard health indicators - Smart touch screen can monitor up to six switchboards mounted PT100 temperature sensors

Arc LogiX™ CS is a smart touch screen based system that works by implementing a temporary protection setting 'maintenance mode' within the incoming Terasaki AR series ACBs before people can enter the switchroom. This 'maintenance mode' reduces the ACBs instantaneous short circuit 'pick up' setting to its lowest level, therefore providing optimum fault clearance time and minimal damage during an arc flash occurring below the ACB. The Arc LogiX™ CS should be used in conjunction with a Arc LogiX™ Optical arc flash relay to provide protection on the load and line side of the ACB.

ARCLO CS Arc Detection System

- Improve personnel safety - Can greatly reduce the danger from an arc flash within a switchroom
- Reduce potential power shutdowns - Can limit the damage to switchboard infrastructure
- Recognised methodology - Validated method of arc flash mitigation as outlined in AS/NZS 3000:2018 clause 2.5.5.3
- Locally proven - Performance confirmed by a NATA approved Australian test laboratory
- One touch activation - Easy to use by maintenance workers
- On-site compliance - Full visibility and automatic notifications of personnel non-compliance violations
- Smart Design - Do more with integrated ACB maintenance information and energy management data
- Backward compatible - Suitable for use with many older Terasaki TemPower 2 ACBs (manufactured post 2009)
- Low cost Investment - One Arc LogiX™ system will connect to a maximum of twelve applicable Terasaki AR ACBs
- Simple installation - Ideal for installation during an ACB retrofit



ARCLOGIX-CS-ML

Item Description	Auxiliary Input Voltage (V AC)	Auxiliary Output Voltage (V DC)	Comms	Item Type	Catalogue No.	\$AU
ARCLOGIX™ CS SYSTEM ML VERSION	240	24	RS-485	A	ARCLOGIX-CS-ML	42,851.00

Arc Flash Detection Technologies

ArcLogiX™ Optical Sensing

- Improve personnel safety - Can greatly reduce the danger from an arc flash within a switchroom
- Reduce potential power shutdowns – Can limit the damage to switchboard infrastructure
- Recognised methodology - Validated method of arc flash mitigation as outlined in AS/NZS 3000:2018 clause 2.5.5.3
- Locally proven - Performance confirmed by a NATA approved Australian test laboratory

The Arc LogiX™ optical relays are a cost-effective range designed to limit arc-fault damage. These relays use fiber optic light sensors to rapidly detect an arc fault event and trip a circuit breaker. The compact body is ideal for new and retrofit installations, suitable for MV and LV switchgear cubicles, transformer compartments, generator control panels or motor control centers.

ARCLO Arc Detection Relays

The Arc LogiX™ Optical product range includes three different core arc flash relay technologies that are designed to meet performance, technology and cost requirements.

ARCLO SS Arc detection relay

Super high speed, cost competitive basic arc fault protection for switchgear utilising two optical point sensors. Perfect for use in small one or two ACB switchboards or in a panelboard.

- Compact, simple, rugged and economic design
- Simple wiring and DIN rail mounting
- High speed arc fault tripping output to interface with protection relay status inputs
- Apply to initiate IEC61850 GOOSE messaging of arc fault events
- Continuous arc fault sensor supervision, arc fault pick up and supervision health indication

Item Description	Auxiliary Input Voltage (V DC)	Sensor Inputs	Trip Output Contacts	Item Type	Catalogue No.	\$AU
ARCLOGIX™ OPTICAL SS ARC DETECTION RELAY 2I/1O 24V DC	24	2	1		ARCLOSS2I1O24VDCPS	1,678.00



ARCLOSS2I1O24VDCPS

ARCLO RS Arc detection relay

High speed arc fault protection for switchgear with multiple arc protection zones utilizing four optical point sensors and one optical linear sensor. Ideal for use in main switchboards with multiple ACBs and multiple monitoring zones, especially if there is a busway to monitor.

- Three high speed tripping zone outputs
- Front panel reset
- Three high speed tripping zone outputs
- Front panel reset
- Continuous arc sensor supervision
- Integrated self-supervision with fail alarm contact
- Surface or rail mount

Item Description	Auxiliary Input Voltage (V DC)	Sensor Inputs	Trip Output Contacts	Item Type	Catalogue No.	\$AU
ARCLOGIX™ OPTICAL RS ARC DETECTION RELAY 5I/3O PANEL MOUNT	24	5	4	I	ARCLORS5I3O24VDCPLP	7,799.00
ARCLOGIX™ OPTICAL RS ARC DETECTION RELAY 5I/3O DIN MOUNT	24	5	4		ARCLORS5I3O24VDCPLS	7,799.00



ARCLORS5I3O24VDCPLS

1

ARCLO Sensors

The Arc LogiX™ Optical relays are designed to monitor remote optical sensors that respond to the flash of light emitted during the incidence of an arcing fault. Onset of the light flash and detection by the sensors occurs in a few milliseconds.

ARCLO PS Point sensor

This electrically wired point sensor is suitable for application in discrete compartments in metal clad switchgear and cable ducts. When an arc is detected, the resistance presented by the drops to a level where the current flow increases to approximately 20mA. This increased current flow is instantaneously detected by the arc faults relay.

- Two optical detectors
- High speed arc detection
- Integrated sensor circuit supervision
- Compact rugged design
- Heavy duty 6m termination cable, optional 20m & screened cables
- Simple flush panel mounting outside or inside switchgear compartment
- Very low sensitivity to ambient light levels to avoid nuisance tripping even in direct sunlight
- Sealed module for harsh environments with an optional metal reinforced mounting shield



ARCLOPS

Item Description	Detection (area)	Length, Cable (m)	Item Type	Catalogue No.	\$AU
ARCLOGIX™ OPTICAL POINT SENSOR DUAL DETECTION	180° x 360° - 6m	6		ARCLOPS	792.00

ARCLO LS Linear sensor

The linear sensor may be applied to protect large volumes where multiple point sensors would otherwise be required. A separate linear sensor is required for each segregated protection zone. Compatible only with Optical RS and GM arc detection relays.

- Linear sensor for wide of arc protection coverage
- Optional sensor fibre length
- Optional link fibre length
- Loop topology allows sensor supervision
- Robust and durable 2mm plastic optical fibre
- Sensor length up to 35 meters
- Sensor link adds another 40 meters in length
- Robust and durable 2mm plastic optical fibre
- No special tools required for installation



ARCLOLS10M

Item Description	Detection (area)	Length, Sensor (m)	Length, Cable (m)	Item Type	Catalogue No.	\$AU
ARCLOGIX™ OPTICAL LINEAR SENSOR 10M	360°	10	5		ARCLOLS10M	2,689.00

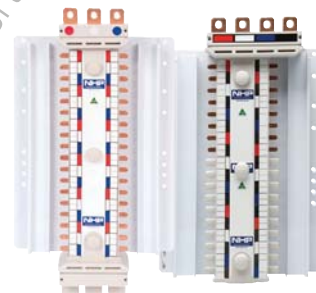
Chassis

NC Chassis

1

NC Chassis 3 Pole	Page 159
NC Chassis 4 Pole	Page 161
NC Chassis 3P+N Pole	Page 162
NC Chassis 2 Pole	Page 162
NC Chassis Accessories	Page 162

- Current ratings 250A and 400A
- Encapsulated busbar (no insulation coating required)
- Withstand ratings 250A 25kA 0.1S, (20kA 0.3S, 10kA 1.0S)
- Withstand ratings 400A 30kA 0.1S, (25kA 0.3S, 13kA 1.0S)
- Busbar direct connect to 160A or 250A switch saving space
- Tee-offs 50% capped
- IP20 with 160A and 250A main switch - touch protection
- IP20 connection kits to 250A MCCB - touch protection
- Interchangeable with CD chassis allows older boards to be upgraded



The NC range of encapsulated busbar chassis provides a secure platform and connection system for the NHP DIN-T range of MCB and RCBOs. The busbars are fully enclosed therefore not requiring an insulated coating for electrical isolation. The NC chassis are partial type tested and are mounted on a sturdy box section steel pan powder coated white. The Concept family of panelboards have been specifically designed to incorporate the NC chassis system.

NC Chassis 3 Pole

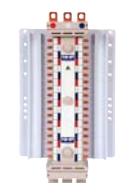
Phase colours are red, white and blue.

- Complies with AS/NZS 61439, AS/NZS 3000 – 2018
- Main bar current ratings 250 A and 400 A
- 3 pole (3 phase)
- Encapsulated busbar (no insulation coating required)
- Withstand ratings 250 A 25 kA for 0.1 s, 20 kA for 0.3 s, 10 kA for 1.0 s
- Withstand ratings 400 A 30 kA for 0.1 s, 25 kA for 0.3 s, 13 kA for 1.0 s
- Busbar direct connect to 160 A or 250 A switch saving space
- Tee-offs 12 to 96 pole (400A to 108 poles) Tee-offs 50% with caps
- IP20 with 160 A and 250 A main switch - touch protection IP20 connection kits to 250 A MCCB - touch protection
- Interchangeable with CD chassis allows older boards to be upgraded

250A (18mm Pole Pitch)

Universal Fed

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
12	111	134		NC2-12-18-3U	347.00
18	165	188		NC2-18-18-3U	391.00
24	219	242		NC2-24-18-3U	491.00
30	273	296		NC2-30-18-3U	542.00
36	327	350		NC2-36-18-3U	610.00
42	381	404		NC2-42-18-3U	658.00
48	435	458		NC2-48-18-3U	744.00
54	489	512		NC2-54-18-3U	829.00
60	543	566		NC2-60-18-3U	860.00
72	651	674		NC2-72-18-3U	1,146.00
84	759	782		NC2-84-18-3U	1,482.00
96	867	890		NC2-96-18-3U	1,718.00



NC2-12-18-3U

1



NC2-12-18-3TF

Top Fed

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
12	111	134		NC2-12-18-3TF	347.00
18	165	188		NC2-18-18-3TF	391.00
24	219	242		NC2-24-18-3TF	491.00
30	273	296		NC2-30-18-3TF	542.00
36	327	350		NC2-36-18-3TF	610.00
42	381	404		NC2-42-18-3TF	658.00
48	435	458		NC2-48-18-3TF	744.00
54	489	512		NC2-54-18-3TF	829.00
60	543	566		NC2-60-18-3TF	860.00
72	651	674		NC2-72-18-3TF	1,146.00
84	759	782		NC2-84-18-3TF	1,482.00
96	867	890		NC2-96-18-3TF	1,718.00



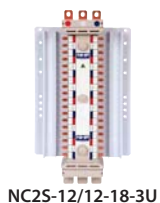
NC2-12-18-3BF

Bottom Fed

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
12	111	134		NC2-12-18-3BF	347.00
18	165	188		NC2-18-18-3BF	391.00
24	219	242		NC2-24-18-3BF	491.00
30	273	296		NC2-30-18-3BF	542.00
36	327	350		NC2-36-18-3BF	610.00
42	381	404		NC2-42-18-3BF	658.00
48	435	458		NC2-48-18-3BF	744.00
54	489	512		NC2-54-18-3BF	829.00
60	543	566		NC2-60-18-3BF	860.00
72	651	674		NC2-72-18-3BF	1,146.00
84	759	782		NC2-84-18-3BF	1,482.00
96	867	890		NC2-96-18-3BF	1,718.00

250A Split Chassis (18mm Pole Pitch)

Universal Fed



NC2S-12/12-18-3U

Poles	Poles (Top)	Poles (Bottom)	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
24	12	12	219	242		NC2S-12/12-18-3U	843.00
36	12	24	327	350		NC2S-12/24-18-3U	945.00
36	18	18	327	350		NC2S-18/18-18-3U	945.00
48	18	30	435	458		NC2S-18/30-18-3U	1,079.00
48	24	24	435	458		NC2S-24/24-18-3U	1,079.00
60	18	42	543	566		NC2S-18/42-18-3U	1,197.00
72	24	48	651	674		NC2S-24/48-18-3U	1,350.00
72	36	36	651	674		NC2S-36/36-18-3U	1,350.00
84	30	54	759	782		NC2S-30/54-18-3U	1,482.00
84	42	42	759	782	I	NC2S-42/42-18-3U	1,482.00
96	36	60	867	890		NC2S-36/60-18-3U	1,668.00
96	48	48	867	890		NC2S-48/48-18-3U	1,668.00

400A (18mm Pole Pitch)

Universal Fed



NC4-12-18-3U

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
12	111	134		NC4-12-18-3U	663.00
18	165	188		NC4-18-18-3U	757.00
24	219	242		NC4-24-18-3U	851.00
30	273	296		NC4-30-18-3U	962.00
36	327	350		NC4-36-18-3U	1,030.00
42	381	404		NC4-42-18-3U	1,098.00
48	435	458		NC4-48-18-3U	1,252.00
54	489	512		NC4-54-18-3U	1,322.00
60	543	566		NC4-60-18-3U	1,390.00
72	651	674		NC4-72-18-3U	1,646.00
78	705	728	I	NC4-78-18-3U	1,766.00
84	759	782		NC4-84-18-3U	1,920.00
96	867	890		NC4-96-18-3U	2,211.00

Top Fed

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
24	219	242		NC4-24-18-3TF	851.00
36	327	350		NC4-36-18-3TF	1,030.00
48	435	458		NC4-48-18-3TF	1,252.00
60	543	566		NC4-60-18-3TF	1,390.00
84	759	782	I	NC4-84-18-3TF	1,920.00
108	975	998		NC4-108-18-3TF	2,432.00

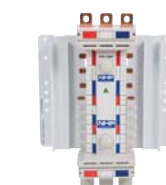


NC4-24-18-3TF

400A HYBRID (6 or 12 Poles 27mm Pitch and 24-60 Poles 18mm Pitch)

Universal Fed

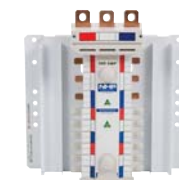
Poles (27mm Pitch)	Poles (18mm Pitch)	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
6	12	192	215		NCH4-6/12-27/18-3U	893.00
6	24	300	323		NCH4-6/24-27/18-3U	996.00
6	36	408	431		NCH4-6/36-27/18-3U	1,048.00
6	48	516	539		NCH4-6/48-27/18-3U	1,115.00
12	30	435	458		NCH4-12/30-27/18-3U	1,167.00
12	42	543	566		NCH4-12/42-27/18-3U	1,390.00
12	60	705	728		NCH4-12/60-27/18-3U	1,731.00



NCH4-6/12-27/18-3U

Top Fed

Poles (27mm Pitch)	Poles (18mm Pitch)	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
6	12	192	215		NCH4-6/12-27/18-3TF	893.00
6	24	300	323		NCH4-6/24-27/18-3TF	996.00



NCH4-6/12-27/18-3TF

400A (27mm Pole Pitch)

Universal Fed

Poles (27mm Pitch)	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
6	84	107		NCH4-6-27-3U	681.00
12	165	188		NCH4-12-27-3U	996.00
18	244	267		NCH4-18-27-3U	1,338.00
24	327	350		NCH4-24-27-3U	1,630.00



NCH4-6-27-3U

NC Chassis 4 Pole

Phase colours are red, black, white, black, blue and black (suit 2P RCBOs and 2P MCBs)

- Complies with AS/NZS 61439, AS/NZS 3000:2018
- Current ratings 250 A
- 4 pole chassis, phase colours: red, black, white, black, blue, black (for 2P RCBOs and 2P MCBs)
- 4 pole chassis 3P+N Pole, Phase colours: red, white, blue, black (for 4P MCBs)
- 2 pole chassis phase colours: red, black (for 2 pole DC rated MCBs)
- Encapsulated busbar (no insulation coating required)
- Withstand ratings 250 A 25 kA for 0.1 s, 20 kA for 0.3 s, 10 kA for 1.0 s
- Busbar direct connect to 160 A or 250 A switch saving space
- Tee-offs 50% with caps
- IP20 with 160 A and 250 A main switch - touch protection
- IP20 connection kits to 250 A MCCB - touch protection
- Interchangeable with CD chassis allows older boards to be upgraded

250A (18mm Pole Pitch)

Universal Fed

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
24	219	242		NC2-24-18-4U	1,083.00
36	327	350		NC2-36-18-4U	1,315.00
48	435	458		NC2-48-18-4U	1,578.00
60	543	566		NC2-60-18-4U	1,872.00
72	651	674		NC2-72-18-4U	2,453.00



NC2-24-18-4U

NC Chassis 3P+N Pole

Phase colours are red, white, blue and black (suit 4P MCBs).

- Complies with AS/NZS 61439, AS/NZS 3000 – 2018
- Main bar current ratings 250 A and 400 A
- 3 pole (3 phase)
- Encapsulated busbar (no insulation coating required)
- Withstand ratings 250 A 25 kA for 0.1 s, 20 kA for 0.3 s, 10 kA for 1.0 s
- Withstand ratings 400 A 30 kA for 0.1 s, 25 kA for 0.3 s, 13 kA for 1.0 s
- Busbar direct connect to 160 A or 250 A switch saving space
- Tee-offs 12 to 96 pole (400A to 108 poles) Tee-offs 50% with caps
- IP20 with 160 A and 250 A main switch - touch protection IP20 connection kits to 250 A MCCB - touch protection
- Interchangeable with CD chassis allows older boards to be upgraded

250A (18mm Pole Pitch)**Universal Fed**

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
24	219	242		NC2-24-18-3PNU	1,083.00
48	435	458		NC2-48-18-3PNU	1,578.00



NC2-48-18-3PNU

NC Chassis 2 Pole

Phase colours are red and black.

- Complies with AS/NZS 61439, AS/NZS 3000 – 2018
- Current ratings 250 A
- 4 pole chassis, phase colours: red, black, white, black, blue, black (for 2P RCBOs and 2P MCBs)
- 4 pole chassis 3P+N Pole, Phase colours: red, white, blue, black (for 4P MCBs)
- 2 pole chassis phase colours: red, black (for 2 pole DC rated MCBs)
- Encapsulated busbar (no insulation coating required)
- Withstand ratings 250 A 25 kA for 0.1 s, 20 kA for 0.3 s, 10 kA for 1.0 s
- Busbar direct connect to 160 A or 250 A switch saving space
- Tee-offs 50% with caps
- IP20 with 160 A and 250 A main switch - touch protection
- IP20 connection kits to 250 A MCCB - touch protection
- Interchangeable with CD chassis allows older boards to be upgraded

250A (18mm Pole Pitch)**Universal Fed**

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
24	219	242		NC2-24-18-2U	506.00
36	327	350		NC2-36-18-2U	627.00
48	435	458		NC2-48-18-2U	766.00



NC2-24-18-2U

NC Chassis Accessories**Connection Kits**

Includes copper spacers, shrouds and connection bolts.

250 A Tag Connect

Item Description	Item Type	Catalogue No.	\$AU
Connection Kit NC Chassis to 160/250 MCCB 3P TP/BF (includes tags and shrouds)		NCCK-3250	450.00
Connection Kit NC Chassis to 160/250 MCCB 4P Top Feed (108 mm Tag connection)	A	NCCK-2504P	666.00



NCCK-3250

400 A Tag Connect

Item Description	Item Type	Catalogue No.	\$AU
Connection Kit NC Chassis to 400 MCCB 3P Top Feed (90 mm Tag connection)		NCCK-400	886.00



NCCK-400

General Accessories

Item Description	Item Type	Catalogue No.	\$AU
Chassis Tee-Off Cap NC 250 A - 18 mm		NC250TOPC	1.35
Chassis Tee-Off Cap NC 250 A - 27 mm	I	NC250HTOPC	1.20
Chassis NC Busbar Plastic Cap		NCBBC	10.00
Chassis Tee-Off Cap NC 400 A - 27 mm	I	NC400HTOPC	1.20
Chassis Tee-Off Cap NC 400 A - 18 mm		NC400TOPC	1.20



NC400TOPC

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'Miscellaneous'



DIN MCB Chassis Order Form

KEY

R
W
B
N
AUX

Red 18mm tee-off
White 18mm tee-off
Blue 18mm tee-off
Neutral tee-off (black)
ALUX- auxiliary/alarm

Ordering Branch / Agent

Branch Sales Order No.

Branch Production No.

Customer Order No.

Branch Contact

Order Date

Customer

Deliver to

Contact Name

Project

Required by date

Application

- ☐ 1 Phase
- ☐ 1 Phase + Neutral
- ☐ 2 Phase
- ☐ 2 Phase + Neutral
- ☐ 3 Phase
- ☐ 3 Phase + Neutral

Write the tee-off colour,
in the respective cell

Chassis Type

- ☐ NC Chassis
- ☐ NCH Chassis
- ☐ CD Chassis
- ☐ CDH Chassis

Chassis Feed

- ☐ DOUBLE SIDED (standard)
- ☐ SINGLE SIDED RHS
- ☐ SINGLE SIDED LHS

Busbar Rating

- ☐ 250A
- ☐ 355A (CD / CDH only)
- ☐ 400A (NC / NCH only)

Chassis Feed Orientation

- ☐ DUAL FEED (standard)
- ☐ TOP FEED ONLY
- ☐ BOTTOM FEED ONLY
- ☐ NO FEED
- ☐ SPLIT CHASSIS *E.G NC2S, NCH4S* ¹⁾

1) show location of split on drawing

Delivery

- ☐ Customer
- ☐ Workshop

Description

QTY

NOTE:

LHS tee-off can be different to the opposite
RHS tee-off. **on the NC Chassis ONLY**

Use standard metal pan size as shown on left
otherwise surcharge will apply

Form: POWERMAXDINMCBVrev1

This form is available at nhp.com.au/forms

Chassis

GB (Grizz-Bar) Isolation Chassis



- Current rating 250A
- Isolation switch per tee-off AC20
- Encapsulated busbar (no insulation on coating required)
- Withstand rating 250A 25kA 0.1s, 10kA 1.0s
- Busbar direct connect to 160A or 250A switch saving space
- Tee-offs 50% capped
- IP20 with 160A and 250A main switch - touch protection
- IP20 connection kits to 250A MCCB -touch protection
- Captive padlock option
- Interchangeable with CD chassis allows older boards to be upgraded

The Grizz-Bar GB range of encapsulated isolation busbar chassis provides a secure platform and connection system for the NHP DIN-T range of MCBs and RCBOs. Each tee-off has an inbuilt isolation switch complete with mechanical interlock allowing it to be separately isolated. The busbars are fully enclosed therefore not requiring an insulated coating for electrical isolation. The GB chassis are partial type tested and are mounted on a sturdy box section steel pan powder coated white. The Concept family of panelboards have been specifically designed to incorporate the GB chassis system.

GB Chassis 3 Pole

Phase colours are red, white and blue.

- Complies with AS/NZS 61439, AS/NZS 3000 – 2018
- Main bars rated 250 A3 pole (3 phase)
- Each tee-off has an inbuilt interlocked isolation switch for user safety
- Isolation switch per tee-off rated AC20
- Encapsulated busbar (no insulation coating required)
- Withstand ratings: 250 A 25 kA for 0.1s, 10 kA for 1.0 s
- Chassis main bars direct connect to 160 A or 250 A main switch saving space
- Tee-offs 12 to 96 pole
- Tee-offs 50% with caps
- IP20 touch protection for chassis 160 A and 250 A main switches
- IP20 touch protection for 250 A MCCB to chassis connection kits
- Chassis are optional universal or top fed only main bar connection
- Captive padlock option
- Interchangeable with CD chassis allows older boards to be upgraded

250A (18mm Pole Pitch)

Top Fed



GB212183TF

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
12	110	140		GB212183TF	778.00
24	218	248		GB224183TF	1,051.00
36	326	356		GB236183TF	1,353.00
48	434	464		GB248183TF	1,652.00
60	542	572		GB260183TF	1,967.00
72	650	680		GB272183TF	2,318.00
84	758	788		GB284183TF	2,766.00
96	866	896		GB296183TF	3,102.00

Universal Fed



GB212183U

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
12	110	140		GB212183U	970.00
24	218	248		GB224183U	1,237.00
36	326	356		GB236183U	1,567.00
48	434	464		GB248183U	1,853.00
60	542	572		GB260183U	2,186.00
72	650	680		GB272183U	2,517.00
84	758	788	I	GB284183U	2,967.00
96	866	896		GB296183U	3,317.00

Bottom Fed

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
24	218	248		GB224183BF	1,051.00
36	326	356		GB236183BF	1,353.00
48	434	464		GB248183BF	1,652.00
60	542	572		GB260183BF	1,967.00
72	650	680		GB272183BF	2,318.00
84	758	788		GB284183BF	2,766.00
96	866	896		GB296183BF	3,102.00



GB224183BF

GB Chassis Accessories

General Accessories

Item Description	Item Type	Catalogue No.	\$AU
GB Isolation Chassis Padlocking Mechanism 1P (suits Both LH and RH)		GBLM	90.00
GB Isolation Chassis Padlocking Mechanism 2P/4P (suits Both LH and RH)		GBLM2P	147.00
GB Isolation Chassis Toggle Bar 1 Pole		GBTB1	3.85
GB Isolation Chassis Toggle Bar 2 Pole		GBTB2	3.85
GB Isolation Chassis Toggle Bar 3 Pole		GBTB3	3.85
GB Isolation Chassis Toggle Bar 4 Pole		GBTB4	3.85
GB Isolation Chassis Tee-Off Cap		GBTOC	2.65
GB Isolation Chassis GB Busbar Cap	I	GBBBC	7.45
DIN-T Through Terminal 100 A 1P		DINTT100A	58.00



DINTT100A

Pricing in this document is invalid – for pricing and availability please access the NHP Customer Portal via My Account

1



Isolation MCB Chassis Order Form

Ordering Branch / Agent		Customer order No	
Sales order No.		Branch Contact	
Production order No.		Order Date	
Customer		Contact Name	
		Contact Phone	
Deliver to		Project	
		Required by Date	

[illegible]

Use standard metal pan size as shown on left otherwise surcharge will apply

Description

Quantity

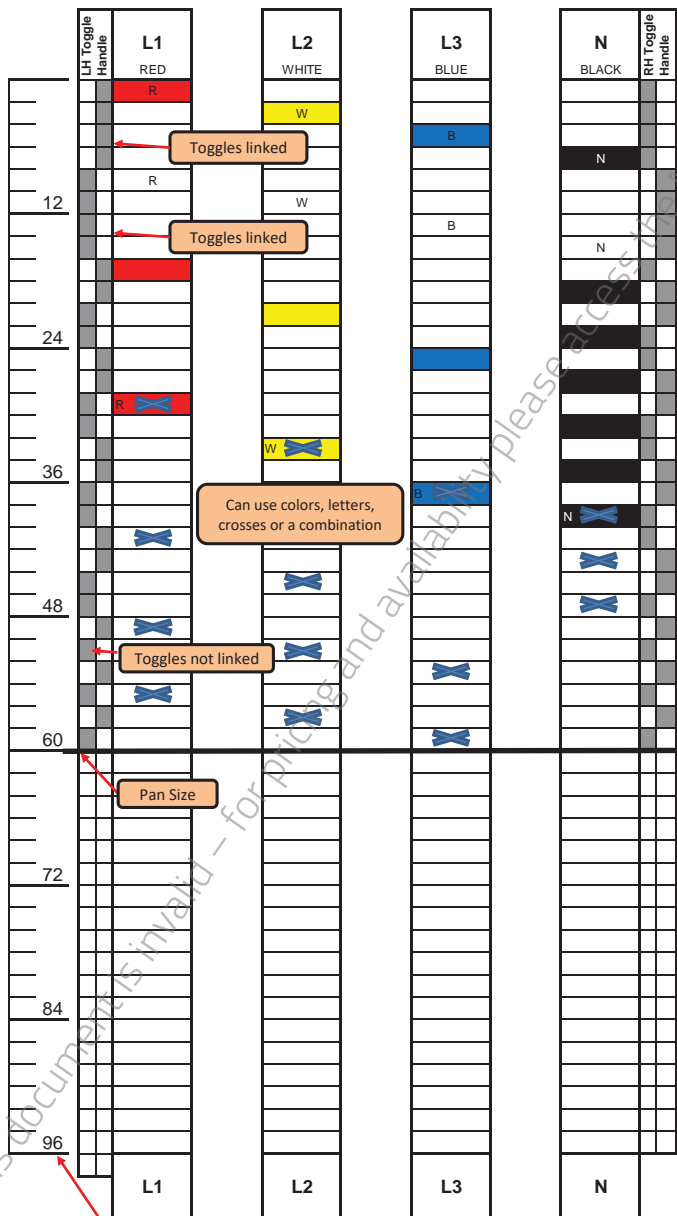
Form: POWERMAXISOMCBVrev1

Use POWERMAX DIN MCB
chassis order form for NC, CD
chassis



Isolation MCB Chassis Order Form

Ordering Branch / Agent	Laverton	Customer order No	Smithabc
Sales order No.	SOR0123456	Branch Contact	Fred Long
Production order No.	PRO0123456	Order Date	1/07/2018
Customer	Smith Electrics	Contact Name	John Smith
Deliver to	Laverton	Contact Phone	PH040123456
		Project	NHP Expansion
		Required by Date	15/07/2018



Application

- ☐ 1 Phase
- ☐ 1 Phase & Neutral
- ☐ 2 Phase
- ☐ 2 Phase & Neutral
- ☐ 3 Phase
- ☒ 3 Phase & Neutral

Cross the location of tee offs
(colour coded) on the dwg

Type

- ☒ GB Chassis (Din-T)

Feed

- ☒ Top Feed (standard)
- ☐ Bottom Feed
- ☐ Dual Feed (universal)
- ☐ No Feed

Busbar Rating

- ☒ 250 Amp

Delivery

- ☐ Customer
- ☒ Workshop

KEY

Red tee-off	R
White tee-off	W
Blue tee-off	B
Neutral (black)	N

Use POWERMAX DIN MCB
chassis order form for NC, CD
chassis

Description

SPX-GB260184TF

Quantity

2

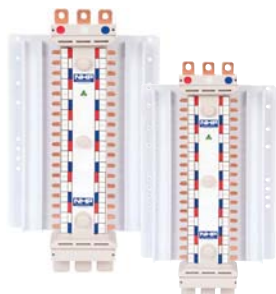
Form: POWERMAXISOMCBVrev1

B2202D_dFORM-502

1

Chassis

MOD6 Chassis



- Current rating 250A
- MOD6 encapsulated busbar
- Busbar direct connect to 160A or 250A switch saving space
- Tee-offs 50% capped
- Withstand ratings 25kA 0.1S (20kA 0.3S, 10kA 1.0S)
- IP20 with 160A and 250A main switch - touch protection
- IP20 connection kits to 250A MCCB - touch protection

The MOD6 range of busbar chassis provides a secure platform and connection system for the NHP MOD6 range of MCBs and RCBOs. The MOD6 chassis are partial type tested and are mounted on a sturdy box section steel pan powder coated white. The Concept One panelboards have been specifically designed to incorporate the MOD6 chassis system.

M6NC Chassis 250A - 3 Pole (18mm Pole Pitch)

- Withstand ratings 250A 25kA 0.1S
- Encapsulated busbar (no insulating coatings)
- Phase colours are red, white and blue.
- Complies with AS/NZS 61439, AS/NZS 3000 – 2018
- Main bar current rating 250A
- 3 pole (3 phase)
- Encapsulated busbar (no insulation coating required)
- Chassis main bars direct connect to 160A or 250A main switch saving space
- Tee-offs 12 to 96 pole
- Tee-offs 50% with caps
- Withstand ratings: 25 kA for 0.1 s, 20 kA for 0.3 s, 10 kA for 1.0 s
- IP20 touch protection for chassis 160 A and 250 A main switches
- IP20 touch protection for 250 A MCCB to chassis connection kits

Universal Fed

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
12	111	134		M6NC2-12-18-3-U	347.00
18	165	188		M6NC2-18-18-3-U	391.00
24	219	242		M6NC2-24-18-3-U	491.00
36	327	350		M6NC2-36-18-3-U	610.00
48	435	458		M6NC2-48-18-3-U	744.00
60	543	566		M6NC2-60-18-3-U	860.00
72	651	674		M6NC2-72-18-3-U	1,146.00
84	759	782		M6NC2-84-18-3-U	1,482.00
96	867	890		M6NC2-96-18-3-U	1,718.00

M6NC2-12-18-3-U

Chassis

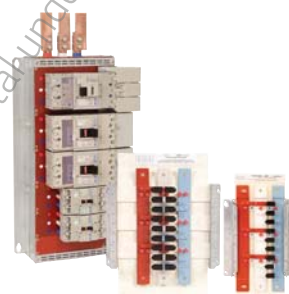
Chassis for Terasaki MCCBs

TemWay XA XB PXB XC chassis
HC High Current Chassis

Page 171

Page 173

- Chassis busbar systems for mounting MCCBs from 12 to 1250A, covering power distribution and motor control applications
- Wide range of types include double and single sided MCCB mounting chassis, allowing chassis to mount in wide or narrow spaces
- Chassis types: XA, XB, XBSS, PXB, XC with main bars to 800A for 125/250A MCCBs, and HC 1250-2200A type for MCCBs to 1250A
- Different terminal cover options for line and load connection, allow configurations for separation Form ratings up to 4biH
- Large stock of complete chassis and subcomponents results in a short lead time for customers



NHP stock a range of "off the shelf" basic chassis, while more complex, or higher ampere types are custom produced by NHP. NHP MCCB chassis can be configured for up to Form 3biH, 4aiH and 4biH, via the additional use of terminal conductors, insulation, and busbar extensions. An extensive range of long and short terminal covers for the MCCB connection area are available.

TemWay XA XB PXB XC chassis

TemWay XA, XB, XBSS, PXB and XC chassis are suitable for MCCBs from 12 to 250A.

XA 800A 4 Pole Double Sided Chassis

Suits E125, S125, ZS125 thermal magnetic MCCBs, double sided chassis, top and bottom feed, 800A main bars, Icw = 36kA for 1 second, and 40kA for 0.5 seconds.

Item Description	Item Type	Catalogue No.	\$AU
XA Double Sided 800A 8 Way 4P Chassis		XA8008U4POLE	POA
XA Double Sided 800A 56 Way 4P Chassis		XA80056U4POLE	POA
XA Double Sided 800A 64 Way 4P Chassis		XA80064U4POLE	POA

PXB 800A 3 Pole Double Sided Chassis

PXB chassis are a "universal" chassis that accept both deeper electronic MCCBs and shallower thermal magnetic MCCBs. The chassis includes as standard, mounting brackets used for shallower thermal magnetic MCCBs, while deeper electronic do not need mounting brackets.

Suits S250PE electronic, S160NJ / GJ, E250NJ / SJ, S250NJ / GJ, ZS250 thermal magnetic MCCBs, double sided chassis (single sided available on request), top and bottom feed, 800A main bars, Icw = 36kA for 1 second, and 40kA for 0.5 seconds.

Item Description	Item Type	Catalogue No.	\$AU
PXB Double Sided 800A 12 Way 3P Chassis	I	PXB80012U	1,058.00
PXB Double Sided 800A 18 Way 3P Chassis	I	PXB80018U	1,450.00
PXB Double Sided 800A 24 Way 3P Chassis	I	PXB80024U	1,861.00
PXB Double Sided 800A 30 Way 3P Chassis	I	PXB80030U	2,203.00
PXB Double Sided 800A 36 Way 3P Chassis	I	PXB80036U	2,862.00
PXB Double Sided 800A 48 Way 3P Chassis	I	PXB80048U	3,786.00
PXB Double Sided 800A 60 Way 3P Chassis	I	PXB80060U	4,535.00
PXB Double Sided 800A 72 Way 3P Chassis	I	PXB80072U	5,799.00



PXB80012U

XEP 630A 3P Double Sided Standard Chassis

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
12	Height, Pan	180	I	XEP63012U	676.00
24	Height, Pan	360	I	XEP63024U	1,097.00
36	Height, Pan	540	I	XEP63036U	1,600.00
48	Height, Pan	720	I	XEP63048U	1,970.00
72	Height, Pan	1080	I	XEP63072U	2,921.00



XEP63012U

1



XAP6306U

XAP 630A 3P Double Sided Standard Chassis

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
6	Height, Pan	90		XAP6306U	481.00
12	Height, Pan	180		XAP63012U	687.00
18	Height, Pan	270		XAP63018U	882.00
24	Height, Pan	360		XAP63024U	1,119.00
30	Height, Pan	450		XAP63030U	1,339.00
36	Height, Pan	540		XAP63036U	1,633.00
42	Height, Pan	630		XAP63042U	1,817.00
48	Height, Pan	720		XAP63048U	2,020.00

XAP 630A 4P Double Sided Standard Chassis

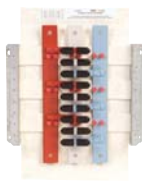
Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
24	Height, Pan	390		XAP63024U4POLE	2,137.00



XAP63024U4POLE

XAP 800A 3P Double Sided Standard Chassis

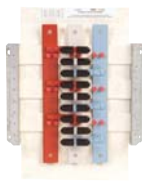
Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
24	Height, Pan	360		XAP80024U	1,223.00
36	Height, Pan	540		XAP80036U	1,801.00



XAP80024U

XBP 800A 3P Double Sided Standard Chassis

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
6	Height, Pan	1050		XBP8006U	680.00
12	Height, Pan	105		XBP80012U	959.00
18	Height, Pan	210		XBP80018U	1,359.00
24	Height, Pan	315		XBP80024U	1,676.00
30	Height, Pan	420		XBP80030U	2,001.00
36	Height, Pan	525		XBP80036U	2,359.00
42	Height, Pan	630		XBP80042U	2,746.00
48	Height, Pan	735		XBP80048U	3,118.00
60	Height, Pan	840		XBP80060U	3,842.00



XBP8006U

XBP 800A 4P Double Sided Standard Chassis

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
16	Height, Pan	315		XBP80016U4POLE	2,223.00



XBP80016U4POLE

XBPSSL 800A 3P Single Sided Chassis - Left

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
6	Height, Pan	210		XBPSSL8006U	876.00
9	Height, Pan	315		XBPSSL8009U	1,252.00
12	Height, Pan	420		XBPSSL80012U	1,558.00
15	Height, Pan	525		XBPSSL80015U	1,871.00
18	Height, Pan	630		XBPSSL80018U	2,213.00
24	Height, Pan	840		XBPSSL80024U	2,943.00
30	Height, Pan	1050		XBPSSL80030U	3,674.00



XBPSSL8006U

XBPSSR 800A 3P Single Sided Chassis - Right

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
6	Height, Pan	210		XBPSSR8006U	876.00
9	Height, Pan	315		XBPSSR8009U	1,252.00
12	Height, Pan	420		XBPSSR80012U	1,558.00
15	Height, Pan	525		XBPSSR80015U	1,871.00
18	Height, Pan	630		XBPSSR80018U	2,213.00
21	Height, Pan	735		XBPSSR80021U	2,579.00
24	Height, Pan	840		XBPSSR80024U	2,943.00
30	Height, Pan	1050		XBPSSR80030U	3,674.00

XBPSSR8006U



XCP 1000A 3P Double Sided Standard Chassis

Poles	Cutout H (mm)	Pan Height (mm)	Item Type	Catalogue No.	\$AU
12	Height, Pan	210		XCP100012U	1,500.00
18	Height, Pan	315		XCP100018U	2,043.00
24	Height, Pan	420		XCP100024U	2,565.00
30	Height, Pan	525		XCP100030U	3,070.00
36	Height, Pan	630		XCP100036U	3,656.00

XCP100012U



HC High Current Chassis

The HC High Current chassis offers double sided 3 pole MCCB chassis or single sided 3 or 4 pole chassis. It has 1250A, 1600A and 2200A rated main bars, and can accept MCCBs rated 12 to 1250A.

- Complies with AS/NZS 61439, AS/NZS 3000 – 2018
- Chassis busbar systems for mounting MCCBs for power distribution and motor control applications
- Double sided 3 pole MCCB chassis
- Single sided left or right load connection chassis
- Single sided chassis for 3 or 4 pole MCCBs
- 1250 A, 1600 A or 2200 A rated main bars
- Main bar connect tags supplied as standard
- 11 enclosure sizes for more economical chassis sizing
- Form of separation 4bih. AS/NZS 61439.1: 2018
- Circuit breakers are reverse fed as standard
- 4th pole neutral bars 100 % rated
- Accepts MCCBs rated 12 A to 1250 A
- Ordering: choose from pre-assembled stocked types, or custom assembly
- Lifting M12 eye-bolts (x4) supplied fitted to chassis as standard

HC Chassis ordering is via 2 methods:

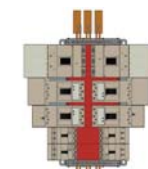
- NHP can supply a limited range of 100% pre-assembled stocked chassis that include pre fitted MCCB tee-offs
- Chassis can be ordered for custom factory assembly in Melbourne. Lead time is around 1 week for assembly

Custom assembled HC chassis require a HC Chassis order form to be completed (refer Part C section 6 for form and other details). First, the chassis box with 1250A, 1600A or 2200A main bars is selected, then appropriate tee-off sets. Tee-off sets can be selected for Double Sided or Single Sided left or right, MCCB mounting. Combinations of double and single sided tee-offs are also possible. Follow the order form for the various steps required. The top right photo is of a complete single sided chassis showing box + tee-offs + MCCBs fitted for illustration purposes only.

HC Chassis Stocked Types

HC Stocked chassis are completely pre-assembled into common requested configurations. These chassis are complete, with only MCCBs needing to be installed.

Poles	Item Type	Catalogue No.	\$AU
24	A	HCSTD1DS16153	7,020.00
12	A	HCSTD3SSL16153	7,020.00
18	A	HCSTD5SSL16213	9,597.00
36	A	HCSTD2DS16243	9,988.00
18	A	HCSTD7SSL22243	12,309.00



HCSTD1DS16153

HC High current chassis | Order Form

CUSTOMER DETAILS:

Customer:	Account No:
	Order No.:
Deliver to:	Quantity:
	Price:
Contact:	Request delivery date:

UNITS			
Size 1	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		610mm
Size 2	16		
	17		
	18		718mm
Size 3	19		
	20		
	21		826mm
Size 4	22		
	23		
	24		934mm
Size 5	25		
	26		
	27		1042mm
Size 6	28		
	29		
	30		1150mm
Size 7	31		
	32		
	33		1258mm
Size 8	34		
	35		
	36		1366mm
Size 9	37		
	38		
	39		1474mm
Size 10	40		
	41		
	42		1582mm
Size 11	43		
	44		
	45		1690mm

Chassis box sizes above
(Mark MCCB layout above)

TORQUE SETTINGS		
MCCB LINE SIDE BOLTS		
250 AMPS	M6	7Nm
400 - 1000 AMPS	M8	14Nm
1250 AMPS	M10	30Nm
MAIN BAR CONNECTIONS		
	M10	44Nm

CUSTOMER REFERENCE DRAWINGS	
MOUNTING, CUT OUT AND CONNECTION DETAILS	
3 Pole Double Sided:	MD-L002584
3 Pole Single Sided:	MD-L002585
4 Pole Left Hand Single Sided:	MD-L002586
4 Pole Right Hand Single Sided:	MD-L002587

CHASSIS SPECIFICATION - Cross (X) boxes for selection		
POLES AND TYPE	3 Pole	Double sided dw
	3 Pole	Single sided right hand load
	3 Pole	Combination double & RH single sided
	3 Pole	Single side left hand load
	3 Pole	Combination double & LH single sided
	4 Pole	Single sided right hand load
ENTRY	4 Pole	Single sided left hand load
	Top Entry only	
	Bottom Entry only	
	Dual Feed	
RATING 65kA for 1 second	No Extended Bar - Connect via MCCB	
	1250 Amp	2 - 10 x 20 mm
	1600 Amp	2 - 10 x 30 mm
	2200 Amp	2 - 10 x 50 mm

Ordering TEE OFFs and understanding UNITS:

- One Double sided Tee Off fits 2 MCCBs: 1 right sided / 1 left sided
- One Single sided Tee Off fits one MCCB. Specify left OR right sided
- Add up MCCB unit heights: Eg: 2 x DS 250A MCCBs = 3 units, where as 2 single sided 250A MCCBs = 2 x (3 units) = 6 units high.
- Add up MCCB units to determine total chassis box height required.

3 POLE TEE OFFS - DOUBLE OR SINGLE SIDED				
Qty.	Units	Total	Type	
x 3 =			250	S160/S250/ZS250
x 3 =			250P	H125 / S250PE **
x 4 =			400/630	S400-630 narrow cover
x 5 =			400/630	*S400/S630 wide cover
x 6 =			630	S800 (630A)
x 6 =			800	S800 (800A)
x 6 =			1250	S1250 (1 per tee-off)
Total Units			Indicate 1250A load side	Left Right
* 18mm gap needed on each side of 630 amp MCCB				
4 POLE TEE OFFS - SINGLE SIDED ONLY				
Qty.	Units	Total	Type	
x 4 =			250	S160/S250/ZS250
x 4 =			250P	H125 / S250PE **
x 6 =			400/630	S400-630 narrow cover
x 7 =			400/630	*S400/S630 wide cover
x 8 =			630	S800 (630A)
x 8 =			800	S800 (800A)
x 8 =			1250	S1250 (1 per tee-off)
Total Units				
* 18mm gap needed on each side of 630 amp MCCB				

Ordering Notes

NOTE: ** 250P TEE OFFS SUIT H125 AND S250PE ONLY

* Chassis are supplied crated and without MCCB's fitted

* All circuit breakers to be fitted reverse fed by customer

* ZS400-800 suits single sided chassis as forward feed req'd.

* Depth = 269 mm from rear to escutcheon

* Pan Width = 440 mm including mounting channel

* 1 Unit = 36 mm

INTERNAL USE ONLY	
NHP Branch	
NHP Contact	
Sales Order	
Works Order	
Requested Ex works Date:	

This form is available at nhp.com.au/forms

INTERASAKIHCCHASSISE_D01

Flexible Busbar and Braids

Cu-flex Flexible Copper Busbar

- Ready for use. No shortening, stripping or making holes
- Flexible woven copper braid with forged solid ends for maintenance free connections
- Wide range of lengths available from 160 to 1120mm
- Many applications including fixed busbar-component connections, battery and power module connections, and earthing
- Performance not effected due to product vibration or movement of plant and equipment
- Type-tested in various modes of use according to IEC, UL and DNV

Cu-flex - flexible copper busbars are made of copper wires that are woven to a flexible busbar. By the use of a patented technique, the ends of the busbar are forged to a solid unit, thus obtaining a contact surface that makes it possible to produce maintenance-free connections.



Current Rating (A) per AS / NZS 61439

Surrounding Temperature of Cu-flex		Series	FB25	FB50	FB100	2 x FB100	FB243	2 x FB243
Both Ends / Joints Terminated < 100°C	30°C		190	295	420	645	690	1040
	40°C		176	274	390	599	641	967
	50°C		161	250	357	548	586	884
	55°C		152	236	336	516	552	832
	60°C		144	224	319	490	524	790
	65°C		134	209	298	458	489	738
One End / Joint Terminated > 100°C	40°C		159	246	351	539	577	870
	50°C		145	225	321	493	527	795
	55°C		136	212	302	464	496	748
	60°C		130	201	287	441	472	711
	65°C		121	188	268	412	440	664
Both Ends / Joints Terminated > 100°C	40°C		141	219	312	479	513	773
	50°C		129	200	285	438	469	707
	55°C		121	188	268	412	441	665
	60°C		115	179	255	392	419	632
	65°C		107	167	238	366	391	590

Notes:

Ratings based on Cu-flex not bunched together.
Consideration must be given to the temperature of the component busbar that is connected to the Cu-flex.
For more ratings contact NHP.

FB25 - 25mm²

1.5 x 20mm, 8.5mm hole 10mm from end, 10.5mm hole 12mm from end.

Black

Length (mm)	W (mm)	Thickness (mm)	PwrLoss (W)	Item Type	Catalogue No.	\$AU
160	20	1.5	4		FB25160	12.00
224	20	1.5	5.5		FB25224	17.00
288	20	1.5	7		FB25288	20.00
352	20	1.5	8.5		FB25352	22.00
416	20	1.5	10		FB25416	28.00
480	20	1.5	11.5		FB25480	30.00
544	20	1.5	13		FB25544	35.00
608	20	1.5	14.5		FB25608	37.00
672	20	1.5	16		FB25672	40.00
736	20	1.5	17.5		FB25736	45.00
800	20	1.5	19		FB25800	47.00
864	20	1.5	20.5		FB25864	50.00
928	20	1.5	22		FB25928	53.00



FB25160

1



PE-FB25672

Green and Yellow

Length (mm)	W (mm)	Thickness (mm)	PwrLoss (W)	Item Type	Catalogue No.	\$AU
672	20	1.5	16	I	PE-FB25672	46.00
736	20	1.5	17.5		PE-FB25736	52.00

FB50 - 50mm²

2.5 x 20mm, 10.5mm hole 12mm from end, 10.5mm hole 12mm from end.

Black

FB50160

Length (mm)	W (mm)	Thickness (mm)	PwrLoss (W)	Item Type	Catalogue No.	\$AU
160	20	2.5	5		FB50160	18.00
224	20	2.5	7		FB50224	22.00
288	20	2.5	9		FB50288	29.00
352	20	2.5	11		FB50352	35.00
416	20	2.5	13		FB50416	40.00
480	20	2.5	15		FB50480	45.00
544	20	2.5	17		FB50544	50.00
608	20	2.5	19		FB50608	54.00
672	20	2.5	21		FB50672	61.00
736	20	2.5	23		FB50736	64.00
800	20	2.5	25		FB50800	73.00
864	20	2.5	27.5		FB50864	77.00
928	20	2.5	30		FB50928	83.00
1120	20	2.5	35		FB501120	109.00

FB100 - 100mm²

5 x 20mm, 10.5mm hole 12mm from end, 10.5mm hole 12mm from end.

Black

FB100160

Length (mm)	W (mm)	Thickness (mm)	PwrLoss (W)	Item Type	Catalogue No.	\$AU
160	20	5	6		FB100160	29.00
224	20	5	8		FB100224	37.00
288	20	5	10.5		FB100288	47.00
352	20	5	13		FB100352	57.00
416	20	5	15		FB100416	64.00
480	20	5	17		FB100480	75.00
544	20	5	19.5		FB100544	86.00
608	20	5	21.5		FB100608	92.00
672	20	5	24		FB100672	104.00
736	20	5	26		FB100736	112.00
800	20	5	28.5		FB100800	125.00
864	20	5	31		FB100864	132.00
928	20	5	33		FB100928	143.00
1120	20	5	40		FB1001120	182.00

FB243 - 240mm²

8.5 x 30mm, 10.5mm hole 11.5mm from end, 12.5mm hole 16.5mm from end.

Black

FB243288

Length (mm)	W (mm)	Thickness (mm)	PwrLoss (W)	Item Type	Catalogue No.	\$AU
288	30	6.5	13		FB243288	103.00
352	30	6.5	16		FB243352	126.00
416	30	6.5	18.5		FB243416	149.00
480	30	6.5	21.5		FB243480	170.00
544	30	6.5	24.5		FB243544	192.00
608	30	6.5	27		FB243608	213.00
672	30	6.5	30		FB243672	235.00
736	30	6.5	33		FB243736	256.00

Accessories

Spacer

Item Description	Item Type	Catalogue No.	\$AU
Spacer for 25mm ² CUFLEX Busbar		FS2550	10.00
Spacer for 50mm ² CUFLEX Busbar		FS5064	11.00
Spacer for 100mm ² CUFLEX Busbar		FS10056	13.00
Spacer for 50mm ² CUFLEX Busbar		FS5050	13.00
Spacer for 240mm ² CUFLEX Busbar		FS24064	17.00

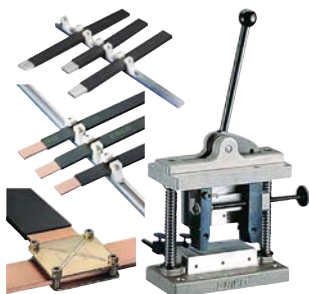


FS2550

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal using 'My Account'

Flexible Busbar and Braids

Eriflex Flexible Busbar and Braid



- Many applications where low-voltage cable or busbar is used, including busbar systems, switchboards, motor control centres and control panels.
- Reduces time for assemble and costs.
- Flexible Earthing connections for all environments
- The complete range of flexible conductors and insulators for multiple applications

ERICO is trusted for producing high-quality, flexible conductors for low-voltage power connections. Flexible conductors made out of braids or laminates are used in a variety of applications for current transfer or grounding / earthing connections.

Insulated Flexible Copper Bar and Accessories

ERIFLEX FLEXIBAR is formed with multiple layers of thin electrolytic copper; connections are made by punching directly through the laminates. There are no lugs to purchase, helping to eliminate faulty connection problems and making installation simpler and faster.

- Flexible / compact connections
- Space / weight saving
- Ease of installation / cost savings
- Improved reliability
- Tinned Copper
- Halogen Free
- Low Smoke
- Flame Retardant

Insulated Flexible Tinned Copper Bar



534007

W (mm)	Bars	Thickness (mm)	Wire Size	Item Type	Catalogue No.	\$AU
15.5	4	0.8	49.6 mm ²	I	534007	206.00
20	3	1	60 mm ²	I	534011	240.00
24	4	1	96 mm ²		534018	343.00
24	5	1	120 mm ²		534019	411.00
32	4	1	128 mm ²	I	534025	445.00
24	8	1	192 mm ²	I	534021	616.00
32	6	1	192 mm ²		534027	616.00
40	6	1	240 mm ²		534034	752.00
32	8	1	256 mm ²		534028	889.00
50	6	1	300 mm ²		534040	1,093.00
40	10	1	400 mm ²		534036	1,299.00
50	10	1	500 mm ²		534042	1,777.00
63	10	1	630 mm ²		534048	2,392.00

Flexibar Support



553590

Item Description	Item Type	Catalogue No.	\$AU
Flexibar Support-UFS Kit		553590	979.00

Earth Braid

Type MBI

ERICO manufacturing directly passivates the palms of the MBI tinned-plated braids. This manufacturing process provides an effective electrical contact, due to the integral palms, without the addition of tin or crimped lugs.

- Maximum working temperature 105°C
- Very good resistance to vibration and fatigue
- Ideal for earthing cabinet doors

Length (mm)	W (mm)	Wire Size	In (A)	ØMountHole (mm)	Item Type	Catalogue No.	\$AU
150	11	6 mm ²	40	6.5		556600	21.00
200	11	6 mm ²	40	6.5		563410	21.00
300	11	10 mm ²	75	6.5		556610	22.00
100	15	16 mm ²	120	8.5	I	556620	22.00
200	11	10 mm ²	75	6.5		556930	22.00
150	15	16 mm ²	120	8.5		556630	24.00
150	15	16 mm ²	120	6.5		563550	24.00
200	15	16 mm ²	120	8.5		556640	26.00
250	15	16 mm ²	120	8.5		556650	28.00
300	15	16 mm ²	120	8.5		556660	30.00
300	15	16 mm ²	120	6.5		563320	30.00
200	22	25 mm ²	150	10.5		556690	38.00
300	22	25 mm ²	150	10.5		556710	43.00
500	15	16 mm ²	120	8.5		556940	48.00
200	28	50 mm ²	250	16.5	I	563360	64.00
300	28	70 mm ²	290	12.5		563420	103.00



556600

Flat Tinned Copper Braid

Sold per metre.

W (mm)	Thickness (mm)	Wire Size	In (A)	Item Type	Catalogue No.	\$AU
15	1.5	16 mm ²	120		557240	55.00
23	1.5	25 mm ²	150		557260	80.00
28	3	50 mm ²	250		557300	164.00
30	3.5	70 mm ²	290		557320	227.00
40	4	100 mm ²	360	I	557350	313.00



557240

Halogen Free Insulators

Low-voltage, quality metric insulators ideal for mounting busbar and neutral bars.

- Polyamide material reinforced with 30% glass fibre, halogen free
- Self-extinguishing: UL94 V0
- Working temperature -40°C to +130°C
- 600V AC (nominal voltage)

Insulators

H (mm)	W (mm)	Ø (mm)	Thread (size)	ThreadLen (mm)	Item Type	Catalogue No.	\$AU
20	17	15	M4 x 0.7	4	I	548410	11.00
20	17	15	M6 x 1	6		548420	11.00
25	19	18	M6 x 1	6		548430	12.00
30	30	26	M6 x 1	8		548440	13.00
30	30	26	M8 x 1.25	8		548450	22.00
35	41	34	M8 x 1.25	8		548480	26.00
35	41	34	M10 x 1.5	10		548490	26.00
40	46	40	M6 x 1	9	I	548500	27.00
40	46	40	M8 x 1.25	8		548510	29.00
40	46	40	M10 x 1.5	10		548520	29.00
45	41	34	M8 x 1.25	15		548540	36.00
45	50	41	M10 x 1.5	10		548560	39.00
50	50	41	M8 x 1.25	15		548580	43.00
50	50	41	M10 x 1.5	10		548590	43.00
60	55	44	M8 x 1.25	15		548600	44.00
60	55	44	M10 x 1.5	10		548610	44.00
70	65	52	M12 x 1.75	14		548620	70.00
75	65	51	M12 x 1.75	14		548640	77.00
80	65	52	M12 x 1.75	14	I	548660	97.00



548420

1

Insulator Mounting Kits

- Kits include:
- Threaded rod
 - Nut
 - Washers



552200

ThreadLen (mm)	Thread (size)	Item Type	Catalogue No.	\$AU
25	M6 x 1		552200	6.85
30	M8 x 1.25		552220	8.85

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Power Connections

Distribution Blocks (Active Links)

Distribution Blocks

Allows single input cable terminal to feed multiple outgoing terminals.

Single Pole "UNILINK"

80A

Item Description	Item Type	Catalogue No.	\$AU
Distribution Block 80A Cu input 1X6-16mm, output 4X2.5-6mm & 2X2.5-16mm		569010	86.00



569010

125A to 160A

Item Description	Item Type	Catalogue No.	\$AU
Distribution Block 160A Cu Jumper link to suit 569020/569030		569150	13.00
Distribution Block 125A Cu input 1X10-35mm, output 1X6-16mm & 6X2.5-16mm		569020	164.00
Distribution Block 160A Cu Input 1 X 10-70mm, output 1 X 6-16mm and 6 X 2.5-16mm		569030	280.00



569030

250A to 400A

Item Description	Item Type	Catalogue No.	\$AU
Distribution block 250A Lug Adaptor to suit 569040/561131		569160	23.00
Distribution Block 400A Lug Adaptor to suit 569050	I	569170	44.00
Distribution Block 400A Al input 2X35-95mm, output 12x2.5-10mm	I	569251	192.00
Distribution Block 400A Cu input 1X95-185mm, output 12X2.5-10mm	I	569252	192.00
Distribution Block 250A Cu Input 1 X 35-120mm, Output 2 X 6-35mm, 5 X 2.5-16mm, 4 X 2.5-10mm		569040	377.00
Distribution Block 400A Cu input 1 X 95-185mm, output 2 X 6-35mm 5 X 2.5-16mm 4 X 2.5-10mm		569050	389.00



569160

700A to 2000A

Item Description	Item Type	Catalogue No.	\$AU
Distribution Block 715A Al input 1x95-240mm, output 6x10-50mm	I	569201	344.00
Distribution Block 1010A Al input 2x95-185mm, output 12x4-25mm	I	569205	399.00
Distribution Block 1740A Al input 2x185-400mm, output 9x10-95mm	I	569209	551.00



569205

Power Connections

High Current Terminals (Power Terminals/Blocks)

High Current Terminals

Power Terminal / Block (Tunnel to Tunnel) – SBTT

Cable tunnel to cable tunnel connection.



561161

In (A)	Input, Max (Flex / Rigid)	Qty In	Output, Max (Flex / Rigid)	Qty Out	Item Type	Catalogue No.	\$AU
185	35 mm ² / 35 mm ²	1	35 mm ² / 35 mm ²	1	I	561161	62.00
230	70 mm ² / 70 mm ²	1	/ 70 mm ²	1	I	561162	68.00
170	35 mm ² / 35 mm ²	1	35 mm ² / 35 mm ²	1		561158	86.00
250	185 mm ² / 70 mm ²	1	70 mm ² / 70 mm ²	1		561151	162.00
400	120 mm ² / 120 mm ²	1	120 mm ² / 120 mm ²	1	I	561163	167.00
400	120 mm ² / 120 mm ²	1	120 mm ² / 120 mm ²	1		561159	182.00
610	240 mm ² / 240 mm ²	1	240 mm ² / 240 mm ²	1	I	561164	221.00
600	240 mm ² / 240 mm ²	1	120 mm ² / 120 mm ²	2	I	561154	412.00
860	500 mm ² / 500 mm ²	1	500 mm ² / 500 mm ²	1	I	561168	417.00
1020	500 mm ² / 500 mm ²	1	300 mm ² / 300 mm ²	2	I	561174	461.00

High Current Terminals

Power Terminal (Bolt to Bolt) – SBLL

Lug to lug or lug to Flexibar connection.



561132

In (A)	ScrewSize (In)	Qty In	ScrewSize (Out)	Qty Out	Item Type	Catalogue No.	\$AU
290	M10 (120 mm ²)	1	M10 (120 mm ²)	1		561132	168.00
750	M10 (400 mm ²)	1	M10 (400 mm ²)	1		561134	253.00
1250	M10 (300 mm ²)	2	M10 (300 mm ²)	2		561136	432.00

High Current Terminals

Power Terminal / Block (Bolt to Tunnel) – SBLT

Lug to cable tunnel or flexibar to cable tunnel connection.



561140

In (A)	ScrewSize (In)	Qty In	Output, Max (Flex / Rigid)	Qty Out	Item Type	Catalogue No.	\$AU
350	M10 (120 mm ²)	1	50 mm ² / 35 mm ²	2	I	561140	241.00
500	M10 (185 mm ²)	1	185 mm ² / 150 mm ²	2		561142	340.00

High Current Terminals

End Clamp to suit SBTT, SBLL and SBLT



561138

Item Description	Item Type	Catalogue No.	\$AU
High Current Terminal 1250A Cu input 2xM10 (lug 35-300mm busbar 20-40mm), output 2x95-240mm		561138	15.00

Earth Leakage Relays

IME Earth Leakage Relays and Toroids

The IME range of DIN mount and Panel mount earth leakage relays and core balance toroids. Wide range of earth leakage relays perfectly suited for earth fault protection of equipment and the limitation of touch voltages where automatic disconnection of supply is required. Typically achieved by shunt tripping another protective device such as an upstream circuit breaker.



Product Selection

One relay and one toroid required per earth leakage system.

DIN Mount Earth Leakage Relays

- Standard AS/NZS IEC 60947-2 (annex B and M)
- Core balance earth leakage relay
- Field adjustable
- 2 wire toroid connection
- Adjustable $I_{\Delta n}$ up to 30 A
- Local or remote reset/ test
- Selectable negative or positive security
- Adjustable trip time up to 5 seconds
- Automatic permanent test

RD3AF series

- DIN mount 2 pole width
- $I_{\Delta n}$ LED indication 20, 40, 60% setting
- 1 change-over contact
- Manual or automatic reset
- Harmonic Filter

Aux Voltage (V AC / V DC)	Umin Voltage (V AC / V DC)	Umax Voltage (V AC / V DC)	Reverse Polarity Protection	Function	Item Type	Catalogue No.	\$AU
24 V AC	20 V AC	26 V AC	No	Local pushbutton or remote closing contact		RD3AF1N	1,463.00
110 V AC	97 V AC	127 V AC	No	Local pushbutton or remote closing contact		RD3AF12	1,463.00
240 V AC	204 V AC	264 V AC	No	Local pushbutton or remote closing contact		RD3AF14	1,463.00
415 V AC	340 V AC	440 V AC	No	Local pushbutton or remote closing contact		RD3AF15	1,463.00
20 - 150 V DC	20V DC	150 V DC	Yes	Local pushbutton		RD3AF1H	1,463.00



RD3AF1N

RD1B2 Series

- DIN mount relay, 4 poles
- 1 x trip change-over contact and a second change-over contact selectable as a trip or pre-trip alarm
- LED indication 20%, 30%, 40% and 50%
- Field selectable positive or negative security
- 30 mA to 30 A sensitivity and up to 5 s time delay
- Harmonic filter

Aux Voltage (V AC / V DC)	Umin Voltage (V AC / V DC)	Umax Voltage (V AC / V DC)	Reverse Polarity Protection	Function	Item Type	Catalogue No.	\$AU
110 V AC	97 V AC	127 V AC	No	Local pushbutton or remote closing contact	I	RD1B212	1,727.00
240 V AC	204 V AC	264 V AC	No	Local pushbutton or remote closing contact		RD1B214	1,727.00
20 - 150 V DC	20V DC	150 V DC	Yes	Local pushbutton	I	RD1B21H	1,727.00



RD1B21H

1

RDD42 Series

- DIN mount 4 pole width
- IΔn indication 3-digit digital display
- Monitoring function
- RS-485 communications
- 2 change-over contacts
- Selectable 20, 30, 40 or 50% pre-trip or alarm contact
- Manual or automatic reset
- Harmonic Filter



RDD421-H1

Aux Voltage (V AC / V DC)	Umin Voltage (V AC / V DC)	Umax Voltage (V AC / V DC)	Reverse Polarity Protection	Item Type	Catalogue No.	\$AU
240 V AC	195 V AC	253 V AC	No	I	RDD421-31	2,381.00
20 - 150 V DC	20V DC	150 V DC	Yes	I	RDD421-H1	2,381.00

Panel Mount Earth Leakage Relays

- Standard AS/NZS IEC 60947-2 (annex B and M)
- Core balance earth leakage relay
- Field adjustable
- 2 wire toroid connection
- Adjustable IΔn up to 30 A
- Adjustable trip time up to 5 seconds
- Local or remote reset/ test
- Selectable negative or positive security
- Automatic permanent test
- Harmonic Filter

RD1DF Series

- Panel mount 48 mm
- 1 change-over contact
- Manual or automatic reset



RD1DF14

Aux Voltage (V AC)	Umin Voltage (V AC)	Umax Voltage (V AC)	Item Type	Catalogue No.	\$AU
240 V AC	204 V AC	264 V AC		RD1DF14	844.00

RD1EP Series

- Panel mount 72 mm
- IΔn LED indication 20, 30, 40, 50% setting
- 2 change-over contacts
- Selectable 50% pre-trip or alarm contact
- Manual or automatic reset



RD1EP212

Aux Voltage (V AC / V DC)	Umin Voltage (V AC / V DC)	Umax Voltage (V AC / V DC)	Reverse Polarity Protection	Item Type	Catalogue No.	\$AU
110 V AC	97 V AC	127 V AC	No		RD1EP212	1,463.00
240 V AC	204 V AC	264 V AC	No		RD1EP214	1,463.00
20 - 150 V DC	20V DC	150 V DC	Yes		RD1EP21H	1,463.00

RD3E2 Series

- Panel mount 72 mm
- IΔn indication 3-digit digital display
- Monitoring function
- 1 change-over contact + 1 N/O contacts
- Selectable 50% pre-trip or alarm contact

Aux Voltage (V AC / V DC)	Umin Voltage (V AC / V DC)	Umax Voltage (V AC / V DC)	Reverse Polarity Protection	Item Type	Catalogue No.	\$AU
110 V AC	77 V AC	143 V AC	No	I	RD3E212B	2,430.00
240 V AC	154 V AC	264 V AC	No		RD3E217B	2,430.00
20 - 150 V DC	20V DC	150 V DC	Yes	I	RD3E21HB	2,430.00



RD3E21HB

RD1G2 Series

- Panel mount 96 mm
- IΔn LED indication 20, 30, 40, 50% setting
- 2 change-over contacts
- Selectable 50% pre-trip or alarm contact

Aux Voltage (V AC)	Umin Voltage (V AC)	Umax Voltage (V AC)	Reverse Polarity Protection	Item Type	Catalogue No.	\$AU
110 V AC	95 V AC	127 V AC	No	I	RD1G212	1,604.00



RD1G212

2 Wire Toroid

Suits RD series of earth leakage relays

- Suits RD Series Earth Leakage Relays
- Internal diameter 28-310 mm
- Closed core and split core models

TDG Series - Closed Core Toroid

Internal Ø (mm)	IΔn Min (mA)	Ie (A,nom)	Ie (A,max)	Toroid Open or Closed Core	Item Type	Catalogue No.	\$AU
28	30	65	390	Closed-core Transformer		TDGA2	362.00
35	30	70	420	Closed-core Transformer		TDGB2	488.00
60	30	90	540	Closed-core Transformer		TDGH2	525.00
80	50	170	1020	Closed-core Transformer		TDGC2	604.00
110	100	250	1500	Closed-core Transformer		TDGD2	922.00
140	300	250	1500	Closed-core Transformer		TDGE2	1,264.00
210	300	400	2400	Closed-core Transformer		TDGF2	1,530.00



TDGA2

TDA Series - Open Core Toroid - Suitable for Retrofitting

Internal Ø (mm)	IΔn Min (mA)	Ie (A,nom)	Ie (A,max)	Toroid Open or Closed Core	Item Type	Catalogue No.	\$AU
110	500	250	1500	Split-core Transformer	I	TDAA2	1,604.00
150	500	250	1500	Split-core Transformer	I	TDAB2	2,104.00
310	1000	630	3780	Split-core Transformer	I	TDAC2	3,410.00



TDAA2

RD Series General Accessories

Suits RD series earth leakage relays, includes IP covers and adaptor plates.

Item Description	Item Type	Catalogue No.	\$AU
Earth Leakage Relay Front Cover IP65- 48 X 48mm	I	RD4848C	323.00
Earth Leakage Relay Front Cover IP65- 72 X 72mm		RD7272C	323.00
Earth Leakage Relay Front Cover IP65- 96 X 96mm	I	RD9696C	417.00



RD4848C

1

Type B Relay

- Type B RCD Relay
- Standard AS/NZS IEC 60947-2 (annex B and M)
- Core balance earth leakage relay
- Field adjustable
- 2 wire toroid connection
- Adjustable I_{Δn} up to 3 A
- Adjustable trip time up to 5 seconds
- Local or remote reset/ test
- Selectable negative or positive security
- Automatic permanent test
- Harmonic Filter



RDBMRCD230

Aux Voltage (V AC / V DC)	Umin Voltage (V AC / V DC)	Umax Voltage (V AC / V DC)	Current set point I _{Δn}	Item Type	Catalogue No.	\$AU
230 V AC	70 V AC	300 V AC	0.03, 0.06, 0.1, 0.2, 0.3, 0.4, 0.5, 2 ranges x1, x10		RDBMRCD230	2,673.00
24 V AC 9.6 - 94 V DC	9.6V DC / 16 V AC	72 V AC 94 V DC		I	RDBMRCD24	2,673.00

Type B Wire Toroid

- Suites IME Type B Toroids
- Internal Diameter 35-210 mm
- Closed core and split core models



TDB35

Internal Ø (mm)	I _{Δn} Min (mA)	Toroid Open or Closed Core	Item Type	Catalogue No.	\$AU
35	30	Closed-core Transformer	I	TDB35	1,782.00
60	30	Closed-core Transformer	I	TDB60	2,495.00
120	30	Closed-core Transformer		TDB120	4,158.00
210	30	Closed-core Transformer		TDB210	7,128.00

Panel Mount Mining Earth Leakage Relays**DSRM72 Series 2 Kits**

- Standard AS/NZS2081
- Core balance earth leakage relay
- Panel mount 72 mm relay
- Panel mount 48mm test device
- Field adjustable
- 4 wire toroid connection
- Adjustable I_{Δn} up to 5 A
- I_{Δn} LED indication 20, 30, 40, 50% setting
- Adjustable trip time up to 0.5 seconds
- 2 change-over latching contacts
- Selectable power fail or alarm contact
- Local or remote reset/ test
- Selectable negative or positive security
- Automatic permanent test
- Harmonic Filter



DSRM240VC

Aux Voltage (V AC / V DC)	Umin Voltage (V AC / V DC)	Umax Voltage (V AC / V DC)	Reverse Polarity Protection	Item Type	Catalogue No.	\$AU
240 V AC	204 V AC	264 V AC	No	K	DSRM240VC	1,934.00
110 V AC	97 V AC	127 V AC	No	K	DSR-M-110VC	1,934.00

DSRM72 Series 2 Relays

- Panel mount relay, 72 x 72mm
- 1 x trip change-over contact
- Second change-over latching contact selectable trip or power fail
- LED indication 20%, 30, 40% & 50%
- Field selectable positive or negative security
- 30mA to 5A sensitivity and up to 0.5s time delay
- Harmonic filter

Aux Voltage (V AC / V DC)	Umin Voltage (V AC / V DC)	Umax Voltage (V AC / V DC)	Reverse Polarity Protection	Item Type	Catalogue No.	\$AU
110 V AC	94 V AC	121 V AC	No		DSR-M-72C-110	1,538.00
240 V AC	204 V AC	264 V AC	No		DSR-M-72C-240	1,538.00
24 V DC 20 - 26 V DC	20V DC	26 V DC	Yes		DSR-M-72C-24	1,538.00



DSR-M-72C-24

DSR48 Series 2 - Test Device

- Panel mount test device, 48 x 48mm
- Panel mount and field adjustable
- 4-wire toroid connection
- 30mA to 5A sensitivity

Aux Voltage (V AC / V DC)	Umin Voltage (V AC / V DC)	Umax Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
110 V AC	97 V AC	127 V AC		DSR-TD-48C-110	627.00
240 V AC	204 V AC	264 V AC		DSR-TD-48C-240	627.00



DSR-TD-48C-110

4 Wire Toroid

Suits DSRM mining series of earth leakage relays.

- Suits DSRM Mining Earth Leakage Relays
- Internal diameter 35-150 mm
- Closed core and split core models

DSR Series Closed Core Toroid

Internal Ø (mm)	I _{Δn} Min (mA)	I _e (A,nom)	I _e (A,max)	Toroid Open or Closed Core	Item Type	Catalogue No.	\$AU
35	30	70	420	Closed-core Transformer		DSR35DEL	494.00
80	50	170	1020	Closed-core Transformer		DSR80DEL	604.00
110	100	250	1500	Closed-core Transformer		DSR110DEL	939.00
140	300	250	1500	Closed-core Transformer		DSR140DEL	1,281.00
210	300	400	2400	Closed-core Transformer		DSR210DEL	1,538.00



DSR35DEL

1

Earth Leakage Relays

Terasaki TZS range of Earth Leakage Relays and Toroids



Terasaki earth leakage relays are easily connected to the sensing toroid with a 2 wire connection. The relays come complete with 1 trip contact to control shunt trip or under-voltage trip fitted to a circuit breaker. To reduce nuisance tripping they come with harmonic filters. They can be remotely reset which reduces the requirement to be on site.

The Terasaki range of surface mount earth leakage relays and core balance toroids.

Surface mount earth leakage relay solution perfectly suited for earth fault protection of equipment and the limitation of touch voltages where automatic disconnection of supply is required. Typically achieved by shunt tripping another protective device such as an upstream circuit breaker.

TZS Earth Leakage Relay

Terasaki TZS series of earth leakage relays offers an adjustable time delay setting and adjustable current sensitivity.

- Surface mount and field adjustable
- 1 x trip change-over contact
- Red LED trip indication
- High vibration withstand
- 2-wire toroid connection
- 30mA - 1000mA sensitivity and up to 2s time delay
- Harmonic filter.



TZS-AD 415/440V

Un Supply (V AC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
120 / 240	78 x 60 x 100		TZS-AD 120/240V	1,048.00
415 / 440	78 x 60 x 100		TZS-AD 415/440V	1,048.00
24	78 x 60 x 100		TZS-AD 24V AC	1,048.00

TZS Earth Leakage Relay Accessories

General accessories.

Accessories

TPDOSZ

Item Description	Item Type	Catalogue No.	\$AU
Earth Leakage Relay Flush Mounting Plate to suit TZS Relay	I	TPDOSZ	160.00

TZS Earth Leakage Toroid

Terasaki TZS toroids are available in a wide range of sizes from 15 to 100mm internal diameter.

- Suits TZS Series Earth Leakage Relays
- Internal diameter 15-100 mm
- Closed core models



TZS-24

Internal Ø (mm)	I _{Δn} Min (mA)	I _e (A,max)	Item Type	Catalogue No.	\$AU
24	30	115		TZS-24	525.00
40	30	257		TZS-40	971.00
68	30	556		TZS-68	1,612.00
100	30	990		TZS-100	2,474.00

Fuse Switches

Socomec Fuse Switches (SSF and PSF Series)

1



SSF Standard Switch Fuses (20 to 1250A)

- 90-degree rotatory open-close. Supplied with handle and shaft for external operation
- Handles and switch fuse bodies both include a padlock facility to lock OFF the switch for lockout tagout (LOTO) insulation
- Suits DIN-NH fuse links 20 to 1250 A
- 100 kA fault rating
- 690 V AC rated
- Double breaking per pole (top and bottom) for isolated fuse removal
- Positive break indication
- TEST position for testing control circuits without energising the power poles using U-type auxiliary contacts
- Option: Fuse Monitoring Device for remote blown fuse indication
- Front Operated, Base mount
- Supplied with external handle and 320 mm shaft
- IP30
- Base Mounting

Din Fuse Types

Front operated base mount (Supplied with external handle and 320mm shaft)

3 Pole

FuseRating (A)	Cartridge (size)	AC-21a (A@400V)	AC-23a (A@400V)	AC-23a (kW @400V)	Item Type	Catalogue No.	\$AU
63	00	63	63	30		SSFDN633P	741.00
125	00	125	125	63		SSFDN1253P	819.00
160	00	160	160	80		SSFDN1603P	1,008.00
250	1	250	250	132		SSFDN2503P	1,383.00
400	2	400	400	220		SSFDN4003P	1,914.00
630	3	630	630	355		SSFDN6303P	4,094.00
800	3	800	800	450		SSFDN8003P	5,242.00
1250	4	1250	1000	560	K	SSFDN12503P	6,773.00



SSFDN1253P

4 Pole

FuseRating (A)	Cartridge (size)	AC-21a (A@400V)	AC-23a (A@400V)	AC-23a (kW @400V)	Item Type	Catalogue No.	\$AU
63	00	63	63	30	K	SSFDN634P	857.00
125	00	125	125	63	K	SSFDN1254P	987.00
160	00	160	160	80	K	SSFDN1604P	1,187.00
250	1	250	250	132	K	SSFDN2504P	1,686.00
400	2	400	400	220	K	SSFDN4004P	2,403.00
630	3	630	630	355	K	SSFDN6304P	5,444.00
800	3	800	800	450	K	SSFDN8004P	6,760.00
1250	4	1250	1000	560	K	SSFDN12504P	7,809.00



SSFDN1604P

Socomec Switch Fuse Accessories

Socomec Switch Fuse Direct Mount Handles

Direct Mount Handles

Compatibility	Handle (colour)	Handle (type)	type (type)	Item Type	Catalogue No.	\$AU
SSF Switch Fuses 20A - 32A	Black	Pistol	Pistol	I	36294012	84.00
SSF Switch Fuses 63A - 400A	Black	Pistol	Pistol	I	36297910	239.00



36294012

1



39990701

Socomec Switch Fuse Auxiliaries

Compatibility	Item Description	In (A)	Contacts	Item Type	Catalogue No.	\$AU
SSF Switch Fuses (BS/DIN) 20 - 1250A	Auxiliary 1 N/O suits Switch Fuse SSF 20 - 32 A	10	1 NO		39990701	119.00
SSF Switch Fuses (BS/DIN) 32A - 1250A	Auxiliary Side 1 N/O / 1 N/C 1st Pos. suits Switch Fuse SSF 63 - 800 A	20	1 NO + 1 NC EB 1st Contact		39990041	503.00
SSF Switch Fuses (BS/DIN) 32A - 1250A	Auxiliary Side 1 N/O / 1 N/C 2nd Pos. suits Switch Fuse SSF 800 - 1250 A	20	1 NO + 1 NC EB 1st Contact		39990042	748.00

Socomec Switch Fuse Solid Neutral Modules

Input (A, max)	Details	Item Type	Catalogue No.	\$AU
63	Centre 32mm	I	36299232	281.00
125	Centre 36mm	I	36299236	281.00
160	Centre 50mm	I	36299250	340.00



36299232

Socomec Switch Fuse Solid Links

BS Solid Link Suit Switch Fuse

To Suit Switch Fuses	Cartridge (size)	Input (A, max)	Frame (size)	Item Type	Catalogue No.	\$AU
SSF BS Switch Fuses 32A	A1	32	11	I	36299003	24.00
SSF BS Switch Fuses 160A	A3-A4	160	13/14	I	36299010	63.00
SSF BS Switch Fuses 200A	B1-B2	200	14	I	36299016	74.00



36299003

Fuse Switches

Mersen Fuse Switch Disconnectors

- 3 pole, manually operated fuse switches in sizes ranging 125 to 630 A offering a compact solution for overcurrent protection
- Suit DIN gG and aM Fuse links for LV power distribution, power factor and motor control applications
- Mounting options include panel mount or 60 mm busbar system versions, with a modular pull apart design, and are simple to install
- Accessories include terminal covers, auxiliaries, terminal options and fuse monitors to suit a wide variety of uses and IP protection
- Mersen fuse switches are stocked in sizes to 630 A for quick delivery



Panel Mount Variants

- 3-pole switching
- EN 60947-3 / IEC 60947-3, EN 60269-2 / IEC 60269-2, VDE 0636-2
- Shock protection with integrated positive action closure and arc chambers
- Fuses have mechanical retention in disconnector lid
- Front-side degree of protection IP30, degree of protection depends on installation
- Test opening in disconnector lid self-closing
- Recommended mounting position: handle at top
- Size 000: Fixing on 1 DIN mounting rail with 112.5 or 125 mm spacing using fast fixing plate
- Size 00,1,2: Fixing on 2 DIN mounting rails with 125 or 150 mm spacing using fixing kit

Fuse Rating (A)	Cartridge (size)		H x W x D (mm)	Item Type	Catalogue No.	\$AU
125	000		x x		MBP000125A3P	161.00
160	00	M8	202 x 108 x 81		MBP-00-160A-3P	163.00
250	1	M10	238 x 185 x 110.5		MBP-1-250A-3P	480.00
400	2	M10	251 x 205 x 130		MBP-2-400A-3P	696.00
630	3	M12	288.5 x 256 x 148.9		MBP-3-630A3P	1,000.00



MBP-1-250A-3P

Busbar Mount Variants

Fuse Rating (A)	Cartridge (size)	Flex Cable (max)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
125	000	50 mm ²	206 x 53 x 104		MBB000125A3P	197.00
160	00	M8	202 x 108 x 95.5		MBB-00-160A-3P	209.00
250	1	M10	246 x 185 x 110.5		MBB-1-250A-3P	672.00



MBB000125A3P

Accessories

Shrouds for Cable Lugs

Compatibility	Poles	Mounting	Details (mounting)	Item Type	Catalogue No.	\$AU
Suits Mersen Fuse Switch Disconnectors - Fuse Size 00	3P	Busbar Mount	Can be clipped on top.		MBB-CS-00-3P	49.00
Suits Mersen Fuse Switch Disconnectors - Fuse Size 1	3P	Busbar Mount	Can be clipped on top.		MBB-CS-1-3P	98.00
Suits Mersen Fuse Switch Disconnectors - Fuse Size 2	3P	Busbar Mount	Can be clipped on top.	I	MBB-CS-2-3P	153.00

Termination Options

Compatibility	Item Type	Catalogue No.	\$AU
Suits Mersen Fuse Switch Disconnectors - Fuse Size 1	I	MB-CC-1	188.00
Suits Mersen Fuse Switch Disconnectors - Fuse Size 2	I	MB-CC-2	455.00
Suits Mersen Fuse Switch Disconnectors - Fuse Size 3	I	MB-CC-3	419.00

Auxiliary Contacts

Compatibility	Item Type	Catalogue No.	\$AU
Suits Mersen Fuse Switch Disconnectors	I	MBP-SW	42.00

Fuses and Fuse Holders

NHP Fuses and Fuse Holders



DIN Fuse Links 500V AC

- Complies with AS/NZS 60269.2.1:2005 and IEC 60269-2-1
- 120 kA fault interruption capacity
- Type gG for general, cable, line and motor protection
- Sizes: 000, 1, 2, 3, and 4
- Dimensions according to DIN43 620 parts 1-4
- Fuses include a RED blown fuse indicator in top of fuse body
- Lead-free contact blades
- Non- isolated standard applications metal gripping lugs
- Low temperature rise
- Low power losses
- 500 V AC rated

500V gG Size 000 / 00



N000 16

Fuse Rating (A)	Cartridge (size)	Ue max (V AC)	Fuse Type	Break (kA @Un)	Item Type	Catalogue No.	\$AU
2	000	500	gG	120	I	N000 6	29.00
10	000	500	gG	120	I	N000 10	29.00
16	000	500	gG	120		N000 16	29.00
20	000	500	gG	120		N000 20	29.00
25	000	500	gG	120		N000 25	29.00
32	000	500	gG	120		N000 32	29.00
35	000	500	gG	120	I	N000 35	29.00
40	000	500	gG	120		N000 40	29.00
50	000	500	gG	120		N000 50	29.00
63	000	500	gG	120		N000 63	29.00
80	000	500	gG	120		N000 80	29.00
100	000	500	gG	120		N000 100	29.00
125	000	500	gG	120		N000 125	63.00

500V gG Size 1

Size 1 gG range DIN fuse in ratings of 25 to 250A at 500V.



N1 100

Fuse Rating (A)	Cartridge (size)	Ue max (V AC)	Fuse Type	Break (kA @Un)	Item Type	Catalogue No.	\$AU
35	1	500	gG	120	I	N1 35	55.00
50	1	500	gG	120	I	N1 50	55.00
63	1	500	gG	120	I	N1 63	55.00
80	1	500	gG	120	I	N1 80	55.00
100	1	500	gG	120		N1 100	55.00
125	1	500	gG	120		N1 125	55.00
160	1	500	gG	120		N1 160	55.00
200	1	500	gG	120		N1 200	77.00
250	1	500	gG	120		N1 250	77.00

500V gG Size 2

Size 2 gG range DIN fuse in ratings of 80 to 400A at 500V.

Fuse Rating (A)	Cartridge (size)	Ue max (V AC)	Fuse Type	Break (kA @Un)	Item Type	Catalogue No.	\$AU
80	2	500	gG	120	I	N2 80	57.00
100	2	500	gG	120		N2 100	57.00
125	2	500	gG	120	I	N2 125	57.00
160	2	500	gG	120	I	N2 160	57.00
200	2	500	gG	120		N2 200	63.00
250	2	500	gG	120		N2 250	63.00
315	2	500	gG	120		N2 315	93.00
355	2	500	gG	120	I	N2 355	93.00
400	2	500	gG	120		N2 400	93.00



N2 80

500V gG Size 3

Size 3 gG range DIN fuse in ratings of 400 to 800A at 500V.

Fuse Rating (A)	Cartridge (size)	Ue max (V AC)	Fuse Type	Break (kA @Un)	Item Type	Catalogue No.	\$AU
400	3	500	gG	120	I	N3 400	101.00
500	3	500	gG	120		N3 500	145.00
630	3	500	gG	120		N3 630	145.00
800	3	500	gG	120	I	N3 800	1,285.00



N3 400

DIN Solid Links**Din Fuse Solid link**

Frame (size)	Cartridge (size)	Break (kA @Un)	Item Type	Catalogue No.	\$AU
160	00	120		64200000	64.00
250	1	120	I	64210001	91.00
400	2	120		64210002	124.00
160	0	120	I	64210000	63.00



64210000

Extractor Handles

Item Description	Item Type	Catalogue No.	\$AU
Extractor Handle DIN Fuse		DIN-F	222.00



DIN-F

Mersen Cylindrical Fuse Holders

- Modular Design
- DIN rail mounting
- Finger Safe
- IP20
- Plastic Material UL94V2 mini
- Plastic Material R22HL2 for railway applications
- Flame retardant with glow wire flammability index to 960 degrees celcius
- IEC60269-2 and IEC 60947-3
- RoHS, Reach compliant
- Marine Certificates

10 x 38mm

Fuse Rating (A)	Poles	Width (mm)	Conductor size (mm²)	Ue max (V AC)	Item Type	Catalogue No.	\$AU
32	1	17.5	1 mm² - 16 mm²	690		CMC101	22.00
32	1	17.5	1 mm² - 16 mm²	690	I	CMC101I	34.00
32	2	34.9	1 mm² - 16 mm²	690		CMC102	64.00
32	3	52.5	1 mm² - 16 mm²	690		CMC103	79.00
32	3	52.5	1 mm² - 16 mm²	690	I	CMC103I	125.00
32	4	70	1 mm² - 16 mm²	690	I	CMC104	128.00



CMC101

1



CMS141

14 x 51mm

FuseRating (A)	Poles	Width (mm)	Conductor size (mm ²)	Ue max (V AC)	Item Type	Catalogue No.	\$AU
50	1	26.5	1 mm ² - 25 mm ²	690		CMS141	66.00
50	2	53	1 mm ² - 25 mm ²	690	I	CMS142	134.00
50	3	79.5	1 mm ² - 25 mm ²	690		CMS143	199.00



CMS221

22 x 58mm

FuseRating (A)	Poles	Width (mm)	Conductor size (mm ²)	Ue max (V AC)	Item Type	Catalogue No.	\$AU
125	1	35	1.5 mm ² - 50 mm ²	690		CMS221	105.00
125	2	70	1.5 mm ² - 50 mm ²	690		CMS222	177.00
125	3	105	1.5 mm ² - 50 mm ²	690		CMS223	296.00

Mersen Cylindrical Fuses

10 x 38mm

FuseRating (A)	Cartridge (size)	Ue max (V AC)	Fuse Type	Item Type	Catalogue No.	\$AU
1	10 x 38mm	500	gG		FR10-GG-50V-1	5.65
2	10 x 38mm	500	gG		FR10-GG-50V-2	49.61
4	10 x 38mm	500	gG		FR10-GG-50V-4	49.61
6	10 x 38mm	500	gG		FR10-GG-50V-6	49.61
10	10 x 38mm	500	gG		FR10-GG-50V-10	5.65
16	10 x 38mm	500	gG		FR10-GG-50V-16	49.61
20	10 x 38mm	500	gG		FR10-GG-50V-20	49.61
32	10 x 38mm	415	gG		FR10-GG-40V-32	6.45

FR10-GG-50V-2

14 x 51mm

FuseRating (A)	Cartridge (size)	Ue max (V AC)	Fuse Type	Item Type	Catalogue No.	\$AU
20	14 x 51mm	690	gG	I	FR14-GG-69V-20	57.61
36	14 x 51mm	500	gG		FR14-GG-50V-32	7.05
40	14 x 51mm	500	gG		FR14-GG-50V-40	7.05
50	14 x 51mm	500	gG		FR14-GG-50V-50	7.05

FR14-GG-69V-20

22 x 58mm

FuseRating (A)	Cartridge (size)	Ue max (V AC)	Fuse Type	Item Type	Catalogue No.	\$AU
40	22 x 58mm	690	gG	I	FR22-GG-69V-40	22.00
50	22 x 58mm	690	gG	I	FR22-GG-69V-50	22.00
63	22 x 58mm	690	gG		FR22-GG-69V-63	22.00
80	22 x 58mm	690	gG		FR22-GG-69V-80	88.03
100	22 x 58mm	500	gG		FR22-GG-50V-100	88.03
125	22 x 58mm	500	gG		FR22-GG-50V-125	88.03

FR22-GG-69V-63

Socomec DIN Fuse Bases and Accessories

Single pole types can be clipped together using 'connecting blocks' to form 1, 2, 3 or 4 pole configurations. These products are customisable with accessories such as IP20 kits, Fuse Covers, Phase Separation Shields and Terminal Shrouds.

- Complies with IEC 60269-1 & 2
- Suits DIN fuse types 6A to 630A; gG, aM, gR and other NH/DIN blade fuses
- 100kA fault rating
- 690V AC rated
- Modular design and accessories for configuration to application
- DIN rail or back plate mounting
- Open or IP20 enclosed versions
- Connect individual poles together 1-4 poles
- Blown fuse option

2 connecting blocks are required to connect 3 fuse bases, 4 phase separation shields required for 3 fuse bases, 2 terminal shrouds required per pole and 1 fuse cover required per pole. B/MTNT = Backplate Mounting, D/MNT = DIN Rail Mounting.

DFB DIN Fuse Bases Three Pole

DIN Fuse Bases Size 00 to 3 Pole

FuseRating (A)	Cartridge (size)	Mounting	Item Type	Catalogue No.	\$AU
160	000 or 00	Back Plate		65001030	341.00
250	1	Back Plate	I	65011031	809.00



65001030

IP20 Kit Single Pole and Three Pole

Suit Fuse Base Size	Poles	Item Type	Catalogue No.	\$AU
DFB 1	3		6511 1031	358.00



6511 1031

NV Clip-in Fuse Holder for Offset Tag Fuse Links

Fast reliable fitting and removal of fuse links, DIN rail or panel mountable, suits offset tag fuse links 2 to 63A, complies to BS standard, accepts gG type NNS (for NV32) and NES (for NV63) fuse links, rated 80 kA, 32A and 63A fuse holders rated to 550V AC.

- Pull to disconnect circuit and remove fuse
- Suits offset tag links 2 to 63 A
- Type gG general purpose rated
- 550 V AC rated
- Complies to BS standard
- DIN rail mount

Connection	FuseRating (A)	Housing (colour)	H x W x D (mm)	Conductor Size (mm ²)	Ue max (V AC)	Item Type	Catalogue No.	\$AU
Rear Stud, Rear Stud	32	Black	75.5 x 27 x 56	1 mm ² - M6	550	I	NV32 BBS	21.00
Front Wired, Front Wired	32	Black	75.5 x 27 x 56	1 mm ² - 16 mm ²	550		NV32 FW	17.00
Front Wired, Front Wired	63	Black	88.5 x 30 x 63	1 mm ² - 25 mm ²	550		NV63 FW	48.00



NV32 FW

BS Fuse Links

- Complies to BS standard
- 80 kA fault interruption capacity
- Type gG for general, cable, line and motor protection
- 2 to 63 A range
- 415 V AC rated
- Type gM specifically for motor protection
- 10M16 to 32M63 range
- 415 V AC rated

Blade Type Offset Centre Tag

Fuse size reference sizes A1, A2, A3, Hybrid A3, A4 and hybrid A4.

NNS Size F1 Fuse Links

FuseRating (A)	Cartridge (size)	Ue max (V AC)	Fuse Type	Break (kA @Un)	Item Type	Catalogue No.	\$AU
2	F1	500	gG	80		NNS 2	8.05
4	F1	500	gG	80		NNS 4	8.05
6	F1	500	gG	80		NNS 6	8.05
10	F1	500	gG	80		NNS 10	7.25
16	F1	500	gG	80		NNS 16	8.05
20	F1	500	gG	80		NNS 20	8.05
20M25	F1	415	gM	80	I	NNS 20M25	17.00
20M32	F1	415	gM	80	I	NNS 20M32	17.00
25	F1	500	gG	80		NNS 25	8.05
32	F1	500	gG	80		NNS 32	8.05



NNS 10

1



NES 20

NES Size F2 Fuse Links

Fuse Rating (A)	Cartridge (size)	Ue max (V AC)	Fuse Type	Break (kA @Un)	Item Type	Catalogue No.	\$AU
20	F2	500	gG	80	I	NES 20	40.00
25	F2	500	gG	80	I	NES 25	40.00
32	F2	500	gG	80		NES 32	40.00
40	F2	500	gG	80		NES 40	40.00
50	F2	500	gG	80		NES 50	40.00
63	F2	500	gG	80		NES 63	40.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Enclosed Isolating Switches

Socomec Enclosed Isolating Switches

- IP65 rating combined with selection of polycarbonate, mild steel and stainless steel, has any environment, indoor or outdoor, covered
- Spacious design allowing for quick and easy connection as well as the option to fit additional accessories within the enclosed assembly
- Knockouts provided with ELB-PM series (up to 63A) and gland plates for the ELB-S series as standard making it easier to connect to the internal isolator and reducing installation time
- The same high quality Socomec load break switches including the SLBM, SLB and 32BR switches used across the enclosed range
- Enclosed assemblies feature the ergonomic IP65 S-Type handles from Socomec which includes interlocking (in the ON position), pad locking, UV and chemical agent resistive material and the choice of standard blue or red/yellow colour

The Socomec range of enclosed load break switches consists of the compact polycarbonate ELB-PM, larger sheet metal ELB-S and the stainless steel visible load break switch ESS series. Together, these series ensure your commercial and industrial switching needs are met whatever the environment and conditions.



ELB-PM Polycarbonate Enclosed Load Break Switches

The IP65 range of enclosed polycarbonate switches from Socomec come fitted with the SLBM switch along with a neutral and earth terminal for easy connection. With models available from 25A up to 100A, the spacious design of the ELB-PM series also allows for fitting two additional modules, one on each side, increasing the functionality of the switch. Standard colour is grey with blue / black handle. Yellow front cover and red handle is also available (need to add "Y" to Cat. No).

AC-22a (A@400V)	AC-23a (A@400V)	AC-23a (kW @400V)	Item Type	Catalogue No.	\$AU
25	25	11	I	ELBPM253P	268.00
32	32	15		ELBPM323P	320.00
40	40	18.5	I	ELBPM403P	355.00
63	63	30		ELBPM633P	429.00
80	80	37		ELBPM803P	619.00
100	80	37		ELBPM1003P	755.00



ELBPM253P

ELB-S Enclosed Load Break Switches

The IP65 ELB-S steel enclosed Socomec load break switches (from 20A up to 800A) are powder coated grey (RAL 7035) and suitable for indoor and outdoor applications where the environment is not highly corrosive.

The Socomec SLBM and SLB load break switches are mounted within for easy connection and come with earth terminals and terminal covers along with a door lock fitted as standard (other locking options also available).

3-Pole Switches

In (A)	Enclosure	H x W x D (mm)	Item Type	Catalogue No.	\$AU
20	MAS0202015R5	200 x 200 x 155	A	ELBS203P	1,150.00
32	MAS0202015R5	200 x 200 x 155	A	ELBS323P	1,199.00
40	MAS0202015R5	200 x 200 x 155	A	ELBS403P	1,215.00
63	MAS0202015R5	200 x 200 x 155		ELBS633P	1,247.00
80	MAS0202015R5	200 x 200 x 155		ELBS803P	1,410.00
100	MAS0202015R5	200 x 200 x 155		ELBS1003P	1,426.00
125	MAS0352515R5	350 x 250 x 155		ELBS1253P	1,441.00
160	MAS0352515R5	350 x 250 x 155		ELBS1603P	1,889.00
200	MAS0403021R5	400 x 300 x 210		ELBS2003P	2,232.00
250	MAS0403021R5	400 x 300 x 210		ELBS2503P	2,416.00
315	MAS0503021R5	500 x 400 x 210		ELBS3153P	2,647.00
400	MAS0604021R5	600 x 400 x 210		ELBS4003P	3,081.00
630	MAS0604021R5	600 x 400 x 210	A	ELBS6303P	4,161.00



ELBS203P

1

ESS Enclosed Stainless Steel Load Break Switches

The ESS series of stainless steel enclosed load break switches feature the side operated 32BR safety visual load break switches and clear viewing window. With the addition of the mechanical flag indicator directly connected to the device's breaking system, reliable position information is provided on the front of the enclosure.

The safety door interlocking mechanism is featured as standard across the ESS series and combined with the high grade 316 stainless steel enclosure, these switches are ideal for applications with a focus on safety and arduous environment applications including mining and food and beverage applications.

- Using 32BR32 safety visual load break switches
- 50 to 800A in 3 and 4 pole
- Flag indication through window
- "S" handle with metal locking lever standard
- Interlock prevents door opening when switch is ON
- Interlock prevents switch operation when door is open
- Earth and Neutral Bars included
- Optional aluminium handle
- Optional stainless steel handle (extra wide enclosure needed)

3P ESS Enclosed 32BR Load Break Switches

In (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
50	400 x 300 x 210		ESSS503P	5,137.00
80	400 x 300 x 200	A	ESSS803P	5,321.00
80	600 x 400 x 200	A	ESSL803P	5,754.00
125	400 x 400 x 210	A	ESSS1253P	6,402.00
200	400 x 400 x 210	I	ESSS2003P	6,402.00
125	600 x 400 x 210	A	ESSL1253P	6,587.00
200	600 x 400 x 200	A	ESSL2003P	6,790.00
400	800 x 600 x 300		ESSS4003P	9,587.00
630	800 x 600 x 300	A	ESSS6303P	11,550.00
800	800 x 600 x 300	A	ESSS8003P	13,823.00



ESSS503P

4P ESS Enclosed 32BR Load Break Switches

In (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
50	400 x 300 x 200	A	ESSS504P	5,784.00
80	400 x 300 x 200	A	ESSS804P	6,031.00
80	600 x 400 x 200	A	ESSL804P	6,481.00
125	400 x 400 x 200	A	ESSS1254P	6,819.00
200	400 x 400 x 200	A	ESSS2004P	6,914.00
200	600 x 400 x 210	A	ESSL2004P	7,236.00
125	600 x 400 x 200	A	ESS1254P	7,439.00
400	800 x 600 x 300	A	ESSS4004P	10,822.00
630	800 x 600 x 300	A	ESSS6304P	12,786.00
800	800 x 600 x 300	A	ESSS8004P	15,601.00



ESSS504P

Enclosed Isolating Switches

Allen-Bradley Enclosed Isolating Switches

- IP66 / UL Type 1/3/3R/12 operating handles and high IP66 rated enclosures in polycarbonate, mild steel or stainless steel, has any environment, indoor or outdoor, covered.
- Suitable as At-Motor Disconnect Switch (UL508) useful for overseas application with added UL requirements
- 3 and 6 Pole enclosed switches dedicated to motor isolation and other load switch applications
- Padlockable handles available (up to 3 padlocks) for added security

The Allen-Bradley 194E series of enclosed isolating switches are UL certified with an IP66 rating. Available with choice of polycarbonate, painted steel or stainless steel version in current ratings ranging from 16 to 100A.



194E Enclosed switches

194E load switches are designed for use as local motor isolation or other load switch applications. Available with 3 and 6 pole versions with add-on additional poles, grounding and neutral terminals and auxiliary contacts, the Bulletin 194E shares the same operating handles as the Bulletin 194L control and load switches.

Non-Metallic

194E Non-Metallic 3 Pole

Poles	In (A)	Item Type	Catalogue No.	\$AU
3	25	I	194E-Y25M-1753-6N	292.63



194E-Y25M-1753-6N

Enclosed Isolating Switches

Socomec ISO Enclosed Isolating Switch Disconnectors



- IP65 rating combined with selection of polycarbonate, polyester, aluminium and stainless steel, has any environment, indoor or outdoor, covered
- Easy to install and operate
- Choice of larger enclosures for increased wiring space
- Door interlock when switch is in ON position preventing the unauthorized removal of the enclosure cover for added safety
- Switch centering system for an easy closing of the enclosure
- Up to 3 padlocks in OFF position for added security
- Snap-on accessories – couldn't be any easier or quicker to install

The renowned series of Socomec ISO Safety Switches delivers high IP65 wall mountable switching solutions ensuring you're covered for any application. With a choice of polycarbonate, polyester, aluminium and 316 stainless steel enclosed isolators, we have the range to suit all environments from indoor motor switching to demanding and corrosive outdoor environments including mining. Special EMC protection kits are available to transform the polyester iso switches to EMC protected switches.

Polycarbonate Enclosed ISO Switch Disconnectors

Fitted in compact polycarbonate enclosures, these switches are ideal for applications where space is limited. Offering high impact strength, the polycarbonate enclosed ISO switches are suitable for any commercial or industrial application with a high IP65 rating. Made from lightweight material, the enclosure is easy to mount and install.

3P Polycarbonate ISO Switch

3 Pole Grey Enclosed ISO Switch with Blue Handle



ISO325PGS

Ie AC-21a (A @≤690V)	kW AC-23a (kW @415V / 690V)	Ie AC-23a (A @≤690V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
25	9.5 / 12	12	10 mm ² Max	PCE1		ISO325PGS	163.00
32	11.5 / 13	13	10 mm ² Max	PCE1	I	ISO332PGS	175.00
40	20 / 18	18	10 mm ² Max	PCE1		ISO340PGS	241.00
63	22 / 22	22	16 mm ² Max	PCE2		ISO363PGS	260.00
40	20 / 18	18	10 mm ² Max	PCE2		ISO340PGLES	298.00
80	30 / 25.5	23.5	25 mm ² Max	PCE2		ISO380PGS	372.00
100	37 / 34	34	35 mm ² Max	PCE2		ISO3100PGS	479.00
125	45 / 41	41	50 mm ² Max	PCE3	I	ISO3125PGS	1,064.00

3 Pole Yellow Front ISO Switch with Red Handle



ISO325PYS

Ie AC-21a (A @≤690V)	kW AC-23a (kW @415V / 690V)	Ie AC-23a (A @≤690V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
25	9.5 / 12	12	10 mm ² Max	PCE1		ISO325PYS	163.00
32	11.5 / 13	13	10 mm ² Max	PCE1	I	ISO332PYS	175.00
40	20 / 18	18	10 mm ² Max	PCE1		ISO340PYS	241.00
63	22 / 22	22	16 mm ² Max	PCE2		ISO363PYS	260.00
40	20 / 18	18	10 mm ² Max	PCE2		ISO340PYLES	298.00
80	30 / 25.5	23.5	25 mm ² Max	PCE2		ISO380PYS	372.00
100	37 / 34	34	35 mm ² Max	PCE2		ISO3100PYS	479.00
125	45 / 41	41	50 mm ² Max	PCE3	I	ISO3125PYS	1,064.00

4P Polycarbonate ISO Switch

4 Pole Grey Enclosed ISO Switch with Blue Handle



ISO463PGS

Ie AC-21a (A @≤690V)	kW AC-23a (kW @415V / 690V)	Ie AC-23a (A @≤690V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
25	9.5 / 12	12	10 mm ² Max	PCE1		ISO425PGS	243.00
32	11.5 / 13	13	10 mm ² Max	PCE1	I	ISO432PGS	255.00
40	20 / 18	18	10 mm ² Max	PCE1		ISO440PGS	310.00
63	22 / 22	22	16 mm ² Max	PCE2		ISO463PGS	321.00
40	20 / 18	18	10 mm ² Max	PCE2		ISO440PGLES	336.00
80	30 / 25.5	23.5	25 mm ² Max	PCE2		ISO480PGS	399.00
100	37 / 34	34	35 mm ² Max	PCE2		ISO4100PGS	509.00
125	45 / 41	41	50 mm ² Max	PCE3	I	ISO4125PGS	987.00

4 Pole Yellow Front ISO Switch with Red Handle

Ie AC-21a (A @≤690V)	kW AC-23a (kW @415V / 690V)	Ie AC-23a (A @≤690V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
25	9.5 / 12	12	10 mm ² Max	PCE1		ISO425PYS	241.00
32	11.5 / 13	13	10 mm ² Max	PCE1	I	ISO432PYS	255.00
40	20 / 18	18	10 mm ² Max	PCE1		ISO440PYS	310.00
63	22 / 22	22	16 mm ² Max	PCE2		ISO463PYS	321.00
40	20 / 18	18	10 mm ² Max	PCE2		ISO440PYLES	336.00
80	30 / 25.5	23.5	25 mm ² Max	PCE2		ISO480PYS	399.00
100	37 / 34	34	35 mm ² Max	PCE2		ISO4100PYS	509.00
125	45 / 41	41	50 mm ² Max	PCE3	I	ISO4125PYS	987.00



ISO463PYS

6P Polycarbonate ISO Switch

6 Pole Grey Enclosed ISO Switch with Blue Handle

Ie AC-21a (A @≤690V)	kW AC-23a (kW @415V / 690V)	Ie AC-23a (A @≤690V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
32	32 / 13	13	10 mm ² Max	PCE2		ISO632PGS	472.00
63	63 / 22	23.5	16 mm ² Max	PCE3		ISO663PGS	591.00



ISO663PGS

6 Pole Yellow Front ISO Switch with Red Handle

Ie AC-21a (A @≤690V)	kW AC-23a (kW @415V / 690V)	Ie AC-23a (A @≤690V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
32	32 / 13	13	10 mm ² Max	PCE2		ISO632PYS	472.00
63	63 / 22	23.5	16 mm ² Max	PCE3		ISO663PYS	591.00



ISO632PYS

Polyester Enclosed ISO Switch Disconnectors

The polyester enclosed ISO switches are suitable for any commercial or industrial application with 160A or 250A current rating and a high IP65 rating. Made from lightweight material, the enclosure is easy to mount and install.

3P Polyester ISO Switch

3 Pole Grey Enclosed ISO Switch with Blue Handle

Ie AC-21a (A @415V)	kW AC-23a (kW @415V)	Ie AC-23a (A @415V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
160	80	160	95 mm ² Max	PEE3		ISO3160PGS	1,150.00
160	80	160	95 mm ² Max	PEE5		ISO3160PGLES	1,196.00
250	132	250	150 mm ² Max	PEE5		ISO3250PGS	1,438.00



ISO3160PGS

3 Pole Yellow Front ISO Switch with Red Handle

Ie AC-21a (A @415V)	kW AC-23a (kW @415V)	Ie AC-23a (A @415V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
160	80	160	95 mm ² Max	PEE3		ISO3160PYS	1,150.00
160	80	160	95 mm ² Max	PEE5		ISO3160PYLES	1,196.00
25	132	250	150 mm ² Max	PEE5		ISO3250PYS	1,438.00



ISO3160PYS

4P Polyester ISO Switch

4 Pole Grey Enclosed ISO Switch with Blue Handle

Ie AC-21a (A @415V)	kW AC-23a (kW @415V)	Ie AC-23a (A @415V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
160	80	160	95 mm ² Max	PEE3		ISO4160PGS	1,195.00
160	80	160	95 mm ² Max	PEE5	I	ISO4160PGLES	1,374.00
250	132	250	150 mm ² Max	PEE5	I	ISO4250PGS	1,513.00



ISO4160PGS

1



ISO4160PYS

4 Pole Yellow Front ISO Switch with Red Handle

Ie AC-21a (A @415V)	kW AC-23a (kW @415V)	Ie AC-23a (A @415V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
160	80	160	95 mm ² Max	PEE3		ISO4160PYS	1,195.00
160	80	160	95 mm ² Max	PEE5	I	ISO4160PYLES	1,374.00
250	132	250	150 mm ² Max	PEE5	I	ISO4250PYS	1,513.00

Aluminium Enclosed ISO Switch Disconnectors

Featuring a high IP65 rating, the aluminium series of ISO safety switches from Socomec, provides improved performance in the more demanding environments and excels in hard weather conditions.

3P Aluminium ISO Switch

3 Pole Grey Enclosed ISO Switch with Blue Handle



ISO363MGS

Ie AC-21a (A @415V)	Ie AC-23a (A @415V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
25	25	16 mm ² Max	ALE1		ISO325MGS	310.00
40	40	16 mm ² Max	ALE1		ISO340MGS	356.00
63	63	35 mm ² Max	ALE3		ISO363MGS	459.00
80	80	35 mm ² Max	ALE3		ISO380MGS	839.00
100	100	70 mm ² Max	ALE3		ISO3100MGS	1,089.00
160	160	95 mm ² Max	ALE5		ISO3160MGS	1,244.00
250	250	150 mm ² Max	ALE5	I	ISO3250MGS	1,427.00

3 Pole Yellow Front ISO Switch with Red Handle



ISO325MYS

Ie AC-21a (A @415V)	Ie AC-23a (A @415V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
25	25	16 mm ² Max	ALE1		ISO325MYS	310.00
40	40	16 mm ² Max	ALE1		ISO340MYS	356.00
63	63	35 mm ² Max	ALE3		ISO363MYS	459.00
80	80	35 mm ² Max	ALE3		ISO380MYS	839.00
100	100	70 mm ² Max	ALE3		ISO3100MYS	1,089.00
160	160	95 mm ² Max	ALE5		ISO3160MYS	1,244.00
250	250	150 mm ² Max	ALE5	I	ISO3250MYS	1,426.00

4P Aluminium ISO Switch

4 Pole Grey Enclosed ISO Switch with Blue Handle



ISO463MGS

Ie AC-21a (A @415V)	Ie AC-23a (A @415V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
25	25	16 mm ² Max	ALE1		ISO425MGS	399.00
40	40	16 mm ² Max	ALE1		ISO440MGS	451.00
63	63	35 mm ² Max	ALE3	I	ISO463MGS	656.00
80	80	35 mm ² Max	ALE3	I	ISO480MGS	1,181.00
100	100	70 mm ² Max	ALE3	I	ISO4100MGS	1,307.00
160	160	95 mm ² Max	ALE5	I	ISO4160MGS	1,366.00
250	250	150 mm ² Max	ALE5	I	ISO4250MGS	1,545.00

4 Pole Yellow Front ISO Switch with Red Handle



ISO425MYS

Ie AC-21a (A @415V)	Ie AC-23a (A @415V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
25	25	16 mm ² Max	ALE1		ISO425MYS	399.00
40	40	16 mm ² Max	ALE1		ISO440MYS	451.00
63	63	35 mm ² Max	ALE3		ISO463MYS	656.00
80	80	35 mm ² Max	ALE3		ISO480MYS	1,181.00
100	100	70 mm ² Max	ALE3		ISO4100MYS	1,307.00
160	160	95 mm ² Max	ALE5	I	ISO4160MYS	1,366.00
250	250	150 mm ² Max	ALE5	I	ISO4250MYS	1,545.00

Stainless Steel Enclosed ISO Switch Disconnectors

Utilising high quality 316 stainless steel, the IP65 rated ISO SS series features the yellow/red 3 position padlockable handle and is ideal for use in arduous environments.

3P Stainless Steel ISO Switch

3 Pole Grey Enclosed ISO Switch with Yellow and Red Handle

Ie AC-21a (A @415V)	Ie AC-23a (A @415V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
25	25	16 mm ² Max	SSE1		ISO325SSYS	975.00
40	40	16 mm ² Max	SSE1		ISO340SSYS	1,014.00
63	63	35 mm ² Max	SSE1		ISO363SSYS	1,059.00
80	80	35 mm ² Max	SSE1		ISO380SSYS	1,181.00
100	100	70 mm ² Max	SSE3		ISO3100SSYS	1,212.00
160	160	95 mm ² Max	SSE5		ISO3160SSYS	1,793.00
250	250	150 mm ² Max	SSE5	I	ISO3250SSYS	1,910.00



ISO325SSYS

4P Stainless Steel ISO Switch

4 Pole Grey Enclosed ISO Switch with Yellow and Red Handle

Ie AC-21a (A @415V)	Ie AC-23a (A @415V)	Wire Size	Enclosure (type)	Item Type	Catalogue No.	\$AU
25	25	16 mm ² Max	SSE1		ISO425SSYS	1,052.00
40	40	16 mm ² Max	SSE1		ISO440SSYS	1,090.00
63	63	35 mm ² Max	SSE1	I	ISO463SSYS	1,123.00
80	80	35 mm ² Max	SSE1		ISO480SSYS	1,251.00
100	100	70 mm ² Max	SSE3		ISO4100SSYS	1,423.00
160	160	95 mm ² Max	SSE5	I	ISO4160SSYS	2,333.00
250	250	150 mm ² Max	SSE5	I	ISO4250SSYS	2,508.00



ISO425SSYS

EMC-Protection ISO Kit

Available for the polycarbonate enclosure range, EMC Safety Kits ensure safe and reliable operation in environments with electromagnetic disturbance making this series ideal for VSD and HVAC applications.

Item Description	Item Type	Catalogue No.	\$AU
EMC KIT TO SUIT 25A TO 40A POLYCARBONATE ENCLOSURE (PCE1)		21NH0301	89.00
EMC KIT TO SUIT 32A TO 100A POLYCARBONATE ENCLOSURE (PCE2)		21NH0302	97.00
EMC KIT TO SUIT 63A TO 125A POLYCARBONATE ENCLOSURE (PCE3)	I	21NH0303	130.00



21NH0301

Enclosed ISO Switches Accessories

Easy to install Auxiliary contact and optional Solid Neutral Poles.

Auxiliary Contact

Item Description	Item Type	Catalogue No.	\$AU
AUX CONTACT 1NO+1NC TO SUIT POLYCARBONATE ISO SWITCH		21134001	55.00
AUX CONTACT 2NO TO SUIT POLYCARBONATE ISO SWITCH		21134002	62.00

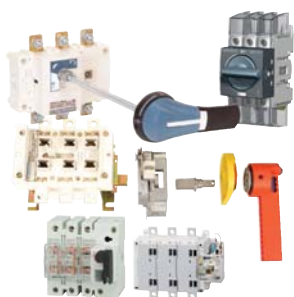
Neutral Pole

Item Description	Item Type	Catalogue No.	\$AU
UNSWITCHED SOLID NEUTRAL POLE TO SUIT 25A to 32A POLYCARBONATE ISO SWITCH		21155005	62.00
UNSWITCHED SOLID NEUTRAL POLE TO SUIT 40A to 63A POLYCARBONATE ISO SWITCH		21155007	78.00
UNSWITCHED SOLID NEUTRAL POLE TO SUIT 80A POLYCARBONATE ISO SWITCH		21155009	88.00
UNSWITCHED SOLID NEUTRAL POLE TO SUIT 100A to 125A POLYCARBONATE ISO SWITCH		21155011	118.00

Load Break Switches

Socomec Load Break Switches

Socomec SLBM - Standard Load Break Modular Series (16A to 125A)	Page 204
Socomec SLB - Standard Load Break Switch Series (125 to 4000A)	Page 205
Socomec VLB - Visible Load Break Switch (32 to 1600A)	Page 206
Socomec 32BR - Visible Load Break Switch - Side Operated (50 to 1250A)	Page 207
Socomec RLB - Remote Load Break Switch (40 to 1800A)	Page 208
Socomec INOSYS Load Break Switches for DC and PV (160A to 630A)	Page 208
Socomec Accessories for Load Break Switches	Page 208



- Double break per pole offers high durability and short-circuit withstand
- Use of glass fibre reinforced polyester provides high mechanical and thermal resistance (does not include SLBM or VLB modular series)
- Quick and easy to install thanks to good centre to centre distance and connection accessories including copper connecting links.
- Wide range of accessories available which is flexible in adapting to various applications and reduces the cost of management and storage
- All Socomec load break switches are compatible with the ergonomic IP65 S-Type Handles which features interlocking (in the ON position), padlocking, UV and chemical agent resistive material and the choice of standard blue or red / yellow colour

One of the widest range of load break switches available on the global market, the Socomec series of load break solutions includes modular and standard switches, along with switches with visible breaking and positive break indication, remote trip switches and enclosed options.

The standard coverage range suits 415V AC applications with current ratings varying from 16A up to 4000A (AC21). A comprehensive range of accessories are also available to fulfil any application requirement.

For switching requirements greater than 4000A or for application where voltages are greater than 690V please contact NHP.

Socomec SLBM - Standard Load Break Modular Series (16A to 125A)

Available up to 125A and mounting via standard DIN rail or base mount, the compact and modular SLBM series comes complete with direct mount handle or a panel mount handle and shaft. Fourth pole and auxiliary switching can also be achieved with easy clip-on modules, refer to accessories.



SLBM163PD

SLBM Switch - Supplied with Direct Mount Handle

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Item Type	Catalogue No.	\$AU
16	16	7.5	K	SLBM163PD	103.00
20	20	9	K	SLBM203PD	115.00
25	25	11	K	SLBM253PD	121.00
32	32	15	K	SLBM323PD	142.00
40	40	18.5	K	SLBM403PD	160.00
63	63	30	K	SLBM633PD	194.00
80	80	37	K	SLBM803PD	209.00
100	100	45	K	SLBM1003PD	371.00
125	125	55	K	SLBM1253PD	461.00

SLBM Switch - Supplied with External Handle and Shaft

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Item Type	Catalogue No.	\$AU
16	16	7.5	K	SLBM163P	194.00
20	20	9	K	SLBM203P	209.00
25	25	11	K	SLBM253P	230.00
32	32	15	K	SLBM323P	244.00
40	40	18.5	K	SLBM403P	254.00
63	63	30	K	SLBM633P	295.00
80	80	37	K	SLBM803P	314.00
100	100	45	K	SLBM1003P	481.00
125	125	55	K	SLBM1253P	535.00



SLBM163P

SLBM Switch - Supplied with "Heavy Duty" S1 External Handle and Shaft

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Item Type	Catalogue No.	\$AU
16	16	7.5	K	SLBM163PS	265.00
20	20	9	K	SLBM203PS	282.00
25	25	11	K	SLBM253PS	300.00
32	32	15	K	SLBM323PS	316.00
40	40	18.5	K	SLBM403PS	324.00
63	63	30	K	SLBM633PS	371.00
80	80	37	K	SLBM803PS	389.00
100	100	45	K	SLBM1003PS	525.00
125	125	55	K	SLBM1253PS	614.00



SLBM163PS

SLBM Fourth Pole Module (Simultaneous Switching)

Item Description	AC-23a (A@415V)	Item Type	Catalogue No.	\$AU
Clip On 4th Pole Module To Suit SLBM/SCOM 16A	16		22001000	32.00
Clip On 4th Pole Module To Suit SLBM/SCOM 20A	20		22001001	36.00
Clip On 4th Pole Module To Suit SLBM/SCOM 25A	25		22001002	39.00
Clip On 4th Pole Module To Suit SLBM/SCOM 32A	32		22001003	47.00
Clip On 4th Pole Module To Suit SLBM/SCOM 40A	40		22001004	49.00
Clip On 4th Pole Module To Suit SLBM/SCOM 63A	63		22001006	58.00
Clip On 4th Pole Module To Suit SLBM/SCOM 80A	80		22001008	65.00
Clip On 4th Pole Module To Suit SLBM/SCOM 100A	100		22001010	86.00
Clip On 4th Pole Module To Suit SLBM/SCOM 125A	125		22001011	106.00



22001000

Socomec SLB - Standard Load Break Switch Series (125 to 4000A)

Compact switching solutions from 125A up to 4000A, the SLB Series (Sirco) is a proven, reliable design well suited to the arduous switching of motors and other loads. Base mounting of these switches is standard and the choice of direct mount handle or external mount handle and shaft kits are available as per the range below.

For switches larger than 4000A or switches rated to 690V AC, please contact NHP for further information.

3 Pole SLB Switch - Supplied with Direct Handle

AC-21a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
125	63	3	K	SLB1253PD	680.00
160	80	3	K	SLB1603PD	900.00
200	100	3	K	SLB2003PD	958.00
250	132	3	K	SLB2503PD	1,051.00
315	160	3	K	SLB3153PD	1,324.00
400	220	3	K	SLB4003PD	1,564.00
500	280	3	K	SLB5003PD	2,096.00
630	280	3	K	SLB6303PD	2,399.00
800	450	3	K	SLB8003PD	3,346.00
1000	560	3	K	SLB10003PD	4,794.00
1250	710	3	K	SLB12503PD	6,447.00
1600	710	3	K	SLB16003PD	7,776.00
3200	710	3	K	SLB32003PD	15,348.00



SLB1253PD

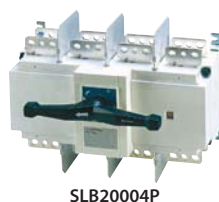
3 Pole SLB Switch - Supplied with External Handle and Shaft

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
125	125	63	3		SLB1253P	680.00
160	160	80	3		SLB1603P	900.00
200	200	100	3		SLB2003P	958.00
250	250	132	3		SLB2503P	1,051.00
315	315	160	3		SLB3153P	1,324.00
400	400	220	3		SLB4003P	1,564.00
500	500	280	3		SLB5003P	2,096.00
630	630	280	3		SLB6303P	2,399.00
800	800	450	3		SLB8003P	3,346.00
1000	1000	560	3		SLB10003P	4,794.00
1250	1250	710	3		SLB12503P	6,447.00
1600	1600	710	3		SLB16003P	7,630.00
1800	1800	710	3	I	SLB18003P	9,070.00
2000	2000	710	3		SLB20003P	11,663.00
2500	2500	710	3		SLB25003P	13,202.00
3200	3200	710	3		SLB32003P	15,348.00
4000	4000	710	3	I	SLB40003P	35,482.00



SLB20003P

1



SLB20004P

4 Pole SLB Switch - Supplied with External Handle and Shaft

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
125	125	63	4		SLB1254P	914.00
160	160	80	4		SLB1604P	1,096.00
200	200	100	4		SLB2004P	1,271.00
250	250	132	4		SLB2504P	1,368.00
315	315	160	4	A	SLB3154P	1,739.00
400	400	220	4		SLB4004P	2,051.00
500	500	280	4	A	SLB5004P	2,581.00
630	630	280	4		SLB6304P	3,098.00
800	800	450	4	K	SLB8004P	4,363.00
1000	1000	560	4	A	SLB10004P	6,447.00
1250	1250	710	4		SLB12504P	8,357.00
1600	1600	710	4		SLB16004P	9,888.00
1800	1800	710	4	K	SLB18004P	11,405.00
2000	2000	710	4	K	SLB20004P	13,681.00
2500	2500	710	4	K	SLB25004P	15,970.00
3200	3200	710	4	K	SLB32004P	19,775.00
4000	4000	710	4	K	SLB40004P	45,609.00

6 Pole SLB Switch - Supplied with External Mount Handle and Shaft

AC-21a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
125	63	6	K	SLB1256P	1,545.00
160	80	6	K	SLB1606P	1,675.00
250	132	6	K	SLB2506P	2,628.00
400	220	6	K	SLB4006P	3,846.00
630	280	6	K	SLB6306P	5,251.00

Socomec VLB - Visible Load Break Switch (32 to 1600A)

The visible series of load break switches feature fully visible breaking and positive break indication ensuring safe switching as the user can assess the condition of the device. This series is particularly suited for safety focus applications and emergency load break.



VLB323P

3 Pole VLB Switch - Supplied with External Handle and Shaft

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
32	32	15	3	K	VLB323P	520.00
40	40	18.5	3	K	VLB403P	574.00
63	63	30	3	K	VLB633P	621.00
80	80	30	3	K	VLB803P	663.00
100	100	100	3	K	VLB1003P	680.00
100	100	45	3	K	VLBM1003P	687.00
125	125	55	3	K	VLB1253P	837.00
125	125	55	3	K	VLBM1253P	837.00
160	160	75	3	K	VLBM1603P	973.00
160	160	75	3		VLB1603P	997.00
200	200	100	3	K	VLB2003P	1,224.00
250	250	140	3	K	VLB2503P	1,855.00
315	315	160	3	K	VLB3153P	1,959.00
400	400	220	3	K	VLB4003P	2,208.00
500	500	295	3	K	VLB5003P	2,833.00
630	630	355	3	K	VLB6303P	4,377.00
800	800	355	3	K	VLB8003P	6,068.00
1250	1250	560	3	K	VLB12503P	9,815.00
1600	1600	560	3	K	VLB16003P	11,482.00

4 Pole VLB Switch - Supplied with External Handle and Shaft

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
63	63	30	4	K	VLB634P	708.00
80	80	30	4	K	VLB804P	755.00
100	100	45	4	K	VLBM1004P	792.00
125	125	55	4	K	VLBM1254P	946.00
160	160	75	4	K	VLBM1604P	1,129.00
200	200	100	4	K	VLB2004P	1,413.00
250	250	140	4	K	VLB2504P	2,005.00
250	250	140	4	K	VLB2504P1	2,005.00
315	315	160	4	K	VLB3154P	2,189.00
400	400	220	4	K	VLB4004P	2,460.00
500	500	295	4	K	VLB5004P	3,976.00
1250	1250	560	4	K	VLB12504P	12,329.00
1600	1600	560	4	K	VLB16004P	14,212.00



VLB5004P

Socomec 32BR - Visible Load Break Switch - Side Operated (50 to 1250A)

With the choice of a standard 32BR kit including a red external side mount handle and shaft or additional door interlock for added safety, the 32BR series of switches is ideal for use in applications requiring a high degree of safety when isolating supply and equipment.

3 Pole 32BR Sider Kit

Supplied with red external side mount handle and shaft. 4, 6 and 8 pole versions available. Please contact NHP for further information.

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
80	80	30	3	I	32BR3008	1,129.00
125	125	63	3	I	32BR3012	1,686.00
200	200	100	3	I	32BR3020	2,044.00
400	400	220	3	I	32BR3040	2,458.00
630	630	355	3	I	32BR3063	4,507.00
1250	1250	560	3	I	32BR3000	11,361.00



32BR3008

3 Pole 32BR Safety Sider

Supplied with red external side mount handle, door interlock and shaft. 4, 6 and 8 pole versions available. Please contact NHP for further information.

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
50	50	25	3		32BR3205	2,577.00
80	80	30	3		32BR3208	3,216.00
125	125	63	3		32BR3212	3,871.00
200	200	100	3		32BR3220	4,306.00
400	400	220	3		32BR3240	4,946.00
630	630	355	3		32BR3263	6,458.00
800	800	355	3	I	32BR3280	8,578.00



32BR3205

3 Pole 32BR Safety Sider

- Supplied with red zamac external side mount handle, door interlock and shaft
- 4, 6 and 8 pole versions available

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
80	63	30	3	I	32BR3108	3,601.00
200	200	100	3	I	32BR3120	4,290.00
400	400	220	3	I	32BR3140	6,707.00
630	630	355	3	I	32BR3163	6,955.00



32BR3108

1

Socomec RLB - Remote Load Break Switch (40 to 1800A)

The RLB series consisting of the smaller IDE and larger Sidermat range of remote trip load break switches are fully functional, remote breaking isolators with a range extending from 40A through to 1800A. To assist in protecting personnel against insulation faults via the advantage of its special remote trip function, the RLB range can also offer protection against overloads when combined with suitable current transformers and thermal relays.



RLB4023P

3 Pole RLB (IDE) Switch - Supplied with Direct Handle

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
40	40	22	3	K	RLB4023P	1,145.00
63	63	30	3	K	RLB6323P	1,564.00
63	63	30	3	K	RLB6343P	1,564.00
160	160	80	3	K	RLB16023P	3,127.00
160	160	80	3	K	RLB16043P	3,127.00



RLB2503P

3 Pole RLB (Sidermat) Switch - Supplied with Direct Handle

AC-21a (A@415V)	AC-23a (A@415V)	AC-23a (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
250	250	132	3	K	RLB2503P	4,189.00
400	400	220	3	K	RLB4003P	5,038.00
630	630	255	3	K	RLB6303P	7,099.00
1250	1250	710	3	K	RLB12503P	10,252.00
1600	1600	900	3	K	RLB16003P	11,800.00
1800	1600	900	3	K	RLB18003P	13,560.00

Socomec INOSYS Load Break Switches for DC and PV (160A to 630A)

Rated up to 1500 VDC, the INOSYS Load Break Switches have been specifically engineered and tested for the most demanding applications, comply with AS 60947.3:2018,

- Ease of Installation - Flexible configuration, wiring and installation to suit every application.
- Clear visible contact indicator - Safe operations under any circumstances.
- A highly reliable solution - Optimum performance during the complete installation lifecycle.
- Current ratings from 400A to 630A - covers all transformerless inverter applications.
- Complies AS 60947.3:2018.
- Disconnection within a PV installation.
- Battery protection.
- Rapid shutdown for firefighter safety.
- Isolation of DC processes.

Switch Body**4 Pole**

86P22041

In (A)	Poles	Frame Size	Shaft and Handle	Auxiliary	Bridging Bar	Item Type	Catalogue No.	\$AU
400	4	F3	14001032 and 14AF2111	84990001	84090040		86P22041	7,788.00
630	4	F3	14001032 and 14AF2111	84990001	84090040		86P22064	10,665.00

Socomec Accessories for Load Break Switches

The extensive range of Socomec load break switch accessories includes direct and external mount handles (including models featuring metal padlock lever), auxiliaries, multi-pole switch kits, copper bus bar links and all the other accessories you've come to expect of a market leading family of load break switches.

Direct Mount Handle ("OFF" Padlockable)

To suit SLBM Series



22995012

Load Break Switch	Handle (colour)	Handle (type)	Item Type	Catalogue No.	\$AU
SLBM 16-80A	Blue	Pistol		22995012	17.00
SLBM 100-125A	Blue	Pistol		22995032	23.00

To suit SLB Series

Load Break Switch	Handle (colour)	Handle (type)	Item Type	Catalogue No.	\$AU
SLB 125...160A	Black	Pistol		26995042	201.00
SLB 200...630A	Black	Pistol		2699 5052	254.00
SLB 4000A	Black	Pistol	I	27997062	958.00



To suit VLB Series

Load Break Switch	Handle (colour)	Item Type	Catalogue No.	\$AU
VLB 63...80A	Black	I	25995012	148.00
VLB 200A	Black		25995022	160.00
VLBM 100...160A	Black		22995022	166.00
VLB 250...500A	Black	I	36297901	263.00



External Mount Handle - S Type Series

Suitable for use across the Socomec range of load break switches, the innovative IP65 rated S Type handles provide additional safety features including door interlocking (in the ON position), 3-way padlocking in the OFF position and choice of standard blue/black or red/yellow handle to highlight safety enclosure for emergency breaking and disconnecting. Additionally, the robust, compact and ergonomic design of the S Type series of external mount handles ensures the highest quality fit and application for load break applications.

S00 Type Handles - For use with SLBM 16 to 80A

Load Break Switch	Handle (type)	Handle (colour)	IP Rating	Item Type	Catalogue No.	\$AU
SLBM 16...80A	Round	Blue & Black	IP65		14731111	68.00
SLBM 16...80A	Round	Red & Yellow	IP65		14741111	70.00
SLBM 16...80A	Round	Blue & Black	IP65		147A5111	70.00
SLBM 16...80A	Round	Blue & Black	IP65	I	14032113	99.00



S0 Type Handles - For use with SLBM 100 to 125A

Load Break Switch	Handle (type)	Handle (colour)	IP Rating	Item Type	Catalogue No.	\$AU
SLBM 100...125A	Round	Blue & Black	IP65		14831111	108.00
SLBM 100...125A	Pistol	Red & Yellow	IP65		14841111	110.00



S1 Type Handles - For use with SLBM 16 to 80A; PSF 32 to 63A; Side Operated Handle 50 to 80A; Handles with trip position suited to SSF 20 to 63A

Load Break Switch	Handle (colour)	Handle (type)	Item Type	Catalogue No.	\$AU
SLBM 16...80A	Blue & Black	S1 pistol Type		14132111	147.00
SSF BS/DN 20...63A	Red & Yellow	S1 pistol Type		14142111	167.00
SLB 16...160A or SSF 20...63A	Red & Yellow	Padlockable		141E2911	176.00
SLB 16...160A or SSF 20...63A	Blue & Black	Padlockable		141D2911	178.00
SSF BS/DN 20C...63	Blue & Black	S1 TEST Position	I	14132115	254.00
SSF BS/DN 20C...63	Blue & Black	Right Side Mount	I	14172111	309.00
SLB 100...160A	Blue & Black	Left Side Mount	I	141A2111	309.00
SSF BS/DN 20...63A	Red & Yellow	Pistol	I	14182111	345.00



1



142E2911

S2 Type Handles - For use with SLB 125 to 630A; VLB 250 to 500A; Side Operated Handle for 32BR 125 to 400A; INOSYS 400 to 630A.

Load Break Switch	Handle (colour)	Handle (type)	Item Type	Catalogue No.	\$AU
SSF BS/DN 100...400	Blue & Black	S2 Pistol Type		14232111	213.00
INOSYS 400...630A	Blue & Black	S2L Pistol Type		14AF2111	214.00
SLB 125...630A and SSF 100...400A	Red & Yellow	Padlockable		142E2911	242.00
SLB 125...630 or SSF 100...400	Blue & Black	Padlockable		142D2911	247.00
SLB 125...630A	Red & Yellow	S2 Pistol Type		14242111	291.00
SSF BS/DN 100...400	Blue & Black	S2 TEST Position	I	14232115	308.00
SSF BS/DN 100...400	Blue & Black	Pistol	I	14272111	309.00
VLB 125...500A, SSF 100...400A	Red & Yellow	Right Side Mount	I	14282911	327.00
SSF BS/DN 100...400A	Red & Yellow	Pistol	I	14282111	344.00



14333111

S3 Type Handles - For use with SLB 800 to 1000A; SSF 630A to 800A; Handles with trip indicator for RLB 250 to 1800A; RSF 250 to 1250A; Side Operated 32BR 630 to 1250A

Load Break Switch	Handle (colour)	Handle (type)	Item Type	Catalogue No.	\$AU
SSF BS/DN 630...800A	Blue & Black	S4 T Handle		14333111	387.00
SSF BS/DN 630...1250A	Blue & Black	Pistol	I	14373111	387.00
SSF BS/DN 630...800A	Red & Yellow	S4 T Handle	I	14343111	424.00
SSF BS/DN 630...1250A	Red & Yellow	Pistol	I	14383111	424.00
SLB 250...1600A and SSF 630...800A	Blue & Black	Padlockable		143D3911	430.00
SLB 250...1600A and SSF 630...800A	Red & Yellow	Padlockable	I	143E3911	430.00
RLB 250...1800A	Blue & Black	Pistol	I	14313511	439.00
RLB 250...1800A	Red & Yellow	Pistol	I	14323511	501.00



14433111

S4 Type Handles - For use with 800 to 1800A; VLB 630 to 1600A;

Load Break Switch	Handle (colour)	Handle (type)	Item Type	Catalogue No.	\$AU
SLB 800...1800A	Blue & Black	S4 T Handle		14433111	417.00
SLB 800...1800A	Red & Yellow	S4 T Handle		14443111	423.00
SLB 800...1800A and SSF 1250A	Blue & Black	Padlockable		144D3911	462.00
SLB 800...1800A and SSF 1250A	Red & Yellow	Padlockable	I	144E3911	463.00
SLB 800...1800A and SSF 1250A	Blue & Black	T-Handle		14433113	535.00



14538113

S5 Type Handles - For use with SLB 2000 to 3200A

Load Break Switch	Handle (type)	Handle (colour)	IP Rating	Item Type	Catalogue No.	\$AU
SLB 2000 - 3200A	P-Handle	Blue & Black	IP65		14538113	1,506.00

External Mount Handle - V Type



SLBPH09

Load Break Switch	Handle (type)	Handle (colour)	IP Rating	Item Type	Catalogue No.	\$AU
SLB 2000...3200A	V-Handle	Black	IP65		SLBPH09	439.00

Red Zamac Handle



32110500

Load Break Switch	Item Description	Item Type	Catalogue No.	\$AU
32B31	Handle External Side Mount Red Aluminium Socomec Suit 32BR Switch	I	32110500	690.00

Socomec Stainless Steel Handles

Load Break Switch	Item Description	Item Type	Catalogue No.	\$AU
SLB 125...1800A	Socomec Sider Load Break External Mount Stainless Steel Handle Kit 2000-4000A	I	SLBPHM	596.00
SLB 2000...4000A	Handle External Mount Stainless Steel Suit SLB 2000-4000A	I	SLBPH11	1,216.00

Shafts to suit Socomec Load Break Switches

Shaft 5x5mm

Load Break Switch	Shaft (mm)	Shaft (mm)	Backplate to Door (mm, min-max)	Item Type	Catalogue No.	\$AU
SLBM 16...125A	320	5	100 - 372		14070532	48.00
SLBM 16...125A	320	5	100 - 372		14040532S1	53.00
VLB 63...80A, VLB 200A	320	5	96 - 380		14010532	58.00

14010532

Shafts 6x6 mm for VLBM with S1

Load Break Switch	Shaft (mm)	Shaft (mm)	Backplate to Door (mm, min-max)	Item Type	Catalogue No.	\$AU
VLBM 100...160A	320	6	110 - 357		14010632	156.00

14010632

Shaft 8x8 mm for VLB 63 to 80A and 200A; VCO 63 to 125A W/S1

Load Break Switch	Shaft (mm)	Shaft (mm)	Backplate to Door (mm, min-max)	Item Type	Catalogue No.	\$AU
VLB 63...80A, VLB 200A	320	8	96 - 380		14020832	89.00

14020832

Shaft 10x10mm (suits S2 Type External Handle)

Load Break Switch	Shaft (mm)	Shaft (mm)	Backplate to Door (mm, min-max)	Item Type	Catalogue No.	\$AU
VLB 125...500A	200	10	95 - 350		14001020	73.00
VLB 250...500A	350	10	95 - 350		14001032	90.00
VLB 250...500A	530	10	95 - 530		14001050	147.00

14001020

Shaft 12x12mm (suits S3 and S4 Type External Handle)

Load Break Switch	Shaft (mm)	Shaft (mm)	Backplate to Door (mm, min-max)	Item Type	Catalogue No.	\$AU
RLB 250-1800A with S3-S4 Handles	200	12	270 - 304	I	14001220	109.00
RLB 250-1800A with S3-S4 Handles	200	12	296 - 460	I	14011520	147.00
SSF BS/DN 630-800A	320	12	270 - 424		14001232	168.00
RSF BS/DN 250-1250A	320	12	295 - 675		14011532	185.00
SSF BS/DN 630-800A	500	12	270 - 604	I	14001250	255.00
SLB 800-1800A	400	12	295 - 755		14011540	291.00

14001220

Shaft 15x15mm (suits S5 Type External Handle)

Load Break Switch	Shaft (mm)	Shaft (mm)	Backplate to Door (mm, min-max)	Item Type	Catalogue No.	\$AU
SLB 125...3200A	320	15	653 - 923		27993018	167.00

27993018

1



27993022

Extension Shaft to suit 32BR

Load Break Switch	Shaft (mm)	Item Type	Catalogue No.	\$AU
32BR 125...1250A	200		27993022	109.00

Shaft Guides

For utilisation with S-type handles, to guide the shaft extension into the external handle. This accessory enables the handle to engage the extension shaft with a misalignment of up to 15 mm.
Required for shaft lengths over 320 mm.



SLBADAP2

Load Break Switch	Item Description	Item Type	Catalogue No.	\$AU
SLBM 16...125A	Shaft Guide To Suit S00 & S0 External Handles		14190000	6.30
SLB 125...1800A	Shaft Guide To Suit S1-S4 External Handles		14290000	48.00
20 - 1250A	Socomec Load Break Switch Shaft Coupling (10-15mm)	I	SLBADAP2	89.00
20 - 1250A	Socomec Load Break Switch Shaft Coupling (12-15mm)	I	SLBADAP3	89.00
SLB 125...3200A	Socomec Load Break Switch Direct Mount Shaft Lock 125-1800A	I	SLBDL01	314.00

Shaft CAM - used in conjunction with NHP ProSafe or Fortress Key Interlocks

Please refer to the NHP ProSafe section of products for choice of key and shot bolt.



14997702

Item Description	Item Type	Catalogue No.	\$AU
Cam Kit To Suit S and HS Handles		14997702	380.00
Shaft Cam Kit Suits 15X15mm Shaft		SLBLK4	520.00

SLBM Door Mounting Kit



22993309

Item Description	Item Type	Catalogue No.	\$AU
Sirco M Load Break Switch Door Mount Kit 16-80A		22993309	28.00

SLBM Changeover Switch Front Coupling

Converts two SLBM switches into a changeover switch.



22096009

Item Description	Item Type	Catalogue No.	\$AU
Sirco M Load Break Switch Coupling Changeover (I-O-II) 16-80A		22096009	180.00
Sirco M Load Break Switch Coupling C/O (I-I+II-II) 16-80A		22996009	202.00
Coupling Changeover (I-O-II) SLCM 100-125A		22096011	255.00

Socomec 6 and 8 Pole Switch Kits

Allows connection of two 3P or 4P Socomec load break switches converting them to 6P or 8P respectively.



22696009

Item Description	Item Type	Catalogue No.	\$AU
Sirco M Load Break Switch Coupling 6 and 8 Pole 16-80A		22696009	110.00

Auxiliaries

Auxiliaries to suit the SLBM Series

Load Break Switch	Contacts	Ie (A,nom)	Item Type	Catalogue No.	\$AU
SLBM 16...125A	2 NO	10		22990011	46.00
SLBM 16...125A	1 NO + 1 NC EB	10		22990001	54.00



22990001

Auxiliaries to suit the SLB Series

Load Break Switch	Contacts	Ie (A,nom)	Item Type	Catalogue No.	\$AU
SLB 125...3200A	1 CO EB 1st Contact	16		26990031	43.00
SLB 125...3200A	1 CO EB 2nd Contact	16		26990032	76.00
SLB 125...3200A	1 CO EB 1st Contact	16		26990241	209.00
SLB 125...3200A	1 CO EB 2nd Contact	16		26990242	218.00
SLB 125...3200A	1 NO + 1 NC EB 1st Contact	16		26990141	237.00
SLB 125...3200A	1 NO + 1 NC EB 2nd Contact	16		26990142	238.00



26990241

Auxiliaries to suit the VLB and SSF Series

Load Break Switch	Contacts	Ie (A,nom)	Item Type	Catalogue No.	\$AU
VLB 32...40A	1 NCEB	5		39990702	82.00
VLB 630...1600A	1 CO EB	16		27990001	201.00
VLB 630...1600A	1 CO EB	16	I	27990002	201.00
VLB 63...80A, VLB 200A	1 CO EB	16		25990001	202.00
VLB 630...1600A	1 NO + 1 NC EB	16	I	27990005	254.00
VLB 32...40A	2 CO EB	5	I	39990002	292.00
VLB 250...500A	1 NO + 1 NC EB	20	I	39990043	542.00
VLB 250...500A	1 NO + 1 NC EB	20	I	39990044	889.00



25990001

Auxiliaries to suit the 32BR Series

Load Break Switch	Contacts	Ie (A)	Item Type	Catalogue No.	\$AU
32BR0	1 CO EB	125 - 1250		27990011	147.00
32BR 50...1250A	2 CO EB	50 - 80		29990012	147.00



27990011

Terminal Shrouds

To suit SCOM and SLBM Series

Terminal shrouds come in pack of 2.

For Top & Bottom application, 1 package is required.

To suit the rest series

Terminal shrouds come in pack of 1.

For Top & Bottom application, 2 packages are required.

For Top / Bottom application, 1 package is required.

To suit SCOM and SLBM Series

Load Break Switch	IP Rating	Mounting	Poles	Package (qty)	Item Type	Catalogue No.	\$AU
SCOM 20...40A	IP20	Top / Bottom	1	2		22941005	19.00
SCOM 63...80A	IP20	Top / Bottom	1	2		22941009	27.00
SLBM 100...125A	IP20	Top / Bottom	1	2		22941011	34.00
SLBM 16...40A	IP20	Top / Bottom	3	2		22943005	44.00
SLBM 63...80A	IP20	Top / Bottom	3	2		22943009	66.00
SLBM 100...125A	IP20	Top / Bottom	3	2		22943016	78.00



22941005

1



26943014

To suit SLB and SCO Series

Load Break Switch	IP Rating	Mounting	Poles	Package (qty)	Item Type	Catalogue No.	\$AU
SLB 125...160A	IP20	Top / Bottom	3	1		26943014	129.00
SLB 200...250A	IP20	Top / Bottom	3	1		26943021	142.00
SLB 125...160A	IP20	Top / Bottom	4	1		26944014	149.00
SLB 200...250A	IP20	Top / Bottom	4	1		26944021	161.00
SLB 315...630A	IP20	Top / Bottom	3	1		26943051	318.00
SLB 315...630A	IP20	Top / Bottom	4	1		26944051	341.00

To suit VLB Series



39983016

Load Break Switch	IP Rating	Mounting	Poles	Package (qty)	Item Type	Catalogue No.	\$AU
VLB 160...200A	IP20	Top / Bottom	3 / 4	1		25944020	167.00
SSF BS/DN 100...160A	IP20	Top / Bottom	3	1		39983016	202.00
SSF BS/DN 100...160A	IP20	Top / Bottom	4	1	I	39984016	202.00
VLB 250...500A	IP20	Top / Bottom	3	1		39983025	234.00
VLB 630...800A	IP20	Top / Bottom	3	1		29983080	237.00
VLB 250-500A	IP20	Top / Bottom	4	1	I	39984025	247.00

Terminal Cover to suit 32BR Series



29948013

Load Break Switch	Mounting	Poles	Package (qty)	Item Type	Catalogue No.	\$AU
80A	Top / Bottom	4	1		29944008	72.00
125A	Top	3	1		29943013	146.00
200A	Top	3	1		29943020	146.00
125A	Bottom	3	1		29948013	146.00
200A	Bottom	3	1		29948020	146.00
400A	Top	3	1		29943050	200.00
400A	Bottom	3	1		29948050	200.00

To suit RLB and RSF Series



39983040

Load Break Switch	Mounting	Poles	Package (qty)	Item Type	Catalogue No.	\$AU
RLB 250-630A	Top / Bottom	3	1	I	39983040	291.00

Terminal Screens

Terminal screens come in pack of 1.
For Top / Bottom application, 1 package is required.

To suit SLB



26983080

Load Break Switch	Mounting	Poles	Item Type	Catalogue No.	\$AU
SLB 800...1000A	Top / Bottom	3		26983080	202.00
SLB 125...1800A	Top / Bottom	3		26983120	327.00
SLB 2000...3200A	Top / Bottom	3		26983200	633.00

Phase Barriers

Phase barriers come in pack of 1.

For Top / Bottom application, 1 package is required.

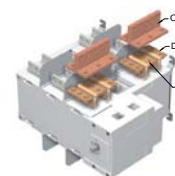
Load Break Switch	Mounting	Poles	Item Type	Catalogue No.	\$AU
SLB 125...160A	Top / Bottom	3		29980033	64.00
SLB 2000...250A	Top / Bottom	3		29980023	73.00
SLB 125...160A	Top / Bottom	4		29980034	82.00
SLB 315...630A	Top / Bottom	3		29980013	89.00
SLB 200...250A	Top / Bottom	4	I	29980024	100.00
SLB 315...630A	Top / Bottom	4		29980014	109.00



29980033

Copper Bus Bar Links

le (A, min-max)	Mounting (details)	Item Type	Catalogue No.	\$AU
2000 - 3200	Part B: M12 bolt set; Order 1 per pole	I	26991200	28.00
2000 - 2500	Part A: Connection Piece; Order 2 per pole		26191200	302.00
2000 - 3200	Part D: Right Angle Piece; Order 2 per pole	I	26391200	494.00
2000 - 3200	Part C: T-Piece; Order 1 per pole	I	26291200	1,018.00



26991200

Socomec Bridging Bar for INOSYS

Installation of 4 pole INOSYS LBS requires two bridging bars per configuration.

Item Description	Item Type	Catalogue No.	\$AU
BRIDGING BAR F3 SMALL FOR INOSYS LBS RANGE		84090040	159.00

Neutral Pole

LBS Neutral Poles also suitable for the Aluminium and Stainless steel Socomec Enclosed ISO Switch Disconnecter range.

Item Description	Item Type	Catalogue No.	\$AU
UNSWITCHED SOLID NEUTRAL POLE SUITS 25A TO 40A ISO M, SS AND SLBM		22005005	45.00
UNSWITCHED SOLID NEUTRAL POLE SUITS 63A TO 80A ISO M, SS AND SLBM		22005009	73.00
UNSWITCHED SOLID NEUTRAL POLE SUITS 100A ISO M, SS AND SLBM		22005011	125.00
UNSWITCHED SOLID NEUTRAL POLE SUITS 160A LBS		NB160000	223.00
UNSWITCHED SOLID NEUTRAL POLE TO SUIT 250A LBS		NB250000	319.00

Load Break Switches

Allen-Bradley Load Break Switches



- Suitable as At-Motor Disconnect Switch (UL508) useful for overseas application with added UL requirements
- Bulletin 194R also suitable as service entrance disconnecting (UL98) providing even greater application use
- Greater installation flexibility with selection of front/door or DIN/base mounting configurations (194E series only)
- Padlockable Handles Available (up to 3 padlocks) for added security
- Wide range of accessories available which is flexible in adapting to various applications and reduces the cost of management and storage

The Allen-Bradley range of load break switches includes the 194E series (16 to 100A) and 194R series (30 to 1250A) with both series UL listed and CSA certified and designed to meet IEC 60947-3 requirements.

The Bulletin 194E load switches are designed for use as local motor isolation or other load switch applications. Available with 3 and 6 pole versions with add-on additional poles, grounding and neutral terminals and auxiliary contacts, the Bulletin 194E shares the same operating handles as the Bulletin 194L Control and Load Switches.

The Bulletin 194R series consists of both fused and non-fused disconnect switches designed for use as service entrance disconnection and motor isolation and features a wide range of accessories to suit including auxiliaries, handles, shafts, terminal screens and more.

194E Load Break Switches (16 to 100A)

The 194E load switches are designed for use as a local motor isolation or other load switch applications. These switches are available with 3 and 6 pole versions along with add-on additional poles, grounding and neutral terminals and auxiliary contacts. Two mounting styles are available to choose from - Front / Door and Base / DIN configurations providing flexibility to fit a variety of installations.

Please Note: The 194E range shares the same operating handles as the Bulletin 194L Control and Load Switches.

Front / Door Mounting

Front / Door Mounting ON-OFF Switches



194E-E40-1753

Operator (type)	AC-21a (A@690V)	AC-23a (kW @690V)	Poles	Item Type	Catalogue No.	\$AU
Off/On Switch (Isolator)	16	7.5	3		194E-E16-1753	108.19
Off/On Switch (Isolator)	25	11	3		194E-E25-1753	133.30
Off/On Switch (Isolator)	32	15	3		194E-E32-1753	141.03
Off/On Switch (Isolator)	40	18.5	3		194E-E40-1753	175.82
Off/On Switch (Isolator)	63	22	3		194E-E63-1753	199.00
Off/On Switch (Isolator)	80	37	3		194E-E80-1753	316.84
Off/On Switch (Isolator)	100	45	3	I	194E-E100-1753	411.49

Base / DIN Rail Mounting

Base / DIN Mounting ON-OFF Switches



194E-A16-1753

Operator (type)	AC-21a (A@690V)	AC-23a (kW @690V)	Poles	Item Type	Catalogue No.	\$AU
Off/On Switch (Isolator)	16	7.5	3		194E-A16-1753	129.46
Off/On Switch (Isolator)	25	11	3		194E-A25-1753	154.55
Off/On Switch (Isolator)	32	15	3		194E-A32-1753	168.07
Off/On Switch (Isolator)	40	22	3		194E-A40-1753	199.00
Off/On Switch (Isolator)	63	30	3		194E-A63-1753	249.22
Off/On Switch (Isolator)	100	55	3		194E-A100-1753	438.54

194R Switch Accessories

194R Operating Handle - Padlockable Handle, Standard

For use with 194R disconnect switches up to 60A.



194R-PB

Switch	Handle / Bezel (colour)	IP Rating	Item Description	Item Type	Catalogue No.	\$AU
194R disconnect switches up to 60A	Black /	IP66	Padlockable Handle Suits 194R Disconnect Switches Black	I	194R-PB	50.72
194R disconnect switches up to 60A	Red / Yellow	IP66	Padlockable Handle Suits 194R Disconnect Switches Red/Yellow		194R-PY	50.72

194R Operating Handle - Standard Orientation with Defeater (UL100 to 400A switches)

For use with non-fused disconnect switches: 125 to 630A. IEC Fused disconnect switches: 100 to 400A. UL disconnect switches: 100 to 400A.

Switch	Handle / Bezel (colour)	IP Rating	Item Description	Item Type	Catalogue No.	\$AU
IEC Non-fused disconnect switches: 125...630 A or IEC Fused disconnect switches: 100...400 A.	Red / Yellow	IP66	Handle Suits UL Switches Red/Yellow 100-400A		194R-HM4E	100.85



194R-HM4E

194R Extension Shafts

Item Description	Item Type	Catalogue No.	\$AU
Extension Shaft 300mm Suits 140U-P, 194R-P/P*T Handles		194R-S1	21.28



194R-S1

Load Break Switches

Bulletin 194L and 194E Allen-Bradley Load Break Switch Common Accessories



Common accessories for the 194L and 194E series includes handles and extension shafts, while 194E auxiliaries and additional terminals (neutral, earth and 4th pole) are also provided below.

194L and 194E Handles - Screw Mounting Style

For use with 194L and 194E front or base mounted switches.

With Legend Plate 48 x 48mm



194E-HE4N-175

Item Description	Item Type	Catalogue No.	\$AU
Handle Type N 48mmx48mm Legend Text 0-1		194E-HE4N-175	27.15

194E Auxiliary Contact Blocks

1N/O+1N/C



194E-E-P11

Item Description	Loadbreak Switch	Item Type	Catalogue No.	\$AU
Auxiliary Contact 1N/O+1N/C Suits 194EA 16-100A	194E-A 16...100A		194E-A-P11	57.23
Auxiliary Contact 1N/O+1N/C Suits 194EE 16-100A	194E-E 16...100A		194E-E-P11	57.23

Load Break Switches

Sprecher+Schuh Load Break Switches

- Rated currents up to 100A
- Touch-proof switch body (IP 20)
- Water spray and dustproof mechanism handles (IP 66)
- Easily accessible terminals
- Clearly marked terminals
- Wide range of accessories
- High AC 23 A ratings
- High breaking capacity
- Electronic compatibility of auxiliary contacts
- High short circuit withstand capacity (reduced risk of welding)
- High overvoltage withstand

The L7 range of load break switches are available in 4 frame sizes (7 current ratings) and are suitable for use as motor isolators (AC 23) in the range of 7.5 to 45 kW. All switches utilise the same handle style, all of which can provide door interlocking facilities. Clip-on accessories enable quick assembly of 4 pole switches from basic 3 pole versions. The addition of auxiliary contacts, earth and neutral terminals enhances the range of applications. Three pole changeover and 6 pole versions are also available.



LE7 Panel Mount

3-Pole On-Off

Item Description	Item Type	Catalogue No.	\$AU
Load Break Switch, 3P, Panel Mount, 16A		LE7-16-1753	117.00
Load Break Switch, 3P, Panel Mount, 25A		LE7-25-1753	145.00
Load Break Switch, 3P, Panel Mount, 32A		LE7-32-1753	185.00
Load Break Switch, 3P, Panel Mount, 40A		LE7-40-1753	214.00
Load Break Switch, 3P, Panel Mount, 63A		LE7-63-1753	264.00
Load Break Switch, 3P, Panel Mount, 80A		LE7-80-1753	348.00
Load Break Switch, 3P, Panel Mount, 100A		LE7-100-1753	449.00



LE7-16-1753

Transfer Switches

Socomec Manual Transfer Switches



- Standard (I-O-II) and make before break (I-I&II-II) options available covering any application requirement
- Three stable positions (I-O-II) not affected by voltage drops or vibrations ensuring the connected load is protected against possible network interference
- Easy connections thanks to copper bar connection kit accessory for 2000 to 3200A switches enabling the use of flat or edgewise connection with top or bottom bridging.
- Compatibility with the ergonomic IP65 S-Type Handles which features interlocking (in the ON position), padlocking, UV and chemical agent resistive material and the choice of standard blue or red / yellow colour

Socomec have a complete range of manual multi-polar changeover and bypass switches that provide safe and reliable transfer between two sources of incoming power supply. They are available in standard or visible break contacts with a comprehensive range of accessories including mechanical interlocking.

SCOM Manual Transfer Switch

The SCOM (SIRCO M) are manually operated three or four pole modular switches with positive break indication that provide changeover, source inversion or switching under load between two low-voltage power circuits, as well as their safety isolation. With a wide range of user fitted accessories and various mounting options with direct or external handles, the SCOM range are ready to tackle all your disconnect and changeover needs.

SCOM 3 Pole Changeover Kits with Direct Handle



SCOM203PD

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
20 / 20	20 / 20	9 / 9	3	K	SCOM203PD	371.00
40 / 40	40 / 40	18 / 18	3	K	SCOM403PD	452.00
63 / 63	63 / 63	28.4 / 28.4	3	K	SCOM633PD	520.00
80 / 80	80 / 80	35.5 / 35.5	3	K	SCOM803PD	560.00

SCOM 3 Pole Changeover Kits with External Handle



SCOM203P

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
20 / 20	20 / 20	9 / 9	3	K	SCOM203P	467.00
40 / 40	40 / 40	18 / 18	3	K	SCOM403P	560.00
63 / 63	63 / 63	28.4 / 28.4	3	K	SCOM633P	639.00
80 / 80	80 / 80	35.5 / 35.5	3	K	SCOM803P	680.00

SCOM 4 Pole Changeover Kits with Direct Handle



SCOM204PD

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
20 / 20	20 / 20	9 / 9	4	K	SCOM204PD	436.00
40 / 40	40 / 40	18 / 18	4	K	SCOM404PD	560.00
63 / 63	63 / 63	28.4 / 28.4	4	K	SCOM634PD	639.00
80 / 80	80 / 80	35.5 / 35.5	4	K	SCOM804PD	680.00

SCOM 4 Pole Changeover Kits with External Handle



SCOM204P

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
20 / 20	20 / 20	9 / 9	4	K	SCOM204P	535.00
40 / 40	40 / 40	18 / 18	4	K	SCOM404P	663.00
63 / 63	63 / 63	28.4 / 28.4	4	K	SCOM634P	755.00
80 / 80	80 / 80	35.5 / 35.5	4	K	SCOM804P	808.00

SCOM (MB) Make Before Break Manual Transfer Switch

The SCOM MB (SIRCO M - MB) type are manually operated three or four pole modular switches with positive break indication that provide Make Before Break (I, I and II, II) changeover, source inversion or switching under load between two low-voltage power circuits. With a wide range of user fitted accessories and various mounting options with direct or external handles, the SIRCO M range are ready to tackle all your disconnect and changeover needs.

SCOM 3 Pole Make-Before-Break Changeover Kits with Direct Handle

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
20 / 20	20 / 20	9 / 9	3	K	SCOM203PDMB	378.00
40 / 40	40 / 40	18 / 18	3	K	SCOM403PDMB	467.00
80 / 80	80 / 80	35.5 / 35.5	3	K	SCOM803PDMB	574.00



SCOM203PDMB

SCO Manual Transfer Switch

The robust SCO (SIRCOVER) range are manually operated three or four pole switches with positive break indication that provide changeover, source inversion or switching under load between two low-voltage power circuits, as well as their safety isolation. The SCO range incorporates three stable positions, high performance on load switching characteristics and an option for direct or external handles.

SCO 3 Pole Changeover Kits with External Handle and Shaft

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
125 / 125	125 / 125	58 / 58	3	K	SCO1253PSTD	2,096.00
160 / 160	160 / 160	75 / 75	3	K	SCO1603PSTD	2,277.00
200 / 200	200 / 200	100 / 100	3	K	SCO2003PSTD	2,414.00
250 / 250	200 / 200	100 / 100	3	K	SCO2503PSTD	2,506.00
400 / 400	400 / 400	190 / 190	3	K	SCO4003PSTD	3,536.00
500 / 500	500 / 500	235 / 235	3	K	SCO5003PSTD	4,369.00
630 / 630	500 / 630	235 / 280	3	K	SCO6303PSTD	5,734.00
800 / 800	800 / 800	375 / 375	3	K	SCO8003PSTD	6,887.00
1250 / 1250	1250 / 1250	560 / 560	3	K	SCO12503PSTD	14,620.00
1600 / 1600	1250 / 1250	560 / 560	3	K	SCO16003PSTD	16,696.00



SCO1253PSTD

SCO 4 Pole Changeover Kits with External Handle

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
125 / 125	125 / 125	58 / 58	4	K	SCO1254PSTD	2,277.00
160 / 160	160 / 160	75 / 75	4	K	SCO1604PSTD	2,824.00
200 / 200	200 / 200	100 / 100	4	K	SCO2004PSTD	2,929.00
250 / 250	200 / 200	100 / 100	4	K	SCO2504PSTD	3,037.00
400 / 400	400 / 400	190 / 190	4	K	SCO4004PSTD	3,976.00
500 / 500	500 / 500	235 / 235	4	K	SCO5004PSTD	4,888.00
630 / 630	500 / 630	235 / 280	4	K	SCO6304PSTD	5,947.00
800 / 800	800 / 800	375 / 375	4	K	SCO8004PSTD	7,638.00
1250 / 1250	1250 / 1250	560 / 560	4	K	SCO12504PSTD	20,035.00
1600 / 1600	1250 / 1250	560 / 560	4	K	SCO16004PSTD	27,142.00
- / 2000	- / 1600	- / 710	4	K	SCO20004PSTD	38,000.00
- / 2500	- / 1600	- / 710	4	K	SCO25004PSTD	45,717.00

1

SCO (MB) Make-Before-Break Manual Transfer Switch

The robust SCO MB (SIRCOVER - MB) range are manually operated three or four pole switches with positive break indication that provide Make-Before-Break (I, I&II, II) changeover, source inversion or switching under load between two low-voltage power circuits, as well as their safety isolation.

The SCO MB incorporate three stable positions, high performance on load switching characteristics and an option for direct or external handles.



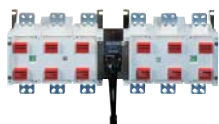
SCO1253PMB

SCO 3 Pole Make-Before-Break Changeover Kits with External Handle

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
125 / 125	125 / 125	58 / 58	3	K	SCO1253PMB	2,506.00
160 / 160	160 / 160	75 / 75	3	K	SCO1603PMB	2,703.00
200 / 200	200 / 200	100 / 100	3	K	SCO2003PMB	2,929.00
250 / 250	200 / 200	100 / 100	3	K	SCO2503PMB	3,037.00
400 / 400	400 / 400	190 / 190	3	K	SCO4003PMB	4,269.00
500 / 500	500 / 500	235 / 235	3	K	SCO5003PMB	5,433.00
630 / 630	500 / 630	235 / 280	3	K	SCO6303PMB	6,494.00
800 / 800	800 / 800	375 / 375	3	K	SCO8003PMB	8,146.00
1250 / 1250	1250 / 1250	560 / 560	3	K	SCO12503PMB	17,973.00
1600 / 1600	1250 / 1250	560 / 560	3	K	SCO16003PMB	20,593.00

VCO Visual Manual Transfer Switch

VCO visible contact changeover switches offer fully visible breaking in a compact and effective design. The VCO range features positive circuit indication, two stable contact positions and double-break contacts for reliable disconnection. The range extends from a compact 63A to a very capable 1600A model and are padlockable in all positions.



VCO12503P

VCO 3 Pole Kits with Direct Handle

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
63 / 63	63 / 63	30 / 30	3	K	VCO633P	958.00
80 / 80	63 / 63	30 / 30	3	K	VCO803P	1,216.00
100 / 100	63 / 63	30 / 30	3	K	VCO1003P	1,383.00
125 / 125	63 / 63	30 / 30	3	K	VCO1253P	1,460.00
200 / 200	200 / 200	100 / 100	3	K	VCO2003P	4,414.00
400 / 400	400 / 400	220 / 220	3	K	VCO4003P	6,887.00
630 / 630	630 / 630	355 / 355	3	K	VCO6303P	13,572.00
1250 / 1250	1000 / 1000	560 / 560	3	K	VCO12503P	25,065.00
1600 / 1600	1000 / 1000	560 / 560	3	K	VCO16003P	31,951.00



VCO634P

VCO 4 Pole Kits with Direct Handle

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
63 / 63	63 / 63	30 / 30	4	K	VCO634P	1,066.00
80 / 80	63 / 63	30 / 30	4	K	VCO804P	1,293.00
100 / 100	63 / 63	30 / 30	4	K	VCO1004P	1,506.00
125 / 125	63 / 63	30 / 30	4	K	VCO1254P	1,611.00
200 / 200	200 / 200	100 / 100	4	K	VCO2004P	5,448.00
630 / 630	630 / 630	355 / 355	4	K	VCO6304P	14,576.00
800 / 800	630 / 630	355 / 355	4	K	VCO8004P	14,818.00
1250 / 1250	1000 / 1000	560 / 560	4	K	VCO12504P	31,951.00
1600 / 1600	1000 / 1000	560 / 560	4	K	VCO16004P	34,451.00

BCO Bypass Manual Transfer Switch

BCO bypass changeover switches deliver an easy and effective UPS bypass solution. The switches feature a combination of interlocked switches with three stable circuit positions for on-load switching and full safety isolation on low-voltage circuits during maintenance applications, up to 1600A (AC21).

BCO 3 Pole Bypass Changeover Kits with External Handle

BCO1253PMB

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
125 / 125	125 / 125	60 / 60	3	K	BCO1253PMB	3,341.00
160 / 160	160 / 160	80 / 80	3	K	BCO1603PMB	4,082.00
200 / 200	160 / 160	80 / 80	3	K	BCO2003PMB	5,219.00
250 / 250	250 / 250	132 / 132	3	K	BCO2503PMB	6,025.00
400 / 400	250 / 250	132 / 132	3	K	BCO4003PMB	7,964.00
630 / 630	500 / 500	280 / 280	3	K	BCO6303PMB	13,240.00
800 / 800	800 / 800	280 / 280	3	K	BCO8003PMB	20,791.00
1250 / 1250	1250 / 1250	710 / 710	3	K	BCO12503PMB	41,547.00
1600 / 1600	1250 / 1250	710 / 710	3	K	BCO16003PMB	46,338.00

BCO 4 Pole Bypass Changeover Kits with External Handle

AC-21a / AC-21b (A @415V)	AC-23a / AC-23b (A @415V)	AC-23a / AC-23b (kW @415V)	Poles	Item Type	Catalogue No.	\$AU
125 / 125	125 / 125	60 / 60	4	K	BCO1254PMB	3,657.00
200 / 200	160 / 160	80 / 80	4	K	BCO2004PMB	5,538.00
250 / 250	250 / 250	132 / 132	4	K	BCO2504PMB	6,402.00
630 / 630	500 / 500	280 / 280	4	K	BCO6304PMB	13,998.00
800 / 800	800 / 800	280 / 280	4	K	BCO8004PMB	22,413.00
1250 / 1250	1250 / 1250	710 / 710	4	K	BCO12504PMB	44,656.00
1600 / 1600	1250 / 1250	710 / 710	4	K	BCO16004PMB	51,993.00



BCO1254PMB

Manual Transfer Switch Accessories

Essential accessories and spare parts are available to cover all your needs when it comes to Socomec manual transfer switches, from terminal shrouds and screens, bridging bars, auxiliary contacts and operating handles. For a complete range of direct mount handles and shafts to suit external handles, please see the Load Break and Main Switch section of the catalogue.

Manual Transfer Switch Auxiliary Contacts

To suit ATYS, SCO and BCO

Item Description	Item Type	Catalogue No.	\$AU
Auxiliary Contact, 1 C/O, For SCO 2000-3200A (1st Position)	I	44090021	194.00
Auxiliary Contact, 1 C/O, For SCO 125-1800A / BCO 125-1600A	I	41090021	202.00
Auxiliary Contact, 1 C/O, For SCO 2000-3200A (2nd Position)	I	44090022	202.00



44090021

To suit VCO

Item Description	Item Type	Catalogue No.	\$AU
Auxiliary Contact, 1C/O, Early Break, For VCO 63-125A		44090001	147.00
Auxiliary Contact, 1C/O, Early Break, For VCO 200A (1st position)	I	44090002	147.00
Auxiliary Contact, 1C/O, Early Break, For VCO 200-1600A (2nd Position)	I	44090003	147.00
Auxiliary Contact, 1C/O, Suits VCO 400A (1st Position)	I	VCOAX04	147.00
Auxiliary Contact, 1C/O, Early Break, For VCO 630-1600A (1st Position)	I	44390001	183.00



44090002

Manual Transfer Switch Bridging Bars

Manual transfer switch bridging bars can be utilised for bridging of power terminals on the top or bottom of a switch.

To suit ATYS, SCO and BCO (QTY 1 required per pole; i.e. 4 required for 4 pole switch)

Item Description	Item Type	Catalogue No.	\$AU
Bridging Bars, 1 Pole, Suits SCO / BCO / ATyS 125-160A		41090019	145.00
Bridging Bars, 1 Pole, Suits SCO / BCO / ATyS 250A		41090025	182.00
Bridging Bars, 1 Pole, Suits SCO / BCO / ATyS 400A		41090039	217.00
Bridging bars, 1 pole, suits SCO / BCO / ATYS 500A		41090050	235.00
Bridging Bars, 1 Pole, Suits SCO / BCO / ATyS 630A		41090063	274.00
Bridging Bars, 1 Pole, Suits SCO / BCO / ATyS 800A		41090080	439.00
Bridging Bars, 1 Pole, Suits SCO / BCO / ATyS 1250A		41090120	628.00
Bridging Bars, 1 Pole, Suits SCO / BCO / ATyS 1600A		41090160	769.00



41090019

To suit VCO (QTY 1 required per switch only)

Item Description	Item Type	Catalogue No.	\$AU
Bridging Bars, 3 Pole, Suits VCO 63-125A		44993006	439.00
Bridging Bars, 4 Pole, Suits VCO 63-125A		44994006	542.00



44993006

1

Manual Transfer Switch Handles

Direct Handles are black handles padlockable in OFF position as standard.

External Handles are suitable for use across the Socomec range of transfer switches and provide additional safety features including door interlocking (in the ON position), 3-way padlocking in the OFF position and models available for Make-Before-Break applications.

Direct Handles

44395012

Item Description	Item Type	Catalogue No.	\$AU
Direct Mount Handle, Black, Suits VCO 63-125A		44395012	148.00
Direct Mount Handle, Black, Suits SCO 125-630A / BCO 125-200A		41995012	202.00

External Handles, Make-Before-Break (I, I&II, II)

14433114

Item Description	Item Type	Catalogue No.	\$AU
External Mount Pistol Handle (S00), MBB [I, I&II, II], Black, Suits SCOM 20-80A		14731114	73.00
External Mount Pistol Handle (S2), MBB [I, I&II, II], Black, Suits SCO 125-630A / BCO 125-20A		14232114	345.00
External Mount Pistol Handle (S3), MBB [I, I&II, II], Black, Suits SCO 800-1600A / BCO 250-630A		14333114	647.00
External Mount T-handle (S4), MBB [I, I&II, II], Black, Suits BCO 800-1600A	I	14433114	738.00

External Handles, Standard Break-Before-Make (I, 0, II)

14232113

Item Description	Item Type	Catalogue No.	\$AU
External Mount Pistol Handle (S00), BBM [I, 0, II], Black, Suits SCOM 20-80A		14731113	70.00
External Mount Pistol Handle (S2), BBM [I, 0, II], Black, Suits SCO 125-630A		14232113	337.00
External Mount Pistol Handle (S1), BBM [I, 0, II], Black, 3-Position Locking Suits VCO 63-125A		14132813	344.00
External Mount Pistol Handle (S1), BBM [I, 0, II], Black, Suits VCO 63-125A		14132113	345.00
External Mount Pistol Handle (S3), BBM [I, 0, II], Black, Suits SCO 800-1600A / VCO 200-1600A		14333113	647.00

Manual Transfer Switch Terminal Screens

The following insulated terminal screens suit all SCO/BCO/ATyS series of transfer switches (one screen required per switch).

To suit 3P

15093012

Mounting	Item Description	Item Type	Catalogue No.	\$AU
Top / Bottom	Terminal Screen 3 Pole Suits ATyS 125-160A		15093012	305.00
Top / Bottom	Terminal Screen 3 Pole Suits ATyS 250-400A		15093025	327.00
Top / Bottom	Terminal Screen 3 Pole Suits ATyS 630A	I	15093063	631.00
Top / Bottom	Terminal Screen 3 Pole Suits ATyS 800-1250A/SCO 800-1250A		15093080	723.00
Top / Bottom	Terminal Screen 3 Pole Suits ATyS/SCO 1600A	I	15093160	1,077.00

To suit 4P

15094012

Mounting	Item Description	Item Type	Catalogue No.	\$AU
Top / Bottom	Terminal Screen 4 Pole Suits ATyS 125-160A		15094012	342.00
Top / Bottom	Terminal Screen 4 Pole Suits ATyS 250-400A		15094025	360.00
Top / Bottom	Terminal Screen 4 Pole Suits ATyS 630A		15094063	692.00
Top / Bottom	Terminal Screen 4 Pole Suits ATyS 800-1250A/SCO 800-1250A		15094080	772.00
Top / Bottom	Terminal Screen 4 Pole Suits ATyS/SCO 1600A	I	15094160	1,140.00

Manual Transfer Switch Terminal Shrouds

One terminal shroud or screen required per line and load side.

To suit VCO

44283020

Mounting	Item Description	Item Type	Catalogue No.	\$AU
Top / Bottom	Terminal Shroud 3 Pole Suits VCO 200A	I	44283020	129.00
Top / Bottom	Terminal Shroud 3 Pole Suits VCO 400A	I	44283050	147.00
Top / Bottom	Terminal Shroud 4 Pole Suits VCO 200A	I	44284020	147.00
Top / Bottom	Terminal Shroud 4 Pole Suits VCO 400A	I	4428 4050	166.00

Transfer Switches

Socomec Automatic Transfer Switches

- Plug and play solution
- Integrated auto-configuration
- Quick installation
- Manual emergency control
- Continuous information on product availability
- Robust products
- High levels of performance

The Socomec ATyS M and ATyS range of single-phase and three-phase modular motorised changeover switches with positive break indication. They enable on-load changeover switching of two supply sources in remote control, automatic or manual mode. They are intended for use in low-voltage power systems where interruption of the load supply is acceptable during transfer.

ATyS M (Modular) Series

The ATyS M range of compact motorised changeover switches comprise of single-phase and three-phase models from 40 to 160A, built to the AS/NZ 60947.6.1 Featuring solenoid operation to ensure fast switching operation, the transfer switches are also mechanically and electrically interlocked to ensure safe operation.

ATyS d M

The ATyS d M is a non-auto changeover switch made up of two power switches that are mechanically and electrically interlocked to ensure safe changeover operation. The ATyS d M is driven by a volt free contact allowing switching operation between I, O, II from external control logic that can be provided via an additional C30 or C40 controller.

An integrated dual power supply is also featured providing full security of the 3 position commands with the availability of either supply.



1-Phase 2 Pole

AC-21a (A@415V)	AC-23a (A@415V)	Item Description	Item Type	Catalogue No.	\$AU
40	40	Transfer switch ATyS d M 2P 40A, no logic	I	93232004	2,123.00
63	63	Transfer switch ATyS d M 2P 63A, no logic	I	93232006	2,658.00
80	80	Transfer switch ATyS d M 2P 80A, no logic	I	93232008	2,835.00
100	100	Transfer switch ATyS d M 2P 100A, no logic	I	93232010	3,081.00
125	125	Transfer switch ATyS d M 2P 125A, no logic	I	93232012	3,222.00
160	125	Transfer switch ATyS d M 2P 160A, no logic	I	93232016	3,898.00



93232004

3-Phase 4 Pole

AC-21a (A@415V)	AC-23a (A@415V)	Item Description	Item Type	Catalogue No.	\$AU
63	63	Transfer switch ATyS d M 4P 63A, no logic		93234006	4,174.00
80	80	Transfer switch ATyS d M 4P 80A, no logic	I	93234008	4,922.00
100	100	Transfer switch ATyS d M 4P 100A, no logic		93234010	5,670.00
125	125	Transfer switch ATyS d M 4P 125A, no logic	I	93234012	6,389.00
160	125	Transfer switch ATyS d M 4P 160A, no logic		93234016	7,122.00



93234006

Accessories for ATyS d M



The following options can be added to the switch



Bridging bars



Power supply tap



Terminal shrouds



Auxiliary contact block

ATyS d M	Bridging bars	Power supply tap	Terminal shrouds	Auxiliary contact block
9323 2004	1309 2006	2 pieces 1399 4006	2 pieces 2294 4016 ¹⁾	1st A/C block included 2nd A/C block Separate common points 1309 0001 ²⁾ Linked common points 1309 0011 ²⁾
9323 4004	1309 4006			
9323 2006	1309 2006			
9323 4006	1309 4006			
9323 2008	1309 2006			
9323 4008	1309 4006			
9323 2010	1309 2006			
9323 4010	1309 4006			
9323 2012	1309 2006			
9323 4012	1309 4006			
9323 2016	1309 2016			
9323 4016	1309 4016			

Notes:

1) For the single-phase version (2P) please order one set of the terminal shrouds.

For the three-phase version (4P), for upstream and downstream protection, please order two sets of the terminal shrouds.

2) 1 NO/NC contact block for positions I, O and II.

B3401D01.01_ATyS d M_dCHRT-S01

1

ATyS g M

The ATyS g M with integrated control and auto changeover features user friendly dials and dip switches for setting circuit sensing parameters for both single- and three-phase applications.

ATyS g M 2 Pole

93532004

AC-21a (A@415V)	Item Description	Item Type	Catalogue No.	\$AU
40	Auto transfer switch ATyS g M 2P 40A, simple logic	I	93532004	3,675.00
63	Auto transfer switch ATyS g M 2P 63A, simple logic	I	93532006	4,298.00
80	Auto transfer switch ATyS g M 2P 80A, simple logic	I	93532008	4,487.00
100	Auto transfer switch ATyS g M 2P 100A, simple logic	I	93532010	4,712.00
125	Auto transfer switch ATyS g M 2P 125A, simple logic	I	93532012	4,863.00
160	Auto transfer switch ATyS g M 2P 160A, simple logic	I	93532016	5,511.00

ATyS g M 4 Pole

93544006

AC-21a (A@415V)	Item Description	Item Type	Catalogue No.	\$AU
63	Auto transfer switch ATyS g M 4P 63A, simple logic		93544006	5,389.00
80	Auto transfer switch ATyS g M 4P 80A, simple logic		93544008	6,184.00
100	Auto transfer switch ATyS g M 4P 100A, simple logic		93544010	6,856.00
125	Auto transfer switch ATyS g M 4P 125A, simple logic		93544012	7,607.00
160	Auto transfer switch ATyS g M 4P 160A, simple logic		93544016	8,356.00

Accessories for ATyS g M

The following options can be added to the switch

**Bridging bars****Terminal shrouds****Power supply tap****Auxilliary contact block**

ATyS g M	Bridging bars	Power supply tap	Terminal shrouds	Auxilliary contact block
9353 2004	1309 2006	2 pieces 1399 4006	2 pieces 2294 4016 ¹⁾	1 piece Separate common points 1309 0001 ²⁾ Linked common points 1309 0011 ²⁾
9354 4004	1309 4006			
9353 2006	1309 2006			
9354 4006	1309 4006			
9353 2008	1309 2006			
9354 4008	1309 4006			
9353 2010	1309 2006			
9354 4010	1309 4006			
9353 2012	1309 2006			
9354 4012	1309 4006			
9353 2016	1309 2016	2 pieces 1399 4006	2 pieces 2294 4016 ¹⁾	1 piece Separate common points 1309 0001 ²⁾ Linked common points 1309 0011 ²⁾
9354 4016	1309 4016			

Notes:

1) For the single-phase version (2P) please order one set of the terminal shrouds.

For the three-phase version (4P), for upstream and downstream protection, please order two sets of the terminal shrouds.

2) 1 NO/NC contact block for positions I, 0 and II.

B3401D01.02_ATyS g M_dCHRT-S01

ATyS p M

The ATyS p M with integrated control and auto transfer contains an LCD display method of circuit status indication and setting adjustments for three-phase applications. It can display frequency, voltage, amperes, phase loss, phase sequence, PF and is also available with communications and a remote operations panel for status indication and programming.

AC-21a / AC-23a (A @415V)	Item Description	Item Type	Catalogue No.	\$AU
63 / 63	Auto transfer switch ATyS p M 4P 63A, advanced logic		93644006	8,591.00
80 / 80	Auto transfer switch ATyS p M 4P 80A, advanced logic		93644008	9,355.00
100 / 100	Auto transfer switch ATyS p M 4P 100A, advanced logic		93644010	10,075.00
125 / 125	Auto transfer switch ATyS p M 4P 125A, advanced logic		93644012	10,857.00
160 / 125	Auto transfer switch ATyS p M 4P 160A, advanced logic		93644016	11,540.00



93644006

Accessories for ATyS p M



The following options can be added to the switch



Bridging bars



Terminal shrouds



Power supply tap



Auxiliary contact block

ATyS p M	Bridging bars	Power supply tap	Terminal shrouds	Auxiliary contact block
9364 4004	1309 4006	2 pieces 1399 4006	2 pieces 2294 4016 ¹⁾	1 piece
9364 4006	1309 4006			Separate common points 1309 0001 ²⁾
9364 4008	1309 4006			Linked common points 1309 0011 ²⁾
9364 4010	1309 4006			
9364 4012	1309 4006			
9364 4016	1309 4016			

Notes:

1) For the single-phase version (2P) please order one set of the terminal shrouds.

For the three-phase version (4P), for upstream and downstream protection, please order two sets of the terminal shrouds.

2) 1 NO/NC contact block for positions I, 0 and II.

ATyS p M + Com

The ATyS p M with integrated control and auto transfer contains an LCD display method of circuit status indication and setting adjustments for three-phase applications. It can display frequency, voltage, amperes, phase loss, phase sequence, PF and is also available with communications and a remote operations panel for status indication and programming.

AC-21a / AC-23a (A @415V)	Item Description	Item Type	Catalogue No.	\$AU
40 / 40	ATyS P M + Com 4P 40A 230/400V	I	93844004	6,776.00
63 / 63	ATyS P M + Com 4P 63A 230/400V	I	93844006	8,966.00
80 / 80	ATyS P M + Com 4P 80A 230/400V	I	93844008	9,828.00
100 / 100	ATyS P M + Com 4P 100A 230/400V	I	93844010	10,893.00
125 / 125	ATyS P M + Com 4P 125A 230/400V	I	93844012	11,769.00
160 / 160	ATyS P M + Com 4P 160A 230/400V	I	93844016	12,492.00



93844016

Accessories for ATyS p M + COM



The following options can be added to the switch



Bridging bars



Terminal shrouds



Power supply tap



Auxiliary contact block

ATyS p M + COM	Bridging bars	Power supply tap	Terminal shrouds	Auxiliary contact block
9384 4004	1309 4006	2 pieces 1399 4006	2 pieces 2294 4016 ¹⁾	1 piece
9384 4006	1309 4006			Separate common points 1309 0001 ²⁾
9384 4008	1309 4006			Linked common points 1309 0011 ²⁾
9384 4010	1309 4006			
9384 4012	1309 4006			
9384 4016	1309 4016			

Notes:

1) For the single-phase version (2P) please order one set of the terminal shrouds.

For the three-phase version (4P), for upstream and downstream protection, please order two sets of the terminal shrouds.

2) 1 NO/NC contact block for positions I, 0 and II.

ATyS Series

The ATyS range of robust motorised changeover switches comprise of models from 125 to 3200A built to AS/NZ 60947.6.1 that feature on-load transfer capability from Mains-Mains, Mains-Gen or Gen-Gen applications. Together with quick and simple installation, interlocking and padlocking functions, the ATyS range ensure the highest level of reliability and safety for supplying your electrical loads.

ATyS r

The ATyS r motorised changeover switches enable transfer between I, O, II on three-phase supplies via volt free contacts from an external controller, using pulse logic or a switch. Compatible with external control logic controllers C30 or C40 to provide reliable load transfer between any incoming source.

3 Pole

95233012

AC-21a (A@415V)	AC-23a (A@415V)	AC-21b (A@415V)	AC-23b (A@415V)	Item Type	Catalogue No.	\$AU
125	125	125	125	I	95233012	7,577.00
160	160	160	160	I	95233016	9,152.00
200	200	200	200	I	95233020	9,231.00
250	200	250	200	I	95233025	10,792.00
315	315	315	315	I	95233031	11,947.00
400	400	400	400	I	95233040	14,303.00
500	500	500	500	I	95233050	15,693.00
630	630	630	630	I	95233063	15,833.00
800	800	800	800	I	95233080	20,737.00
1000	1000	1000	1000	I	95233100	25,089.00
1250	1250	1250	1250	I	95233120	32,975.00
1600	1250	1600	1250	I	95233160	39,500.00
		2000	1600	I	95233200	51,692.00
		2500	1600	I	95233250	58,497.00
		3200	1600	I	95233320	65,787.00

4 Pole

95234012

AC-21a (A@415V)	AC-23a (A@415V)	AC-21b (A@415V)	AC-23b (A@415V)	Item Type	Catalogue No.	\$AU
125	125	125	125	I	95234012	8,075.00
160	160	160	160	I	95234016	9,731.00
200	200	200	200	I	95234020	9,794.00
250	200	250	200	I	95234025	11,887.00
315	315	315	315	I	95234031	12,649.00
400	400	400	400	I	95234040	15,382.00
500	500	500	500	I	95234050	16,551.00
630	630	630	630	I	95234063	16,896.00
800	800	800	800	I	95234080	21,828.00
1000	1000	1000	1000	I	95234100	30,617.00
1250	1250	1250	1250	I	95234120	35,114.00
1600	1250	1600	1250	I	95234160	46,444.00
-	-	2000	1600	I	95234200	57,561.00
-	-	2500	1600	I	95234250	64,133.00
-	-	3200	1600	I	95234320	73,452.00

Accessories for ATyS r



The following options can be added to the switch



Bridging bars



Terminal screens



Terminal shrouds



Auxiliary contact block

ATyS r	Bridging bars	Terminal shrouds	Terminal screens	Auxilliary contact	Dual power supply
9523 3012	4109 0019 ¹⁾	3P 2694 3014 ²⁾ 4P 2694 4014 ²⁾	3P 1509 3012 4P 1509 4012	1599 0002 ⁴⁾	1599 4001 ⁵⁾
9523 4012					
9523 3016					
9523 4016					
9523 3020					
9523 4020					
9523 3025	4109 0025 ¹⁾	3P 2694 3021 ²⁾ 4P 2694 4021 ²⁾	3P 1509 3025 4P 1509 4025		
9523 4025	4109 0039 ¹⁾				
9523 3031					
9523 4031					
9523 3040					
9523 4040					
9523 3050	4109 0050 ¹⁾	3P 2694 3051 ²⁾ 4P 2694 4051 ²⁾	3P 1509 3063 ³⁾ 4P 1509 4063 ³⁾		
9523 4050	4109 0063 ¹⁾				
9523 3063					
9523 4063					
9523 3080	4109 0080 ¹⁾		3P 1509 3080 ³⁾ 4P 1509 4080 ³⁾		
9523 4080					
9523 3100					
9523 4100					
9523 3120	4109 0120 ¹⁾				
9523 4120					
9523 3160	4109 0160 ¹⁾		3P 1509 3160 ³⁾ 4P 1509 4160 ³⁾		
9523 4160					
9523 3200	Contact NHP for connection kits		3P 1509 3200 ³⁾ 4P 1509 4200 ³⁾	Included	
9523 4200					
9523 3250					
9523 4250					
9523 3320					
9523 4320					

B3401D02.01_ATyS r_dCHRT-S01

Notes:

1) Catalogue number represents 1 bar only. Order 3 bars for 3 pole and 4 bars for 4 pole.

2) Catalogue number represents a quantity of 1. To fully cover all terminals (front, rear, top and bottom), a quantity of 4 is required.

3) Catalogue number represents a set of two to cover top and bottom.

4) Factory mounting only.

5) Allows two power supplies to be connected to the ATyS r.

1

ATyS p

The ATyS p is a range of 125 to 3200A three-phase automatic changeover switches with positive break indication. The range incorporates all the functions offered by a transfer switch, as well as energy management, recording of events and communications including web server via simple plug-in modules. Measurements, status indication and programming are achieved via an integrated keypad and LCD display.

3 Pole

95733012

AC-31b (A@415V)	Item Description	Item Type	Catalogue No.	\$AU
125	ATyS P 125A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95733012	11,479.00
160	ATyS P 160A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95733016	13,133.00
200	ATyS P 200A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95733020	14,522.00
250	ATyS P 250A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95733025	14,959.00
315	ATyS P 315A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95733031	17,098.00
400	ATyS P 400A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95733040	18,768.00
500	ATyS P 500A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95733050	22,031.00
630	ATyS P 630A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95733063	25,138.00
800	ATyS P 800A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95733080	32,303.00
1000	ATyS P 1000A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95733100	33,037.00
1250	ATyS P 1250A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95733120	37,312.00
1600	ATyS P 1600A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95733160	45,930.00
2000	ATyS P 2000A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95733200	56,171.00
2500	ATyS P 2500A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95733250	63,899.00
3200	ATyS P 3200A 3 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95733320	70,268.00

4 Pole

95734012

AC-31b (A@415V)	Item Description	Item Type	Catalogue No.	\$AU
125	ATyS P 125A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95734012	11,712.00
160	ATyS P 160A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95734016	13,524.00
200	ATyS P 200A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95734020	14,959.00
250	ATyS P 250A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95734025	15,427.00
315	ATyS P 315A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95734031	17,927.00
400	ATyS P 400A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95734040	19,362.00
500	ATyS P 500A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95734050	24,453.00
630	ATyS P 630A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95734063	26,074.00
800	ATyS P 800A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95734080	33,506.00
1000	ATyS P 1000A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms		95734100	34,708.00
1250	ATyS P 1250A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95734120	39,233.00
1600	ATyS P 1600A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95734160	51,911.00
2000	ATyS P 2000A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95734200	62,760.00
2500	ATyS P 2500A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95734250	68,067.00
3200	ATyS P 3200A 4 pole basic transfer switch - integrated transfer logic, LCD display with energy/power metering, comms	I	95734320	78,447.00

Accessories for ATyS p

The following options can be added to the switch



Bridging bars

Terminal screens

Terminal shrouds

Auxilliary contact block

ATyS p	Bridging bars	Voltage sensing and power supply tap	Terminal shrouds	Terminal screens	Auxilliary contact	Optional modules
9573 3012	4109 0019 ¹⁾	3P 1559 3012 4P 1559 4012 ²⁾	3P 2694 3014 ³⁾ 4P 2694 4014 ³⁾	3P 1509 3012 4P 1509 4012	1599 0002 ⁵⁾	RS485 MODBUS communication 4825 0092 2 inputs /2 outputs 1599 2001 Ethernet communication 4825 0203 Ethernet communication + RS485 MODBUS gateway 4825 0204 Analogue outputs 4825 0093 Pulse outputs 4825 0090
9573 4012						
9573 3016						
9573 4016						
9573 3020						
9573 4020						
9573 3025	4109 0025 ¹⁾	3P 1559 3025 4P 1559 4025 ²⁾	3P 2694 3021 ³⁾ 4P 2694 4021 ³⁾	3P 1509 3025 4P 1509 4025		
9573 4025						
9573 3031	4109 0039 ¹⁾	3P 1559 3040 4P 1559 4040 ²⁾	3P 2694 3021 ³⁾ 4P 2694 4021 ³⁾	3P 1509 3025 4P 1509 4025		
9573 4031						
9573 3040						
9573 4040						
9573 3050	4109 0050 ¹⁾	3P 1559 3063 4P 1559 4063 ²⁾	3P 2694 3051 ³⁾ 4P 2694 4051 ³⁾	3P 1509 3063 ⁴⁾ 4P 1509 4063 ⁴⁾		
9573 4050						
9573 3063	4109 0063 ¹⁾					
9573 4063						
9573 3080	4109 0080 ¹⁾	3P 1559 3080 4P 1559 4080 ²⁾	-	3P 1509 3080 ⁴⁾ 4P 1509 4080 ⁴⁾		
9573 4080						
9573 3100						
9573 4100						
9573 3120	4109 0120 ¹⁾	3P 1559 3120 4P 1559 4120 ²⁾	-	3P 1509 3080 ⁴⁾ 4P 1509 4080 ⁴⁾		
9573 4120						
9573 3160	4109 0160 ¹⁾	3P 1559 3160 4P 1559 4160 ²⁾	-	3P 1509 3160 ⁴⁾ 4P 1509 4160 ⁴⁾		
9573 4160						
9573 3200	Contact NHP for connection kits	3P 1559 3200 4P 1559 4200 ²⁾	-	3P 1509 3200 ⁴⁾ 4P 1509 4200 ⁴⁾	Included	
9573 4200						
9573 3250						
9573 4250						
9573 3320						
9573 4320						

B3401D02.02_ATyS p_dCHRT-S01

Notes:

- 1) Catalogue number represents 1 bar only. Order 3 bars for 3 pole and 4 bars for 4 pole.
- 2) Neutral on the right.
- 3) Part number represents quantity 1. To fully cover all terminals (front, rear, top and bottom), quantity 4 is required.
- 4) Part number represents a set of two to cover top and bottom.
- 5) Factory mounting only.

1

ATyS g

3 Pole

AC-31b (A@415V)	Item Description	Item Type	Catalogue No.	\$AU
125	Transfer Switch ATyS G 3P 125A	I	95533012	10,605.00
160	Transfer Switch ATyS G 3P 160A	I	95533016	12,133.00
250	Transfer Switch ATyS G 3P 250A	I	95533025	13,822.00
200	Transfer Switch ATyS G 3P 200A	I	95533020	14,085.00
315	Transfer Switch ATyS G 3P 315A	I	95533031	16,583.00
400	Transfer Switch ATyS G 3P 400A	I	95533040	17,349.00
500	Transfer Switch ATyS G 3P 500A	I	95533050	21,376.00
630	Transfer Switch ATyS G 3P 630A	I	95533063	23,219.00
800	Transfer Switch ATyS G 3P 800A	I	95533080	29,837.00
1000	Transfer Switch ATyS G 3P 1000A	I	95533100	30,524.00
1250	Transfer Switch ATyS G 3P 1250A	I	95533120	34,473.00
1600	Transfer Switch ATyS G 3P 1600A	I	95533160	42,435.00
2000	Transfer Switch ATyS G 3P 2000A	I	95533200	51,894.00
2500	Transfer Switch ATyS G 3P 2500A	I	95533250	56,343.00
3200	Transfer Switch ATyS G 3P 3200A	I	95533320	64,914.00

4 Pole

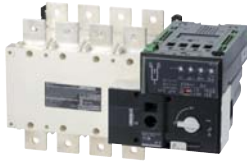


95534012

AC-31b (A@415V)	Item Description	Item Type	Catalogue No.	\$AU
125	Transfer Switch ATyS G 4P 125A	I	95534012	10,822.00
160	Transfer Switch ATyS G 4P 160A	I	95534016	12,492.00
250	Transfer Switch ATyS G 4P 250A	I	95534025	14,257.00
200	Transfer Switch ATyS G 4P 200A	I	95534020	14,522.00
315	Transfer Switch ATyS G 4P 315A	I	95534031	17,381.00
400	Transfer Switch ATyS G 4P 400A	I	95534040	17,895.00
500	Transfer Switch ATyS G 4P 500A	I	95534050	23,717.00
630	Transfer Switch ATyS G 4P 630A	I	95534063	24,076.00
800	Transfer Switch ATyS G 4P 800A	I	95534080	30,960.00
1000	Transfer Switch ATyS G 4P 1000A	I	95534100	32,054.00
1250	Transfer Switch ATyS G 4P 1250A	I	95534120	36,237.00
1600	Transfer Switch ATyS G 4P 1600A	I	95534160	47,962.00
2000	Transfer Switch ATyS G 4P 2000A	I	95534200	57,981.00
2500	Transfer Switch ATyS G 4P 2500A	I	95534250	62,868.00
3200	Transfer Switch ATyS G 4P 3200A	I	95534320	72,468.00

Accessories for ATyS g

The following options can be added to the switch



Bridging bars

Terminal screens

Terminal shrouds

Auxilliary contact block

ATyS g	Bridging bars	Voltage sensing and power supply tap	Terminal shrouds	Terminal screens	Auxilliary contact
9553 3012	4109 0019 ¹⁾	3P	3P 2694 3014 ³⁾ 4P 2694 4014 ³⁾	3P	1599 0002 ⁵⁾
9553 4012		1559 3012		1509 3012	
9553 3016		4P		4P	
9553 4016		1559 4012 ²⁾		1509 4012	
9553 3020					
9553 4020					
9553 3025	4109 0025 ¹⁾	3P	3P 2694 3021 ³⁾ 4P 2694 4021 ³⁾	3P	
9553 4025		1559 3025		1509 3025	
9553 3031	4109 0039 ¹⁾	4P		4P	
9553 4031		1559 4025 ²⁾		1509 4025	
9553 3040		3P			
9553 4040		1559 3040			
9553 3050	4109 0050 ¹⁾	4P	3P 2694 3051 ³⁾ 4P 2694 4051 ³⁾	3P	
9553 4050		1559 4063 ²⁾		1509 4063 ⁴⁾	
9553 3063	4109 0063 ¹⁾			4P	
9553 4063				1509 4063 ⁴⁾	
9553 3080	4109 0080 ¹⁾	3P			1599 0032 ⁵⁾
9553 4080		1559 3080		3P	
9553 3100		4P		1509 3080 ⁴⁾	
9553 4100		1559 4080 ²⁾		4P	
9553 3120	4109 0120	3P		1509 4080 ⁴⁾	
9553 4120		1559 3120			
9553 3160	4109 0160 ¹⁾	4P		3P	
9553 4160		1559 4120 ²⁾		1509 3160 ⁴⁾	
9553 3200				4P	
9553 4200	Contact NHP for connection kits	3P		1509 4160 ⁴⁾	
9553 3250		1559 3200		3P	Included
9553 4250		4P		1509 3200 ⁴⁾	
9553 3320		1559 4200 ²⁾		4P	
9553 4320				1509 4200 ⁴⁾	

B3401D02.03_ATyS g_dCHRT-S01

Notes:

- 1) Catalogue number represents 1 bar only. Order 3 bars for 3-pole and 4 bars for 4 pole.
- 2) Neutral on the right.
- 3) Part number represents quantity 1. To fully cover all terminals (front, rear, top and bottom), quantity 4 is required.
- 4) Part number represents a set of two to cover top and bottom.
- 5) Factory mounting only.

ATyS Controllers C30/C40/C55/C65

ATyS C30/C40/C55/C65 are modular control relays. They ensure the automatic control of remotely controlled transfer switches, ATyS, ATyS S and ATyS M, as well as contactors, circuit breakers or other motorised switches.

- **Auxiliary power supply** - Two versions of the ATyS C30 are available; one version with an AC supply via the measurement inputs and another with a DC auxiliary supply
- **Modular device** - ATyS C30 and C40 are modular products (6 modules, 105mm wide) which can be DIN rail mounted
- **Extended compatibility of use** - Suitable for use with Socomec transfer switches, contactors and circuit breaker technologies

1

ATyS C55

- A comprehensive automatic transfer switch controller that can be used to remote control transfer switching equipment ie contactors, circuit breakers or motorised switches.
- Self-powered from sensing.
- Wide voltage range (88-576VAC).
- 24 VDC aux power supply (for optional use).
- 2 latching relays.
- Smart commissioning wizard.
- IP65 degree of protection with gasket (accessory).
- 1000 Alarms and Events.
- 6 fully configurable I/O.
- Genset scheduler.
- Door or back plate mounting.
- Main/Main, Main/Genset and Genset/Genset applications.
- Easyconfig configuration software.
- RS485 Modbus communication.
- Ethernet, SNMP. Includes Webserver.



16000055

Item Description	Item Type	Catalogue No.	\$AU
ATyS C55 Controller Including Mounting Kits		16000055	3,490.00
ATyS C55 Controller, Mounting Kits & Interface Panel		ATYSC55CIP	4,426.00
ATyS C55 Controller, Mounting Kits & Interface Panel	A	ATYSC55CIPACB	4,426.00

ATyS C65

- A complete automatic transfer switch controller that can be used to remote control transfer switching equipment ie contactors, circuit breakers or motorised switches.
- Front face LEDs, Load shedding, Genset schedulers and the lift control signal are just a few of the many customisable features available on ATyS C65.
- Self-powered from sensing.
- Wide voltage range (88 - 576 VAC).
- 24 VDC aux power supply (for optional use).
- 2 latching relays.
- Power & Energy metering with /1A or /5A current transformers.
- Energy backup.
- IP65 degree of protection (panel gasket included).
- 3000 Alarms and Events.
- 6 fully configurable I/O.
- Multiple fully configurable timers, thresholds and I/O.
- Easyconfig configuration software.
- Shock resistant IK08+.
- Ethernet, SNMP. Includes Webserver



16000065

Item Description	Item Type	Catalogue No.	\$AU
ATyS C65 Controller Including Mounting Kits and IP65 Gasket	I	16000065	6,307.00

ATyS M and ATyS Accessories

Essential accessories and spare parts are available to cover all your needs when it comes to the ATyS M (modular) and ATyS ranges. From terminal shrouds, bridging bars, voltage sensing kits, auxiliary contacts, dual power supplies to remote interfaces and plug-in communication modules the ATyS M and ATyS has you covered.

ATyS M Specific Accessories**Bridging Bars**

13092006

Item Description	Item Type	Catalogue No.	\$AU
Bridging Bar 2 Pole Suits ATyS M 40-125A		13092006	294.00
Bridging Bar Suits ATyS M 4 Pole 63-125A (1 pc Per ATyS M)		13094006	349.00
Bridging Bar 2 Pole Suits ATyS M 160A	I	13092016	418.00
Bridging Bar Suits ATyS M 4 Pole 160A (1 pc Per ATyS M)		13094016	486.00

General Accessories

Item Description	Item Type	Catalogue No.	\$AU
Voltage Tap Terminal for Voltage Sensing Suits ATyS M 63-160A		13994006	130.00
ATyS M 4 Pole 63-160A 4 Pole and Visual Load Break Switch 100-160A 4 Pole Terminal Cover (4 pcs To Cover All Terminals ATyS M Models)		22944016	183.00



22944016

ATyS Specific Accessories

ATyS S Accessories

Item Description	Item Type	Catalogue No.	\$AU
ATyS S Voltage Tapping Kit	I	95994001	538.00

Auxiliary Contacts - Factory fit

Item Description	Item Type	Catalogue No.	\$AU
Auxiliary Switch Changeover Contact For Positions I,II Suits 3 Pole and 4 Pole ATyS Range 125-630A		15990502	366.00
Auxiliary Contact 1 C/O Suits ATyS 800-1600A Factory Fit	I	15990032	700.00



15990502

Voltage Sensing Kits

Item Description	Item Type	Catalogue No.	\$AU
Wiring Loom For Voltage Sensing on ATyS Logic Module - 3P ATyS g/p 125/160/200 AF		15593012	729.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 4P ATyS g/p 125/160/200 AF		15594012	779.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 3P ATyS g/p 250/315 AF		15593025	870.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 4P ATyS g/p 250/315 AF		15594025	914.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 3P ATyS g/p 400 AF		15593040	932.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 4P ATyS g/p 400 AF		15594040	1,008.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 3P ATyS g/p 630 AF		15593063	1,042.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 4P ATyS g/p 630 AF		15594063	1,124.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 3P ATyS g/p 800/1000 AF		15593080	1,317.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 3P ATyS g/p 1250 AF	I	15593120	1,333.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 3P ATyS g/p 1600 AF		15593160	1,362.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 4P ATyS g/p 800/1000 AF		15594080	1,424.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 4P ATyS g/p 1250 AF	I	15594120	1,440.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 3P ATyS g/p 2000/2500/3200 AF	I	15593200	1,457.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 4P ATyS g/p 1600 AF	I	15594160	1,457.00
Wiring Loom For Voltage Sensing on ATyS Logic Module - 4P ATyS g/p 2000/2500/3200 AF	I	15594200	1,816.00



15593012

Remote Displays and Power Supply

Item Description	Item Type	Catalogue No.	\$AU
RJ45 Link Cable Between ATyS p M / ATyS d/g/p and D10/D20 Remote Display (3m)		15992009	68.00
Input - 2 X 230V AC Supplies, Output - A single 230V AC Supply - Use with ATyS d M	I	15994001	1,008.00
Remote Display D10 Suits ATyS p M / ATyS g		95992010	1,153.00
Remote Display D20 Suits ATyS p M / ATyS p		95992020	1,836.00



95992010

Plug-in Modules

Item Description	Item Type	Catalogue No.	\$AU
Plug-in RS485 Modbus Communications module for ATyS P		48250092	521.00
Plug-in 2-input / 2-output I/O module for ATyS P		48250094	607.00
ATyS P Electronic Module		95792001	7,414.00



48250092

1



15090001

General Accessories

Item Description	Item Type	Catalogue No.	\$AU
IP65 Cover Suits ATyS D10/D20 Interface	I	48250089	258.00
Door Surround Seal Suits ATYS 800-3200A	I	15290080	345.00
Door Surround Seal Suits ATyS P 125-630A	I	15390012	364.00
Insulated Mounting Spacers 10mm ATyS 125-630A (Set Of 2)	I	15090001	548.00

ATyS 3 position padlocking - Factory fit



95990003

Item Description	Item Type	Catalogue No.	\$AU
ATYS 3 Position Padlock To Suit 125-630A	I	95990003	1,083.00

Motor Modules



95095040

Item Description	Item Type	Catalogue No.	\$AU
ATyS Motor Module 125-200A 230V AC	I	95095020	3,377.00
ATyS Motor Module 250-400A 230V AC	I	95095040	5,337.00
ATyS Motor Module 500-630A 230V AC	I	95095063	7,037.00
ATyS Motor Module 800-1250A 230V AC	I	95095120	11,136.00
ATyS Motor Module 1600A 230V AC	I	95095160	12,358.00
ATyS Motor Module 2000-3200A 230V AC	I	95095320	15,718.00

Enclosed ATyS M/ ATyS/ ATyS p

The enclosed ATyS M and ATyS range are pre-wired with integrated mechanical and electrical interlocking, housed in powder coated mild steel enclosures with IP 66 ratings, the solution is durable enough to handle the majority of indoor and outdoor conditions. Designed for easy connection and installation, ideal for temporary connections, basic installations and farming requirements from 63 to 400 A models as standard.

Enclosed ATyS 4 pole

Enclosed 160 to 400 A three-phase ATyS remote transfer switch without control logic housed in a powder coated mild steel IP 66 enclosure.

Item Description	Item Type	Catalogue No.	\$AU
Transfer Switch Mild Steel Enclosure, No Logic ATYS 4P 160A	A	ENCATYS160	14,493.00
Transfer Switch Mild Steel Enclosure, No Logic ATYS 4P 250A	A	ENCATYS250	16,903.00
Transfer Switch Mild Steel Enclosure, No Logic ATYS 4P 400A	A	ENCATYS400	21,236.00

Enclosed ATyS p 4 pole

Enclosed 160 to 400 A three-phase ATyS p auto transfer switch with integrated advanced control logic via LCD display with energy management and data logging housed in a powder coated mild steel IP 66 enclosure.

Item Description	Item Type	Catalogue No.	\$AU
Auto Transfer Switch Mild Steel Enclosure, ATYS P 4P 160A	A	ENCATYSP160	18,319.00
Auto Transfer Switch Mild Steel Enclosure, ATYS P 4P 250A	A	ENCATYSP250	20,639.00
Auto Transfer Switch Mild Steel Enclosure, ATYS P 4P 400A	A	ENCATYSP400	25,587.00

Transfer Switches

Terasaki MCCB Transfer Switches

- Transfer Switches from 12A to 3200A are open transition types used for supply transfer during power failure
- Types include manual and automatic transfer switches offering flexibility for essential and non-essential supply
- Automatic changeover controller types; electronic with a programmable display and comms or simple relay / timer logic
- Assembly options include common load bars, special control, and enclosure or panel board options for application customisation
- Large stock of components results in a short lead time for customers

TemBreak transfer switches consist of open transition, manual and automatic types, and are used to switch between a normal power source and a backup power source in the event of power failure. Applications can be for non essential and essential loads, and the transfer switch type is selected based on the application. Ampere ratings range from 63 A to 3200 A.

TemBreak transfer switches consist of mechanically interlocked MCCBs. Manual Transfer Switches (MTS) have no motor fitted and are manually switched via the MCCB toggle or via a handle operator. Basic Transfer Switches (BTS) have motors fitted for remote operation. A BTS in combination with an external transfer switch controller, is called an Automatic Transfer Switch (ATS). NHP / Terasaki offer both electro-mechanical and electronic automatic transfer controllers, and both technologies have varying features.

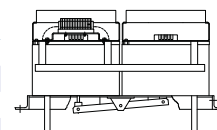


TemBreak 1 Transfer Switches

TemBreak1, manual (MTS) or automatic (BTS + controller) transfer switches are factory assembled ranging from 400A (630AF) to 2500A. The transfer switches in the selection table below, are interlocked via a rear mounted walking beam interlock. Other types are available on request with a rod or cable interlock, using a order form available from NHP. Common loadside busbars are on option.

Basic Transfer Switches 2000A

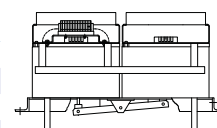
Item Description	Item Type	Catalogue No.	\$AU
TB1 Basic Transfer Switch XS2000NE 2000A 3P/3P	A	BS20E2033	63,427.00
TB1 Basic Transfer Switch XS2000NE 2000A 3P/4P	A	BS20E2034	71,109.00
TB1 Basic Transfer Switch XS2000NE 2000A 4P/3P	A	BS20E2043	71,877.00
TB1 Basic Transfer Switch XS2000NE 2000A 4P/4P	A	BS20E2044	79,049.00



BS20E2033

Basic Transfer Switches 2500A

Item Description	Item Type	Catalogue No.	\$AU
TB1 Basic Transfer Switch XS2500NE 2500A 3P/3P	A	BS25E2533	67,132.00
TB1 Basic Transfer Switch XS2500NE 2500A 3P/4P	A	BS25E2534	75,433.00
TB1 Basic Transfer Switch XS2500NE 2500A 4P/3P	A	BS25E2543	76,155.00
TB1 Basic Transfer Switch XS2500NE 2500A 4P/4P	A	BS25E2544	83,988.00



BS25E2533

ATS Controllers

The ATL610NHP is a high specification transfer switch control unit suitable for use between two three-phase sources (utilities or generators). The ATL610NHP is the primary controller used for TemBreak 1 or TemBreak 2 automatic transfer switches.

- Expandable version (2 slots for EXP modules), double power supply AC/DC
- 128 x 80 resolution, backlit LCD screen with 4 grey levels
- 6 programmable digital inputs (negative)
- 6 digital output relays with N/O contact 8A 250V AC
- 1 digital output relay with C/O contact 8A 250V AC
- Data storage of the previous 100 events

TemBreak 2 Transfer Switch Controller options: TLP2 or ATL601CIP

TemBreak 1 Transfer Switch Controller options: TLP1 or ATL601CIP - ATL601CIP requires connection lead TLP2L1CABLE (length options shown)

1

Auto Changeover Controllers

TLP1 and TLP2 are relay / timer based controllers with an interface panel. The interface panel incorporates the necessary connection terminals, wiring looms and control circuit protection fuses to allow direct connection to the TemBreak MCCB basic transfer switch. Each controller includes panel mounted selector switch for Manual / Auto / Test / Off selection (SSW5). For more information, refer NHP.



Item Description	Item Type	Catalogue No.	\$AU
TLP1 Relay Based Logic Controller For Tembreak 1 MCCBs	A	TLP1	3,327.00
TemBreak 2 Logic Controller Panel Electrical /Mechanical		TLP2	3,484.00

ATL610 Accessories

TemBreak 1 Connection Lead for ATL601 Controllers



TLP2L1LCABLE

Item Description	Item Type	Catalogue No.	\$AU
Temlogic2 Panel for Tembreak 1 Cable (0.5m)	A	TLP2L1LCABLE	1,604.00

TemBreak Pro Transfer Switches**Manual Transfer Switches 160A**

3P/3P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P160F TM 160A 36kA 3P/3P	A	MTSP160F160TM33	8,830.00
MANUAL TRANSFER SWITCH P160N TM 160A 50kA 3P/3P	A	MTSP160N160TM33	9,407.00
MANUAL TRANSFER SWITCH P160H TM 160A 70kA 3P/3P	A	MTSP160H160TM33	10,181.00

3P/3P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P160F BE 160A 36kA 3P/3P	A	MTSP160F160BE33	10,359.00
MANUAL TRANSFER SWITCH P160N BE 160A 50kA 3P/3P	A	MTSP160N160BE33	11,435.00
MANUAL TRANSFER SWITCH P160H BE 160A 70kA 3P/3P	A	MTSP160H160BE33	13,650.00

3P/3P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P160F SE 160A 36kA 3P/3P	A	MTSP160F160SE33	16,218.00
MANUAL TRANSFER SWITCH P160N SE 160A 50kA 3P/3P	A	MTSP160N160SE33	17,564.00
MANUAL TRANSFER SWITCH P160H SE 160A 70kA 3P/3P	A	MTSP160H160SE33	19,269.00

4P/4P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P160F TM 160A 36kA 4P/4P	A	MTSP160F160TM44	10,479.00
MANUAL TRANSFER SWITCH P160N TM 160A 50kA 4P/4P	A	MTSP160N160TM44	10,079.00
MANUAL TRANSFER SWITCH P160H TM 160A 70kA 4P/4P	A	MTSP160H160TM44	10,292.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P160F BE 160A 36kA 4P/4P	A	MTSP160F160BE44	11,825.00
MANUAL TRANSFER SWITCH P160N BE 160A 50kA 4P/4P	A	MTSP160N160BE44	13,057.00
MANUAL TRANSFER SWITCH P160H BE 160A 70kA 4P/4P	A	MTSP160H160BE44	14,952.00

4P/4P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P160F SE 160A 36ka 4P/4P	A	MTSP160F160SE44	19,561.00
MANUAL TRANSFER SWITCH P160N SE 160A 50ka 4P/4P	A	MTSP160N160SE44	20,907.00
MANUAL TRANSFER SWITCH P160H SE 250A 70ka 4P/4P	A	MTSP160H160SE44	23,303.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P160D 160A NON AUTO 3P/3P	A	MTSP160D160NN33	9,103.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P160D 160A NON AUTO 4P/4P	A	MTSP160D160NN44	10,059.00

Manual Transfer Switches 250A

3P/3P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P250F TM 250A 36ka 3P/3P	A	MTSP250F250TM33	10,325.00
MANUAL TRANSFER SWITCH P250F TM 250A 50ka 3P/3P	A	MTSP250N250TM33	10,519.00
MANUAL TRANSFER SWITCH P250F TM 250A 70ka 3P/3P	A	MTSP250H250TM33	11,885.00

3P/3P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P250F BE 250A 36ka 3P/3P	A	MTSP250F250BE33	11,168.00
MANUAL TRANSFER SWITCH P250F BE 250A 50ka 3P/3P	A	MTSP250N250BE33	12,507.00
MANUAL TRANSFER SWITCH P250F BE 250A 70ka 3P/3P	A	MTSP250H250BE33	15,574.00

3P/3P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P250F SE 250A 36ka 3P/3P	A	MTSP250F250SE33	18,674.00
MANUAL TRANSFER SWITCH P250F SE 250A 50ka 3P/3P	A	MTSP250N250SE33	19,422.00
MANUAL TRANSFER SWITCH P250F SE 250A 70ka 3P/3P	A	MTSP250H250SE33	23,008.00

4P/4P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P250F TM 250A 36ka 4P/4P	A	MTSP250F250TM44	11,416.00
MANUAL TRANSFER SWITCH P250F TM 250A 50ka 4P/4P	A	MTSP250N250TM44	12,213.00
MANUAL TRANSFER SWITCH P250F TM 250A 70ka 4P/4P	A	MTSP250H250TM44	11,302.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P250F BE 250A 36ka 4P/4P	A	MTSP250F250BE44	13,585.00
MANUAL TRANSFER SWITCH P250F BE 250A 50ka 4P/4P	A	MTSP250N250BE44	13,792.00
MANUAL TRANSFER SWITCH P250F BE 250A 70ka 4P/4P	A	MTSP250H250BE44	13,526.00

4P/4P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P250F SE 250A 36ka 4P/4P	A	MTSP250F250SE44	22,399.00
MANUAL TRANSFER SWITCH P250F SE 250A 50ka 4P/4P	A	MTSP250N250SE44	26,451.00
MANUAL TRANSFER SWITCH P250F SE 250A 70ka 4P/4P	A	MTSP250H250SE44	28,127.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P250F 250A NON AUTO 3P/3P	A	MTSP250D250NN33	8,611.00

1

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P250F 250A NON AUTO 4P/4P	A	MTSP250D250NN44	10,104.00

Manual Transfer Switches 400A

3P/3P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P400E TM 400A 25kA 3P/3P	A	MTSP400E400TM33	14,173.00
MANUAL TRANSFER SWITCH P400F TM 400A 36kA 3P/3P	A	MTSP400F400TM33	14,457.00
MANUAL TRANSFER SWITCH P400N TM 400A 50kA 3P/3P	A	MTSP400N400TM33	15,942.00
MANUAL TRANSFER SWITCH P400H TM 400A 70kA 3P/3P	A	MTSP400H400TM33	18,186.00
MANUAL TRANSFER SWITCH P400S TM 400A 110kA 3P/3P	A	MTSP400S400TM33	16,879.00

3P/3P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P400F BE 400A 36kA 3P/3P	A	MTSP400F400BE33	15,717.00
MANUAL TRANSFER SWITCH P400N BE 400A 50kA 3P/3P	A	MTSP400N400BE33	16,463.00
MANUAL TRANSFER SWITCH P400H BE 400A 70kA 3P/3P	A	MTSP400H400BE33	17,928.00
MANUAL TRANSFER SWITCH P400S BE 400A 110kA 3P/3P	A	MTSP400S400BE33	18,971.00

3P/3P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P400F SE 400A 36kA 3P/3P	A	MTSP400F400SE33	24,357.00
MANUAL TRANSFER SWITCH P400N SE 400A 50kA 3P/3P	A	MTSP400N400SE33	25,855.00
MANUAL TRANSFER SWITCH P400H SE 400A 70kA 3P/3P	A	MTSP400H400SE33	32,884.00
MANUAL TRANSFER SWITCH P400S SE 400A 110kA 3P/3P	A	MTSP400S400SE33	39,319.00

4P/4P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P400E TM 400A 25kA 4P/4P	A	MTSP400E400TM44	17,552.00
MANUAL TRANSFER SWITCH P400F TM 400A 36kA 4P/4P	A	MTSP400F400TM44	18,611.00
MANUAL TRANSFER SWITCH P400N TM 400A 50kA 4P/4P	A	MTSP400N400TM44	20,643.00
MANUAL TRANSFER SWITCH P400H TM 400A 70kA 4P/4P	A	MTSP400H400TM44	21,525.00
MANUAL TRANSFER SWITCH P400S TM 400A 110kA 4P/4P	A	MTSP400S400TM44	20,051.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P400F BE 400A 36kA 4P/4P	A	MTSP400F400BE44	18,177.00
MANUAL TRANSFER SWITCH P400N BE 400A 50kA 4P/4P	A	MTSP400N400BE44	19,745.00
MANUAL TRANSFER SWITCH P400H BE 400A 70kA 4P/4P	A	MTSP400H400BE44	18,753.00
MANUAL TRANSFER SWITCH P400S BE 400A 110kA 4P/4P	A	MTSP400S400BE44	23,193.00

4P/4P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P400F SE 400A 36kA 4P/4P	A	MTSP400F400SE44	29,179.00
MANUAL TRANSFER SWITCH P400N SE 400A 50kA 4P/4P	A	MTSP400N400SE44	30,974.00
MANUAL TRANSFER SWITCH P400H SE 400A 70kA 4P/4P	A	MTSP400H400SE44	38,901.00
MANUAL TRANSFER SWITCH P400S SE 400A 110kA 4P/4P	A	MTSP400S400SE44	44,139.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P400D 400A NON AUTO 3P/3P	A	MTSP400D400NN33	13,748.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P400D 400A NON AUTO 4P/4P	A	MTSP400D400NN44	17,086.00

Manual Transfer Switches 630A

3P/3P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P630E TM 630A 25kA 3P/3P	A	MTSP630E630TM33	15,871.00
MANUAL TRANSFER SWITCH P630F TM 630A 36kA 3P/3P	A	MTSP630F630TM33	16,437.00
MANUAL TRANSFER SWITCH P630N TM 630A 50kA 3P/3P	A	MTSP630N630TM33	16,195.00
MANUAL TRANSFER SWITCH P630H TM 630A 70kA 3P/3P	A	MTSP630H630TM33	17,435.00
MANUAL TRANSFER SWITCH P630S TM 630A 110kA 3P/3P	A	MTSP630S630TM33	20,394.00

3P/3P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P630F BE 630A 36kA 3P/3P	A	MTSP630F630BE33	17,528.00
MANUAL TRANSFER SWITCH P630N BE 630A 50kA 3P/3P	A	MTSP630N630BE33	19,539.00
MANUAL TRANSFER SWITCH P630H BE 630A 70kA 3P/3P	A	MTSP630H630BE33	20,399.00
MANUAL TRANSFER SWITCH P630S BE 630A 110kA 3P/3P	A	MTSP630S630BE33	22,863.00

3P/3P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P630F SE 630A 36kA 3P/3P	A	MTSP630F630SE33	27,201.00
MANUAL TRANSFER SWITCH P630N SE 630A 50kA 3P/3P	A	MTSP630N630SE33	29,984.00
MANUAL TRANSFER SWITCH P630H SE 630A 70kA 3P/3P	A	MTSP630H630SE33	36,327.00
MANUAL TRANSFER SWITCH P630S SE 630A 110kA 3P/3P	A	MTSP630S630SE33	39,094.00

4P/4P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P630E TM 630A 25kA 4P/4P	A	MTSP630E630TM44	18,579.00
MANUAL TRANSFER SWITCH P630F TM 630A 36kA 4P/4P	A	MTSP630F630TM44	19,055.00
MANUAL TRANSFER SWITCH P630N TM 630A 50kA 4P/4P	A	MTSP630N630TM44	18,791.00
MANUAL TRANSFER SWITCH P630H TM 630A 70kA 4P/4P	A	MTSP630H630TM44	19,974.00
MANUAL TRANSFER SWITCH P630S TM 630A 110kA 4P/4P	A	MTSP630S630TM44	25,437.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P630F BE 630A 36kA 4P/4P	A	MTSP630F630BE44	22,152.00
MANUAL TRANSFER SWITCH P630N BE 630A 50kA 4P/4P	A	MTSP630N630BE44	22,627.00
MANUAL TRANSFER SWITCH P630H BE 630A 70kA 4P/4P	A	MTSP630H630BE44	23,653.00
MANUAL TRANSFER SWITCH P630S BE 630A 110kA 4P/4P	A	MTSP630S630BE44	29,925.00

4P/4P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P630F SE 630A 36kA 4P/4P	A	MTSP630F630SE44	32,470.00
MANUAL TRANSFER SWITCH P630N SE 630A 50kA 4P/4P	A	MTSP630N630SE44	35,882.00
MANUAL TRANSFER SWITCH P630H SE 630A 70kA 4P/4P	A	MTSP630H630SE44	46,383.00
MANUAL TRANSFER SWITCH P630S SE 630A 110kA 4P/4P	A	MTSP630S630SE44	51,881.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P630S 630A NON AUTO 3P/3P	A	MTSP630D630NN33	15,447.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
MANUAL TRANSFER SWITCH P630S 630A NON AUTO 4P/4P	A	MTSP630D630NN44	19,092.00

1

Basic Transfer Switches 160A**3P/3P Configuration TM Trip Unit Type**

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P160F TM 160A 36kA 3P/3P	A	BTSP160F160TM33	12,253.00
BASIC TRANSFER SWITCH P160N TM 160A 50kA 3P/3P	A	BTSP160N160TM33	12,925.00
BASIC TRANSFER SWITCH P160H TM 160A 70kA 3P/3P	A	BTSP160H160TM33	13,700.00

3P/3P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P160F BE 160A 36kA 3P/3P	A	BTSP160F160BE33	14,428.00
BASIC TRANSFER SWITCH P160N BE 160A 50kA 3P/3P	A	BTSP160N160BE33	15,504.00
BASIC TRANSFER SWITCH P160H BE 160A 70kA 3P/3P	A	BTSP160H160BE33	17,719.00

3P/3P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P160F SE 160A 36kA 3P/3P	A	BTSP160F160SE33	20,287.00
BASIC TRANSFER SWITCH P160N SE 160A 50kA 3P/3P	A	BTSP160N160SE33	21,633.00
BASIC TRANSFER SWITCH P160H SE 160A 70kA 3P/3P	A	BTSP160H160SE33	23,338.00

4P/4P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P160F TM 160A 36kA 4P/4P	A	BTSP160F160TM44	13,998.00
BASIC TRANSFER SWITCH P160N TM 160A 50kA 4P/4P	A	BTSP160N160TM44	13,598.00
BASIC TRANSFER SWITCH P160H TM 160A 70kA 4P/4P	A	BTSP160H160TM44	14,361.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P160F BE 160A 36kA 4P/4P	A	BTSP160F160BE44	15,894.00
BASIC TRANSFER SWITCH P160N BE 160A 50kA 4P/4P	A	BTSP160N160BE44	17,126.00
BASIC TRANSFER SWITCH P160H BE 160A 70kA 4P/4P	A	BTSP160H160BE44	19,021.00

4P/4P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P160F SE 160A 36kA 4P/4P	A	BTSP160F160SE44	23,630.00
BASIC TRANSFER SWITCH P160N SE 160A 50kA 4P/4P	A	BTSP160N160SE44	24,976.00
BASIC TRANSFER SWITCH P160H SE 250A 70kA 4P/4P	A	BTSP160H160SE44	27,372.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P160D 160A NON AUTO 3P/3P	A	BTSP160D160NN33	12,622.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P160D 160A NON AUTO 4P/4P	A	BTSP160D160NN44	13,673.00

Basic Transfer Switches 250A**3P/3P Configuration TM Trip Unit Type**

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P250F TM 250A 36kA 3P/3P	A	BTSP250F250TM33	14,394.00
BASIC TRANSFER SWITCH P250F TM 250A 50kA 3P/3P	A	BTSP250N250TM33	14,588.00
BASIC TRANSFER SWITCH P250F TM 250A 70kA 3P/3P	A	BTSP250H250TM33	15,954.00

3P/3P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P250F BE 250A 36kA 3P/3P	A	BTSP250F250BE33	15,237.00
BASIC TRANSFER SWITCH P250F BE 250A 50kA 3P/3P	A	BTSP250N250BE33	16,576.00
BASIC TRANSFER SWITCH P250F BE 250A 70kA 3P/3P	A	BTSP250H250BE33	19,643.00

3P/3P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P250F SE 250A 36kA 3P/3P	A	BTSP250F250SE33	22,743.00
BASIC TRANSFER SWITCH P250F SE 250A 50kA 3P/3P	A	BTSP250N250SE33	23,491.00
BASIC TRANSFER SWITCH P250F SE 250A 70kA 3P/3P	A	BTSP250H250SE33	22,105.00

4P/4P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P250F TM 250A 36kA 4P/4P	A	BTSP250F250TM44	15,485.00
BASIC TRANSFER SWITCH P250F TM 250A 50kA 4P/4P	A	BTSP250N250TM44	16,282.00
BASIC TRANSFER SWITCH P250F TM 250A 70kA 4P/4P	A	BTSP250H250TM44	15,371.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P250F BE 250A 36kA 4P/4P	A	BTSP250F250BE44	17,654.00
BASIC TRANSFER SWITCH P250F BE 250A 50kA 4P/4P	A	BTSP250N250BE44	17,861.00
BASIC TRANSFER SWITCH P250F BE 250A 70kA 4P/4P	A	BTSP250H250BE44	17,595.00

4P/4P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P250F SE 250A 36kA 4P/4P	A	BTSP250F250SE44	26,468.00
BASIC TRANSFER SWITCH P250F SE 250A 50kA 4P/4P	A	BTSP250N250SE44	30,520.00
BASIC TRANSFER SWITCH P250F SE 250A 70kA 4P/4P	A	BTSP250H250SE44	27,491.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P250D SWITCH 250A 3P/3P	A	BTSP250D250NN33	13,129.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P250D SWITCH 250A 4P/4P	A	BTSP250D250NN44	14,700.00

Basic Transfer Switches 400A

3P/3P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P400F TM 400A 25kA 3P/3P	A	BTSP400E400TM33	23,427.00
BASIC TRANSFER SWITCH P400F TM 400A 36kA 3P/3P	A	BTSP400F400TM33	23,711.00
BASIC TRANSFER SWITCH P400N TM 400A 50kA 3P/3P	A	BTSP400N400TM33	25,196.00
BASIC TRANSFER SWITCH P400H TM 400A 70kA 3P/3P	A	BTSP400H400TM33	27,440.00
BASIC TRANSFER SWITCH P400S TM 400A 110kA 3P/3P	A	BTSP400S400TM33	26,133.00

3P/3P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P400F BE 400A 36kA 3P/3P	A	BTSP400F400BE33	24,972.00
BASIC TRANSFER SWITCH P400N BE 400A 50kA 3P/3P	A	BTSP400N400BE33	25,717.00
BASIC TRANSFER SWITCH P400H BE 400A 70kA 3P/3P	A	BTSP400H400BE33	27,183.00
BASIC TRANSFER SWITCH P400S BE 400A 110kA 3P/3P	A	BTSP400S400BE33	28,225.00

1

3P/3P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P400F SE 400A 36kA 3P/3P	A	BTSP400F400SE33	33,611.00
BASIC TRANSFER SWITCH P400N SE 400A 50kA 3P/3P	A	BTSP400N400SE33	35,109.00
BASIC TRANSFER SWITCH P400H SE 400A 70kA 3P/3P	A	BTSP400H400SE33	42,138.00
BASIC TRANSFER SWITCH P400S SE 400A 110kA 3P/3P	A	BTSP400S400SE33	48,573.00

4P/4P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P400E TM 400A 25kA 4P/4P	A	BTSP400E400TM44	26,806.00
BASIC TRANSFER SWITCH P400H TM 400A 70kA 4P/4P	A	BTSP400H400TM44	30,780.00
BASIC TRANSFER SWITCH P400F TM 400A 36kA 4P/4P	A	BTSP400F400TM44	27,865.00
BASIC TRANSFER SWITCH P400N TM 400A 50kA 4P/4P	A	BTSP400N400TM44	29,897.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P400F BE 400A 36kA 4P/4P	A	BTSP400F400BE44	27,431.00
BASIC TRANSFER SWITCH P400N BE 400A 50kA 4P/4P	A	BTSP400N400BE44	29,000.00
BASIC TRANSFER SWITCH P400H BE 400A 70kA 4P/4P	A	BTSP400H400BE44	28,008.00
BASIC TRANSFER SWITCH P400S BE 400A 110kA 4P/4P	A	BTSP400S400BE44	32,447.00

4P/4P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P400F SE 400A 36kA 4P/4P	A	BTSP400F400SE44	38,433.00
BASIC TRANSFER SWITCH P400N SE 400A 50kA 4P/4P	A	BTSP400N400SE44	40,229.00
BASIC TRANSFER SWITCH P400H SE 400A 70kA 4P/4P	A	BTSP400H400SE44	48,155.00
BASIC TRANSFER SWITCH P400S SE 400A 110kA 4P/4P	A	BTSP400S400SE44	53,393.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P400D 400A NON AUTO 3P/3P	A	BTSP400D400NN33	23,003.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P400D 400A NON AUTO 4P/4P	A	BTSP400D400NN44	26,340.00

Basic Transfer Switches 630A

3P/3P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P630E TM 630A 25kA 3P/3P	A	BTSP630E630TM33	25,126.00
BASIC TRANSFER SWITCH P630F TM 630A 36kA 3P/3P	A	BTSP630F630TM33	25,691.00
BASIC TRANSFER SWITCH P630N TM 630A 50kA 3P/3P	A	BTSP630N630TM33	25,449.00
BASIC TRANSFER SWITCH P630H TM 630A 70kA 3P/3P	A	BTSP630H630TM33	26,690.00
BASIC TRANSFER SWITCH P630S TM 630A 110kA 3P/3P	A	BTSP630S630TM33	29,649.00

3P/3P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P630F BE 630A 36kA 3P/3P	A	BTSP630F630BE33	26,782.00
BASIC TRANSFER SWITCH P630N BE 630A 50kA 3P/3P	A	BTSP630N630BE33	28,793.00
BASIC TRANSFER SWITCH P630H BE 630A 70kA 3P/3P	A	BTSP630H630BE33	29,653.00
BASIC TRANSFER SWITCH P630S BE 630A 110kA 3P/3P	A	BTSP630S630BE33	32,117.00

3P/3P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P630F SE 630A 36kA 3P/3P	A	BTSP630F630SE33	36,456.00
BASIC TRANSFER SWITCH P630N SE 630A 50kA 3P/3P	A	BTSP630N630SE33	39,239.00
BASIC TRANSFER SWITCH P630H SE 630A 70kA 3P/3P	A	BTSP630H630SE33	45,581.00
BASIC TRANSFER SWITCH P630S SE 630A 110kA 3P/3P	A	BTSP630S630SE33	48,349.00

4P/4P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P630E TM 630A 25kA 4P/4P	A	BTSP630E630TM44	27,834.00
BASIC TRANSFER SWITCH P630F TM 630A 36kA 4P/4P	A	BTSP630F630TM44	28,309.00
BASIC TRANSFER SWITCH P630N TM 630A 50kA 4P/4P	A	BTSP630N630TM44	28,045.00
BASIC TRANSFER SWITCH P630H TM 630A 70kA 4P/4P	A	BTSP630H630TM44	29,229.00
BASIC TRANSFER SWITCH P630S TM 630A 110kA 4P/4P	A	BTSP630S630TM44	34,691.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P630F BE 630A 36kA 4P/4P	A	BTSP630F630BE44	31,407.00
BASIC TRANSFER SWITCH P630N BE 630A 50kA 4P/4P	A	BTSP630N630BE44	31,882.00
BASIC TRANSFER SWITCH P630H BE 630A 70kA 4P/4P	A	BTSP630H630BE44	32,907.00
BASIC TRANSFER SWITCH P630S BE 630A 110kA 4P/4P	A	BTSP630S630BE44	39,179.00

4P/4P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P630F SE 630A 36kA 4P/4P	A	BTSP630F630SE44	41,725.00
BASIC TRANSFER SWITCH P630N SE 630A 50kA 4P/4P	A	BTSP630N630SE44	45,137.00
BASIC TRANSFER SWITCH P630H SE 630A 70kA 4P/4P	A	BTSP630H630SE44	55,637.00
BASIC TRANSFER SWITCH P630S SE 630A 110kA 4P/4P	A	BTSP630S630SE44	61,135.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P630D 630A NON AUTO 3P/3P	A	BTSP630D630NN33	24,701.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH P630D 630A NON AUTO 4P/4P	A	BTSP630D630NN44	28,346.00

Basic Transfer Switches 800A

3P/3P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800F TM 630A 36kA 3P/3P	A	BTSB800F630TM33	28,592.00
BASIC TRANSFER SWITCH B800N TM 630A 50kA 3P/3P	A	BTSB800N630TM33	30,275.00
BASIC TRANSFER SWITCH B800H TM 630A 70kA 3P/3P	A	BTSB800H630TM33	35,346.00
BASIC TRANSFER SWITCH B800G TM 630A 100kA 3P/3P	A	BTSB800G630TM33	34,441.00
BASIC TRANSFER SWITCH B800F TM 800A 36kA 3P/3P	A	BTSB800F800TM33	28,891.00
BASIC TRANSFER SWITCH B800N TM 800A 50kA 3P/3P	A	BTSB800N800TM33	30,499.00
BASIC TRANSFER SWITCH B800H TM 800A 70kA 3P/3P	A	BTSB800H800TM33	35,794.00
BASIC TRANSFER SWITCH B800G TM 800A 100kA 3P/3P	A	BTSB800G800TM33	34,793.00

3P/3P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800N BE 630A 50kA 3P/3P	A	BTSB800N630BE33	29,604.00
BASIC TRANSFER SWITCH B800H BE 630A 70kA 3P/3P	A	BTSB800H630BE33	30,567.00
BASIC TRANSFER SWITCH B800G BE 630A 100kA 3P/3P	A	BTSB800G630BE33	37,081.00
BASIC TRANSFER SWITCH B800N BE 800A 50kA 3P/3P	A	BTSB800N800BE33	31,337.00
BASIC TRANSFER SWITCH B800H BE 800A 70kA 3P/3P	A	BTSB800H800BE33	35,141.00
BASIC TRANSFER SWITCH B800G BE 800A 100kA 3P/3P	A	BTSB800G800BE33	38,305.00

1

3P/3P Configuration BEG Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800H BEG 630A 70kA 3P/3P	A	BTSB800H630BEG33	40,777.00
BASIC TRANSFER SWITCH B800H BEG 800A 70kA 3P/3P	A	BTSB800H800BEG33	41,563.00

3P/3P Configuration SX Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800N SX 800A 50kA 3P/3P	A	BTSB800N800SX33	36,292.00
BASIC TRANSFER SWITCH B800H SX 800A 70kA 3P/3P	A	BTSB800H800SX33	38,536.00
BASIC TRANSFER SWITCH B800G SX 800A 100kA 3P/3P	A	BTSB800G800SX33	45,642.00

3P/3P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800N SE 800A 50kA 3P/3P	A	BTSB800N800SE33	47,512.00
BASIC TRANSFER SWITCH B800H SE 800A 70kA 3P/3P	A	BTSB800H800SE33	51,252.00
BASIC TRANSFER SWITCH B800G SE 800A 100kA 3P/3P	A	BTSB800G800SE33	62,725.00

4P/4P Configuration TM Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800F TM 630A 36kA 4P/4P	A	BTSB800F630TM44	29,672.00
BASIC TRANSFER SWITCH B800N TM 630A 50kA 4P/4P	A	BTSB800N630TM44	34,501.00
BASIC TRANSFER SWITCH B800H TM 630A 70kA 4P/4P	A	BTSB800H630TM44	41,281.00
BASIC TRANSFER SWITCH B800G TM 630A 100kA 4P/4P	A	BTSB800G630TM44	40,626.00
BASIC TRANSFER SWITCH B800F TM 800A 36kA 4P/4P	A	BTSB800F800TM44	30,233.00
BASIC TRANSFER SWITCH B800N TM 800A 50kA 4P/4P	A	BTSB800N800TM44	34,837.00
BASIC TRANSFER SWITCH B800H TM 800A 70kA 4P/4P	A	BTSB800H800TM44	41,842.00
BASIC TRANSFER SWITCH B800G TM 800A 100kA 4P/4P	A	BTSB800G800TM44	44,533.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800N BE 630A 50kA 4P/4P	A	BTSB800N630BE44	36,729.00
BASIC TRANSFER SWITCH B800H BE 630A 70kA 4P/4P	A	BTSB800H630BE44	39,264.00
BASIC TRANSFER SWITCH B800G BE 630A 100kA 4P/4P	A	BTSB800G630BE44	44,526.00
BASIC TRANSFER SWITCH B800N BE 800A 50kA 4P/4P	A	BTSB800N800BE44	37,548.00
BASIC TRANSFER SWITCH B800H BE 800A 70kA 4P/4P	A	BTSB800H800BE44	39,825.00
BASIC TRANSFER SWITCH B800G BE 800A 100kA 4P/4P	A	BTSB800G800BE44	44,526.00

4P/4P Configuration BEG Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800H BEG 630A 70kA 4P/4P	A	BTSB800H630BEG44	45,578.00
BASIC TRANSFER SWITCH B800H BEG 800A 70kA 4P/4P	A	BTSB800H800BEG44	46,522.00

4P/4P Configuration SX Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800N SX 800A 50kA 4P/4P	A	BTSB800N800SX44	42,289.00
BASIC TRANSFER SWITCH B800H SX 800A 70kA 4P/4P	A	BTSB800H800SX44	44,832.00
BASIC TRANSFER SWITCH B800G SX 800A 100kA 4P/4P	A	BTSB800G800SX44	49,844.00

4P/4P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800N SE 800A 50kA 4P/4P	A	BTSB800N800SE44	53,509.00
BASIC TRANSFER SWITCH B800H SE 800A 70kA 4P/4P	A	BTSB800H800SE44	57,997.00
BASIC TRANSFER SWITCH B800G SE 800A 100kA 4P/4P	A	BTSB800G800SE44	64,724.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800D 800A NON AUTO 3P/3P	A	BTSB800D800NN33	29,938.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B800D 800A NON AUTO 4P/4P	A	BTSB800D800NN44	31,518.00

Basic Transfer Switches 1000A

3P/3P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1000N BE 1000A 50kA 3P/3P	A	BTSB1000N1000BE33	37,854.00
BASIC TRANSFER SWITCH B1000H BE 1000A 70kA 3P/3P	A	BTSB1000H1000BE33	39,312.00

3P/3P Configuration SX Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1000N SX 1000A 50kA 3P/3P	A	BTSB1000N1000SX33	44,550.00
BASIC TRANSFER SWITCH B1000H SX 1000A 70kA 3P/3P	A	BTSB1000H1000SX33	44,731.00

3P/3P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1000N SE 1000A 50kA 3P/3P	A	BTSB1000N1000SE33	59,603.00
BASIC TRANSFER SWITCH B1000H SE 1000A 70kA 3P/3P	A	BTSB1000H1000SE33	58,531.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1000N BE 1000A 50kA 4P/4P	A	BTSB1000N1000BE44	44,170.00
BASIC TRANSFER SWITCH B1000H BE 1000A 70kA 4P/4P	A	BTSB1000H1000BE44	47,190.00

4P/4P Configuration SX Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1000N SX 1000A 50kA 4P/4P	A	BTSB1000N1000SX44	49,353.00
BASIC TRANSFER SWITCH B1000H SX 1000A 70kA 4P/4P	A	BTSB1000H1000SX44	47,531.00

4P/4P Configuration SE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1000N SE 1000A 50kA 4P/4P	A	BTSB1000N1000SE44	63,794.00
BASIC TRANSFER SWITCH B1000H SE 1000A 70kA 4P/4P	A	BTSB1000H1000SE44	64,293.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1000D 1000A NON AUTO 3P/3P	A	BTSB1000D1000NN33	35,794.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1000D 1000A NON AUTO 4P/4P	A	BTSB1000D1000NN44	38,423.00

1

Basic Transfer Switches 1250A**3P/3P Configuration BE Trip Unit Type**

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1250N BE 1250A 50kA 3P/3P	A	BTSB1250N1250BE33	50,936.00
BASIC TRANSFER SWITCH B1250H BE 1250A 70kA 3P/3P	A	BTSB1250H1250BE33	48,557.00
BASIC TRANSFER SWITCH B1250HL BE 1250A 85kA 3P/3P	A	BTSB1250HL1250BE33	55,698.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1250N BE 1250A 50kA 4P/4P	A	BTSB1250N1250BE44	59,282.00
BASIC TRANSFER SWITCH B1250H BE 1250A 70kA 4P/4P	A	BTSB1250H1250BE44	57,628.00
BASIC TRANSFER SWITCH B1250HL BE 1250A 85kA 4P/4P	A	BTSB1250HL1250BE44	64,510.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1250D 1250A NON AUTO 3P/3P	A	BTSB1250D1250NN33	46,207.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1250D 1250A NON AUTO 4P/4P	A	BTSB1250D1250NN44	51,757.00

Basic Transfer Switches 1600A**3P/3P Configuration BE Trip Unit Type**

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1600N BE 1600A 50kA 3P/3P	A	BTSB1600N1600BE33	55,230.00
BASIC TRANSFER SWITCH B1600HL BE 1600A 85kA 3P/3P	A	BTSB1600HL1600BE33	57,996.00

4P/4P Configuration BE Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1600N BE 1600A 50kA 4P/4P	A	BTSB1600N1600BE44	67,859.00
BASIC TRANSFER SWITCH B1600HL BE 1600A 85kA 4P/4P	A	BTSB1600HL1600BE44	71,912.00

3P/3P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1600D 1600A NON AUTO 3P/3P	A	BTSB1600D1600NN33	53,988.00

4P/4P Configuration NN Trip Unit Type

Item Description	Item Type	Catalogue No.	\$AU
BASIC TRANSFER SWITCH B1600D 1600A NON AUTO 4P/4P	A	BTSB1600D1600NN44	69,822.00

Switched Mode Power Supplies

Allen-Bradley Switched Mode Power Supplies

- Efficient power supplies which minimise heat output and reduce associated running costs
- Redundancy module options allow for backup power in critical applications
- The compact footprint maximises usable space with the panel

Bulletin 1606 switched mode power supplies includes four product families that meet a number of single and three phase application requirements. These units are designed and manufactured to accept wide ranges of both AC and DC input voltages and are tested to meet international safety standards.



1606-XLE Essential Series

The 1606-XLE "Essential" series is now available in a new look and backed with improved, ever reliable performance. The new design is more compact and increases overall efficiency which reduces the total heat output in your panel. Termination options are available in spring-clamp, plug and push-in types and new options for built-in redundancy, conformal coating and remote ON/OFF are also available.

1606-XLE Essential Series, 1-Phase Input

Single-phase adjustable output switch mode power supplies with 24V DC or 48V DC output.
Contact NHP for 48V DC output options

24 to 28V DC Output

Input (V AC / V DC)	Output (V DC)	Output (W)	Output (A)	Inrush Max (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
100 - 240V AC / 110 - 300V DC	24 - 28	80	3.3A @24V DC, 2.9A @28V DC	45	124 x 32 x 102		1606-XLE80E	244.34
100 - 240V AC	24 - 28	120	5A @24V DC, 4.3A @28V DC	3	124 x 32 x 117		1606-XLE120E	395.97
200 - 240V AC	24 - 28	120	5A @24V DC,	48	124 x 32 x 117		1606-XLE120EE	347.40
100 - 240V AC	24 - 28	240	10A @24V DC, 8.6A @28V DC	3	124 x 60 x 117		1606-XLE240E	574.07
200 - 240V AC	24 - 28	240	10A @24V DC,	48	124 x 60 x 117		1606-XLE240EE	503.42



1606-XLE120EE

1606-XLE Essential Series, 2-Phase Input

Two-phase adjustable output switch mode power supplies.

24 to 28V DC Output

Input (V AC / V DC)	Output (V DC)	Output (W)	Output (A)	Inrush Max (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
380 - 480V AC	24 - 28	120	5A @24V DC, 4.3A @28V DC	4	124 x 40 x 117		1606-XLE120E-2	402.54



1606-XLE120E-2

1606-XLE Essential Series, 3-Phase Input

Three-phase adjustable output switch mode power supplies.

24-28V DC Output

Input (V AC / V DC)	Output (V DC)	Output (W)	Output (A)	Inrush Max (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
380 - 480V AC	24 - 28	240	10A @24V DC, 8.6A @28V DC	4	124 x 40 x 117		1606-XLE240E-3	541.82



1606-XLE240E-3

1

1606-XLE Essential Specialty Modules

Redundancy modules help to continue and ensure supply to load in case one power supply unit in the redundancy system fails. This helps to prevent system downtime in case of failure

Redundancy Modules

Input Voltage Range (V DC)	Input/Output (A)	Nominal Current (per input)	Output Power (W)	Decoupling	Dimensions (H x W x D)	Item Type	Catalogue No.	\$AU
10 - 60	20	10	480	Diode	124 x 32 x 117		1606-XLERED	256.60



1606-XLERED

1606-XLP Compact Series

When saving critical space is one of your main objectives, the XLP line is an excellent choice. These devices are equipped with many of the same features and certifications as previous generations and support low-power applications. This line is ideal if you require a cost-effective way to save space while delivering safe and reliable power.

1606-XLP Compact Series, 1-Phase Input

Single-phase input Compact range of Switch Mode Power Supplies (SMPS).

5 to 5.5V DC Output

Input (V AC / V DC)	Output (V DC)	Output (W)	Output (A)	Inrush Max (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
100 - 240V AC / 85 - 370V DC	5.15 - 5.5	25	5A @5V DC	18	75 x 45 x 91	I	1606-XLP25A	272.03



1606-XLP25A

10 to 12V DC Output

Input (V AC / V DC)	Output (V DC)	Output (W)	Output (A)	Inrush Max (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
100 - 240V AC / 85 - 375V DC	10 - 12	30	3A @10V DC, 2.5A @12V DC	18	75 x 45 x 91		1606-XLP30B	275.06



1606-XLP30B

12 to 15V DC Output

Input (V AC / V DC)	Output (V DC)	Output (W)	Output (A)	Inrush Max (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
100 - 240V AC / 85 - 375V DC	12 - 15	15	1.3A @12V DC, 1A @15V DC	16	75 x 22.5 x 91		1606-XLP15B	151.96
100 - 240V AC / 85 - 375V DC	12 - 15	50	4.2A @12V DC, 3.4A @15V DC	18	75 x 45 x 91		1606-XLP50B	326.70
100 - 120V AC / 85 - 375V DC	12 - 15	90	7.5A @12V DC, 6A @15V DC	30	75 x 73 x 103		1606-XLP90B	486.29



1606-XLP50B

24 to 28V DC Output

Input (V AC / V DC)	Output (V DC)	Output (W)	Output (A)	Inrush Max (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
100 - 240V AC / 85 - 375V DC	24 - 28	15	0.63A @24V DC, 0.54A @28V DC	16	75 x 22.5 x 91		1606-XLP15E	109.42
100 - 240V AC / 85 - 375V DC	24 - 28	30	1.3A @24V DC, 1A @28V DC	18	75 x 45 x 91		1606-XLP30E	226.43
100 - 240V AC / 85 - 375V DC	24 - 28	50	2.1A @24V DC, 1.8A @28V DC	18	75 x 45 x 91		1606-XLP50E	276.60
100 - 240V AC / 220 - 375V DC	24 - 28	72	3A @24V DC, 2.6A @28V DC	30	75 x 45 x 91		1606-XLP72E	329.77
100 - 240V AC / 220 - 375V DC	24 - 28	100	4.2A @24V DC, 3.6A @28V DC	30	75 x 73 x 103		1606-XLP100E	375.35



1606-XLP15E

1606-XLP Compact Specialty Modules

Compact series redundancy modules.

Redundancy Modules

Input Voltage Range (V DC)	Input/Output (A)	Nominal Current (per input)	Output Power (W)	Decoupling	Dimensions (H x W x D)	Item Type	Catalogue No.	\$AU
10 - 60	10	8	384	Diode	75 x 45 x 91	I	1606-XLPRED	140.28



1606-XLPRED

1606-XLS Performance Series

The 1606-XLS series of Switched Mode Power Supplies offer compact units yet can deliver a 150% power boost. Available in multiple DC output choices, select models from 80 to 960W sizes.

1606-XLS Performance Series, 1-Phase Input

24 to 28V DC Output

Input (V AC / V DC)	Output (V DC)	Output (W)	Output (A)	Inrush Max (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
100 - 240V AC / 110 - 300V DC	24 - 28	80	3.4A @24V DC, 3A @28V DC	7	124 x 32 x 102		1606-XLS80E	458.55
100 - 240V AC / 110 - 300V DC	24 - 28	120	7.5A @24V DC, 6.7A @28V DC	4.9	124 x 40 x 117		1606-XLS120E	638.10
100 - 240V AC / 110 - 150V DC	24 - 28	240	10A @24V DC, 9A @28V DC	5	124 x 60 x 117		1606-XLS240E	930.21
100 - 240V AC / 110 - 150V DC	24 - 28	480	20A @24V DC, 17A @28V DC	9	124 x 84 x 127		1606-XLS480E	1,361.00
200 - 240V AC / 220 - 150V DC	24 - 28	960	40A @24V DC, 34A @28V DC	14	124 x 125 x 127		1606-XLS960EE	1,347.98



1606-XLS80E

1606-XLS Performance Series, 3-Phase Input

24 to 28V DC Output

Input (V AC)	Output (V DC)	Output (W)	Output (A)	Inrush Max (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
380 - 480V AC	24 - 28	480	20A @24V DC, 17.5A @28V DC	4	124 x 65 x 127		1606-XLS480E-3	1,179.88
380 - 480V AC	24 - 28	960	40A @24V DC, 34.3A @28V DC	4.5	124 x 110 x 127		1606-XLS960E-3	1,386.85



1606-XLS480E-3

1606-XLS Performance Specialty Modules

1606-XLS Specialty Modules include DC UPS systems, redundancy modules and DeviceNet approved power supplies.

DeviceNet Approved Power Supplies

Input Voltage Range (V DC)	Input/Output (A)	Nominal Current (per input)	Output Power (W)	Dimensions (H x W x D)	Item Type	Catalogue No.	\$AU
100 - 240	3.8	0.5	91	124 x 40 x 117	I	1606-XLSDNET4	693.55
24 (AC/DC)	8	1	192	124 x 60 x 117		1606-XLSDNET8	1,099.01



1606-XLSDNET4

Redundancy Modules

Input Voltage Range (V DC)	Input/Output (A)	Nominal Current (per input)	Output Power (W)	Decoupling	Dimensions (H x W x D)	Item Type	Catalogue No.	\$AU
	20	8	480	Diode	124 x 32 x 102		1606-XLSRED	257.86



1606-XLSRED

1



1606-XLS240-UPS

UPS Charging Modules

Input Voltage Range (V DC)	Input/Output (A)	Nominal Current (per input)	Output Power (W)	Dimensions (H x W x D)	Item Type	Catalogue No.	\$AU
	10	10	240	124 x 49 x 117		1606-XLS240-UPS	848.61

1606-XL Basic Series, 1-Phase Input

24 to 28V DC Output



1606-XLB120E

Input (V AC / V DC)	Output (V DC)	Output (W)	Output (A)	Inrush (A)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
85 - 132V AC, 170 - 264V AC	24 - 28	120	5A @24V DC, 4.3A @28V DC	23A@100V AC 27A@120V AC 40A@230V AC	124 x 39 x 124		1606-XLB120E	187.39
90 - 264V AC	24 - 28	240	10A @24V DC, 6.25A @28V DC	14.5A@100V AC 17A@120V AC 32A@230V AC	124 x 49 x 124		1606-XLB240E	282.24

Transformers

NHP Control Transformers

- Voltage compensation (+5/-5%) available on secondary terminals
- Isolation between primary and secondary windings
- Insulation Class F (155°C)
- Low magnetic stray field and high efficiency

Standard and Multi-tapped control transformers for stepping down mains supply voltage to the required voltage for control equipment.



Standard Control Transformers

Standard single input / output control transformers for adjusting supply voltage to suit control equipment voltage ratings.

240V AC Primary Control Transformers

Control transformers for stepping down a 240V AC single-phase supply to either 24V AC or 110V AC.

VA Rating (VA)	H x W x D (mm)	Weight (kg)	Input (V AC nom)	Output (V AC nom)	Item Type	Catalogue No.	\$AU
40	95 x 78 x 72	1.4	240	24		2402440	190.00
63	95 x 78 x 72	1.5	240	24		2402463	217.00
100	98 x 85 x 75	1.83	240	24		24024100	310.00
160	110 x 96 x 92	2.5	240	24		24024160	348.00
250	110 x 96 x 100	3.4	240	24		24024250	453.00
400	130 x 120 x 100	5.55	240	24		24024400	646.00
630	155 x 150 x 110	8.4	240	24		24024630	751.00
800	155 x 150 x 130	9.5	240	24		24024800	732.00
100	82 x 95 x 83	2	240	110		240110100	350.00
1000	153 x 125 x 153	2	240	110	I	2401101000	1,591.00



2402440

415V AC Primary Control Transformers

Step down control transformer to reduce the 415V AC supply voltage to 240V AC.

VA Rating (VA)	H x W x D (mm)	Weight (kg)	Input (V AC nom)	Output (V AC nom)	Item Type	Catalogue No.	\$AU
100	82 x 95 x 83	2.06	415	240		415240100	307.00
200	82 x 95 x 116	3.66	415	240		415240200	384.00

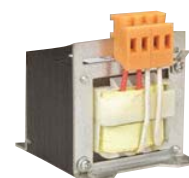


415240100

Multi-Tapped Control Transformers

Multi-tapped 415/240V to 24/12V control transformers. Multi-tapped control transformers provide flexibility of input / output voltage.

VA Rating (VA)	H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
40	56 x 76 x 85	0.84		TOH40	201.00
63	63 x 76 x 85	1.54		TOH63	230.00
100	83 x 95 x 88	2.08		TOH100	321.00
150	102 x 95 x 88	3.22		TOH150	380.00



TOH40

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

This page intentionally left blank

Energy Management and Building Automation

Energy Management and Metering

Energy Meter Selection Guide	256
Energy Monitoring Software	258
Power and Multifunction Meters	262
Analogue and Digital Meters	270
Current Transformer Selection Guide	276
Transducers and Transformers	278

Building Automation

BMS and Lighting Control	283
--------------------------	-----

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Energy Meter Selection Guide

2

SINGLE PHASE ENERGY METERS

Direct connect 45A Electromechanical kWh counter



EM110

Direct connect 45A LCD touch display energy meter



EM111

Direct connect 100A LCD touch display energy meter



EM112

Base meter with no communication	EM110DINAV81XO1X	EM111DINAV81XS1X	EM112DINAV01XS1X
Meter with RS485 modbus RTU			
Meter suited to retrofit applications			
Active energy accuracy / IEC 62053-21	Class 1	Class 1	Class 1
Maximum demand power		✓	✓
Power factor		✓	✓
DIN rail mount	✓	✓	✓
Panel mount			
Page	262	262	262

THREE PHASE MULTI-FUNCTION METERS (MFM)

LCD advanced DIN-rail MFM



Nemo D4 LE

LCD panel mount MFM



Nemo 96HD

LCD panel mount MFM



WM40

Base meter with no communication	MFD4411	NEMO96HD	WM40AV53H
Meter with RS485 Modbus RTU	MFD4421	Base meter plus add-on module ⁵⁾	Base meter plus add-on module ⁵⁾
Meter with RS485 BACnet RTU	MFD44B1	Base meter plus add-on module ⁵⁾	Base meter plus add-on module ⁵⁾
Active Energy Accuracy / IEC 62053-21	Class 0.5	Class 0.5	Class 0.5
Maximum demand	✓	✓	✓
Power factor	✓	✓	✓
Total harmonic distortion	THDI and THDV up to 50th harmonic	THDI and THDV up to 22nd harmonic	THDI and THDV up to 32nd harmonic
Add-on communication module			
RS485 Modbus RTU	Native to meter	IF96001	MC485232
Ethernet TCP/IP		IF96015	MCETH
BACnet MS/TP	Native to meter	IF96014	
BACnet-IP			MCBACIP
Memory + RS485 Modbus RTU		IF96012	MC485232M
Memory + Ethernet TCP/IP			MCETHM
Memory + BACnet IP			MCBACIPM
Page	266	267	264

Notes:

- Inputs for gas and water metering available on EM24DINAV***ISX model
- Replace ... with '23' for 3x 90A split core CT's; '33' for 3x 150A split core CT's; '53' for 3x 250A split core CT's
- Solid core current transformers to suit EM270 - TCD1X160200CMX (160A primary); TCD2X250200CMX (250A primary); TCD3X630200CMX (630A primary)
- Split core current transformers to suit EM271 - TCD1M10080CMX (100A primary); TCD2M20080CMX (200A primary); TCD3M40080CMX (400A primary)
- Communication module part number needs to be ordered along with base multi-function meter. Example: Want WM40 meter with RS485 Modbus RTU = WM40AV53H and MC485232
- Cable connection for TCD12 is TCD12W5S2T1XXX. Replace 'xxx' with either 030, 050, 100, 200, 300 or 500 for desired cable length in cm.
- Four quadrant monitoring not available for NMI version

HT5_dCHRT-501

THREE PHASE DIRECT CONNECT ENERGY METERS

Direct connect 63A Advanced energy meter with optional inputs for gas and water metering ¹⁾



EM24DIN

EM24DINAV93XR2X
EM24DINAV93XISX

Class 1

✓

✓

✓

with 4DIN96ADAPTER

263

Direct connect 100A energy meter



CONTO D6

CE6DT1252
CE6DT1256

Class 1

✓

✓

✓

-

266

THREE PHASE CT CONNECT ENERGY METERS

CT connect Energy Meter and Retrofit option available



EM210 / EM21 72R

EM21072DAV53XOXX
EM21072DAV53XOSX
EM2172RVV.XOSX ²⁾

Class 1

✓

✓

✓

262

CT connect 3-in-1 Energy Meter and Retrofit option available



EM270 / EM271

EM27072DMV53XOSX ³⁾
EM27172DMV53X2SX ⁴⁾

Class 1

✓

✓

✓

263

CT connect Advanced energy meter with optional inputs for gas and water metering ¹⁾



EM24DIN

EM24DINAV53DR2X
EM24DINAV53DISX

Class 1

✓

✓

✓

with 4DIN96ADAPTER

263

POWER ANALYSER

LCD advanced MFM and Power Analyser



NEMO 96 EA

MFQ96021

MFQ96021 + IF96014

Class 0.5

✓

✓

THDI and THDV up to 40th harmonic

Included as standard

IF96015

IF96014

Memory built in 8 MB

Memory built in 8 MB

267

Power analyser 1426 Series



PM5000

*Contact NHP

Class 0.2

✓

THDI, THDV up to 127th harmonic

On request

Native to meter

269

Branch circuit monitoring solution



WM50 BCMS

WM50AV53HBC

- 12 x channel current transformer part no. TCD12BS32AE
- Connects to 8 x TCD12 CTs; monitor any combination of single and three phase loads up to 96 channel ²⁾
- Channel load measurement: A, THD current, W/var/VA, PF, kWh
- Event and data log with onboard memory
- 16 internal alarms

MC485232

MCETH

Memory built in

Memory built in

264

ENERGY MANAGEMENT

Modbus TCP/IP gateway and datalogger



UWP 3.0

UWP30RSEXXX

- Embedded web-based energy management system
- Customisable monitoring dashboard and reporting
- Connects up to 64x meters via Modbus RTU, connect to additional meters via Modbus TCP/IP
- Compatible with a wide range of energy meters
- Simple and quick to configure
- 4GB Data logging for interval time date stamping of realtime variables
- Transfer data via FTP, HTTP, NTP, Modbus TCP, BACNet/IP

261

Energy management software



EM²-Server

*Contact NHP

- On site server-based software service
- Connects up to 100x VMUC's and UWP3.0
- Multi-site applications
- Live dashboards
- All meter information exportable in .csv
- Alarm and alert reporting
- Fault detection and diagnostics

258



Current transformers and transducer accessories available from NHP

Energy Monitoring Software

Carlo Gavazzi Energy Management Software

2



The Carlo Gavazzi Energy Management software offering encompasses a range of products to meet your energy management and monitoring requirements.

EM²-Server - Energy Monitoring Software Platform

The EM²-Server is a software solution provided as a virtual machine for installation on a PC or server. With the ability to connect to 100 VMU-C or UWP 3.0 control units, (i.e. maximum of 3200 measuring field devices), the EM²-Server package also includes a synoptics page, useful for visually showing the layout and locations of the connected meters. Combining the EM²-Server software with an industrial PC, NHP can provide a ready to go energy management solution.



EM2SERVERSOFTKIT100

VMUCs (qty)	Item Description	Item Type	Catalogue No.	SAU
20	Software EM2 Server Licence for 20 of VMU-C or UWP 3.0	I	EM2SERVERSOFTBASE	POA
40	Software EM2 Server Licence for 40 of VMU-C or UWP 3.0	K	EM2SERVERSOFTKIT40	POA
60	Software EM2 Server Licence for 60 of VMU-C or UWP 3.0	K	EM2SERVERSOFTKIT60	POA
80	Software EM2 Server Licence for 80 of VMU-C or UWP 3.0	K	EM2SERVERSOFTKIT80	POA
100	Software EM2 Server Licence for 100 of VMU-C or UWP 3.0	K	EM2SERVERSOFTKIT100	POA

Pricing in this document is invalid – for pricing and availability please visit our customer portal under 'My Account'

Energy Monitoring Software

NHP SMART eBOX



All in one enclosed EMS solution - datalogger, controller, gateway and webserver with 4GB onboard storage with guaranteed compliance to NCC Section J8.3.

- Full customisable web-based user interface – view and analyse data that is most important to you on any browser, smartphone or tablet.
- Collate and export your energy consumption in scheduled reports and email/SMS alerts.
- Compatible with a wide range of communication protocols and devices.
- Ability to be used to centralise other webserver-based solutions (such as the VMU-C and UWP 3.0), and operate as a BACnet/IP gateway, seamlessly integrating any Modbus capable device into a Building Management System (BMS).
- Push live data to cloud platforms such as Carlo Gavazzi EM², Microsoft Azure and AWS.
- No additional software required and no ongoing subscription fee.

2

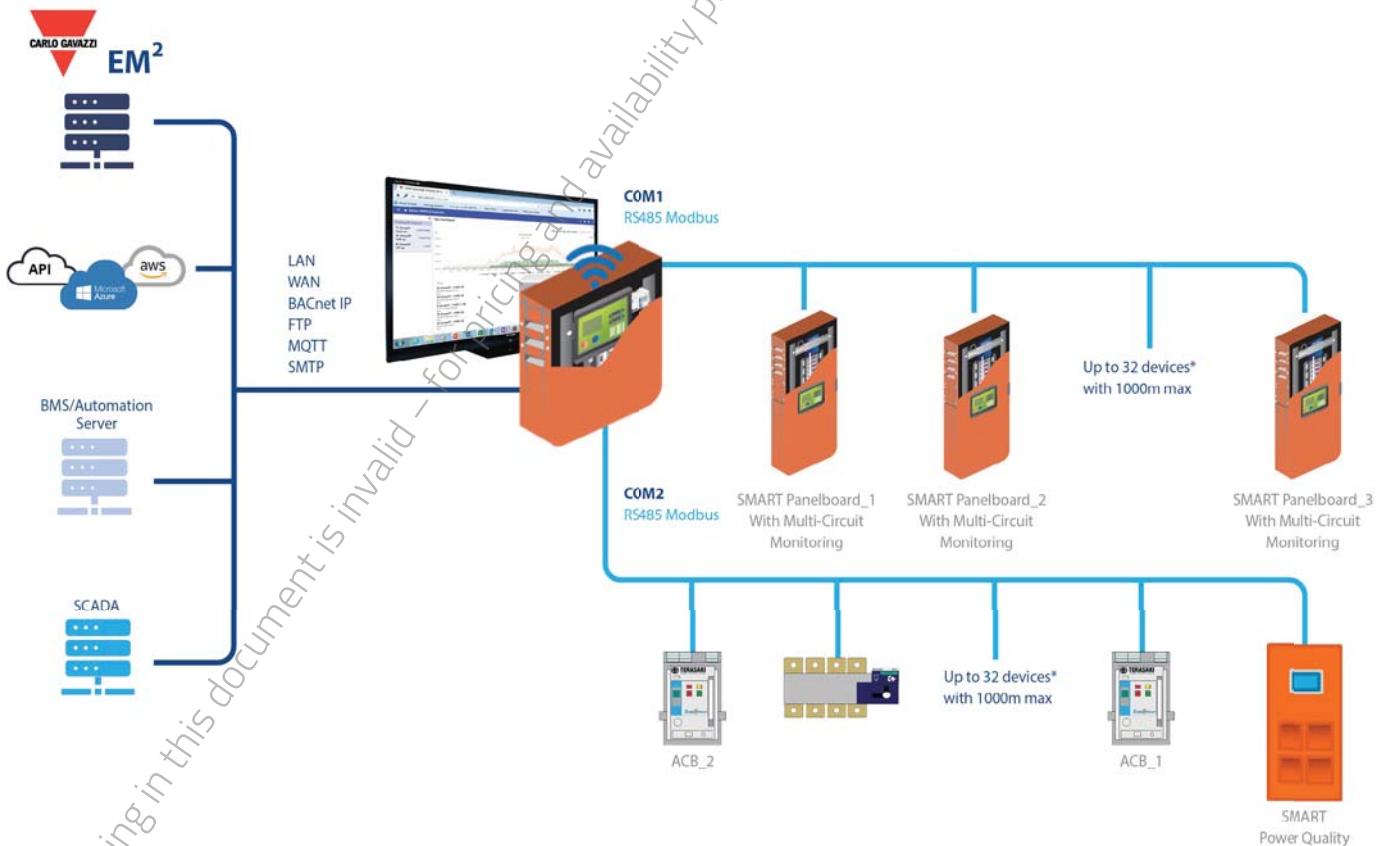


SMART eBOX

The SMART eBox is a powerful solution for monitoring and storing a building's energy usage data. Its ability to centralise and store hourly energy data from a wide range of energy meters and other devices makes it the ideal solution for meeting the requirements of the National Construction Code 2019, part J8.3(c).

Its enclosed design makes installation of the SMART eBox as easy as installing a Concept Panelboard – simply mount on the wall and connect power and network cables to the unit. No need to worry about setup of the EMS platform – NHP does that for you as part of our service package.

Easy to install – just mount and wire up required power and network cables.



H150xD_CHRT-S01

NHP SMART eBOX | Order Form



Ordering Branch / Agent:	Date:
Branch Sales Order No.	

CUSTOMER DETAILS

Customer:
Deliver to:
Project:
Request delivery date:
Customer Order No.

Products:

Number of NHP Energy Meters: _____

Number of non-NHP Energy Meters: _____

Number of Water/Gas Meters: _____

Use of SMART eBOX:

- ☐ Standalone Energy Management System
- ☐ Gateway to existing Energy Management System
- ☐ Centralising webserver-based solutions (such as the VMUC and UWP3)

Please send this request form to NHP Electrical Engineering Products (Australia) Pty Ltd
sales@nhp.com.au by fax on 1300 NHP FAX or your local NHP representative.

HT50XD_dCHRT502

Energy Monitoring Software

Carlo Gavazzi Monitoring Devices

- Compact 2-DIN footprint
- Simple and quick to configure
- 4GB Data logging for interval time date stamping of realtime variables
- Compatible with a wide range of energy meters
- Customisable monitoring dashboard and reporting available through WebApp on any browser, smartphone or tablet



UWP 3.0 - Energy Monitoring Platform and BACnet/IP gateway

UWP 3.0 Controller

UWP 3.0 is a DIN mountable, all in one datalogger, controller, gateway, web-server with onboard backup storage. It can easily connect to various energy meters and be an interface for the Carlo Gavazzi's Dupline building automation devices. It logs, trends variables and display data in a simple to understand format through a WebApp accessible through any web browser.

Item Description	Item Type	Catalogue No.	\$AU
UWP 3.0 Monitoring and gateway control 15-24V DC Auxiliary with Modbus RTU, Modbus TCP and USB		UWP30RSEXXX	2,104.00



UWP30RSEXXX

VMU-C EM - Energy Monitoring Platform

VMU-C Controller

VMU-C is a DIN mount Web-server / Datalogger, modular energy management system. It can easily connect to energy meters to log and trend variables and display them in a simple to understand format through any web browser.

Item Description	Item Type	Catalogue No.	\$AU
Webserver Master Unit and 12-28V DC Auxiliary with Modbus RTU and Modbus TCP		VMUCEMAWSSUX	2,089.00



VMUCEMAWSSUX

Power and Multifunction Meters

Carlo Gavazzi Power and Multifunction Meters

2



- Quick and easy to install
- Compact modern design
- High accuracy monitoring and measurement to IEC 62053-21
- Easy to read and configure
- Options for remote communication

Carlo Gavazzi's broad range of power and multifunction meters cover all requirements from basic kWh recording to full high end system power analysis.

Carlo Gavazzi Energy Meters

Carlo Gavazzi's range of energy meters are available in DIN or panel mount options, with or without communications, and all measuring basic variables and recording and storing kWh energy.

EM100 Series

Direct connect energy meters with a choice of basic electromechanical meter (EM110) or LCD display touch screen measuring additional energy variables with RS485 MODBUS communication for single-phase circuits up to 100A (EM111 & EM112)

Ie (A)	Class (kWh) (IEC 62053-21)	Tariff Management (inputs)	Output(s) (qty x type)	Communications (protocol)	Item Type	Catalogue No.	\$AU
5 (45A max)	1	0	1 x Pulse Output			EM110DINAV81X01X	141.00
5 (45A max)	1	1		Modbus RTU (Serial)		EM111DINAV81X51X	268.00
(100A max)	1	2	1 x Pulse Output			EM112DINAV01X01X	318.00
5 (100A max)	1	2		Modbus RTU (Serial)		EM112DINAV01X51X	369.00



EM111DINAV81X51X

EM210 Series

Series of CT connect energy meters suitable for three-phase applications measuring all basic energy variables. Installation is made easy with the flexibility to mount via panel (72x 72mm) or DIN rail.

CT Secondary Input (A)	Class (kWh) (IEC 62053-21)	Output(s) (qty x type)	Communications (protocol)	Item Type	Catalogue No.	\$AU
5 (6A max)	1	1 x Pulse Output			EM21072DAV53X0XX	619.00
5 (6A max)	1	1 x Pulse Output	Modbus RTU (Serial)		EM21072DAV53X0SX	843.00



EM21072DAV53X0XX

EM21 Series

The EM21 energy meter features a retrofit option, which includes the meter and split core current transformers, reducing installation time and effort. Measuring all basic variables and the innovative convertible 72x72mm panel mount or 4 DIN mount meter, options are also available for high level communications and/or pulse output. Also available is a version with mV input.

EM21 72R Retrofit Meters

Ie (A, max)	Class (kWh) (IEC 62053-21)	Output(s) (qty x type)	Communications (protocol)	Item Type	Catalogue No.	\$AU
90	2	1 x Pulse Output	Modbus RTU (Serial)		EM2172RVV23X0SX	1,256.00
150	2	1 x Pulse Output	Modbus RTU (Serial)		EM2172RVV33X0SX	1,326.00
250	2	1 x Pulse Output	Modbus RTU (Serial)		EM2172RVV53X0SX	1,425.00



EM2172RVV23X0SX

EM24 Series

The EM24 energy meter measures all basic system variables along with power factor, kVArh and records min/max values. This unit provides 4 quadrant metering, which makes it ideal for applications involving bi-directional power flow (import/export systems) along with standard 3-phase applications or 3x 1-phase system measurement. Both direct connect and CT connect options are available along with models featuring inputs for gas and water metering. NMI pattern approved version also now available - EM24DINAV53DISX26.

EM24 Direct Connect

Ie (A)	Class (kWh) (IEC 62053-21)	Tariff Management (inputs)	Output(s) (qty x type)	Communications (protocol)	Item Type	Catalogue No.	\$AU
65A max	1		2 x Pulse Relay Output			EM24DINAV93XR2X	782.00
65A max	1	3		Modbus RTU (Serial)		EM24DINAV93XISX	992.00



EM24DINAV93XR2X

EM24 CT Connect

CT Secondary Input (A)	Class (kWh) (IEC 62053-21)	Tariff Management (inputs)	Output(s) (qty x type)	Communications (protocol)	NMI Approved?	Item Type	Catalogue No.	\$AU
5	1		2 x Pulse Relay Output				EM24DINAV53DR2X	837.00
5	1	3		Modbus RTU (Serial)			EM24DINAV53DISX	955.00
5	1	3		Modbus RTU (Serial)	Yes		EM24DINAV53DISX26	1,043.00



EM24DINAV53DR2X

EM270 Series

Energy meters that can monitor 2x three-phase circuits or 6x single-phase circuits within the one unit. Connection is quick and easy and made via RJ11 connectors from the CT's listed below. These meters are ideal for monitoring light and power circuits.

EM270 Power Meters

Class (kWh) (IEC 62053-21)	Output(s) (qty x type)	Communications (protocol)	Item Type	Catalogue No.	\$AU
1		Modbus RTU (Serial)		EM27072DMV53X2SX	779.00
1	2 x Pulse Output	Modbus RTU (Serial)		EM27072DMV53XOSX	850.00



EM27072DMV53X2SX

EM270 Solid Core CTs

Primary Current (A)	Cable (m)	Hole Spacing (mm)	Hole H x W (mm)	Item Type	Catalogue No.	\$AU
160	0.8	25	30.5 x 15.5		TCD1X16080CMX	217.00
160	1.5	25	30.5 x 15.5		TCD1X160150CMX	224.00
160	2	25	30.5 x 15.5		TCD1X160200CMX	232.00
250	0.8	35	25 x 21		TCD2X25080CMX	237.00
250	1.5	35	25 x 21		TCD2X250150CMX	244.00
250	2	35	25 x 21		TCD2X250200CMX	250.00
630	2	45	31 x 31		TCD3X630200CMX	272.00



TCD2X25080CMX

EM271 Series

Energy meters for retrofit applications that can monitor 2x three-phase circuits or 6x single-phase circuits within the one unit. Connection is quick and easy and made via RJ11 connectors from split core CT's with 100A, 200A, 400A options available. These meters are ideal for monitoring light and power circuits in existing installations.

EM271 Power Meters

Class (kWh) (IEC 62053-21)	Communications (protocol)	Item Type	Catalogue No.	\$AU
1	Modbus RTU (Serial)		EM27172DMV53X2SX	780.00



EM27172DMV53X2SX

2



TCD1M10080CMX

EM271 Split Core CTs

Primary Current (A)	Cable (m)	Internal Ø (mm)	Item Type	Catalogue No.	\$AU
100	0.8	15.7	I	TCD1M10080CMX	619.00



4DIN96ADAPTER

Energy Meter Accessories

Item Description	Item Type	Catalogue No.	\$AU
Accessory Adapter Frame 96X96mm Suit EM21/210/270/271		EM20096ADAPTER	59.00
Accessory Panel Adapter 96x96mm for EM24DIN Power Meter		4DIN96ADAPTER	74.00

Carlo Gavazzi Multifunction Meters

Carlo Gavazzi's range of three-phase multifunction meters measure basic and more advanced system variables including power factor and harmonics. These meters are panel mount and current transformer connected with options for different communication protocols and outputs.

WM40

The WM40 multifunction meter is a 96 x 96mm panel mount modular meter featuring a large screen showing 4 selectable variables and energy counter, along with integrated touch panel for easy programming access. The WM40 measures all basic energy variables including system min/max, total demand, as well as power factor, current and voltage harmonic distortion up to the 32nd harmonic. The modular options allow for different communication protocols. Various communication protocols are available via separate modules.



WM40AV53H

CT Secondary Input (A)	Class (kWh) (IEC 62053-22)	Class (kVARh) (IEC 62053-23)	Communications (protocol)	Memory (stored events)	Item Type	Catalogue No.	\$AU
5 (6A max)	0.5	2	Modbus RTU (Serial)	10000		WM40AV53H	1,837.00

WM50 Branch Circuit Monitoring Solution

The WM50 power meter features event and data log with 16x alarms available, connecting to the TCD12 split core current transformers (maximum of 8) for single, two and three phase measurements for monitoring of up to 96x circuits. With the TCD12 split core CT's suitable for circuits up to 32A, this meter and CT combination is ideal for applications involving monitoring of critical equipment including hospitals, data centres, food storage and industrial production systems.

WM50 Branch Circuit Monitoring Meter



WM50AV53HBC

CT Secondary Input (A)	Class (kWh) (IEC 62053-22)	Class (kVARh) (IEC 62053-23)	Communications (protocol)	Memory (stored events)	Item Type	Catalogue No.	\$AU
5 (6A max)	0.5	2	Modbus RTU (Serial) Modbus TCP (Ethernet)	10000	I	WM50AV53HBC	2,109.00

Split-core Current Transformers



TCD12BS32AE

Item Description	Compatible (meter series)	Item Type	Catalogue No.	\$AU
Split-Core Current Transformer 12 Channel for WM50 Max 65A	WM50	I	TCD12BS32AE	1,087.00

Current Transformer Cables

Item Description	Item Type	Catalogue No.	\$AU
Accessory Connection Cable For TCD12 100cm	I	TCD12WSS2TI100	141.00
Accessory Connection Cable For TCD12 300cm	I	TCD12WSS2TI300	178.00

Multifunction Meter Optional Modules

Digital I/O Modules

Optional modules for all of Carlo Gavazzi modular metering systems.

Digital I/O Modules

Digital Inputs (qty x type)	Digital Output (qty x type)	Compatible (meter series)	Item Type	Catalogue No.	\$AU
6 x Voltage Free	4 x CO Relay, Isolated	WM40	I	MF16R4	858.00

Communications Modules

Optional modules for all of Carlo Gavazzi modular metering systems.

Communications Modules

Communications (protocol)	Memory (stored events)	Compatible (meter series)	Item Type	Catalogue No.	\$AU
Modbus RTU (Serial) RS-485 RS-232		WM40, WM50	I	MC485232	333.00
Ethernet TCP/IP Modbus TCP (Ethernet) BACnet/IP		WM40, WM50	I	MCETH	858.00
Modbus RTU (Serial) RS-485 RS-232	10000	WM40	I	MC485232M	1,014.00



MC485232M

Power and Multifunction Meters

IME Power and Multifunction Meters

2



- Quick and easy to install
- Compact modern design
- High accuracy monitoring and measurement to IEC 62053-21
- Easy to read and configure
- Options for remote communication

The DIN-rail mounted Nemo D4LE and panel mounted Nemo 96HD multifunction meters cover energy metering requirements from basic kWh recording to power quality analysis.

IME Energy Meters

IME's range of DIN mounted Conto energy meters measure basic parameters and record energy. Available in 3-phase models.

Conto D6

The Conto D6 energy meter is a 3-phase, 4-wire direct connect meter for measurements up to 100A. Featuring pulse outputs with an option for RS485 communication, the Conto D6 can measure total and partial energy, both active and reactive. As well as this, the Conto D6 has two tariff management inputs, and can measure voltage, frequency, and power factor.



CE6DT1256

Ie (A)	Class (kWh) (IEC 62053-21)	Tariff Management (inputs)	Output(s) (qty x type)	Communications (protocol)	Item Type	Catalogue No.	\$AU
10 (100A max)	1	2	1 x Pulse Output	Modbus RTU (Serial)		CE6DT1256	1,455.00

IME Multifunction Meters

IME's range of three-phase multifunction meters are available in DIN mount or panel mount with options for different communications protocols and outputs. Measuring all system variables and storing demand values.

Nemo D4-LE

The Nemo D4-LE is a compact 4 DIN module multifunction meter measuring all system variables including harmonic currents and voltages up to the 50th harmonic order. This series provides the options for pulse output, native serial MODBUS or native BACnet communication protocol.

Nemo D4-LE meters are also available with rogowski coils, perfect for retrofit applications. Contact NHP for more details.

Nemo D4-LE Meter Bases



MFD4411

CT Secondary Input (A)	Class (kWh) (IEC 61557-12)	Class (kVARh) (IEC 61557-12)	Output(s) (qty x type)	Communications (protocol)	Item Type	Catalogue No.	\$AU
5 (6A max)	0.5	1	2 x Pulse Relay Output			MFD4411	1,014.00
5 (6A max)	0.5	1	2 x Pulse Relay Output	Modbus RTU (Serial) RS-485		MFD4421	1,136.00
5 (6A max)	0.5	1	2 x Pulse Relay Output	BACnet MS/TP RS-485		MFD44B1	1,421.00

Nemo 72-LE

The Nemo 72-L is a 72x72mm panel mount multifunction meter. Measuring all system variables and available with high level communications or pulse output.

CT Secondary Input (A)	Class (kWh) (IEC 61557-12)	Class (kVARh) (IEC 61557-12)	Output(s) (qty x type)	Communications (protocol)	Item Type	Catalogue No.	\$AU
5 (6A max)	0.5	1	3	RS-485 Modbus RTU (Serial) Modbus TCP (Ethernet)		MF72421	1,234.00

Nemo 96HD

The Nemo 96 HD is a modular three-phase multifunction meter measuring all system variables including min / max demand values and harmonic distortion for current and voltage up to the 22nd harmonic.

The Nemo 96HD+ provides additional functionality that make it suitable for both LV and MV applications with programmable VT ratio from 1 to 1500. Direct input up to 690V (Ph-Ph) and using module IF96017 enables measurement of voltage and current harmonics up to the 50th order.

Perfect for retro fit applications, the Nemo96HD with rogowski coil solution is also available in various diameter sizes. Note: Rogowski coils are not sold separately

Refer further below for all available communications protocols and I/O that may be added to the Nemo96HD meters to extend its functionality.

Nemo 96HD Meter Bases

CT Secondary Input (A)	Class (kWh) (IEC 61557-12)	Class (kVARh) (IEC 61557-12)	Item Type	Catalogue No.	\$AU
5	0.5	2		NEMO96HD	1,462.00
5	0.5	2		MF96002	2,031.00



NEMO96HD

Nemo 96HD Kit Options

Item Description	Item Type	Catalogue No.	\$AU
Multifunction Meter NEMO 96HD with Output Module 2 Pulse	K	NEMO96HD3000	1,655.00
Multifunction Meter NEMO 96HD with Communication Module RS485 Modbus	K	NEMO96HD1000	1,818.00
Multifunction Meter NEMO 96HD with Communication Module RS232	K	NEMO96HD2000	1,974.00
Multifunction Meter NEMO 96HD with Communication Module RS485 Modbus and Output Module 2 Pulse	K	NEMO96HD1300	2,020.00
Multifunction Meter NEMO 96HD with 24VDC Auxiliary Supply and Communication Module RS485 Modbus	K	NEMO96HD1000DC	2,274.00
Multifunction Meter NEMO 96HD with Communication Module RS485 Modbus and Memory	K	NEMO96HDM000	2,752.00



NEMO96HD3000

Nemo 96HD with Rogowski

ØCutout (mm)	Class (kWh) (IEC 61557-12)	Class (kVARh) (IEC 61557-12)	Output(s) (qty x type)	Communications (protocol)	Item Type	Catalogue No.	\$AU
80	1	1	1 x Pulse Output	Modbus RTU (Serial) Modbus TCP (Ethernet)		KRNEMOHDLE080	2,982.00
142	1	1	1 x Pulse Output	Modbus RTU (Serial) Modbus TCP (Ethernet)		KRNEMOHDLE142	3,087.00



KRNEMOHDLE080

Nemo 96HD+ Meter Bases

CT Secondary Input (A)	Class(kWh) (IEC 61557-12)	ClasskVARh (IEC 61557-12)	Aux. Supply	Item Type	Catalogue No.	\$AU
(5A max)	0.5	2	80 - 265V AC	I	MF96021	1,671.00



MF96021

Nemo 96HD Optional Modules

Item Description	Item Type	Catalogue No.	\$AU
Accessory NEMO 96HD Output Module 2 Pulse		IF96003	212.00
Accessory NEMO 96HD Alarm Module 2 ALARMS (SPST)		IF96005	359.00
Accessory NEMO 96HD Communication Module RS485 MODBUS		IF96001	538.00
Accessory NEMO 96HD Communication Module BACNET MS/TP		IF96014	776.00
Accessory NEMO 96HD Communication Module Ethernet TCP/IP		IF96015A	1,110.00
Accessory NEMO 96HD Analogue Output Module 2 of (0/4-20mA)		IF96004	1,245.00
Accessory NEMO 96HD Communication Module RS485 Modbus with Memory		IF96012	1,384.00



IF96012

2



MFQ96021

Nemo 96EA

The Nemo 96EA power analyser features 8MB built in memory to allow the storage up to 3000 events as well as energy consumption and real-time variables. In addition to energy and power measurements, the NEMO 96EA captures critical events such as voltage dips, interruptions, sags/swells, flicker, rapid voltage change and THD analysis (individual harmonic analysis up to 40th harmonic). Suitable for LV and MV/HV applications (voltage connection to meter via voltage transformer with maximum primary voltage: 300 kV)

CT Secondary Input (A)	Class (kWh) (IEC 61557-12)	Class (kVARh) (IEC 61557-12)	Item Type	Catalogue No.	\$AU
5	0.5	2		MFQ96021	2,168.00

IME Gateways and Convertors

IME's range of converters allow for simple gateway connections between differing physical networks.



D4CR12

Item Description	Item Type	Catalogue No.	\$AU
Pulse Acquisition Module with 12 Passive Inputs to RS485 240V Auxiliary		D4CR12	1,530.00

Power and Multifunction Meters

Allen-Bradley Power and Multifunction Meters

- Quick and easy to install
- Modern design
- High accuracy monitoring and measurement to IEC 62053-21
- Easy to read and configure
- Options for remote communication including Ethernet/IP
- Very high sample rate to capture harmonics and sub transients
- User settable alarm configuration

The Allen-Bradley range of power and multifunction meters cover basic transducer style metering up to high end power analysis.

PM500 Energy Meter

The PM500 96x96mm panel mount energy meter gives clear indication of variables on a large screen and is available with communications and/or pulse output for alarming or energy counting.

CT Secondary Input (A)	Class (kWh) (IEC 62053-21)	Communications (protocol)	L-N Voltage Range (VAC (RMS))	L-L Voltage Range (VAC (RMS))	Number of Outputs	Item Type	Catalogue No.	\$AU
5 (6A max)	1	EtherNet/IP	40 - 144	277 - 144			1420-V1-ENT	1,670.58
5 (6A max)	1	EtherNet/IP	160 - 480	277 - 480	1		1420-V2-ENT	1,670.58
5 (6A max)	1	EtherNet/IP	160 - 480	277 - 480	2		1420-V2P-ENT	1,811.62



1420-V1-ENT

PM1000 Energy Meter

The PM1000 DIN mount series ranges across basic transducer type up to three-phase power and energy monitoring. It has an onboard webserver for configuration and real time variables and has options for multiple communications.

Energy Monitors

CT Secondary Input (A)	Class (kWh) (IEC 62053-21)	Communications (protocol)	Measuring Parameters	Item Type	Catalogue No.	\$AU
5	1	EtherNet/IP Modbus RTU (Serial)	Basic Consumption and Troubleshooting Monitoring		1408-TS3A-ENT	1,290.91
5	1	EtherNet/IP Modbus RTU (Serial)	Basic Consumption and Troubleshooting, Energy, Demand (Projected and Actual) and Power (Including Power Factor) Monitoring		1408-EM3A-ENT	1,692.29



1408-TS3A-ENT

PM5000 Power Analyser

The PM5000 high end power analyser gives detailed monitoring of three-phase systems, with an extremely high sample rate, it is possible to monitor up to the 127th harmonic data, sags and swells and many other variables. Models available with Ethernet/IP comms as standard. ControlNet, Devicenet protocol also available. Note: optional screen available - 1426DM.

CT Secondary Input (A)	Class (kWh) (IEC 62053-22)	Communications (protocol)	Features	Item Type	Catalogue No.	\$AU
5 (15.6A max)	0.2	EtherNet/IP	Basic		1426-M5E	2,657.76
5 (15.6A max)	0.2	EtherNet/IP DeviceNet	Basic	I	1426-M5E-DNT	3,037.43
5 (15.6A max)	0.2	EtherNet/IP	Standard		1426-M6E	5,326.35
5 (15.6A max)	0.2	EtherNet/IP	Advanced		1426-M8E	8,439.71



1426-M5E

Display Modules

Item Description	Item Type	Catalogue No.	\$AU
Powermonitor 5000 display module		1426-DM	1,022.96



1426-DM

Analogue and Digital Meters

IME Analogue Meters

2



- Accuracy class 1.5 (AS 60051)
- 600V operational voltage rating
- Operating temperature -25 to +50°C
- Ammeter overload parameters: 1.2 x I_n continuous / 10 x I_n for 5s
- Voltmeter overload parameters: 1.2 x U_n continuous / 2 x U_n for 5s
- IP52 rated front frame

NHP offer a comprehensive range of IME voltmeters, ammeters and many other analogue measurement devices. Available in both AC and DC, direct connected or via transformers, transducers or shunts. These meters are available as 48, 72 and 96mm panel mount form.

Further options across the range are available upon request.

Panel Mount AC Ammeters

90° Deflection Direct Connect

48 x 48mm Frame Size



RQ48E AAC 5A

Input (range)	Display (range)	Item Type	Catalogue No.	\$AU
0 ... 5A	0 ... 5A		RQ48E AAC 5A	153.00
0 ... 10A	0 ... 10A		RQ48E AAC 10A	153.00
0 ... 15A	0 ... 15A		RQ48E AAC 15A	156.00
0 ... 20A	0 ... 20A		RQ48E AAC 20A	156.00

72 x 72mm Frame Size



RQ72E AAC 100A

Input (range)	Display (range)	Item Type	Catalogue No.	\$AU
0 ... 5A	0 ... 5A		RQ72E AAC 5A	129.00
0 ... 10A	0 ... 10A		RQ72E AAC 10A	129.00
0 ... 15A	0 ... 15A		RQ72E AAC 15A	129.00
0 ... 20A	0 ... 20A		RQ72E AAC 20A	129.00
0 ... 25A	0 ... 25A		RQ72E AAC 25A	129.00
0 ... 30A	0 ... 30A		RQ72E AAC 30A	129.00
0 ... 40A	0 ... 40A		RQ72E AAC 40A	129.00
0 ... 50A	0 ... 50A		RQ72E AAC 50A	160.00
0 ... 60A	0 ... 60A		RQ72E AAC 60A	160.00
0 ... 80A	0 ... 80A		RQ72E AAC 80A	160.00
0 ... 100A	0 ... 100A		RQ72E AAC 100A	160.00

96 x 96mm Frame Size

Input (range)	Display (range)	Item Type	Catalogue No.	\$AU
0 ... 5A	0 ... 5A		RQ96E AAC 5A	144.00
0 ... 10A	0 ... 10A		RQ96E AAC 10A	144.00
0 ... 15A	0 ... 15A		RQ96E AAC 15A	144.00
0 ... 20A	0 ... 20A		RQ96E AAC 20A	144.00
0 ... 30A	0 ... 30A		RQ96E AAC 30A	144.00

90° Deflection CT Connect

48 x 48mm Frame Size

Input (range)	Display (range)	Item Type	Catalogue No.	\$AU
0 ... 5A	0 ... 5A	K	RQ48EACT5A5X5	135.00
0 ... 5A	0 ... 10A	K	RQ48EACT5A5X10	135.00
0 ... 5A	0 ... 15A	K	RQ48EACT5A5X15	135.00
0 ... 5A	0 ... 20A	K	RQ48EACT5A5X20	135.00
0 ... 5A	0 ... 25A	K	RQ48EACT5A5X25	135.00
0 ... 5A	0 ... 30A	K	RQ48EACT5A5X30	135.00
0 ... 5A	0 ... 40A	K	RQ48EACT5A5X40	135.00
0 ... 5A	0 ... 50A	K	RQ48EACT5A5X50	135.00
0 ... 5A	0 ... 60A	K	RQ48EACT5A5X60	135.00
0 ... 5A	0 ... 75A	K	RQ48EACT5A5X75	135.00
0 ... 5A	0 ... 80A	K	RQ48EACT5A5X80	135.00
0 ... 5A	0 ... 100A	K	RQ48EACT5A5X100	135.00
0 ... 5A	0 ... 150A	K	RQ48EACT5A5X150	135.00
0 ... 5A	0 ... 200A	K	RQ48EACT5A5X200	135.00
0 ... 5A	0 ... 250A	K	RQ48EACT5A5X250	135.00



RQ48EACT5A5X100

2

72 x 72mm Frame Size

Input (range)	Display (range)	Item Type	Catalogue No.	\$AU
0 ... 5A	0 ... 5A	K	RQ72EACT5A5X5	124.00
0 ... 5A	0 ... 10A	K	RQ72EACT5A5X10	124.00
0 ... 5A	0 ... 15A	K	RQ72EACT5A5X15	124.00
0 ... 5A	0 ... 20A	K	RQ72EACT5A5X20	124.00
0 ... 5A	0 ... 25A	K	RQ72EACT5A5X25	124.00
0 ... 5A	0 ... 30A	K	RQ72EACT5A5X30	124.00
0 ... 5A	0 ... 40A	K	RQ72EACT5A5X40	124.00
0 ... 5A	0 ... 50A	K	RQ72EACT5A5X50	124.00
0 ... 5A	0 ... 60A	K	RQ72EACT5A5X60	124.00
0 ... 5A	0 ... 75A	K	RQ72EACT5A5X75	124.00
0 ... 5A	0 ... 80A	K	RQ72EACT5A5X80	124.00
0 ... 5A	0 ... 100A	K	RQ72EACT5A5X100	124.00
0 ... 5A	0 ... 120A	K	RQ72EACT5A5X120	124.00
0 ... 5A	0 ... 150A	K	RQ72EACT5A5X150	124.00
0 ... 5A	0 ... 200A	K	RQ72EACT5A5X200	124.00
0 ... 5A	0 ... 250A	K	RQ72EACT5A5X250	124.00
0 ... 5A	0 ... 300A	K	RQ72EACT5A5X300	124.00
0 ... 5A	0 ... 400A	K	RQ72EACT5A5X400	124.00
0 ... 5A	0 ... 500A	K	RQ72EACT5A5X500	124.00
0 ... 5A	0 ... 600A	K	RQ72EACT5A5X600	124.00
0 ... 5A	0 ... 750A	K	RQ72EACT5A5X750	124.00
0 ... 5A	0 ... 800A	K	RQ72EACT5A5X800	124.00

2

96 x 96mm Frame Size

Input (range)	Display (range)	Item Type	Catalogue No.	\$AU
0 ... 5A	0 ... 5A	K	RQ96EACT5A5X5	129.00
0 ... 5A	0 ... 10A	K	RQ96EACT5A5X10	129.00
0 ... 5A	0 ... 20A	K	RQ96EACT5A5X20	129.00
0 ... 5A	0 ... 30A	K	RQ96EACT5A5X30A	129.00
0 ... 5A	0 ... 40A	K	RQ96EACT5A5X40	129.00
0 ... 5A	0 ... 50A	K	RQ96EACT5A5X50A	129.00
0 ... 5A	0 ... 60A	K	RQ96EACT5A5X60	129.00
0 ... 5A	0 ... 75A	K	RQ96EACT5A5X75	129.00
0 ... 5A	0 ... 80A	K	RQ96EACT5A5X80	129.00
0 ... 5A	0 ... 100A	K	RQ96EACT5A5X100A	129.00
0 ... 5A	0 ... 120A	K	RQ96EACT5A5X120	129.00
0 ... 5A	0 ... 150A	K	RQ96EACT5A5X150	129.00
0 ... 5A	0 ... 200A	K	RQ96EACT5A5X200	129.00
0 ... 5A	0 ... 250A	K	RQ96EACT5A5X250	129.00
0 ... 5A	0 ... 300A	K	RQ96EACT5A5X300	129.00
0 ... 5A	0 ... 400A	K	RQ96EACT5A5X400	129.00
0 ... 5A	0 ... 500A	K	RQ96EACT5A5X500	129.00
0 ... 5A	0 ... 600A	K	RQ96EACT5A5X600	129.00
0 ... 5A	0 ... 750A	K	RQ96EACT5A5X750	129.00
0 ... 5A	0 ... 1kA	K	RQ96EACT5A5X1KA	129.00
0 ... 5A	0 ... 1.6kA	K	RQ96EACT5A5X1K6	129.00
0 ... 5A	0 ... 2kA	K	RQ96EACT5A5X2K	129.00

Panel Mount AC Voltmeters

90° Deflection Direct Connect

48 x 48mm Frame Size



RQ48E VAC 500V

Input (range)	Display (range)	Frame Size (mm)	Item Type	Catalogue No.	\$AU
0 ... 300V AC	0 ... 300V AC	48 x 48		RQ48E VAC 300V	162.00
0 ... 500V AC	0 ... 500V AC	48 x 48		RQ48E VAC 500V	162.00
0 ... 300V AC	0 ... 300V AC	72 x 72		RQ72E VAC 300V	144.00
0 ... 500V AC	0 ... 500V AC	72 x 72		RQ72E VAC 500V	144.00
0 ... 300V AC	0 ... 300V AC	92 x 92		RQ96E VAC 300V	160.00
0 ... 500V AC	0 ... 500V AC	92 x 92		RQ96E VAC 500V	160.00

90° Deflection VT Connect

Input (range)	Display (range)	Frame Size (mm)	Item Type	Catalogue No.	\$AU
0 ... 110V AC	0 ... 1kV AC	48 x 48		RQ48E VVT 110V 1K IME	228.00
0 ... 110V AC	0 ... 1kV AC	72 x 72		RQ72E VVT 110V 1K IME	228.00
0 ... 110V AC	0 ... 1.1kV AC	92 x 92	I	RQ96E VVT 110V 1K IME	228.00

Panel Mount DC Ammeters

90° Deflection Direct Connect

48 x 48mm Frame Size



RQ48M ADC 1MA

Input (range)	Display (range)	Item Type	Catalogue No.	\$AU
0 ... 1mA	0 ... 1mA	I	RQ48M ADC 1MA	237.00

Frequency Meters

- Transducer and moving operation coil meter offers relative immunity to external vibration
- Moving coil meter and transducer, accuracy class 0.5
- Voltage level tolerance +15%, 4VA burden
- Range of 45-55Hz

Panel Mount Direct Connect with 90° Deflection

Un (V AC)	Display (range)	Frame Size (mm)	Item Type	Catalogue No.	\$AU
110	45 ... 55Hz	96 x 96	I	RQ96FI 110V	409.00
240	45 ... 55Hz	48 x 48		RQ48FI 240V	443.00
240	45 ... 55Hz	72 x 72		RQ72FI 240V	409.00
240	45 ... 55Hz	96 x 96		RQ96FI 240V	409.00
415	45 ... 55Hz	72 x 72		RQ72FI 415V	409.00
415	45 ... 55Hz	96 x 96	I	RQ96FI 415V	409.00



RQ96FI 415V

Hour Run Meters

- 7-digit mechanical counter
- Maximum display

AC Panel Mount

Un (V AC)	Display (range)	Frequency	Frame Size (mm)	Item Type	Catalogue No.	\$AU
24V AC	0 ... 99,999.99h	50 Hz	48 x 48		RQ480 24VAC	142.00
24V AC	0 ... 99,999.99h	50 Hz	72 x 72		RQ720 24V	236.00
110V AC	0 ... 99,999.99h	50 Hz	48 x 48		RQ480 110VAC	118.00
240V AC	0 ... 99,999.99h	50 Hz	48 x 48		RQ480 240VAC	118.00
240V AC	0 ... 99,999.99h	50 Hz	72 x 72		RQ720 240V	228.00
240V AC	0 ... 99,999.99h	50 Hz	96 x 96	I	RQ960 240V	272.00
240V AC	0 ... 99,999.99h	60 Hz	48 x 48		RQ480 240V 60HZ	120.00
415V AC	0 ... 99,999.99h	50 Hz	48 x 48		RQ480 415VAC	144.00



RQ480 240VAC

DC Panel Mount

Un (V DC)	Display (range)	Frame Size (mm)	Item Type	Catalogue No.	\$AU
10 - 80V DC	0 ... 999,999.9h	48 x 48		RQ480 10 80VDC	159.00
10 - 80V DC	0 ... 999,999.9h	72 x 72		RQ720 10 80VDC	304.00



RQ480 10 80VDC

AC DIN Mount

Un (V AC)	Display (range)	Frequency	Item Type	Catalogue No.	\$AU
110V AC	0 ... 99,999.99h	50 Hz	I	D20 110V	237.00
240V AC	0 ... 99,999.99h	50 Hz		D20 240V	237.00



D20 240V

Accessories

Flush Mounting Kits

Item Description	Item Type	Catalogue No.	\$AU
Accessory Flush Mounting Kit for 4 Module Wide DIN Rail Meter	I	FD4	203.00



FD4

2



TC96 144 RQ AQ

Terminal Covers

Item Description	Item Type	Catalogue No.	\$AU
Accessory Terminal Cover 72 (RQ & AQ)		TC72 RQ AQ	7.10
Accessory Terminal Cover 96-144 (RQ & AQ)	I	TC96 144 RQ AQ	7.10

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Analogue and Digital Meters

IME Digital Meters

- High efficiency LED display for easy visualisation
- High accuracy class $\pm 1\%$ for accurate monitoring
- DIN and Panel mount options
- High insulation Voltage (650V) to be used across a broad range of applications.
- Easy Faston connection terminal connections

Range of digital meters in both panel mount and DIN mount versions, available in a number of different configurations.



DIN Mount Digital Meters

Meters come in both ammeter or voltmeter types and AC or DC voltage options. This also includes analogue signal measurement and display for remote reading devices like transducers and PLCs.

- Digital indicator at 3 digits
- Out of scale indication
- Display with green LED (14mm)
- Auxiliary supply 240V AC, 50 / 60 Hz. Other voltages available on request

Aux. Supply (V AC / V DC)	In (A)	Un (V AC / V DC)	Connection (method)	Display (range)	Display (units)	Item Type	Catalogue No.	\$AU
48V AC / 20 - 150V DC		100 - 500V AC	Direct connect	Configurable	V AC/DC	I	DGM N0H N6	567.00
115V AC	5	500V AC	Direct connect	Configurable	A, kA, V AC	I	DGM G03 C1	593.00



DGM N0H N6

Panel Mount Digital Meters

Range of programmable current, voltage or frequency AC and DC digital meters. Select frame sizes and display combinations available and useful for applications involving signal measurement and display for remote reading devices like transducers and PLCs.

- AC current and / or voltage measurement at 47 to 420Hz true RMS
- Frequency measurement
- DC current and / or voltage measurement
- Programming by key combination, 2 keys
- Different auxiliary supply options are available - contact NHP for further information

DGP 36 P2k

72 x 36mm frame size

Aux. Supply (V AC / V DC)	In (A)	Un (V AC / V DC)	Connection (method)	Display (range)	Display (units)	Item Type	Catalogue No.	\$AU
230V AC	10	500V AC	Direct connect, CT connect, VT connect	Configurable	V, kV, A, kA		DG3P 06 P5	578.00
115V AC	10	500V AC	Direct connect, CT connect, VT connect	Configurable	V, kV, A, kA	I	DG3P 03 P5	647.00
/ 20 - 150V DC	10	500V AC	Direct connect, CT connect, VT connect	Configurable	V, kV, A, kA	I	DG3P 0M P5	840.00



DG3P 06 P5

DGQ 72 P2k

72 x 72mm frame size

Aux. Supply (V AC / V DC)	In (A)	Un (V AC / V DC)	Connection (method)	Display (range)	Display (units)	Item Type	Catalogue No.	\$AU
115V AC	10	500V AC	Direct connect, CT connect, VT connect	Configurable	V, kV, A, kA	I	DG8P 03 P5	578.00
230V AC	10	500V AC	Direct connect, CT connect, VT connect	Configurable	V, kV, A, kA	I	DG8P 06 P5	578.00
/ 20 - 150V DC	10	500V AC	Direct connect, CT connect, VT connect	Configurable	V, kV, A, kA	I	DG8P 0M P5	840.00



DG8P 06 P5

Current Transformer Selection Guide

SOLID CORE CURRENT TRANSFORMER CABLE TYPE	SOLID CORE CURRENT TRANSFORMER BUSBAR TYPE
--	---



Current Transformer Model	TAIBB	TA327	TA432	TAS65	TAS102	TAS127
Accuracy Rating	Up to CL 0.5	Up to CL 0.5	Up to CL 0.5	Up to CL 0.5	Up to CL 0.5	Up to CL 0.5
Rated Burden	1VA to 7.5VA	1.5VA to 20VA	1VA to 15VA	1VA to 25VA	8VA to 25VA	2VA up to 30VA
Primary Current Range	40, 50, 60, 70, 75, 80, 100, 120, 125, 150, 200, 250, 300	50, 60, 75, 80, 100, 120, 125, 150, 200, 250, 300, 400, 500, 600	100, 150, 200, 250, 300, 400, 500, 600, 750, 800, 1000	500, 600, 750, 800, 1000, 1200, 1500	1000, 1200, 1250, 1500, 1600, 2000, 2500, 3000	1500, 1600, 2000, 2500, 3000, 4000
Secondary Current Options	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A
Window Size	Ø21mm	Ø27mm	Ø32mm	65mm x 32mm	102mm x 38mm	127mm x 38mm
Mounting Options	Screw or DIN rail mounted	Screw or DIN rail mounted	Screw or DIN rail mounted	Screw or busbar mounted	Screw or busbar mounted	Screw or busbar mounted
Part Number	TAIBBXXXYA ¹⁾	TA327XXXYA ²⁾	TA432XXXYA ¹⁾	TAS65XXXYA ¹⁾	TAS102XXXYA ¹⁾	TAS127XXXYA ¹⁾
Page	278	278	279	279	279	280

H1302D_dCHRT-501

SPLIT CORE CURRENT TRANSFORMER

PRIMARY
CURRENT WOUND
TRANSFORMERS

TRA230	TRA580	TRA812	TRA816	TAQ10
Up to CL 0.5	Up to CL 0.5	Up to CL 0.5	Up to CL 0.5	Up to CL 0.5
1VA to 6VA	1VA to 10VA	3VA to 15VA	15VA to 25VA	10VA or 15VA
60, 100, 150, 200, 250, 300, 400	250, 300, 400, 500, 600, 800, 1000	500, 600, 800, 1000, 1200, 1500	2000, 2500, 3000, 4000, 5000	10, 25
5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A
20mm x 30mm	50mm x 80mm	80mm x 120mm	80mm x 160mm	NA
Screw or busbar mounted	Screw or busbar mounted	Screw or busbar mounted	Screw or busbar mounted	Screw Mounted
TRA230XXXYA ¹⁾	TRA580XXXYA ¹⁾	TRA812XXXYA ¹⁾	TRA816XXXYA ¹⁾	TAQXXXYA ¹⁾
281	281	281	281	280

Current transformers are a vital component of your energy metering requirements. NHP has a complete range of meters to meet your needs - follow the links below to view our products and solutions:

portal.nhp.com.au/energy-management-and-building-automation/

nhp.com.au/Page/Media/Catalogues-and-Literature/Brochures/Metering

Note: 1) In order to build the part number required, replace the XXX with the desired primary current option and Y with the desired secondary current option.

Transducers and Transformers

IME Solid Core Current Transformers

2



- Available in a broad range of primary currents 40 to 6000A
- 5A secondary (1A secondary available upon request)
- Cable or Busbar type
- Solid core
- High accuracy Class 0.5

IME solid core current transformers are highly accurate and cover a broad range of sizes and form factors that suit busbar, cable or protection class applications.

Cable Type Current Transformers

TAIBB

Core hole size of 21mm diameter.



TAIBB 40/5A

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Burden CL 3 (VA)	Primary (A)	Secondary (A)	Item Type	Catalogue No.	\$AU
		1	40	5		TAIBB 40/5A	79.00
	1	1.5	50	5		TAIBB 50/5A	80.00
	1	2	60	5		TAIBB 60/5A	80.00
	1.5	2.5	70	5		TAIBB 70/5A	80.00
	1.5	2.5	75	5		TAIBB 75/5A	80.00
	1.5	2.5	80	5		TAIBB 80/5A	80.00
1.5	2.5		100	5		TAIBB 100/5A	79.00
2	3.5		120	5		TAIBB 120/5A	80.00
2	3.5		125	5		TAIBB 125/5A	80.00
3	4		150	5		TAIBB 150/5A	80.00
4	5.5		200	5		TAIBB 200/5A	80.00
5	6		250	5		TAIBB 250/5A	80.00
6	7.5		300	5		TAIBB 300/5A	80.00
		1	40	1		TAIBB 40/1A	118.00
	1	1.5	50	1		TAIBB 50/1A	118.00

TA327

Core hole size of 27mm diameter.



TA3271205A

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Burden CL 3 (VA)	Primary (A)	Secondary (A)	Item Type	Catalogue No.	\$AU
		1.5	50	5		TA327505A	75.00
		2.5	60	5		TA327605A	75.00
	1.5	3	75	5		TA327755A	75.00
	2.5	3.5	80	5		TA327805A	75.00
1.5	3		100	5		TA3271005A	75.00
2	3.5		120	5		TA3271205A	75.00
2	3.5		125	5		TA3271255A	75.00
3	4		150	5		TA3271505A	75.00
4	7		200	5		TA3272005A	75.00
6	8		250	5		TA3272505A	75.00
8	10		300	5		TA3273005A	75.00
10	12		400	5		TA3274005A	83.00
12	15		500	5		TA3275005A	93.00
15	20		600	5		TA3276005A	93.00
		1.5	50	1		TA327501A	127.00
1.5	3		100	1		TA3271001A	127.00
4	7		200	1		TA3272001A	127.00
8	10		300	1	I	TA3273001A	136.00

TA432

Core hole size of 32mm diameter.

Burden CL 0.5	Burden CL 1 (VA)	Burden CL 3 (VA)	Primary (A)	Secondary (A)	Item Type	Catalogue No.	\$AU
1	2	5	100	5		TA4321005A	91.00
3	3		150	5		TA4321505A	95.00
3	5		200	5		TA4322005A	95.00
3	5		250	5		TA4322505A	95.00
5	8		300	5		TA4323005A	95.00
8	10		400	5		TA4324005A	114.00
10	12		500	5		TA4325005A	115.00
12	15		600	5		TA4326005A	115.00
10	12		750	5		TA4327505A	128.00
10	12		800	5		TA4328005A	128.00
12	15		1000	5		TA43210005A	128.00



TA4321005A

Busbar Type Current Transformers**TAS63**

Burden CL 0.5	Burden CL 1	Primary (A)	Secondary (A)	Item Type	Catalogue No.	\$AU
2.5	2.5	250	5		TAS63P2505A	252.00
3.5	3.5	300	5	I	TAS63P3005A	252.00
4	4	400	5		TAS63P4005A	252.00
6	6	600	5		TAS63P6005A	278.00
7	7	800	5	I	TAS63P8005A	357.00



TAS63P4005A

TAS65

Window size of 65mm x 32mm.

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Primary (A)	Secondary (A)	Orientation (mounting)	Item Type	Catalogue No.	\$AU
8	10	500	5	Vertical		TAS65 500/5A	128.00
8	12	600	5	Vertical		TAS65 600/5A	128.00
12	15	800	5	Vertical		TAS65 800/5A	166.00
10	15	750	5	Vertical		TAS65 750/5A	168.00
15	20	1000	5	Vertical		TAS65 1000/5A	168.00
15	20	1200	5	Vertical		TAS65 1200/5A	188.00
20	25	1500	5	Vertical		TAS65 1500/5A	240.00
8	10	500	5	Horizontal		TAS65H 500/5A	128.00
8	12	600	5	Horizontal		TAS65H 600/5A	128.00
10	15	750	5	Horizontal		TAS65H 750/5A	168.00
12	15	800	5	Horizontal		TAS65H 800/5A	168.00
15	20	1000	5	Horizontal		TAS65H 1000/5A	168.00
15	20	1200	5	Horizontal		TAS65H 1200/5A	188.00
20	25	1500	5	Horizontal		TAS65H 1500/5A	240.00



TAS65H 600/5A

TAS102

Window size of 102mm x 38mm.

TAS102 102X38mm

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Primary (A)	Secondary (A)	Orientation (mounting)	Item Type	Catalogue No.	\$AU
10	12	1000	5	Vertical		TAS102 1000/5A	202.00
12	15	1200	5	Vertical		TAS102 1200/5A	248.00
12	15	1250	5	Vertical		TAS102 1250/5A	248.00
12	15	1500	5	Vertical		TAS102 1500/5A	248.00
12	15	1600	5	Vertical		TAS102 1600/5A	300.00
20	25	2000	5	Vertical		TAS102 2000/5A	328.00
20	25	2500	5	Vertical		TAS102 2500/5A	328.00
20	25	3000	5	Vertical		TAS102 3000/5A	382.00
10	12	1000	5	Horizontal		TAS102H 1000/5A	202.00
12	15	1200	5	Horizontal		TAS102H 1200/5A	248.00
12	15	1250	5	Horizontal		TAS102H 1250/5A	248.00
12	15	1500	5	Horizontal		TAS102H 1500/5A	248.00
12	15	1600	5	Horizontal		TAS102H 1600/5A	302.00
20	25	2000	5	Horizontal		TAS102H 2000/5A	331.00
20	25	2500	5	Horizontal		TAS102H 2500/5A	331.00
20	25	3000	5	Horizontal		TAS102H 3000/5A	382.00
8	10	800	5	Vertical		TAS1028005A	202.00



TAS102H 1000/5A

2



TAS102B15005A

TAS102B 102X54mm

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Primary (A)	Secondary (A)	Item Type	Catalogue No.	\$AU
20	25	1500	5	I	TAS102B15005A	324.00
20	25	1600	5	I	TAS102B16005A	390.00
25	30	2500	5	I	TAS102B25005A	390.00

TAS127

Window size of 127mm x 38mm.



TAS127B 1500/5A

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Primary (A)	Secondary (A)	Orientation (mounting)	Item Type	Catalogue No.	\$AU
20	30	1500	5	Vertical		TAS127B 1500/5A	290.00
20	30	1600	5	Vertical		TAS127B1600/5A	290.00
25	30	2000	5	Vertical		TAS127B 2000/5A	290.00
30	50	2500	5	Vertical		TAS127B 2500/5A	339.00
30	50	3000	5	Vertical		TAS127B 3000/5A	339.00
30	50	4000	5	Vertical		TAS127B 4000/5A	403.00
20	30	1500	5	Horizontal	I	TAS127BH 1500/5A	290.00
20	30	1600	5	Horizontal		TAS127BH 1600/5A	290.00
25	30	2000	5	Horizontal		TAS127BH 2000/5A	290.00
30	50	2500	5	Horizontal		TAS127BH 2500/5A	339.00
30	50	3000	5	Horizontal		TAS127BH 3000/5A	339.00
30	50	4000	5	Horizontal		TAS127BH 4000/5A	406.00

Primary Wound Current Transformers



TAQ10 25/5

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Primary (A)	Secondary (A)	Item Type	Catalogue No.	\$AU
10	15	10	5	I	TAQ10 10/5	246.00
10	15	25	5	I	TAQ10 25/5	246.00

Accessories

Item Description	Item Type	Catalogue No.	\$AU
Sealable Terminal Cover for TAS	I	TC-TAS65-105-127B	34.00

Transducers and Transformers

IME Split Core Current Transformers

- Broad range of primary currents from 60 to 5000A
- 5A secondary (with 1A secondary available upon request)
- High accuracy Class 0.5
- Quick release button for fast and easy installation

IME split core transformers are a highly accurate type of current transformer with excellent capabilities for a retrofit environment, with a broad range of primary current options and window sizes.

TRA230 (20x30mm window)

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Burden CL 3 (VA)	Primary (A)	Secondary (A)	Window H x W (mm)	Item Type	Catalogue No.	\$AU
		1	60	5	30 x 20	I	TRA230-60-5A	346.00
		1.5	100	5	30 x 20		TRA230-100-5A	346.00
	1.5	2.5	150	5	30 x 20		TRA230-150-5A	346.00
1	2.5		200	5	30 x 20		TRA230-200-5A	346.00
1.5	3		250	5	30 x 20		TRA230-250-5A	346.00
1.5	4		300	5	30 x 20	I	TRA230-300-5A	346.00
2.5	6		400	5	30 x 20		TRA230-400-5A	346.00



TRA230-60-5A

TRA580 (50x80mm window)

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Primary (A)	Secondary (A)	Window H x W (mm)	Item Type	Catalogue No.	\$AU
1	2	250	5	80 x 50		TRA580250/5A	390.00
1.5	3	300	5	80 x 50	I	TRA580300/5A	390.00
1.5	3	400	5	80 x 50		TRA580400/5A	394.00
2.5	5	500	5	80 x 50	I	TRA580500/5A	421.00
2.5	5	600	5	80 x 50		TRA580600/5A	433.00
3	7	800	5	80 x 50		TRA580800/5A	433.00
5	10	1000	5	80 x 50		TRA5801000/5A	456.00



TRA580250/5A

TRA812 (80x120mm window)

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Burden CL 3 (VA)	Primary (A)	Secondary (A)	Window H x W (mm)	Item Type	Catalogue No.	\$AU
	4	12	500	5	120 x 80	I	TRA812500/5A	433.00
	5	14	600	5	120 x 80		TRA812600/5A	456.00
3	7		800	5	120 x 80		TRA812800/5A	456.00
5	10		1000	5	120 x 80	I	TRA8121000/5A	471.00
6	11		1200	5	120 x 80		TRA8121200/5A	501.00
8	15		1500	5	120 x 80		TRA8121500/5A	547.00



TRA812500/5A

TRA816 (80x160mm window)

Burden CL 0.5 (VA)	Burden CL 1 (VA)	Primary (A)	Secondary (A)	Window H x W (mm)	Item Type	Catalogue No.	\$AU
15	20	2000	5	160 x 80		TRA8162000/5A	792.00
15	20	2500	5	160 x 80		TRA8162500/5A	792.00
20	25	3000	5	160 x 80		TRA8163000/5A	802.00
20	25	4000	5	160 x 80	I	TRA8164000/5A	859.00
20	25	5000	5	160 x 80	I	TRA8165000/5A	921.00



TRA8162500/5A

Transducers and Transformers

IME Transducers

2



- Available for AC or DC measurement
- Multiple selectable DC outputs 0 to 5/10/20mA, 4 to 20mA, 10V
- Compact DIN mount design
- Basic or Field programmable units available

IME offers a comprehensive range of transducers for AC and DC voltage and current as well as fully programmable units.



TM3I310

AC Current Transducers

Input (range)	Output (range)	Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
0 ... 1A	0 ... 20mA			TM2IA34	547.00
0 ... 1A	0 ... 10mA 0 ... 5mA 0 ... 20mA 4 ... 20mA	115V AC	I	TM3I210	627.00
0 ... 5A	0 ... 5mA 0 ... 10mA 0 ... 20mA 4 ... 20mA	115V AC		TM3I230	627.00
0 ... 1A	0 ... 20mA 4 ... 20mA 0 ... 5mA 0 ... 10mA	240V AC	I	TM3I310	627.00
0 ... 5A	0 ... 20mA 4 ... 20mA 0 ... 5mA 0 ... 10mA	240V AC		TM3I330	627.00
0 ... 6A	0 ... 5mA 0 ... 10mA 0 ... 20mA 4 ... 20mA			TM3IH30	905.00



TM3U370

AC Voltage Transducers

Input (range)	Output (range)	Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
0 ... 250V AC	0 ... 5mA 0 ... 10mA 0 ... 20mA 4 ... 20mA 0 ... 5V AC 0 ... 10V AC 2 ... 10V AC	240V AC	I	TM3U370	627.00

Combined Current Transformers/Transducers

Combined AC Current Transformer and Transducer

Input (range)	Output (range)	Supply (V AC / V DC)		Internal Ø (mm)	Item Type	Catalogue No.	\$AU
5 ... 45A	4 ... 20mA	10 - 34V DC		35		TT35 10-30V 5-45A	969.00
25 ... 225A Configurable	4 ... 20mA	10 - 34V DC	2-Wire	35		TT351030VDC	969.00
50 ... 450A	4 ... 20mA	10 - 34V DC		35	I	TT1AB502A	979.00
25 ... 225A Configurable	4 ... 20mA	115V AC	4-Wire	35	I	TT35A110VAC	979.00
25 ... 225A Configurable	4 ... 20mA	240V AC	4-Wire	35		TT35A240VAC	979.00



TT35A240VAC

BMS and Lighting Control

Carlo Gavazzi Smart Dupline BMS

- Long transmission distance (up to 5km without the need for a signal repeater or booster)
- Free wiring topology
- Centralised and de-centralised solution
- Bus-powered sensors and detectors
- Easy handling
- No special cable requirements
- Robust and noise immune
- Cost effective

The Smart Dupline series in conjunction with the UWP 3.0 is Carlo Gavazzi's modular concept for Smart Buildings. Connect up to 7 Smart Dupline controllers to the UWP 3.0 directly via a local bus connector.

Smart Dupline Master Channel Generator

SH2MCG24 master channel generator provides the channel generator output drive for one Dupline network in a Smart Dupline system controlled by the UWP 3.0. Up to 7 MCGs can be connected on the same network. Connection to UWP 3.0 via internal bus or terminals via the high speed bus. It provides power and communication for the connected Dupline modules and has compact 2-DIN housing and DC power supply. Up to 250 devices can be connected to one MCG. The MCG can have 120 DI and 112 DO connected via the high speed bus.

- Master Channel Generator for one Dupline bus segment
- Capacity for 120 x DI, 116 x DO, 256 x AI / AO
- Provides power and communication for the connected Dupline modules
- Compact 2-DIN housing
- DC Power Supply

Item Description	Item Type	Catalogue No.	\$AU
Carlo Gavazzi's Smart Dupline Master Channel Generator	I	SH2MCG24	330.00



SH2MCG24

Smart Dupline Lighting Control

SB2DALI230 is a DALI Master for Smart Dupline. The unit can be connected to the Smart Dupline bus at any point, and up to 64 lighting ballasts can be connected to the DALI bus output. Up to 7 SB2DALI230 units can be connected to one Smart Dupline MCG bus and up to 16 groups on one DALI bus. It is a de-centralised module powered by 230 VAC and has a built-in Dali power supply. Lighting control functions are performed by the UWP 3.0.

Item Description	Item Type	Catalogue No.	\$AU
Carlo Gavazzi's Smart Dupline Lighting Control	I	SB2DALI230	658.00



SB2DALI230

Smart Dupline Modules

Smart Dupline system consists a series of centralised or de-centralised I/O modules i.e either bus powered or conventionally powered.

- Series of lighting devices
- Blind and awning control
- Alarms
- Energy savings
- Generic Digital and Analogue I/O

Digital Input Modules

Carlo Gavazzi's Smart Dupline Decentralised Digital Input Contacts.

Digital In (qty)	Digital In (type)	Digital In (range)	Bus Powered (Y / N)	Dimensions (mm)	Item Type	Catalogue No.	\$AU
4	Voltage-Free Contact	0 ... 20mA	Yes	28 x 28 x 10	I	BDBINCON4U	72.00
8	Voltage-Free Contact	0 ... 20mA	Yes	28 x 28 x 10	I	BDBINCON8U	86.00
1	100/120V AC, Isolated	90 ... 265V AC	Yes	39 x 26 x 17	I	BDAINVOLU	117.00
4	Counter/Voltage-Free Contact	0 ... 100Hz	Yes	28 x 28 x 10	I	SHPINCNT4	126.00
4	5V DC Snk/Src/Voltage Free/Counter	0 ... 6V DC	No, 15 - 30V DC	2 DIN modules	I	SH2INDI424	285.00



SHPINCNT4

2



BDBIOP8U

Digital Input/Output Modules

Digital In (qty)	Digital In (type)	Digital Out (qty)	Digital Out (type)	Bus Powered (Y / N)	Dimensions (mm)	Item Type	Catalogue No.	\$AU
4	NO Relay AC/DC	4	8V DC Source	Yes	28 x 28 x 10	I	BDBIOP8U	94.00
4	NO Relay AC/DC	4	3.3V DC Source	Yes	28 x 28 x 10	I	BDBIOP8AU	103.00

Digital Output Modules

Carlo Gavazzi's Smart Dupline Decentralised / Centralised Digital Output Relays



SH2RE16A4

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Bus Powered (Y / N)	Dimensions (mm)	Item Type	Catalogue No.	\$AU
1	NO Relay AC/DC	0 ... 250V AC/DC	Yes	26 x 39 x 17	I	BDARE13AU	133.00
4	NO Triac AC/DC	0 ... 24V AC	No, 15 - 30V DC	2 DIN modules	I	SH2SSTRI424	305.00
4	NO Relay AC/DC	0 ... 250V AC/DC	Yes	2 DIN modules	I	SH2RE16A4	323.00
4	NO Relay AC/DC	0...250V AC / 0 ...30V DC	No, 15 - 30V DC	2 DIN modules	I	SH2RE1A424	323.00
2	NO Relay AC/DC + Energy Metering	0 ... 250V AC/DC	No, 115 - 240V AC	2 DIN modules	I	SH2RE16A2E230	377.00

Analogue Output Modules

Carlo Gavazzi's Smart Dupline Dimmer Analogue Outputs



SH2D500W1230

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Bus Powered (Y / N)	Dimensions (mm)	Item Type	Catalogue No.	\$AU
1	Dimmer, Power MOSFET	0...500W	No, 115 - 240V AC	2 DIN modules	I	SH2D500W1230	330.00
1	Dimmer, Power MOSFET	0...500W	No, 90 - 260V AC	50 x 30 x 18	I	SH2D500W230	395.00
4	Dimmer, Electronic Ballast	0 ... 10V DC	No, 15 - 30V DC	2 DIN modules	I	SH2D10V424	455.00

PIR and Lux Meters



SHA4XP90L

Lighting In (type)	Lighting In (range)	Bus Powered (Y / N)	Dimensions (mm)	Item Type	Catalogue No.	\$AU
PIR Sensor	150° 0 ... 10m	Yes	44 x 44 x 43	I	SHA4XP150	205.00
PIR Sensor	0 ... 10m 150°	Yes	55 x 55 x 42.6	I	SHE5XP150	222.00
PIR Sensor + Luxmeter		Yes	44 x 44 x 35.3	I	SHA4XP90L	238.00
PIR Sensor + Luxmeter	0 ... 10m 90° 0 ... 20klx	Yes	55 x 55 x 35.3	I	SHE5XP90L	251.00
PIR Sensor + Luxmeter	0 ... 8m 90° 0 ... 20klx	Yes	Ø76 x 25	I	SHSBP90L	272.00
PIR Sensor + Luxmeter	0 ... 10m 150° 0 ... 20klx	Yes	44 x 44 x 43	I	SHA4XP150L	277.00
PIR Sensor + Luxmeter	0 ... 10m 150° 0 ... 20klx	Yes	55 x 55 x 42.6	I	SHE5XP150L	291.00
PIR Sensor + Luxmeter	0 ... 12m 90° 0 ... 20klx	Yes	104 x 52 x 62	I	SHSDP90L	291.00
PIR Sensor + Luxmeter	0 ... 13m 90° 0 ... 20klx	Yes	67 x 52 x 34	I	SHSPP90LA	344.00
PIR Sensor + Luxmeter	0 ... 13m 90° 0 ... 20klx	Yes	67 x 52 x 34	I	SHSPP90L	349.00

Environmental Sensors

Environment In (type)	Environment In (range)	Display (Y / N)	Bus Powered (Y / N)	Dimensions (mm)	Item Type	Catalogue No.	\$AU
Temperature	-20 ... 50°C	No	Yes	80 x 90 x 26	I	SHSUT	194.00
Temperature	-40 ... 60°C	No	Yes	68.3 x 35 x 15	I	BSITEMANABU	298.00
Temperature	-40 ... 60°C	No	Yes	68.3 x 35 x 15	I	BSITEMANAU	298.00
Temperature + Humidity	-20 ... 50°C 0 ... 100% RH	No	Yes	80 x 90 x 26	I	SHSUTH	330.00
Temperature Sensor + Controller	-10 ... 50°C	Yes, LED Sequence	Yes	44 x 44 x 28.6	I	SHA4XTEMDIS	344.00
Temperature Sensor + Controller	-10 ... 50°C	Yes, LED Sequence	Yes	55 x 55 x 28.4	I	SHE5XTEMDIS	357.00
CO ₂ + Temperature	0 ... 2,000ppm -20 ... 50°C	No	Yes	80 x 90 x 26	I	SHSUCOT	777.00
CO ₂ + Temperature	0 ... 2,000ppm -20 ... 50°C	Yes, LED Traffic Light	Yes	80 x 90 x 26	I	SHSUCOTL	777.00
CO ₂ + Temperature	0 ... 2,000ppm -20 ... 50°C	Yes, LCD	Yes	80 x 90 x 26	I	SHSUCOTD	882.00
CO ₂ + Temperature + Humidity	0 ... 2,000ppm -20 ... 50°C 0 ... 100% RH	No	Yes	80 x 90 x 26	I	SHSUCOTH	882.00
CO ₂ + Temperature + Humidity	0 ... 2,000ppm -20 ... 50°C 0 ... 100% RH	Yes, LED Traffic Light	Yes	80 x 90 x 26	I	SHSUCOTHL	882.00
CO ₂ + Temperature + Humidity	0 ... 2,000ppm -20 ... 50°C 0 ... 100% RH	Yes, LCD	Yes	80 x 90 x 26	I	SHSUCOTHD	1,001.00



BSITEMANAU

Roller Blind Modules

Smart Dupline temperature controller with display that shows current room temperature, floor temperature and outdoor temperature. Smart Dupline up / down control for two AC/DC rollerblind motors with DC power supply and 5A relay load.

- Temperature controller that turns heating and cooling on / off
- Set desired room / floor temperature
- Energy Save through 3 heating setpoints and 3 cooling setpoints
- 2 DIN housing for AC/DC rollerblind motor controls with LED indication and connection to other cabinet modules via local bus

Function (type)	Function (details)	Bus Powered (Y / N)	Dimensions (mm)	Item Type	Catalogue No.	\$AU
Rollerblind Control - Remote AC/DC Motor	Up / Down control, 1xSPST + 1xSPDT relay outputs	No, 195.5 - 264.5V AC	50 x 50 x 30	I	SHDRODC230	311.00
Rollerblind Control - 2 x AC Motor	Up / Down control, 2xSPST + 2xSPDT relay outputs	No, 15 - 30V DC	2 DIN modules	I	SH2ROAC224	383.00
Rollerblind Control - 2 x DC Motor	Up / Down control, 2xSPST + 2xSPDT relay outputs	No, 15 - 30V DC	2 DIN modules	I	SH2RODC224	383.00



SHDRODC230

Wireless Modules

Function (type)	Bus Powered (Y / N)	Dimensions (mm)	Item Type	Catalogue No.	\$AU
Window Open/Closed	No, 3V DC	60 x 30 x 115	I	SHDWWISEN	178.00
Window Open/Closed, Digital Input	No, 3V DC	60 x 30 x 115	I	SHDWWISENIN1	191.00
Wireless Base Module	No, 115 - 240V AC, 19.6 - 28.8V DC	2 DIN modules	I	SH2WBU230	515.00



SHDWWISEN

Communication Modules

Smart Dupline repeater and isolator. It is used to extend the length of the Dupline network when the cable resistance and load from bus-powered devices result in an excessive voltage drop. The repeater regenerates the voltage levels of the Dupline signal and provides an output drive capability of 300 mA. The primary and secondary Dupline signals are isolated, which means that the primary side will continue to operate in case of a short circuit on the secondary side. As soon as the short circuit is removed, the secondary side will automatically become operational again within 10 seconds. The repeater can be connected to any point on the Dupline bus.

Function (type)	Bus Powered (Y / N)	Dimensions (mm)	Item Type	Catalogue No.	\$AU
Bus Repeater	No, 115 - 240V AC	2 DIN modules	I	SB2REP230	468.00



SB2REP230

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

This page intentionally left blank

Power Quality

Power Quality

Power Quality Systems Selection Guide	288
Power Quality Systems Order Form	290

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Power Quality Systems Selection Guide

1 Step 1: What kind of power quality issues are on site?

If this is not already known, an NHP power quality audit can be used capture the exact power quality issue for the site as well as for individual loads. This audit provides a detailed report on power quality issues as well as suggestions on solutions.



Poor Power Factor

Power Factor – The Delta Static Var Generators (SVG) provide fast step-less compensation to correct leading and lagging power factor. Utilizing solid state inverter technology, the SVG delivers instantaneous power factor correction to the grid by injecting current within 20ms. With no risk of over- or under-correction, the SVG can correct the power factor of the system to > 0.99 under all load conditions.



Harmonics

Harmonics – The Delta Active Power Filters (APF) are the premier solution available today for mitigating harmonic issues. Able to mitigate harmonics up the 50th order with a harmonic filtering rate up to 98%, the APF can also correct power factor and unbalanced three phase networks with high efficiency (>97%), low losses (<3%) and fast total response time (20ms). The APF is adaptable and ensures network stability by providing infinite impedance to the grid.



Network Imbalance

Network Imbalance – Both the APF and SVG systems combat network imbalance, caused by unbalanced loads and single phase/phase-to-phase connections.

Also available is the Total Power Factor Correction (TPFC) system, which takes advantage of the modular design of the Delta APF and SVG systems to combine dedicated displacement and distortion power correction in a single cabinet. Providing a high harmonic filtering rate (>98%) for harmonics from the 2nd to the 50th order, with a fast response time (<20 ms) the TPFC serves as an all-in-one solution to boost the true power factor of an electrical network.

2 Step 2: How much compensation is needed?

The best way to determine the compensation size required for a TPFC system is to have a power quality audit conducted at the site. NHP's technical team can assist with sizing up an appropriate system in accordance with the project details and organize a power quality audit. A detailed report on site power quality is provided with suggested solutions.

For sites in the design and construction stage, required compensation can be calculated using tools such as PowerCad or other vendor tools. Please contact NHP for assistance with this.

NHP's power quality solution for floor standing cabinets increments in steps of 100kVar/A. therefore the compensation values will need to be rounded up to the closest 100th.

Smaller compensation requirements can utilize the 50kVar/A or the 100kVar/A wall mount systems.

3 Step 3: How much spare capacity is required?

As previously mentioned, the power quality on a site can change with the type and number of loads that are running. If you plan to expand your site, add equipment, or replace existing products, including slots for spare capacity would be beneficial as a future proof option.

C220xD_dCHRT-S01

4

Step 4: 3-wire or 4-wire?

The four-wire option is required when there is an imbalance in the network.

Network imbalance is when differing line voltages across phases occurs, caused by unbalanced loads and single phase and phase-to-phase connections. This information can be found on your meter or power quality audit report.

	Use	Applicable industry examples
3 Wire	For balanced networks	Mining Industrial Food and beverage Manufacturing
4 Wire	For an unbalanced network with a fully rated neutral wire	Commercial Office Education Shopping centers

5

Step 5: IP rating requirement?

NHP offers options for IP30 or IP54 floor standing cabinets and an IP30 or IP31 wall mount module.

These Power Quality Systems are to be installed indoors only, in a clean, dry location free of contaminants.

6

Step 6: Colour of cabinet

Grey (RAL7035) or Orange (RAL2000)



C220xD_dCHRT-S02

Power Quality Systems | Order Form

NHP

Ordering Branch / Agent:

Date:

Branch Sales Order No.

CUSTOMER DETAILS

Customer:

Deliver to:

Project:

Request delivery date:

Customer Order No.

Required Compensation Type

- ☐ Harmonics (APF) _____
- ☐ Power Factor (SVG) _____
- ☐ Load Balancing
- ☐ Unsure/Power Quality Audit (PQA) requested

IP Rating

- ☐ IP30
- ☐ IP31 (50A/kVA wall mount only)
- ☐ IP54

System Configuration

- ☐ Wall Mount
- ☐ Floor Standing

Installation accessories*

- ☐ Upstream breaker
- ☐ Current Transformers (CTs)

*for a quote on the installation accessories additional site information may be required to present to your NHP representative.

Number of Wires for Floor Standing

- ☐ Three Phase, 3-Wire
- ☐ Three Phase, 4-Wire

Services

- ☐ Commissioning

Colour

- ☐ Grey (RAL7035)
- ☐ Orange (RAL2000)

Special Requests

- ☐ 690V required (APF only)

Please send this request form to NHP Electrical Engineering Products (Australia) Pty Ltd
sales@nhp.com.au, by fax on 1300 NHP FAX or your local NHP representative.

C2204D_dFORM-S01

Medium Voltage Power

MV Switchgear

MV AIS Switchgear	292
MV GIS Switchgear	294

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

MV AIS Switchgear

SGC Fixed and Demountable Switchgear



- Safety and reliability of type tested panels "built to last"
- Variety of functional modules can be combined and customised to build up switchgear for almost every application
- Built-in and undefeatable, its functional interlocks ensure safe and effortless application
- Pressure release system and arc venting ducts to shield users from an internal arc products
- Type Tested for arc fault withstand/containment with IAC ranging from AFL 16kA 1s to BFLR 20kA 1s
- Fully Type Tested to IEC 62271.200 in leading European laboratories including KEMA and IPH Berlin
- Excellent quality is ensured by manufacturing at the highly automated and ISO 9001:2008 certified facility
- Shorter lead times due to standardised panels

User-friendliness, safety and care for the environment were the main motivators in the selection of NHP MV Switchgear. SGC air-insulated modular fixed and demountable switchgear is used in Australia and worldwide in many industries including defence, infrastructure, mining, manufacturing, commercial and much more as it suits majority of MV applications. Sourced from a specialist Belgian company dedicated to R&D and the manufacture of MV switchgear for the past 40 years, this switchgear is an innovative and robust product that suits rough operating conditions and environments. Enquire with us for a customised switchgear solution to suit your project.

DF-2 / D-F2+ AIS Switchgear with Visual Earthing 17.5-24kV, 800A-1250A, up to 25kA 3s

DF-2 / DF-2+ modular switchgear design allows creating rational, economical and custom-made combinations of MV cubicles at 12 to 24kV. A truly versatile solution, it is used in primary distribution substations, secondary distribution ring networks, motor control, wind generation and more. Robust driving mechanisms and interlocks combined with clear synoptics ensure safety of manual operation.

- Visible earth switch contacts provide extra safety and peace of mind for the operator
- Optional Remote Operation of all three switching devices – VCB, LBS and Earth Switch - further enhances operator safety
- LSC2A Service continuity level allows safe work in the cable/VCB compartment with the main busbar remaining energised
- Design Class 2 for Severe Climatic Conditions (IEC62271.304) - perfect for environments with heavy pollution / frequent condensation
- Manufactured since 1998 DF-2 / DF-2+ has proved a popular and reliable switchgear with over 65,000 panels installed worldwide

DF-2 Switchgear with Demountable VCB 17.5-24kV 800A-1250A

DF-2 switchgear family includes a variety of functional modules to build a solution for any network configuration at 12 to 24kV. These modules can be customised and fitted with various options such as auxiliary contacts, remote operation of all switching devices.

Switchgear is offered with numerical protection relays of GE MiCOM Agile range, or can be fitted with protection relays of your choice. Demountable Vacuum CB can be replaced on site within a few hours only and a main busbar remaining energised, greatly reducing downtime.



DF-D

Item Description	Item Type	Catalogue No.	\$AU
Network Switch Panel with Load Break Switch and Earth Switch		DF-A	POA
Bus Tie Panel with Double Interruption and Demountable Vacuum CB		DF-AAD	POA
Auxiliary Voltage Panel with Load Break Switch and Fused VTs		DF-AV	POA
Metering Panel with up to 6 CTs, up to 4 VTs with MV Fuses option		DF-C-750	POA
Circuit Breaker Panel with LBS, Earth Switch and Demountable Vacuum CB		DF-D	POA
Cable Connection Panel or a Bus Riser with optional Earth Switch		DF-K	POA
Busbar Link Panel with Load Break Switch On Top of Switchgear		DF-LKB	POA
Fuse-Switch Panel with Load Break Switch, Earth Switch and Fuses		DF-P	POA

DF-2+ Switchgear with Demountable VCB and The Arc Killer 17.5kV 800-1250A

DF-2+ switchgear is a DF-2 range plus an integrated internal arc quenching system for enhanced personnel safety and switchgear protection in the applications up to 17.5kV. DF-2+ panels can be combined with other types from DF-2 family to create a complete DF-2+ arc-protected solution.

- The super-swift Arc Killer arc quenching system ensures ultimate safety of personnel (IAC BFLR 20kA 1s), quenching the arc in 48ms
- The Arc Killer also protects switchgear from an arc fault damage, allowing fast restoration into service, minimising downtime
- Demountable Vacuum CB can be replaced on site in a few hours only, with a main busbar energized, greatly reducing downtime



DF-D+

Item Description	Item Type	Catalogue No.	\$AU
Network Switch Panel with LBS, Earth Switch & The Arc Killer		DF-A+	POA
Bus Tie Panel with Double Interruption, Demountable VCB & The Arc Killer		DF-AAD+	POA
Circuit Breaker Panel with LBS, ES, Demountable VCB & The Arc Killer		DF-D+	POA

DF-2 DF-DT Switchgear with Magnetically Driven VCB 12-24kV 630-1250A

Part of the DF-2 family, the DF-DT and DF-AADT panels utilise fixed-type magnetically-actuated vacuum circuit breaker ideal for frequent switching and generator protection applications.

- Perfect for frequent switching motor control applications due to VCBs outstanding performance of up to 50,000 electrical C-O
- Either panel can house up to 6 VTs along with 3 CTs, making it ideal for generator protection applications

Item Description	Item Type	Catalogue No.	\$AU
Bus Tie Panel with Double Interruption & Magnetically Driven Vacuum CB		DF-AADT	POA
Circuit Breaker Panel with LBS, Earth Switch & Magnetically Driven VCB		DF-DT	POA



DF-DT

MV GIS Switchgear

SGC Ring Main Units

4



- Robust design of mechanisms and interlocks, clear synoptic and ease of operation enhance manual operation safety
- The Arc Killer fast quenching system in DR6+/DT6+ eliminates the internal arc in 25ms for ultimate operator protection
- Heavy duty VCB rated up to a 100 full fault current trips - its service life is not limited by number of fault trips, unlike typical RMU
- Ultra compact RMU is 20% narrower than market standard product, saving on the real estate cost
- Ready for ring network automation with standard remote control on Vacuum CB and optional on LBS, for maximum operator safety
- Fully type tested to IEC 62271.200 in leading European laboratories, including arc fault containment with IAC up to BFLR 20kA 1s
- Salt Fog tested for 168 hours as per IEC 60068-2-11, ensuring long service life in sea coastal environment
- Integrated Agile P15D dual powered overcurrent protection relay with network monitoring and SCADA communication
- Excellent quality is guaranteed by manufacturing in the new, purpose built and highly automated factory certified to ISO 9001

SGC RMUs are the DR-6(+)/DT-6(+) family of Compact and Extensible Ring Main Units rated 12-24 kV 630 A. RMUs provide a Network Switching function by load break/earth switch, and protection functions by a Fuse-Switch or a dedicated Vacuum CB in series with the LBS. All HV components are housed in the gas-filled, sealed-for-life tank made of 316 marine grade stainless steel. SGC RMU not only is ideal for applications in the ring network distribution and transformer protection, but also is a cost-effective choice for a feeder protection in compact main substations where fully rated VCB is a must. Refer to NHP MV Switchgear catalogue for more details.

DR-6E / DT-6E Extensible Ring Main Units 12kV or 24kV, 630A

An RMU with up to four switching functions in one tank and the extension bushings on the side for connecting other DR-6E / DT-6E extensible RMUs or functional units to the RMU busbars. It provides the same K, T and D functions as the compact RMU described above. Almost any combination of these functions is possible. Enquire with NHP for your required configuration.

- Flexibility to add more switching functions to cater for a future demand growth
- Larger switchgear solutions with more than 4 functions can be built by connecting several RMUs
- Allows connection of the Metering Functional Unit (DR-6-2E C) via side extension bushings
- The Arc Killer arc quenching system can be installed for enhanced operator safety (thus making it DR-6E+ / DT-6E+)

Item Description	Item Type	Catalogue No.	\$AU
2K2T Extensible RMU with Auxiliary Contacts & Fuses included		DR-6E-2K2T	POA
2KT Extensible RMU with Auxiliary Contacts & Fuses included		DR-6E-2KT	POA
2K2D Extensible RMU with Auxiliary Contacts & VCB Remote Control		DT-6E-2K2D	POA
2KD Extensible RMU with Auxiliary Contacts & VCB Remote Control		DT-6E-2KD	POA

DR-6-2E / DT-6-2E Extensible Functional Units 12kV or 24kV, 630A

Functional units of gas insulated switchgear (GIS) with a single function per tank that can be used as extensions of DR-6E / DT-6E RMUs, or to build modular switchgear with any combination of units possible. Units are extensible from both sides. A compact and cost-effective solution for simple switchgear configurations serving important loads which require high availability.

- Internal fault is limited to the functional unit where it occurred and does not affect other units of the switchgear, increasing availability
- Flexibility to build any switchgear configuration from available functions and easily extend it in future as required
- This modular GIS solution provides 50% floor space saving and substantial cost saving compared to air insulated switchgear
- The Arc Killer arc quenching system can be installed for enhanced operator safety (thus making it DR-6E+ / DT-6E+)

Item Description	Item Type	Catalogue No.	\$AU
C Extensible Metering Panel with VTs & CTs		DR-6-2E-C	POA
K Extensible Network Switch Panel with LBS and Earth Switch		DR-6-2E-K	POA
T Extensible Fuse-Switch Panel with LBS, ES & Fuses included		DR-6-2E-T	POA
D Extensible Circuit Breaker Panel with LBS, ES & VCB Remote Control		DT-6-2E-D	POA



DR-6-2E-T

Motor Control and Drives

Motor Starting and Protection

Sprecher + Schuh Contactor Ratings Chart	296
Sprecher + Schuh Contactor Selection Guide	298
Contactors	299
Sprecher + Schuh Contactors	299
Sprecher + Schuh Control Relay Selection Guide	310
Allen-Bradley Contactor Selection Guide	313
Allen-Bradley Control Relay Selection Guide	321
Motor Protection	323
Sprecher + Schuh Overloads	323
Allen-Bradley Overloads	329
Allen-Bradley Advanced Motor Protection Relays	331
NHP Motor Protection Relays	337
Motor Protection Circuit Breakers	338
Sprecher + Schuh Motor Protection Circuit Breakers	338
Allen-Bradley Motor Protection Circuit Breakers	344
Allen-Bradley Motor Protection Circuit Breaker Selection Guide	345
Mounting and Connection Systems	349
Assembled Motor Starters	Index 351
Condition Monitoring	354

Soft Starters, Low Voltage

Allen-Bradley Soft Starter Selection Guide	359
Industrial Soft Starters	360
Allen-Bradley LV Soft Starters	360
Sprecher + Schuh Soft Starters	366

Variable Speed Drives, Low Voltage

Compact Drives	367
Allen-Bradley Compact Drive Selection Guide	367
Compact Drives Application Selection Guide	369
Architecture Drives	379
Allen-Bradley Architecture Drive Selection Guide	376
Architecture Drives Application Selection Guide	378
Configured Drives	390
Reactor Modules	392
Dynamic Brake Resistors	393

MV Motor Control

Soft Starters, Medium Voltage	394
Variable Speed Drives, Medium Voltage	395

Sprecher + Schuh Contactor Ratings Chart



Ratings to: AS/NZS 60947.4 IEC 60947.4

CONTACTOR



		CA8-5	CA8-9	CA8-12	CA7-9	CA7-12	CA7-16	CA7-23	CA7-30	CA7-37	CA7-43	CA7-55	CA7-60
40 °C I _{th}	AC 1 - 415 V	20	20	20	32	32	32	32	65	65	85	85	100
	AC 1 - 415 V	16	16	16	32	32	32	32	65	65	75	75	100
	AC 2, AC 3 - 415 V	4.9	8.5	11.5	9	12	16	23	30	37	43	55	60
	AC 4 ¹⁾ - 415 V	2	3.6	3.6	4.3	6.6	9	9	12	14	16.5	22	25.5
	AC 2, AC 3 - 690 V	2.8	4.9	6.7	5	7	9	12	18	21	25	25	34
AC 2, AC 3 - 1000 V		-	-	-	-	-	-	-	-	-	-	-	-
MOTOR STARTER RATINGS													
60 °C I _{th}	AC 2, AC 3 - 415 V	2.2	4	5.5	4	5.5	7.5	11	15	20	22	30	32
	AC 4 ¹⁾ - 415 V	0.75	1.5	1.5	1.8	3	4	4	5.5	6.3	7.5	11	13
	AC 2, AC 3 - 690 V	2.2	4	5.5	4	5.5	7.5	10	15	18.5	22	22	32
	AC 2, AC 3 - 1000 V	-	-	-	-	-	-	-	-	-	-	-	-
	Star-delta ²⁾ @ 415 V	4	7.5	11	7.5	11	15	22	25	37	40	45	55
Star point Y		-	-	-	14	19	25	37	50	60	72	90	100
CAPACITOR													
Capacitor switching AC 6b ³⁾ @ 415 V 40 °C	kVar	-	-	-	8	8	10	12.5	20	25	35	35	50
	60 °C	-	-	-	8	8	10	12.5	20	22	30	30	42
Incandescent lamps ¹¹⁾	AC 5b	5	9	9	12	16	18	22	30	37	43	51	60
Fluorescent lamps ¹²⁾	AC 5a	14.5	14.5	15	22.5	25	28	29	37	41	57	57	77
Mechanical life	mill/Ops	15	15	15	13	13	13	13	13	13	12	12	6
Electrical life at AC3 @ 400 V	Ops/Hr	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1	0.8	1
Max operating rate 0.25 sec start (@ max Amps)	Ops/Hr	250	250	300	700	700	700	600	600	600	600	600	500
Switching delay AC Coil ³⁾	ms	15-40	15-40	15-40	15-30	15-30	15-30	15-30	15-30	15-30	15-30	15-30	20-40
Drop-out	ms	15-33	15-33	15-33	10-60	10-60	10-60	10-60	10-60	10-60	10-60	10-60	10-60
AC Coil consumption	Pick-up	35	35	35	75	75	75	105	105	105	135	135	235
Hold-in	VA	5	5	5	9.5	9.5	9.5	12.3	12.3	12.3	13.3	13.3	19
Hold-in	W	1.8	1.8	1.8	2.7	2.7	2.7	3.1	3.1	3.1	3.3	3.3	6.5
DC Coil consumption	Pick-up (peak)	3	3	3	10 (17)	10 (17)	10 (17)	10 (17)	10 (17)	10 (17)	16 (25)	16 (25)	200
Hold-in	W	3	3	3	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	4.5
Auxiliary contacts available (NO or NC)	Std	1/1	1/1	1/1	1/1	1/1	1/1	1/1	-	-	-	-	-
Auxiliary contacts available (1NO + 1NC)	Std	-	-	-	-	-	-	-	-	-	-	-	-
Integral auxiliary contact	AC 12, 60 °C	6	6	6	20	20	20	20	-	-	-	-	-
AC 15, 415V	Amps	1.8	1.8	1.8	6	6	6	6	-	-	-	-	-
Add-on auxiliary block	AC 12, 60 °C	6	6	6	6	6	6	6	6	6	6	6	6
AC 15, 415V	Amps	1.2	1.2	1.2	3	3	3	3	3	3	3	3	3
THERMAL OVERLOAD SELECTION													
Electronic Overload CEP7-1EF and adjustment range	Amps	CEP7-1EFCB 1.0...5 A CEP7-1EFDB 3.2...16 A CEP7-1EFEB 5.4...27 A			CEP7-1EFED 5.4...27 A CEP7-1EFDD 11...55 A								
Thermal Overload and adjustment range. Direct mounting application ⁹⁾ ¹⁰⁾	Amps	CT8 A/B/C 0.1...12.5 A			CT7N-23-A/B/C 0.1...25 A			CT7N-37-C 15...38 A CT7N-43-C 17...47 A CT7N-55-C 45...60 A					

Utilisation categories

Main Poles

AC 1: Non-inductive or slightly inductive loads: resistance furnaces

AC 2: Slip-ring motors: Starting, plugging

AC 3: Squirrel-cage motors: Starting, switching off motors during running

AC 4: Squirrel-cage motors: Starting, plugging, inching

Auxiliary Contacts

AC 12: Control of resistive loads and solid state loads with isolation by optocouplers

AC 15: Control of electromagnetic loads: contactors coils

¹⁾ Approximately 200,000 operations²⁾ Available with standard electronic coil or electronic coil with PLC interface³⁾ Star point Y = star connected. Star point Δ = delta connected star⁴⁾ Amp rating at 690 V⁵⁾ For PF correction panels min 6 pH inductive or use of harmonic filters⁶⁾ kVar rating at 55 °C⁷⁾ Amp rating at AC 12, 40 °C⁸⁾ For 100...250 V AC coil voltage⁹⁾ Maximum current setting to be no more than the rated current of contactor¹⁰⁾ Refer Price List Catalogue for complete Cat. No. and Amp range¹¹⁾ Ratings at 230/240V¹²⁾ CA8/7 with no suppressors fitted. CA9 electronic coils include suppression as standard¹³⁾ Gas discharge lamps at @ 40 °C which are enclosed

RATINGS CHART



CURRENT RATINGS															
100	100	130	160 ^{*)}	225 ^{*)}	275 ^{*)}	350 ^{*)}	400 ^{*)}	500 ^{*)}	600 ^{*)}	600 ^{*)}	700 ^{*)}	800 ^{*)}	1050 ^{*)}	1350 ^{*)}	1650 ^{*)}
100	100	110	145 ^{*)}	200 ^{*)}	250 ^{*)}	300 ^{*)}	350 ^{*)}	400 ^{*)}	500 ^{*)}	500 ^{*)}	600 ^{*)}	700 ^{*)}	875 ^{*)}	1150 ^{*)}	1450 ^{*)}
72	85	97	116	146	190	205	265	305	370	400	460	580	750	860	1060
31	38	44	38	38	49	55	73	89	100	118	135	-	-	-	-
42	49	57	66	93	135	165	250	290	315	350	400	500	650	800	970
-	-	-	46	60	85	100	113	131	141	155	200	250	300	375	400
AT OPERATIONAL VOLTAGE 400/415 V. ALL kW RATINGS APPROXIMATE															
40	45	55	55	75	90	110	132	160	200	220	250	355	425	500	630
17	20	22	20	20	25	30	40	50	55	63	75	-	-	-	-
40	45	55	63	90	132	160	200	250	315	315	355	500	600	800	1000
-	-	-	55	75	110	132	160	185	200	220	280	355	400	555	600
63	80	90	110	132	160	200	250	315	355	400	400	560	800	900	1100
125	145	165	160	220	250	315	400	420	560	630	750	1000	1250	1450	1850
AND LAMP SWITCHING AT OPERATIONAL VOLTAGE 415 V															
50	50	50	75	90	110	130	145	165	200	210	240	285	400	450	500
50	50	50	75 ^{*)}	90 ^{*)}	110 ^{*)}	130 ^{*)}	145 ^{*)}	165 ^{*)}	200 ^{*)}	210 ^{*)}	240 ^{*)}	285 ^{*)}	400 ^{*)}	450 ^{*)}	500 ^{*)}
70	76	90	116	146	190	205	265	305	370	400	460	580	750	877	1072
81	90	100	116	146	190	205	265	305	370	400	460	580	750	877	1072
MECHANICAL, ELECTRICAL AND COIL DATA															
6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-
1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
500	500	500	300	300	300	300	300	300	300	300	300	300	300	60	60
20-40	20-40	20-40	20-55	20-55	25-60	25-60	30-60	30-60	30-60	50-120	50-120	50-120	50-120	50-80	50-80
10-60	10-60	20-40	40-70	40-70	45-80	45-80	45-80	45-80	45-80	33-70	33-70	33-70	33-70	35-55	35-55
235	235	400	130 ^{*)}	130 ^{*)}	220 ^{*)}	220 ^{*)}	385 ^{*)}	385 ^{*)}	385 ^{*)}	995 ^{*)}	955 ^{*)}	880 ^{*)}	880 ^{*)}	2450 ^{*)}	2450 ^{*)}
19	19	24	6 ^{*)}	6 ^{*)}	7 ^{*)}	7 ^{*)}	17.5 ^{*)}	17.5 ^{*)}	17.5 ^{*)}	12 ^{*)}	12 ^{*)}	12 ^{*)}	12 ^{*)}	48 ^{*)}	48 ^{*)}
6.5	6.5	9	-	-	-	-	-	-	-	-	-	-	-	-	-
200	200	325	210	210	205	205	400	400	400	900	900	785	785	-	-
4.5	4.5	5.5	2.5	2.5	2.5	2.5	3.5	3.5	3.5	5	5	5.5	5.5	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1
-	-	-	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}
-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3
6	6	6	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}	16 ^{*)}
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

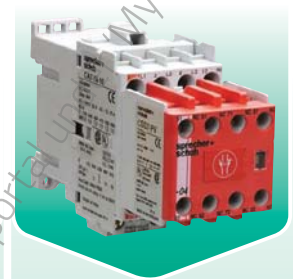
ELECTRONIC OVERLOAD SELECTION	
<p>CEP7-1EFGC 20...100 A</p>	Current Transformer Kits or separate components available
<p>CT7N-85-C 35...90 A CT7N-97-C 85...97 A</p>	

A1102D_dSEIN-501

Sprecher + Schuh Contactor Selection Guide

Contactors

Safety Contactors



Series	CA8	CA7	CA9	CAS7
AC-3 Current Rating	5...12A	9...97A	116...1060A	9...97A
Features	<ul style="list-style-type: none"> • Mini-contactors • Uniform panel mounting dimensions • Panel mounting or mounting on 35mm DIN rail • AC or DC coil control • Made of environmentally friendly materials 	<ul style="list-style-type: none"> • Panel mounting or mounting on 35mm DIN rail • AC or DC coil control • Reversible coil terminals (line or load side) • Common accessories • Made of environmentally friendly materials 	<ul style="list-style-type: none"> • Panel mounting • 116...370-(EI) AC/DC electronic coil or optional with PLC interface • 400...2650-EI AC/DC with PLC interface • Made of environmentally friendly materials 	<ul style="list-style-type: none"> • Mechanically linked auxiliary contacts • Front-mounted auxiliary contacts: <ul style="list-style-type: none"> - Permanently fixed - Protective cover to prevent manual operation - Red contact housing for easy identification - Incorporates IEC 947-5-1 "Mechanically Linked" symbol • AC and DC operating coils • SUVA third-party certification
Contacts	3 main poles with internal N/O or N/C auxiliary contact, or 4 main poles Optional front-mounted 2- or 4- pole external auxiliary contact block	3 main poles with internal N/O or N/C auxiliary contact or 4 main poles Optional front- or side-mounted 1-, 2- or 4-pole external auxiliary contact block	3 main poles with 2 auxiliary contacts (1N/O and 1N/C) Optional side-mounted 2-pole external auxiliary contact block	3 main poles with N/C mechanically linked or mirror feedback contacts
Coil Voltages	AC = 24...600V, 50/60 Hz DC = 12...250V	AC = 12...600V, 50/60Hz DC = 9...250V	24...500V 50/60 Hz / DC	AC = 12...600V, 50/60Hz DC = 12...250V
Optional Overload Relays	Bi-metallic (CT8)	Electronic (CEP7) or bi-metallic (CT7N)	Electronic (CEP7)	Electronic (CEP7) or bi-metallic (CT7N)
Optional Accessories	<ul style="list-style-type: none"> • Front-mount auxiliary contacts • Surge suppressors • Electronic timers • Mechanical interlocks 	<ul style="list-style-type: none"> • Front or side-mount auxiliary contacts • Surge suppressors • Electronic or pneumatic timers • Mechanical interlocks • Mechanical latches 	<ul style="list-style-type: none"> • Side-mount auxiliary contacts • Mechanical interlocks • Terminal lugs • Terminal shields • Connecting bars 	<ul style="list-style-type: none"> • Side-mount auxiliary contacts • Surge suppressors • Electronic timers • Mechanical interlocks
Page	299	300	303	305

Contactors

Sprecher + Schuh Contactors

- Several contactor families provide a wide variety of contactor sizes, offering economy and selection
- Compact dimensions saves panel space

3 and 4 pole contactors up to 630kW.

Sprecher + Schuh's broad line of general purpose contactors combine performance and reliability in space saving designs that are well proven and used the world over. Sprecher + Schuh's design is dimensionally among the smallest devices in the industry.



CA8 Miniature Contactors 2.2 to 5.5kW

The CA8 range is a compact system of contactors, relays and accessories with a wide range of application possibilities. Their size and versatility makes them particularly suitable for OEM applications, small control systems and PLC interfacing. Contactors are available in ratings of 5A, 9A and 12A AC-3 @ 415V, and have ratings for up to 690V AC.

- Features low-profile design and 45mm width, permitting the use of enclosures with shallow mounting depths
- Accessories require no additional panel space
- Available in AC or DC control coil versions to suit your application requirements
- DIN rail mountable for easy installation

3 Pole Contactors with AC Coil

240V AC coil listed.

Standard coil voltages: 24V AC, 110V AC and 415V AC also available.

Simply replace '240' in the Catalogue No. with the required coil voltage.

For example, for 24V AC coil voltage, CA8-5-01-240VAC becomes CA8-5-01-24VAC.

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main poles)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
2.2kW / 4.9A	2.2kW / 2.8A	20A @415V	3 NO	1 NC		CA8-5-01-240VAC	168.00
2.2kW / 4.9A	2.2kW / 2.8A	20A @415V	3 NO	1 NO		CA8-5-10-240VAC	168.00
4kW / 8.5A	4kW / 4.9A	20A @415V	3 NO	1 NC		CA8-9-01-240VAC	191.00
4kW / 8.5A	4kW / 4.9A	20A @415V	3 NO	1 NO		CA8-9-10-240VAC	191.00
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	3 NO	1 NC		CA8-12-01-240VAC	231.00
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	3 NO	1 NO		CA8-12-10-240VAC	231.00



CA8-5-01-240VAC

3 Pole Contactors with DC Coil

24V DC coil with in-built diode, is listed.

Standard coil voltages: 12V DC, 48V DC, 110V DC and 220V DC also available.

Simply replace '24VDCD' in the Catalogue No. with the required coil voltage and 'VDC'.

For example, for 12V DC, CA8-5C-10-24VDCD becomes CA8-5C-10-12VDC.

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main poles)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
2.2kW / 4.9A	2.2kW / 2.8A	20A @415V	3 NO	1 NC		CA8-5C-01-24VDCD	352.00
2.2kW / 4.9A	2.2kW / 2.8A	20A @415V	3 NO	1 NO		CA8-5C-10-24VDCD	337.00
4kW / 8.5A	4kW / 4.9A	20A @415V	3 NO	1 NC		CA8-9C-01-24VDCD	368.00
4kW / 8.5A	4kW / 4.9A	20A @415V	3 NO	1 NO		CA8-9C-10-24VDCD	352.00
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	3 NO	1 NC		CA8-12C-01-24VDCD	402.00
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	3 NO	1 NO		CA8-12C-10-24VDCD	402.00



CA8-5C-10-24VDCD

4 Pole Contactors with AC Coil

240V AC coil listed.

Standard coil voltages: 24V AC, 110V AC and 415V AC also available.

Simply replace '240' in the Catalogue No. with the required coil voltage.

For example, for 24V AC coil voltage, CA8-5-M40-240VAC becomes CA8-5-M40-24VAC.

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main poles)	Item Type	Catalogue No.	\$AU
4kW / 8.5A	4kW / 4.9A	20A @415V	2 NO + 2 NC		CA8-9-M-22-240VAC	242.00
4kW / 8.5A	4kW / 4.9A	20A @415V	3 NO + 1 NC		CA8-9-M-31-240VAC	242.00
4kW / 8.5A	4kW / 4.9A	20A @415V	4 NO		CA8-9-M-40-240VAC	242.00
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	2 NO + 2 NC		CA8-12-M-22-240VAC	261.00
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	3 NO + 1 NC		CA8-12-M-31-240VAC	261.00
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	4 NO		CA8-12-M-40-240VAC	261.00



CA8-9-M-22-240VAC

4 Pole Contactors with DC Coil

24V DC coil listed.

Standard coil voltages: 12V DC, 48V DC, 110V DC and 220V DC also available.

Simply replace '24' in the Catalogue No. with the required coil voltage.

For example, for 12V DC, CA8-9C-M22-24VDC becomes CA8-9C-M22-12VDC.



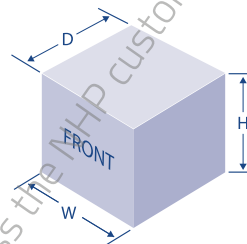
CA8-9C-M-22-24VDC

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main poles)	Item Type	Catalogue No.	\$AU
4kW / 8.5A	4kW / 4.9A	20A @415V	2 NO + 2 NC		CA8-9C-M-22-24VDC	385.00
4kW / 8.5A	4kW / 4.9A	20A @415V	3 NO + 1 NC	I	CA8-9C-M-31-24VDC	385.00
4kW / 8.5A	4kW / 4.9A	20A @415V	4 NO		CA8-9C-M-40-24VDC	385.00
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	2 NO + 2 NC		CA8-12C-M-22-24VDC	433.00
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	3 NO + 1 NC		CA8-12C-M-31-24VDC	433.00
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	4 NO		CA8-12C-M-40-24VDC	433.00

CA8 Contactors Dimension Diagram. Dimensions not intended for manufacturing purposes.

AC or DC coil Cat. No.	H (mm)	W (mm)	D (mm)
CA8...	50	45	53

A1102D01_dDIM3-S01

**CA7 Contactors 4 to 55kW**

Sprecher + Schuh's CA7 contactors control motors up to 55kW, in frame sizes ranging from 45mm to a maximum of 72mm wide. Due to a modular design, CA7 is flexible and easy to use. All CA7 contactors use the same accessories, reducing the need to stock additional inventory. They are also mechanically and electrically compatible with Sprecher + Schuh's new CEP7-1 electronic overload relay. This provides easy, clean installation for a variety of motor starter applications. Whether part of a system or for individual use, the CA7 is the right contactor for the job.

- Easy selection with 12 sizes, one for each standard motor kW rating (4-55kW)
- Common accessories for the range
- Side or top mount auxiliary contacts provide flexibility to suit enclosure space

3 Pole Contactors with AC Coil

240V AC coil listed.

Standard coil voltages: 24V AC, 110V AC, 415V AC also available.

Simply replace '240' in the Catalogue No. with the required coil voltage.

For example, for 24V AC, CA7-9-01-240VAC becomes CA7-9-01-24VAC



CA7-60-00-240VAC

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main poles)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
4kW / 9A	4kW / 5A	32A @415V	3 NO	1 NC		CA7-9-01-240VAC	191.00
4kW / 9A	4kW / 5A	32A @415V	3 NO	1 NO		CA7-9-10-240VAC	191.00
5.5kW / 12A	5.5kW / 7A	32A @415V	3 NO	1 NC		CA7-12-01-240VAC	242.00
5.5kW / 12A	5.5kW / 7A	32A @415V	3 NO	1 NO		CA7-12-10-240VAC	242.00
7.5kW / 16A	7.5kW / 9A	32A @415V	3 NO	1 NC		CA7-16-01-240VAC	310.00
7.5kW / 16A	7.5kW / 9A	32A @415V	3 NO	1 NO		CA7-16-10-240VAC	310.00
11kW / 23A	10kW / 12A	23A @415V	3 NO	1 NC		CA7-23-01-240VAC	458.00
11kW / 23A	10kW / 12A	23A @415V	3 NO	1 NO		CA7-23-10-240VAC	458.00
15kW / 30A	15kW / 18A	65A @415V	3 NO			CA7-30-00-240VAC	605.00
20kW / 37A	18.5kW / 21A	65A @415V	3 NO			CA7-37-00-240VAC	729.00
22kW / 43A	22kW / 25A	85A @415V	3 NO			CA7-43-00-240VAC	912.00
30kW / 55A	22kW / 25A	85A @415V	3 NO			CA7-55-00-240VAC	1,053.00
32kW / 60A	32kW / 34A	100A @415V	3 NO			CA7-60-00-240VAC	1,268.00
40kW / 72A	40kW / 42A	100A @415V	3 NO			CA7-72-00-240VAC	1,407.00
45kW / 85A	45kW / 49A	100A @415V	3 NO			CA7-85-00-240VAC	1,636.00
55kW / 97A	55kW / 57A	130A @415V	3 NO			CA7-97-00-240VAC	2,052.00

3 Pole Contactors with DC Coil

24V DC coil listed.

Standard coil voltages CA7-E : 12V DC, 48 to 72V DC, 110 to 125V DC and 220 to 250V DC also available on request.

Standard coil voltages CA7-D : 48V DC, 110V DC and 220V DC and other voltages on request.

Simply replace '24' in the Catalogue No. with the required coil voltage.

For example; for 48V DC, CA7-9E-01-24VDC becomes CA7-9E-01-48VDC.

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main poles)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
4kW / 9A	4kW / 5A	32A @415V	3 NO	1 NC		CA7-9E-01-24VDC	468.00
4kW / 9A	4kW / 5A	32A @415V	3 NO	1 NO		CA7-9E-10-24VDC	468.00
5.5kW / 12A	5.5kW / 7A	32A @415V	3 NO	1 NC		CA7-12E-01-24VDC	555.00
5.5kW / 12A	5.5kW / 7A	32A @415V	3 NO	1 NO		CA7-12E-10-24VDC	555.00
7.5kW / 16A	7.5kW / 9A	32A @415V	3 NO	1 NC		CA7-16E-01-24VDC	607.00
7.5kW / 16A	7.5kW / 9A	32A @415V	3 NO	1 NO		CA7-16E-10-24VDC	607.00
11kW / 23A	10kW / 12A	32A @415V	3 NO	1 NC		CA7-23E-01-24VDC	827.00
11kW / 23A	10kW / 12A	32A @415V	3 NO	1 NO		CA7-23E-10-24VDC	827.00
15kW / 30A	15kW / 18A	65A @415V	3 NO			CA7-30E-00-24VDC	931.00
20kW / 37A	18.5kW / 21A	65A @415V	3 NO			CA7-37E-00-24VDC	1,182.00
22kW / 43A	22kW / 25A	85A @415V	3 NO			CA7-43E-00-24VDC	1,401.00
30kW / 55A	22kW / 25A	85A @415V	3 NO			CA7-55E-00-24VDC	1,502.00
32kW / 60A	32kW / 34A	100A @415V	3 NO			CA7-60D-00-24VDC	2,007.00
40kW / 72A	40kW / 42A	100A @415V	3 NO			CA7-72D-00-24VDC	2,131.00
45kW / 85A	45kW / 49A	100A @415V	3 NO			CA7-85D-00-24VDC	2,269.00
55kW / 97A	55kW / 57A	130A @415V	3 NO			CA7-97D-00-24VDC	2,500.00



CA7-9E-01-24VDC

4 Pole Contactors with AC Coil

240V AC coil listed.

Standard coil voltages: 24V AC, 110V AC, 415V AC also available.

Simply replace '240' in the Catalogue No. with the required coil voltage.

For example; for 24V AC coil voltage, CA7-9-M22-240VAC becomes CA7-9-M22-24VAC.

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main poles)	Item Type	Catalogue No.	\$AU
4kW / 9A	4kW / 5A	32A @415V	2 NO + 2 NC		CA7-9-M-22-240VAC	247.00
4kW / 9A	4kW / 5A	32A @415V	3 NO + 1 NC		CA7-9-M-31-240VAC	247.00
4kW / 9A	4kW / 5A	32A @415V	4 NO		CA7-9-M-40-240VAC	247.00
5.5kW / 12A	5.5kW / 7A	32A @415V	2 NO + 2 NC		CA7-12-M-22-240VAC	289.00
5.5kW / 12A	5.5kW / 7A	32A @415V	3 NO + 1 NC	I	CA7-12-M-31-240VAC	289.00
5.5kW / 12A	5.5kW / 7A	32A @415V	4 NO		CA7-12-M-40-240VAC	289.00
7.5kW / 16A	7.5kW / 9A	32A @415V	2 NO + 2 NC		CA7-16-M-22-240VAC	382.00
7.5kW / 16A	7.5kW / 9A	32A @415V	3 NO + 1 NC	I	CA7-16-M-31-240VAC	382.00
7.5kW / 16A	7.5kW / 9A	32A @415V	4 NO		CA7-16-M-40-240VAC	382.00
11kW / 23A	10kW / 12A	32A @415V	2 NO + 2 NC		CA7-23-M-22-240VAC	573.00
11kW / 23A	10kW / 12A	32A @415V	3 NO + 1 NC	I	CA7-23-M-31-240VAC	573.00
11kW / 23A	10kW / 12A	32A @415V	4 NO		CA7-23-M-40-240VAC	573.00
18.5kW / 37A	7.5kW / 9A	75A @415V	2 NO + 2 NC		CA7-40-M-22-240VAC	974.00
18.5kW / 37A	18.5kW / 21A	75A @415V	4 NO		CA7-40-M-40-240VAC	974.00
45kW / 85A	45kW / 22A	130A @415V	4 NO		CA7-90-M-40-240VAC	2,269.00
45kW / 85A	18.5kW / 22A	130A @415V	2 NO + 2 NC	I	CA7-90-M-22-240VAC	2,408.00



CA7-23-M-22-240VAC

4 Pole Contactors with DC Coil

24V DC coil listed.

Standard coil voltages CA7-E : 12V DC, 48 to 72V DC, 110 to 125V DC and 220 to 250V DC also available on request.

Standard coil voltages CA7-D : 48V DC, 110V DC and 220V DC and other voltages on request.

Simply replace '24' in the Catalogue No. with the required coil voltage.

For example; for 48V DC, CA7-9E-M-22-24VDC becomes CA7-9E-M-22-48VDC.

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main poles)	Item Type	Catalogue No.	\$AU
4kW / 9A	4kW / 5A	32A @415V	2 NO + 2 NC		CA7-9E-M-22-24VDC	468.00
4kW / 9A	4kW / 5A	32A @415V	4 NO		CA7-9E-M-40-24VDC	468.00
5.5kW / 12A	5.5kW / 7A	32A @415V	2 NO + 2 NC		CA7-12E-M-22-24VDC	555.00
5.5kW / 12A	5.5kW / 7A	32A @415V	4 NO		CA7-12E-M-40-24VDC	555.00
7.5kW / 16A	7.5kW / 9A	32A @415V	2 NO + 2 NC		CA7-16E-M-22-24VDC	607.00
7.5kW / 16A	7.5kW / 9A	32A @415V	4 NO		CA7-16E-M-40-24VDC	607.00
11kW / 23A	10kW / 12A	32A @415V	2 NO + 2 NC		CA7-23E-M-22-24VDC	827.00
11kW / 23A	10kW / 12A	32A @415V	4 NO		CA7-23E-M-40-24VDC	827.00
20kW / 37A	7.5kW / 9A	75A @415V	2 NO + 2 NC	I	CA7-40E-M-22-24VDC	1,094.00
20kW / 37A	18.5kW / 9A	75A @415V	4 NO		CA7-40E-M-40-24VDC	1,094.00
45kW / 85A	18.5kW / 22A	130A @415V	2 NO + 2 NC	I	CA7-90D-M-22-24VDC	2,886.00
45kW / 85A	45kW / 49A	130A @415V	4 NO	I	CA7-90D-M-40-24VDC	2,611.00



CA7-9E-M-22-24VDC

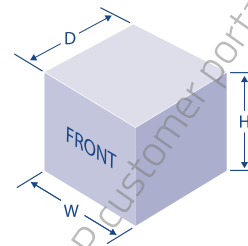
CA7 Contactors Dimension Diagram. Dimensions not intended for manufacturing purposes.

AC coil Cat. No.	H (mm)	W (mm)	D (mm)
CA7-9...23	81	45	86.5
CA7-30...37	81	45	104
CA7-40-M	81	59	107
CA7-43...55	81	54	107
CA7-60...97	122	72	125.5
CA7-90-M	122	95	125.5

A1102D02_gDIM3-501

DC coil Cat. No.	H (mm)	W (mm)	D (mm)
CA7-9E...23E	81 ¹⁾	45	86.5
CA7-30E...37E	81 ¹⁾	45	104
CA7-40E	81 ¹⁾	59	107
CA7-43E...55E	81 ¹⁾	54	107
CA7-60...97D	122	72	125.5
CA7-90D	122	95	125.5

1) For coil voltages 36 ... 220V DC add an additional 24mm.



CA9 Contactors 55 to 630kW

The CA9 contactor family combines the simple function of our popular CA7 series with the rugged performance demanded in this wide kilowatt range. CA9 contactors offer a smaller footprint than traditional contactors in this size class.

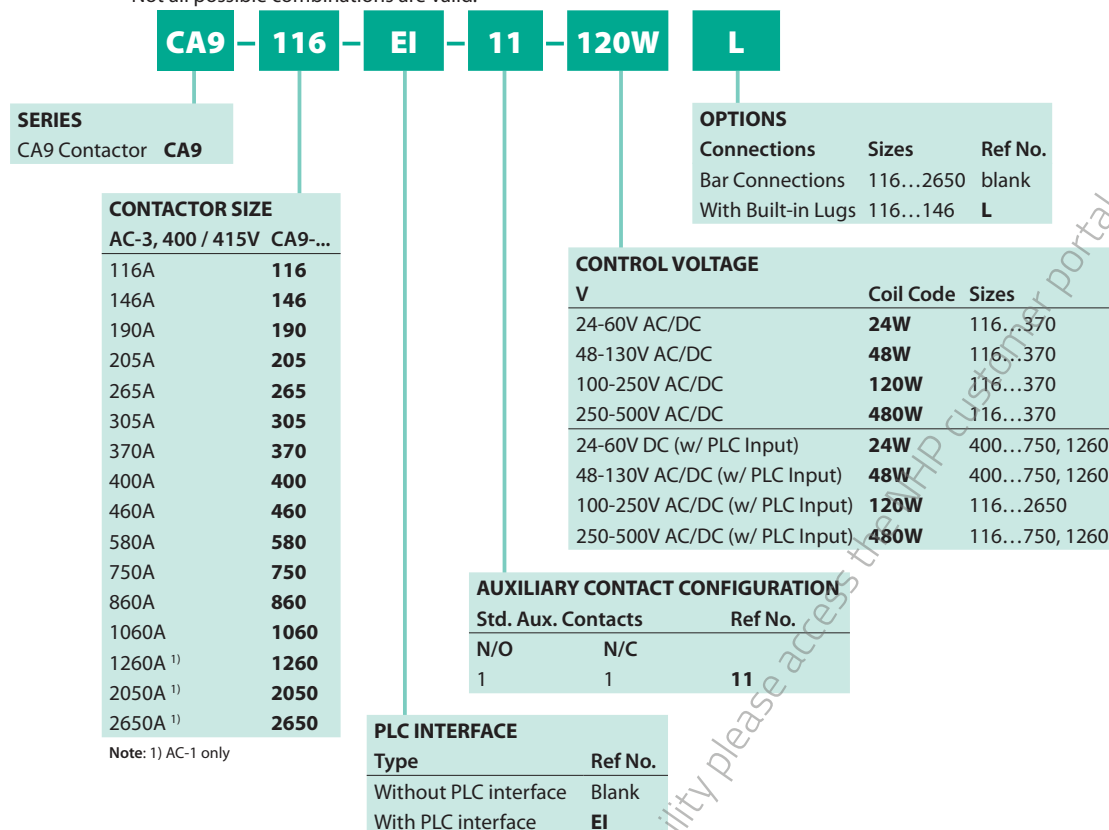
Contactors are available in ratings of 116A through to 1060A AC-3 @ 415V and have ratings up to 1000V AC.

- Simplifies selection with electronic wide-range AC/DC coils
- Available integrated PLC interface
- Saves energy with low power consumption
- Includes built-in surge suppression
- For ease of change over, adaptor plates available in KIT form for CA6 to CA9 migration

Pricing in this document is invalid – for pricing and availability please access the NHP Customer Portal under 'My Account'

Catalogue Number Construction

This chart provides a general guide to creating a CA9 catalogue number to match your application. Not all possible combinations are valid.



3 Pole Contactors with AC/DC Coil

100...250V AC/DC coil listed.

All CA9 contactors include one auxiliary contact block (1 N/O and 1 N/C) mounted on the inside left position.

If replacing an old CA6 contactor with a CA9 contactor, adaptor plates are available in KIT form. The adaptor plates may negate the need to drill more mounting holes within the existing switchboard by using the existing mounting holes of the CA6 contactor, for easy changeover. Adaptor plates are only available as a kit with a CA9 contactor, up to CA9-1060 Simply add "KIT" to the end of the CA9 contactor. For example, CA9-116-11-120W becomes CA9-116-11-120WKIT

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-3 (1kV, 60°C)	AC-1 (690V / 1kV, 40°C)	Coil (type)	Item Type	Catalogue No.	\$AU
55kW / 116A	55kW / 65A	55kW / 46A	160A / 160A	Electronic		CA9-116-11-120W	2,042.00
75kW / 146A	90kW / 93A	75kW / 60A	225A / 225A	Electronic		CA9-146-11-120W	2,479.00
90kW / 190A	132kW / 135A	110kW / 85A	275A / 250A	Electronic		CA9-190-11-120W	3,620.00
110kW / 205A	160kW / 165A	132kW / 100A	350A / 275A	Electronic		CA9-205-11-120W	4,109.00
132kW / 265A	200kW / 250A	132kW / 100A	400A / 350A	Electronic		CA9-265-11-120W	4,668.00
160kW / 305A	250kW / 290A	132kW / 100A	500A / 375A	Electronic		CA9-305-11-120W	5,238.00
200kW / 370A	315kW / 315A	132kW / 100A	600A / 400A	Electronic		CA9-370-11-120W	6,994.00



CA9-265-11-120W

3 Pole Contactors with AC/DC Coil and PLC Interface

100...250V AC/DC coil with PLC interface listed.

PLC/24V DC logic control signals required for contactors up to 370A.

Contactors 400A and above include a switch for PLC/no PLC use.

All CA9 contactors include one auxiliary contact block (1 N/O and 1 N/C) mounted on the inside left position.

If replacing an old CA6 contactor with a CA9 contactor, adaptor plates are available in KIT form. The adaptor plates may negate the need to drill more mounting holes within the existing switchboard by using the existing mounting holes of the CA6 contactor, for easy changeover. Adaptor plates are only available as a kit with a CA9 contactor, up to CA9-1060. Simply add "KIT" to the end of the CA9 contactor. For example, CA9-116-EI-11-120W becomes CA9-116-EI-11-120WKIT



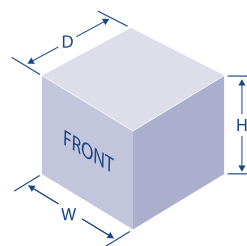
CA9-580-EI-11-120W

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-3 (1kV, 60°C)	AC-1 (690V / 1kV, 40°C)	Coil (type)	Item Type	Catalogue No.	\$AU
55kW / 116A	55kW / 65A	55kW / 46A	160A / 160A	Electronic w/ PLC Interface		CA9-116-EI-11-120W	2,192.00
75kW / 146A	90kW / 93A	75kW / 60A	225A / 225A	Electronic w/ PLC Interface		CA9-146-EI-11-120W	2,627.00
90kW / 190A	132kW / 135A	110kW / 85A	275A / 250A	Electronic w/ PLC Interface		CA9-190-EI-11-120W	3,729.00
110kW / 205A	160kW / 165A	132kW / 100A	350A / 275A	Electronic w/ PLC Interface		CA9-205-EI-11-120W	4,232.00
132kW / 265A	200kW / 250A	132kW / 100A	400A / 350A	Electronic w/ PLC Interface		CA9-265-EI-11-120W	4,790.00
160kW / 305A	250kW / 290A	132kW / 100A	500A / 375A	Electronic w/ PLC Interface		CA9-305-EI-11-120W	5,361.00
200kW / 370A	315kW / 315A	132kW / 100A	600A / 400A	Electronic w/ PLC Interface		CA9-370-EI-11-120W	7,116.00
220kW / 400A	315kW / 350A	220kW / 155A	600A / 600A	Electronic w/ PLC Interface		CA9-400-EI-11-120W	10,394.00
250kW / 460A	355kW / 400A	280kW / 200A	700A / 700A	Electronic w/ PLC Interface		CA9-460-EI-11-120W	13,141.00
355kW / 580A	500kW / 500A	355kW / 250A	800A / 800A	Electronic w/ PLC Interface		CA9-580-EI-11-120W	15,509.00
425kW / 750A	600kW / 650A	400kW / 300A	1050A / 1000A	Electronic w/ PLC Interface		CA9-750-EI-11-120W	22,718.00
500kW / 860A	800kW / 800A	555kW / 375A	1350A / 1350A	Electronic w/ PLC Interface		CA9-860-EI-11-120W	34,280.00
630kW / 1060A	1060kW / 970A	600kW / 400A	1650A / 1650A	Electronic w/ PLC Interface		CA9-1060-EI-11-120W	38,904.00

CA9 Contactor Dimensions 55 to 630kW

Coil Cat. No.	H (mm)	W (mm)	D (mm)
CA9-116...146-(-L)	150	90	126
CA9-116-EI...146-EI-(-L)	150	90	142.5
CA9-190...205	196	105	152
CA9-190-EI...250-EI	196	105	169.5
CA9-265...370	225	140	180
CA9-265-EI...370-EI	225	140	195.5
CA9-400-EI...460-EI	268	186	216
CA9-580-EI, CA9-750-EI	273	210	242
CA9-1260-EI	344	210	242
CA9-860-EI, CA9-1060-EI, CA9-2050-EI	392	438	244
CA9-2650-EI	422	438	244

AT102D13_dDIM3-S01



CAS7 Safety Contactors 4 to 45kW

The Sprecher + Schuh CAS7 safety contactors are proven in machine safety applications, providing mirror-contacts auxiliary performance, with third party certification by SUVA to IEC 60947-4-1. In addition, the CAS7 safety contactors meet the requirement of mechanically linked contacts to IEC 60947-5-1. The contactors are protected against unintended operation and the auxiliary contacts cannot be removed.

- Permanently installed cover prevents manual operation
- Red contact housing for easy identification

3 Pole Safety Contactors with AC Coil

240V AC coil listed.

Additional auxiliary contact configurations available on request.

AC-3 (415V, 60°C)	Contacts (main poles)	Contacts (auxiliary)	Coil (type)	Item Type	Catalogue No.	\$AU
4kW / 9A	3 NO	1 NO + 4 NC	Conventional		CAS7-9-14C-240VAC	408.00
5.5kW / 12A	3 NO	1 NO + 4 NC	Conventional		CAS7-12-14C-240VAC	424.00
7.5kW / 16A	3 NO	1 NO + 4 NC	Conventional		CAS7-16-14C-240VAC	498.00
11kW / 23A	3 NO	1 NO + 4 NC	Conventional		CAS7-23-14C-240VAC	747.00
15kW / 30A	3 NO	1 NO + 4 NC	Conventional		CAS7-30-14C-240VAC	887.00
20kW / 37A	3 NO	1 NO + 4 NC	Conventional		CAS7-37-14C-240VAC	1,024.00
32kW / 60A	3 NO	1 NO + 4 NC	Conventional		CAS7-60-14C-240VAC	1,563.00
40kW / 72A	3 NO	1 NO + 4 NC	Conventional		CAS7-72-14C-240VAC	1,759.00
45kW / 85A	3 NO	1 NO + 4 NC	Conventional		CAS7-85-14C-240VAC	2,402.00



CAS7-60-14C-240VAC

5

3 Pole Safety Contactors with DC Coil

Standard 24V DC Electronic coil up to CAS7-43, and conventional 24V DC with in-built diode for CAS7-60 to CAS7-85.

Additional auxiliary contact configurations available on request.

AC-3 (415V, 60°C)	Contacts (main poles)	Contacts (auxiliary)	Coil (type)	Item Type	Catalogue No.	\$AU
4kW / 9A	3 NO	1 NO + 4 NC	Electronic		CAS7-9E-14C-24VDC	602.00
5.5kW / 12A	3 NO	1 NO + 4 NC	Electronic		CAS7-12E-14C-24VDC	656.00
7.5kW / 16A	3 NO	1 NO + 4 NC	Electronic		CAS7-16E-14C-24VDC	782.00
11kW / 23A	3 NO	1 NO + 4 NC	Electronic		CAS7-23E-14C-24VDC	963.00
15kW / 30A	3 NO	1 NO + 4 NC	Electronic		CAS7-30E-14C-24VDC	1,188.00
20kW / 37A	3 NO	1 NO + 4 NC	Electronic		CAS7-37E-14C-24VDC	1,426.00
22kW / 43A	3 NO	1 NO + 4 NC	Electronic		CAS7-43E-14C-24VDC	1,638.00
32kW / 60A	3 NO	1 NO + 4 NC	Conventional		CAS7-60D-14C-24VDC	2,103.00
40kW / 72A	3 NO	1 NO + 4 NC	Conventional		CAS7-72D-14C-24VDC	2,507.00
45kW / 85A	3 NO	1 NO + 4 NC	Conventional		CAS7-85D-14C-24VDC	2,688.00



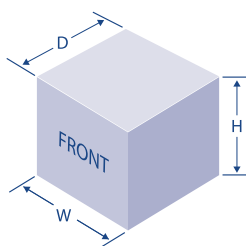
CAS7-9E-14C-24VDC

CAS7 Safety Contactors Dimension Diagram. Dimensions not intended for manufacturing purposes.

AC coil Cat. No.	H (mm)	W (mm)	D (mm)
CAS7-9...23	81	45	125.5
CAS7-30...37	81	45	143
CAS7-43	81	54	146
CAS7-60...85	122	72	164.5

DC coil Cat. No.	H (mm)	W (mm)	D (mm)
CAS7-9E...23E	81 ¹⁾	45	125.5
CAS7-30E...37E	81 ¹⁾	45	143
CAS7-43E	81 ¹⁾	54	146
CAS7-60...85D	122	72	164.5

1) For coil voltages 36...220V DC add an additional 24mm.



Accessories and Spares

CA8 Accessories

Auxiliaries



CS8-P-20E

Contacts	Terminal (numbering)	Contactor (compatible)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact	53-54, 61-62	CA8-5...12, CS8		CS8-P-11E	75.00
2 NO	53-54, 63-64	CA8-5...12, CS8		CS8-P-20E	75.00
2 NC	21-22, 31-32	CA8-5...12		CA8-P-02	77.00
1 NO + 1 NC EB 1st Contact	23-24, 31-32	CA8-5...12		CA8-P-11	77.00
2 NO	23-24, 33-34	CA8-5...12		CA8-P-20	77.00
4 NC	51-52, 61-62, 71-72, 81-82	CA8-5...12, CS8		CS8-P-04E	111.00
2 NO + 2 NC	53-54, 83-84, 61-62, 71-72	CA8-5...12, CS8		CS8-P-22Z	111.00
3 NO + 1 NC	53-54, 73-74, 83-84, 61-62	CA8-5...12, CS8		CS8-P-31Z	111.00
4 NO	53-54, 63-64, 73-74, 83-84	CA8-5...12, CS8		CS8-P-40E	111.00
4 NC	21-22, 31-32, 41-42, 51-52	CA8-5...12		CA8-P-04	114.00
2 NO + 2 NC	23-24, 53-54, 31-32, 41-42	CA8-5...12		CA8-P-22	114.00
3 NO + 1 NC	23-24, 53-54, 31-32, 41-42	CA8-5...12		CA8-P-31	114.00
4 NO	23-24, 33-34, 43-44, 53-54	CA8-5...12		CA8-P-40	114.00

Mechanical Interlocks



CM8

Mounting	Contactor (Left)	Contactor (Right)	Item Type	Catalogue No.	\$AU
Top	All CA8	All CA8		CM8	32.00

Coil Suppressor Modules



CRC8-280

Type	Coil Voltage (V AC)	Coil Voltage (V DC)	Item Type	Catalogue No.	\$AU
Diode Module	-	12 - 250		CRD8-250	63.00
RC Module	110 - 280	-		CRC8-280	89.00

Power Wiring Kits



CAUT8-PW

Application	Contactor (compatible)	Item Type	Catalogue No.	\$AU
Reverse Starting	CA8-5...12		CAUT8-PW	80.00

CA7 Accessories

Auxiliary Contacts - Front Mount



CS7-PV-11

Mounting	Contacts	Contactor (compatible)	Item Type	Catalogue No.	\$AU
Front Mount	2 NC	CA7, CS7		CS7-PV-02	83.00
Front Mount	1 NO + 1 NC EB 1st Contact	CA7, CS7		CS7-PV-11	83.00
Front Mount	2 NO	CA7, CS7		CS7-PV-20	83.00
Front Mount	2 NC	CA7-30...97		CA7-PV-02	87.00
Front Mount	1 NO + 1 NC EB 1st Contact	CA7-30...97		CA7-PV-11	87.00
Front Mount	1 NO + 1 NC EB 1st Contact	CA7-9...23		CA7-PV-S11	87.00
Front Mount	2 NO	CA7-30...97		CA7-PV-20	88.00
Front Mount	4 NC	CA7, CS7		CS7-PV-04	117.00
Front Mount	2 NO + 2 NC	CA7, CS7		CS7-PV-22	117.00
Front Mount	3 NO + 1 NC	CA7, CS7		CS7-PV-31	117.00
Front Mount	4 NO	CA7, CS7		CS7-PV-40	117.00
Front Mount	1 NO + 1 NOEM + 1 NC + 1 NCLB	CA7, CS7		CS7-PV-L22	117.00
Front Mount	2 NO + 2 NC	CA7-30...97		CA7-PV-22	120.00
Front Mount	2 NO + 2 NC	CA7-9...23		CA7-PV-S22	120.00

Auxiliary Contacts - Side Mount

Mounting	Contacts	Contactors (compatible)	Item Type	Catalogue No.	\$AU
Side Mount	1 NC	CA7, CS7		CA7-PA-01	87.00
Side Mount	1 NO	CA7, CS7		CA7-PA-10	87.00
Side Mount	2 NC	CA7, CS7		CA7-PA-02	103.00
Side Mount	1 NO + 1 NC EB 1st Contact	CA7, CS7		CA7-PA-11	103.00
Side Mount	2 NO	CA7, CS7		CA7-PA-20	103.00
Side Mount	1 NOEM + 1 NCLB	CA7, CS7		CA7-PA-L11	105.00

CA7-PA-20

Contactors Mounted Pneumatic and Electronic Timers

Type (timer)	Function	Range	Item Type	Catalogue No.	\$AU
Pneumatic Timer	On Delay, Fixed	300ms ... 30s		CZE7-30	408.00
Pneumatic Timer	On Delay, Fixed	1.8s ... 3min		CZE7-180	424.00
Pneumatic Timer	Off Delay, Fixed	300ms ... 30s		CZA7-30	424.00
Pneumatic Timer	Off Delay, Fixed	1.8s ... 3min		CZA7-180	437.00
Electronic Timer	On Delay, Fixed	100ms ... 3s		CRZE7-3	285.00
Electronic Timer	On Delay, Fixed	1 ... 30s		CRZE7-30	285.00
Electronic Timer	On Delay, Fixed	10 ... 180s		CRZE7-180	312.00
Electronic Timer	Transition	1 ... 30s		CRZY7-30	424.00

CZE7-30

Mechanical Interlocks

Type	Contactors (left)	Contactors (right)	Contacts	Item Type	Catalogue No.	\$AU
Mechanical Interlock	All CA7 except CA7-40 and CA7-90	All CA7 except CA7-40 and CA7-90			CM7	97.00
Mechanical Interlock	All CA7 except CA7-40 and CA7-90	All CA7 except CA7-40 and CA7-90	2 NC		CM7-02	156.00

CM7

Control Interface Modules

Item Description	Item Type	Catalogue No.	\$AU
Electronic interface between PLC 24V DC control signal and contactor AC control circuit, suits all CA7 with 110-240V AC control		CRI7-E	260.00

CRI7-E

Coil Suppressor Modules

Type	Coil Voltage (V AC)	Coil Voltage (V DC)	Item Type	Catalogue No.	\$AU
Diode Module	-	12 - 250		CRD7-250V	93.00
RC Module	110 - 280	-		CRC7-280	116.00
RC Module	24 - 48	-		CRC7-48	116.00
Varistor Module	56 - 136	78 - 180		CRV7-136	126.00
Varistor Module	137 - 277	181 - 350		CRV7-277	126.00
Varistor Module	12 - 55	12 - 77		CRV7-55	126.00

CRD7-250V

Mechanical Latches

Un (V AC)	Un (V DC)	Contactors	Item Type	Catalogue No.	\$AU
230, 240	110	All CA7 except CA7-90		CV7-11-240VAC	408.00
24	12	All CA7 except CA7-90	I	CV7-11-24VAC	408.00
48	24	All CA7 except CA7-90		CV7-11-48VAC	408.00

CV7-11-240VAC



CA7-P-KN23

Terminal Connection Kits

Type	Poles	Contactor	AC-1 (A@415V,40°C)	AC-1 (A@415V,60°C)	Item Type	Catalogue No.	\$AU
Terminal Connection	3	CA7-9...23 (line side)	45	45		CA7-P-KN23	110.00
Terminal Connection	3	CA7-9...23 (load side)	45	45	I	CA7-P-KL23	110.00
Terminal Connection	3	CA7-30...37	60	55	I	CA7-P-K37	126.00
Terminal Connection	1	CA7-43...55	90	75	I	CA7-P-K43	54.00
Terminal Connection	1	CA7-60...97	130	130	I	CA7-P-K85	110.00



CA7-P-B23

Paralleling Links

Type	Poles	Contactor (compatible)	AC-1 (A@415V,40°C)	AC-1 (A@415V,60°C)	Item Type	Catalogue No.	\$AU
Bridging Link	3	CA7-9...23	100	100	I	CA7-P-B23	108.00

Connection Links for Motor Starters



CAUT7-PW23

Application	Contactor (compatible)	Item Type	Catalogue No.	\$AU
Reversing Starter	CA7-9...23		CAUT7-PW23	26.00
Reversing Starter	CA7-30...37		CAUT7-PW37	35.00
Reversing Starter	CA7-43...55		CAUT7-PW55	39.00
Reversing Starter	CA7-60...97		CAUT7-PW85	85.00
Star-delta Starter	CA7-9...23		CAYT7-PW23	37.00
Star-delta Starter	CA7-30...37		CAYT7-PW37	45.00
Star-delta Starter	CA7-43...55		CAYT7-PW55	48.00
Star-delta Starter	CA7-60...72		CAYT7-PW72	90.00

CA7 Spare Parts

Other voltages available on request.



CAC7-16-24VAC

Replacement AC Coils

Coil Voltage (V AC @50Hz)	Contactor (compatible)	Coil (type)	Item Type	Catalogue No.	\$AU
110	CA7-9...16, CS7	Conventional		CAC7-16-110VAC	102.00
240	CA7-9...16, CS7	Conventional		CAC7-16-240VAC	102.00
24	CA7-9...16, CS7	Conventional		CAC7-16-24VAC	102.00
415	CA7-9...16, CS7	Conventional		CAC7-16-415VAC	102.00
110	CA7-23...37	Conventional		CAC7-37-110VAC	155.00
240	CA7-23...37	Conventional		CAC7-37-240VAC	155.00
24	CA7-23...37	Conventional		CAC7-37-24VAC	155.00
415	CA7-23...37	Conventional		CAC7-37-415VAC	155.00
110	CA7-43...55, CA7-40	Conventional		CAC7-43-110VAC	174.00
240	CA7-43...55, CA7-40	Conventional		CAC7-43-240VAC	174.00
415	CA7-43...55, CA7-40	Conventional		CAC7-43-415VAC	174.00
110	CA7-60...85	Conventional		CAC7-85-110VAC	231.00
240	CA7-60...85	Conventional		CAC7-85-240VAC	231.00
24	CA7-60...85	Conventional		CAC7-85-24VAC	231.00
415	CA7-60...85	Conventional		CAC7-85-415VAC	231.00

CA9 Accessories

Auxiliary Contacts - Side Mount



CA9-S1-11

Mounting	Contacts	Contactor (compatible)	Item Type	Catalogue No.	\$AU
Inside Left / Right	1 NO + 1 NC EB 1st Contact	CA9-116...370		CA9-S1-11	75.00
Outside Left / Right	1 NO + 1 NC EB 1st Contact	CA9-116...370		CA9-S2-11	75.00
Inside Left / Right	1 NO + 1 NC EB 1st Contact	CA9-400...2650		CA9-S3-11	75.00
Outside Left / Right	1 NO + 1 NC EB 1st Contact	CA9-400...2650		CA9-S4-11	75.00
Inside Left / Right	1 NC	CA9-116...370	I	CA9-S1-B01	179.00
Inside Left / Right	1 NO	CA9-116...370		CA9-S1-B10	179.00

Terminal Lugs

Item Description	Wire Size	Item Type	Catalogue No.	\$AU
Terminal Lug Kit for CA9-116/146	2 x 16 mm ² to 70 mm ²		CA9-CL146	102.00
Terminal Lug for CA9-190/205	2 x 16 mm ² to 150 mm ²		CA9-TL205	304.00

Mechanical Interlocks

Mounting	Contactor 01	Contactor 02	Item Type	Catalogue No.	\$AU
Horizontal	CA9-116...370	CA9-116...370		CA9-M1-00	270.00
Horizontal	CA9-116...146	CA9-190...370	I	CA9-M4-00	270.00
Horizontal	CA9-190...205	CA9-265...370	I	CA9-M5-00	270.00
Horizontal	CA9-400...750, CA9-1260	CA9-400...750, CA9-1260		CA9-M2-00	715.00



CA9-M4-00

Terminal Shrouds

Item Description	Contactor (compatible)	Package Quantity (qty)	For Use With	Item Type	Catalogue No.	\$AU
Terminal Shrouds for CA9-190/205	CA9-190, CA9-205	2	Compression Lugs		CA9-TS205C	223.00
Terminal Shrouds for CA9-265/370	CA9-265, CA9-370	2	Compression Lugs		CA9-TS370C	223.00
Terminal Shrouds for CA9-116/146	CA9-116, CA9-146	2	Terminal Lugs		CA9-TS146L	231.00
Terminal Shrouds for CA9-190/205	CA9-190, CA9-205	2	Terminal Lugs		CA9-TS205L	231.00
Terminal Shrouds for CA9-400/460	CA9-400, CA9-460	2	Compression Lugs		CA9-TS460C	331.00
Terminal Shrouds for CA9-580/750/1260	CA9-580, CA9-750, CA9-1260	2	Compression Lugs		CA9-TS750C	394.00
Terminal Shrouds for CA9-580/750	CA9-580, CA9-750	2	Terminal Lugs		CA9-TS750L	401.00



CA9-TS205C



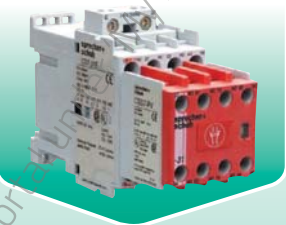
Terminal Covers

Item Description	Item Type	Catalogue No.	\$AU
Terminal Cover IP20 CA9-116/146 for DOL Starter		CA9-TC146	165.00
Terminal Cover IP20 CA9-190/205 for DOL Starter		CA9-TC205	211.00



CA9-TC146

Sprecher + Schuh Control Relay Selection Guide

	Control Relay		Safety Control Relay
			
Series	CS8	CS7	CSS7
Screw Terminals		✓	
Features	<ul style="list-style-type: none">• Mechanically linked contacts• Switch up to 690 V AC	<ul style="list-style-type: none">• Mechanically linked contacts• Timer and latch operations• Switch up to 690 V AC• CSS7 for safety circuits	
Contact Form	4...8 poles double break	4...12 poles double break	
Contact Type	Bifurcated	Cross stamp	
Mounting	DIN rail or panel mount		
Electrical			
Contact Ratings - AC-12 (control of resistive loads), 40°C, lth	10 A	20 A (relay) 10 A (front mounted auxiliary contacts)	
Contact Ratings - AC-15 (solenoids, contactors), Ie @ 240 V	2 A	10 A (relay) 5 A (front mounted standard auxiliary contacts)	
Min. Contact Rating	15 V, 2 mA	17 V, 10 mA (relay) 17 V, 5 mA (front mounted standard auxiliary contacts)	
Coil voltages	12...600 V AC 12...220 V DC	12...600 V AC 12...250 V DC	
Product Selection	310	311	312

CS8 Miniature Contactor Control Relays

Compact industrial control relays.

- Features low-profile design and 45mm width, permitting the use of enclosures with shallow mounting depths
- Utilises same accessories as CA8 contactors which require no additional panel space
- Available in AC or DC control coil versions to suit your application requirements
- DIN rail mountable for easy installation

CS8 Control Relays with AC Coil

240V AC coils are shown, other coil voltages are 24V AC, 110V AC and 415V AC. Simply replace '240' in the Catalogue No. with the required coil voltage. For example; for 24V AC coil voltage, CS8-22Z-240VAC becomes CS8-22Z-24VAC.



CS8-40E-240VAC

AC-12 (A@40°C)	AC-12 (A@60°C)	AC-15 (A@240V)	AC-15 (A@400V)	Contacts	Item Type	Catalogue No.	\$AU
10	6	2	1.2	2 NO + 2 NC		CS8-22Z-240VAC	232.00
10	6	2	1.2	3 NO + 1 NC		CS8-31Z-240VAC	232.00
10	6	2	1.2	4 NO		CS8-40E-240VAC	232.00

CS8 Control Relays with DC Coil

24V DC coil are shown, other coil voltages are 48V DC and 110V DC. Simply replace '24' in the Catalogue No. with the required coil voltage. For example; for 48V DC, CS8C-22Z-24VDC becomes CS8C-22Z-48VDC.

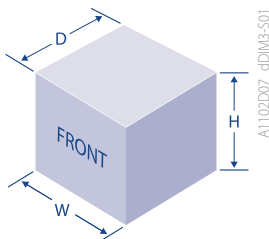


CS8C-40E-24VDC

AC-12 (A@40°C)	AC-12 (A@60°C)	AC-15 (A@240V)	AC-15 (A@400V)	Contacts	Item Type	Catalogue No.	\$AU
10	6	2	1.2	2 NO + 2 NC		CS8C-22Z-24VDC	391.00
10	6	2	1.2	3 NO + 1 NC		CS8C-31Z-24VDC	391.00
10	6	2	1.2	4 NO		CS8C-40E-24VDC	391.00

CS8 Control Relays Dimension Diagram. Dimensions not intended for manufacturing purposes.

AC or DC coil Cat. No.	H (mm)	W (mm)	D (mm)
CS8...	45	50	53



CS7 Contactor Control Relays

Industrial control relays.

- Available in AC or DC control coil versions to suit your application requirements
- Utilises same accessories as CA7 contactors which simplifies inventory requirements and maximises usability
- Reversible (line or load side) coil terminations provides total flexibility
- DIN rail mountable for easy installation

CS7 Control Relays with AC Coil

240V AC coils are shown, other coil voltages are 24V AC, 110V AC and 415V AC.

Simply replace '240' in the Catalogue No. with the required coil voltage.

For example; for 24V AC coil voltage, CS7-04E-240VAC becomes CS7-04E-24VAC.

AC-12 (A@40°C)	AC-12 (A@60°C)	AC-15 (A@240V)	AC-15 (A@400V)	Contacts	Item Type	Catalogue No.	\$AU
20	20	10	6	4 NC		CS7-04E-240VAC	281.00
20	20	10	6	2 NO + 2 NC		CS7-22E-240VAC	281.00
20	20	10	6	3 NO + 1 NC		CS7-31E-240VAC	281.00
20	20	10	6	4 NO		CS7-40E-240VAC	281.00



CS7-22E-240VAC

CS7 Control Relays with DC Coil

24V DC coil are shown, other coil voltages are 48V DC and 110V DC.

Simply replace '24' in the Catalogue No. with the required coil voltage.

For example; for 48V DC, CS7E-04E-24VDC becomes CS7E-04E-48VDC.

AC-12 (A@40°C)	AC-12 (A@60°C)	AC-15 (A@240V)	AC-15 (A@400V)	Contacts	Item Type	Catalogue No.	\$AU
20	20	10	6	4 NC		CS7E-04E-24E	529.00
20	20	10	6	2 NO + 2 NC		CS7E-22E-24VDC	529.00
20	20	10	6	3 NO + 1 NC		CS7E-31E-24VDC	529.00
20	20	10	6	4 NO		CS7E-40E-24VDC	529.00

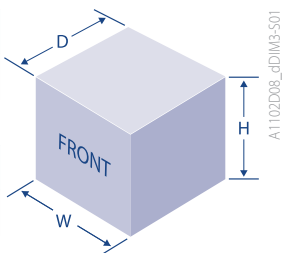


CS7E-04E-24E

CS7 Control Relays Dimension Diagram. Dimensions not intended for manufacturing purposes.

AC coil Cat. No.	H (mm)	W (mm)	D (mm)
CS7...	81	45	86.5

DC coil Cat. No.	H (mm)	W (mm)	D (mm)
CS7...	81	45	86.5



Note: 1) For coil voltages between 36 ... 220V DC add an additional 24mm.

CSS7 Safety Control Relays

Sprecher + Schuh CSS7 safety control relays meet IEC 60947-5-1 for mechanically linked contacts.

- Available in AC or DC control coil versions to suit your application requirements
- Utilises same accessories as CA7 contactors which simplifies inventory requirements and maximises usability
- DIN rail mountable for easy installation
- Red contact housing for easy identification

Ratings shown for safety control relays apply to base relay contacts only. For front mounted standard auxiliary contact ratings, consult NHP.

CSS7 Safety Relays with AC Coil

240V AC coils are shown, other standard coil voltages are 24V AC and 110V AC.

Simply replace '240' in the Catalogue No. with the required coil voltage.

For example, for 24V AC coil voltage, CSS7-44EC-240VAC becomes CSS7-44EC-24VAC.



CSS7-62EC-240VAC

AC-12 (A@60°C)	AC-15 (A@240V)	AC-15 (A@400V)	Base Contacts (base)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
20	10	6	3 NO + 1 NC	2 NO + 2 NC		CSS7-53EC-240VAC	401.00
20	10	6	3 NO + 1 NC	3 NO + 1 NC		CSS7-62EC-240VAC	401.00

CSS7 Safety Relays with DC Coil

24V DC coil are shown. Other voltages available on request.



CSS7E-53EC-24VDC

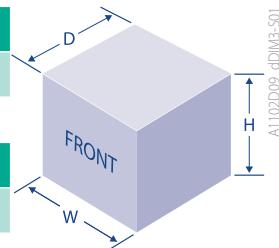
AC-12 (A@60°C)	AC-15 (A@240V)	AC-15 (A@400V)	Base Contacts (base)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
20	10	6	3 NO + 1 NC	2 NO + 2 NC		CSS7E-53EC-24VDC	626.00
20	10	6	3 NO + 1 NC	3 NO + 1 NC		CSS7E-62EC-24VDC	626.00

CSS7 Safety Control Relays Dimension Diagram, Dimensions not intended for manufacturing purposes.



AC coil Cat. No.	H (mm)	W (mm)	D (mm)
CSS7...	81	45	125.5

DC coil Cat. No.	H (mm)	W (mm)	D (mm)
CSS7...	81 ¹⁾	45	125.5

Note: 1) For coil voltages between 36 ... 220V DC add an additional 24mm.



Allen-Bradley Contactor Selection Guide

Type	Contactors	
		
Bulletin	100-K	100-C
AC-3 Current Rating	5...12 A	9...97 A
Features	<ul style="list-style-type: none"> • Mini-contactors • Uniform panel mounting dimensions • Panel mounting or mounting on 35mm DIN rail • AC or DC coil control • Made of environmentally friendly materials 	<ul style="list-style-type: none"> • Panel mounting or mounting on 35mm DIN rail • AC or DC coil control • Reversible coil terminals (line or load side) • Common accessories • Made of environmentally friendly materials
Coil Voltages	AC: 24...600 V AC, 50/60 Hz DC: 12...250 V DC	AC = 12...600 V, 50/60 Hz DC = 9...250 V
Contacts	3 main poles with internal N/O or N/C auxiliary contact, or 4 main poles Optional front-mounted 2- or 4-pole external auxiliary contact block	3 main poles with internal N/O or N/C auxiliary contact, or 4 main poles Optional front - or side-mounted 1-, 2- or 4-pole external auxiliary contact block
Optional Overload Relays	Bi-metallic (193-K)	Advanced Electronic (E300), Electronic (193-E1) or bi-metallic (193-T1)
Optional Accessories	<ul style="list-style-type: none"> • Front-mount auxiliary contacts • Surge suppressors • Electronic timers • Mechanical interlocks 	<ul style="list-style-type: none"> • Front or side-mount auxiliary contacts • Surge suppressors • Electronic or pneumatic timers • Mechanical interlocks • Mechanical latches
Page	315	316

Safety Contactors



100-E

9...1060 A

- Panel mounting or mounting on 35 mm DIN rail
- **E09...E370**
AC/DC electronic coil or optional with PLC interface on E116...E370
- **E400...E2650**
AC/DC with PLC interface
- Made of environmentally friendly materials

24...500 V, 50/60 Hz / DC

3 main poles with 2 auxiliary contacts (1N/O and 1N/C) on E116...E2650
Optional side-mounted 2-pole external auxiliary contact block

Advanced Electronic (E300) or
Electronic (193-1)

- Side-mount auxiliary contacts
- Mechanical interlocks
- Terminal lugs
- Terminal shields
- Connecting bars

317



100S-C

9...97 A

- Mechanically linked auxiliary contacts
- Front-mounted auxiliary contacts:
 - Permanently fixed
 - Protective cover to prevent manual operation
 - Red contact housing for easy identification
 - Incorporates IEC 947-5-1 "Mechanically Linked" symbol
- AC and DC operating coils
- SUVA third-party certification

AC = 12...600 V, 50/60 Hz
DC = 12...250 V

3 main poles with N/C mechanically linked or
mirror feedback contacts

Advanced Electronic (E300),
Electronic (193-1)
or bi-metallic (193-T1)

- Side-mount auxiliary contacts
- Surge suppressors
- Electronic timers
- Mechanical interlocks

318



100S-E

9...750 A

- Mirror contact performance on auxiliary contacts
- Red N/C low-power auxiliary contact used for feedback circuit
- SUVA third-party certification
- AC and DC operating coils
- "Mirror Contact" symbol on front

24...500 V, 50/60 Hz / DC

3 main poles with N/C mirror feedback contacts

Advanced Electronic (E300) or
Electronic (193-1)

- Side-mount auxiliary contacts
- Terminal shields
- Terminal lugs
- Terminal enlargements
- Terminal extensions
- Connection bars for 140G molded case circuit breakers, 140MG motor protection circuit breakers, and 140MG motor circuit protectors

319

A1101D_dCHRT-504

Contactors

Allen-Bradley Contactors

- Several contactor families provide a wide variety of contactor sizes, offering economy and selection
- Compact dimensions saves panel space

3 and 4 pole contactors.

We offer a full line of reliable and robust contactors with choice of AC or DC control. They are environmentally friendly, versatile and flexible.



Bulletin 100-K Miniature Contactors

Allen-Bradley Bulletin 100-K miniature contactors are designed for commercial and light industrial applications where panel space is at a premium. These miniature devices, while 45mm wide, are shallower and have less panel depth requirements than standard IEC contactors. The miniature contactors have been designed with flexibility in mind. They are available with AC or DC operating coils, several contact ratings, and optional 2- or 4-pole adder decks in a variety of auxiliary contact configurations.

Compact Contactors suited for up to 690V, in ratings of 5A, 9A and 12A AC-3 at 415V.

- Features low-profile design and 45mm width, permitting the use of enclosures with shallow mounting depths
- Accessories require no additional panel space
- Available in AC or DC control coil versions to suit your application requirements
- DIN rail mountable for easy installation

3-Pole Contactors with AC Coil

240V AC coil (KA) or 230V AC coil (KF) listed

Standard coil voltages: 24V AC (KJ) and 110V AC (D) are also available.

Simply replace coil code 'KA' in the Catalogue No. with the required coil voltage code.

For example, for 24V AC coil voltage, 100-K05KA01 becomes 100-K05KJ01.

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main pole)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
2.2kW / 4.9A	2.2kW / 2.8A	20A @415V	3 NO	1 NC	I	100-K05KA01	155.19
2.2kW / 4.9A	2.2kW / 2.8A	20A @415V	3 NO	1 NO	I	100-K05KA10	155.19
4kW / 8.5A	4kW / 4.9A	20A @415V	3 NO	1 NC		100-K09KA01	172.44
4kW / 8.5A	4kW / 4.9A	20A @415V	3 NO	1 NO		100-K09KA10	172.44
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	3 NO	1 NC	I	100-K12KA01	209.64
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	3 NO	1 NO	I	100-K12KA10	209.64



100-K05KA01

3-Pole Contactors with DC Coil

24V DC (DJ) coil listed.

Standard coil voltages: 12V DC (ZQ), 110V DC (ZD) and 220V DC (ZA) are also available.

Simply replace coil code 'DJ' in the Catalogue No. with the required coil voltage code.

For example, for 12V DC coil voltage, 100-K05DJ01 becomes 100-K05ZQ01.

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main pole)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
2.2kW / 4.9A	2.2kW / 2.8A	20A @415V	3 NO	1 NC		100-K05DJ01	255.15
2.2kW / 4.9A	2.2kW / 2.8A	20A @415V	3 NO	1 NO		100-K05DJ10	255.15
4kW / 8.5A	4kW / 4.9A	20A @415V	3 NO	1 NC		100-K09DJ01	271.61
4kW / 8.5A	4kW / 4.9A	20A @415V	3 NO	1 NO		100-K09DJ10	271.61
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	3 NO	1 NC	I	100-K12DJ01	324.29
5.5kW / 11.5A	5.5kW / 6.7A	20A @415V	3 NO	1 NO		100-K12DJ10	324.29

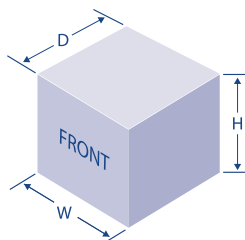


100-K05DJ10

100-K Contactors Dimension Diagram. Dimensions not intended for manufacturing purposes.

AC or DC coil Cat. No.	H (mm)	W (mm)	D (mm)
100K...	50	45	53

A1101D01_dDIM3-S01



Bulletin 100-C Contactors

The Bulletin 100-C IEC contactor family, along with a wide range of common accessories and Bulletin 193 solid-state overload relays, provides one of the most compact and flexible starter component systems available. 3-pole contactors listed, 4-pole contactors also available. Contactors suited for up to 690V, in ratings of 9A to 97A / 4kW to 55kW AC-3 at 415V.

- Available in AC or DC control coil versions to suit application requirements
- Common accessories for all size contactors, minimising inventory and maximising flexibility
- Reversible (line or load side) coil terminations for total flexibility
- DIN rail mountable for easy installation

3-Pole Contactors with AC Coil

240V AC coil (T) listed.

Standard coil voltages: 24V AC (KJ), 110V AC (D), 415V (G) also available.

Simply replace coil code 'T' or 'KJ' in the Catalogue No. with the required coil voltage code.

For example, for 24V AC coil voltage, 100-C09T01 becomes 100-C09K01.



100-C09T01

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main poles)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
4kW / 9A	4kW / 5A	32A @415V	3 NO	1 NC		100-C09T01	174.71
4kW / 9A	4kW / 5A	32A @415V	3 NO	1 NO		100-C09T10	174.71
5.5kW / 12A	5.5kW / 7A	32A @415V	3 NO	1 NC		100-C12T01	217.82
5.5kW / 12A	5.5kW / 7A	32A @415V	3 NO	1 NO		100-C12T10	217.82
7.5kW / 16A	7.5kW / 9A	32A @415V	3 NO	1 NC		100-C16T01	281.49
7.5kW / 16A	7.5kW / 9A	32A @415V	3 NO	1 NO		100-C16T10	281.49
11kW / 23A	10kW / 12A	32A @415V	3 NO	1 NC		100-C23T01	435.04
11kW / 23A	10kW / 12A	32A @415V	3 NO	1 NO		100-C23T10	435.04
15kW / 30A	15kW / 18A	65A @415V	3 NO	1 NO		100-C30T10	566.79
20kW / 37A	18.5kW / 21A	65A @415V	3 NO	1 NO		100-C37T10	661.65
22kW / 43A	22kW / 25A	85A @415V	3 NO	1 NO		100-C43T10	782.49
30kW / 55A	22kW / 30A	85A @415V	3 NO	1 NO	I	100-C55T10	887.68

3-Pole Contactors with DC Coil

24V DC coil listed.



100-C09EJ01

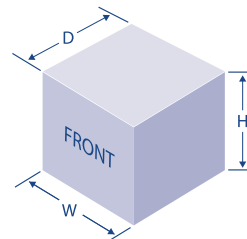
AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-1 (40°C)	Contacts (main poles)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
4kW / 9A	4kW / 5A	32A @415V	3 NO	1 NC		100-C09EJ01	407.92
4kW / 9A	4kW / 5A	32A @415V	3 NO	1 NO		100-C09EJ10	407.92
5.5kW / 12A	5.5kW / 7A	32A @415V	3 NO	1 NC	I	100-C12EJ01	478.26
5.5kW / 12A	5.5kW / 7A	32A @415V	3 NO	1 NO		100-C12EJ10	478.26
7.5kW / 16A	7.5kW / 9A	32A @415V	3 NO	1 NC		100-C16EJ01	576.40
7.5kW / 16A	7.5kW / 9A	32A @415V	3 NO	1 NO		100-C16EJ10	576.40
11kW / 23A	10kW / 12A	32A @415V	3 NO	1 NC		100-C23EJ01	669.57
11kW / 23A	10kW / 12A	32A @415V	3 NO	1 NO		100-C23EJ10	669.57
15kW / 30A	15kW / 18A	65A @415V	3 NO	1 NO	I	100-C30EJ10	862.21
20kW / 37A	18.5kW / 21A	65A @415V	3 NO	1 NO		100-C37EJ10	1,011.70
22kW / 43A	22kW / 25A	85A @415V	3 NO	1 NO		100-C43EJ10	1,126.32
30kW / 55A	22kW / 30A	85A @415V	3 NO	1 NO	I	100-C55EJ10	1,222.35

100-C Contactors Dimension Diagram. Dimensions not intended for manufacturing purposes.

AC coil Cat. No.	H (mm)	W (mm)	D (mm)
100-C09...23	81	45	86.5
100-C30...37	81	45	104
100C-43...55	81	54	107
100C-60...97	122	72	125.5

DC coil Cat. No.	H (mm)	W (mm)	D (mm)
100-C09...23	81 ¹⁾	45	86.5
100-C30...37	81 ¹⁾	45	104
100C-43...55	81 ¹⁾	54	107
100C-60...97	122	72	125.5

1) For coil voltages 36 ... 220V DC add an additional 24mm.



A1101D02_dDIM3-501

Bulletin 100-E Contactors

The Bulletin 100-E contactor family combines the simple function of our popular 100-C series with the rugged performance demanded in this wide kilowatt range. 100-E contactors offer a smaller footprint than traditional contactors in this size class.

Contactors are available in ratings of 116A through to 1060A AC-3 @ 415V and have ratings up to 1000V AC.

- Simplifies selection with electronic wide-range AC/DC coils
- Available integrated PLC interface
- Saves energy with low power consumption
- Includes built-in surge suppression

Catalogue Number Construction

This chart provides a general guide to creating a 100-E catalogue number to match your application. Not all possible combinations are valid.

100-E	116	KD	11	L
BULLETIN NUMBER				
Contactor	100-E			
Safety Contactor	100S-E			
CONTACTOR SIZE				
AC-3, 400 / 415V	100-E...	100S-E...		
116A	116	116		
146A	146	146		
190A	190	190		
205A	205	205		
265A	265	265		
305A	305	305		
370A	370	370		
400A	400	400		
460A	460	460		
580A	580	580		
750A	750	750		
860A	860			
1060A	1060			
1260A ¹⁾	1260			
2050A ¹⁾	2050			
2650A ¹⁾	2650			
CONTROL VOLTAGE				
V	Coil Code	Sizes		
24-60V AC/DC	KJ	116...370		
48-130V AC/DC	KY	116...370		
100-250V AC/DC	KD	116...370		
250-500V AC/DC	KN	116...370		
24-60V DC (w/ PLC Input)	EJ	400...750, 1260		
48-130V AC/DC (w/ PLC Input)	EY	400...750, 1260		
100-250V AC/DC (w/ PLC Input)	ED	116...2650		
250-500V AC/DC (w/ PLC Input)	EN	116...750, 1260		
100-E CONTACTORS				
Std. Aux. Contacts	N/O	N/C	Ref No.	
	1	1	11	
100-E SAFETY CONTACTORS				
Std. Aux. Contacts	Low Power Aux. Contacts	Ref No.		
N/O	N/C	N/O	N/C	
1	1	0	1	12C
OPTIONS				
Connections	Sizes	Ref No.		
Bar Connections	116...2650	blank		
With Built-in Lugs	116...146	L		

Note: 1) AC-1 only

3 Pole AC/DC Coil

100...250V AC/DC coil (KD) listed.

All 100-E contactor include one auxiliary contact block (1 N/O and 1 N/C) mounted on the inside left position

AC-3 (415V, 60°C)	AC-3 (690V, 60°C)	AC-3 (1kV, 60°C)	AC-1 (690V / 1kV, 40°C)	Coil (type)	Item Type	Catalogue No.	\$AU
55kW / 116A	55kW / 65A	55kW / 46A	160A / 160A	Electronic	I	100-E116KD11	1,763.38
75kW / 146A	90kW / 93A	75kW / 60A	225A / 225A	Electronic		100-E146KD11	2,138.15
90kW / 190A	132kW / 135A	110kW / 85A	275A / 250A	Electronic		100-E190KD11	3,123.17
110kW / 205A	160kW / 165A	132kW / 100A	350A / 275A	Electronic		100-E205KD11	3,543.59
132kW / 265A	200kW / 250A	132kW / 100A	400A / 350A	Electronic		100-E265KD11	4,035.64
160kW / 305A	250kW / 290A	132kW / 100A	500A / 375A	Electronic		100-E305KD11	4,516.58
200kW / 370A	315kW / 315A	132kW / 100A	600A / 400A	Electronic	I	100-E370KD11	6,043.02

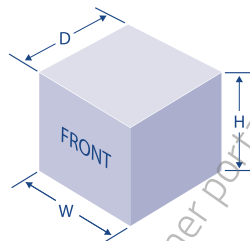


100-E116KD11

Bulletin 100-E Contactor Dimensions 55 to 630kW.

Coil Cat. No.	H (mm)	W (mm)	D (mm)
100-E116K, 146K	150	90	126
100-E116E, 146E	150	90	142.5
100-E190, 100-E205	196	105	152
100-E190E, 100-E205E	196	105	169.5
100-E265...E370	225	140	180
100-E265E...100-E370E	225	140	195.5
100-E400, 100-E460	268	186	216
100-E580...100-E750	273	210	242
100-E1260	344	210	242
100-E860, 100-E1060, 100-E2050	392	438	244
100-E2650	422	438	244

A1101D13_dDIM3-S01



Bulletin 100S-C Safety Contactors

Bulletin 100S-C safety contactors are proven in machine safety applications, providing mirror contacts auxiliary performance, with third party certification by SUVA to IEC 60947-4-1. In addition, Bulletin 100S-C safety contactors meet the requirement of mechanically linked contacts to IEC 60947-5-1. The contactors are protected against unintended operation and the auxiliary contacts cannot be removed. Optional gold-plated bifurcated auxiliary contacts (denoted by suffix "BC" in Catalogue No.) are ideally suited for low-energy applications or feedback control circuits with multiple series connected N/C auxiliary contacts.

- Permanently installed cover to prevent manual operation
- Gold plated, bifurcated auxiliary contacts for high contact reliability
- Red contact housing for easy identification

3-Pole Safety Contactors with AC Coil

240V AC coil (T) listed. Other voltages available on request.

Auxiliary contact type: BC = bifurcated and C = standard. Additional auxiliary contact configurations available on request.



100S-C09T14BC

AC-3 (415V, 60°C)	Contacts (main poles)	Contacts (auxiliary)	Coil (type)	Item Type	Catalogue No.	\$AU
4kW / 9A	3 NO	1 NO + 4 NC	Conventional		100S-C09T14BC	359.69
5.5kW / 12A	3 NO	1 NO + 4 NC	Conventional		100S-C12T14BC	397.20
7.5kW / 16A	3 NO	1 NO + 4 NC	Conventional		100S-C16T14BC	488.90
11kW / 23A	3 NO	1 NO + 4 NC	Conventional		100S-C23T14BC	719.07
15kW / 30A	3 NO	1 NO + 4 NC	Conventional		100S-C30T14BC	858.29
20kW / 37A	3 NO	1 NO + 4 NC	Conventional		100S-C37T14BC	953.14
22kW / 43A	3 NO	1 NO + 4 NC	Conventional		100S-C43T14BC	1,105.75

3-Pole Safety Contactors with DC Coil

24V DC coil listed. Other voltages available on request.

Auxiliary contact type: BC = bifurcated and C = standard. Additional auxiliary contact configurations available on request.



100S-C09EJ14BC

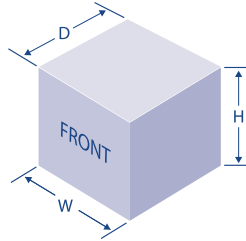
AC-3 (415V, 60°C)	Contacts (main poles)	Contacts (auxiliary)	Coil (type)	Item Type	Catalogue No.	\$AU
4kW / 9A	3 NO	1 NO + 4 NC	Electronic w/ Integrated Diode		100S-C09EJ14BC	705.02
5.5kW / 12A	3 NO	1 NO + 4 NC	Electronic w/ Integrated Diode		100S-C12EJ14BC	758.54
7.5kW / 16A	3 NO	1 NO + 4 NC	Electronic w/ Integrated Diode		100S-C16EJ14BC	882.85
11kW / 23A	3 NO	1 NO + 4 NC	Electronic w/ Integrated Diode		100S-C23EJ14BC	996.56
15kW / 30A	3 NO	1 NO + 4 NC	Electronic w/ Integrated Diode		100S-C30EJ14BC	1,198.55
20kW / 37A	3 NO	1 NO + 4 NC	Electronic w/ Integrated Diode		100S-C37EJ14BC	1,348.03
22kW / 43A	3 NO	1 NO + 4 NC	Electronic w/ Integrated Diode		100S-C43EJ14BC	1,453.32

100S-C Contactors Dimension Diagram. Dimensions not intended for manufacturing purposes.

AC coil Cat. No.	H (mm)	W (mm)	D (mm)
100SC09...23	81	45	125.5
100SC30...37	81	45	143
100SC43...55	81	54	146
100SC60...97	122	72	164.5

DC coil Cat. No.	H (mm)	W (mm)	D (mm)
100SC09E...23E	81 ¹⁾	45	125.5
100SC30E...37E	81 ¹⁾	45	143
100SC43E...55E	81 ¹⁾	45	146
100SC60D...97D	122	72	164.5

1) For coil voltages 36 ... 220V DC add an additional 24mm.



Bulletin 100S-E Safety Contactors

The Bulletin 100S-E Safety Contactors provide mirror contact performance up to 750A, which are required in feedback circuits for modern safety applications. Bulletin 100S Safety Contactor provide safe isolation of hazardous motion loads, using mirror contact performance. Mirror contacts provide reliable indication about the open or closed status of the main power poles.

All 100S-E Safety Contactors come with the "12" auxiliary contact option in the Catalogue No. The contactor includes a 1N/C low power safety auxiliary contact fitted on the right hand side (red colour, factory sealed). No additional contact blocks can be added to the right hand side. In addition, the contactor includes a 1N/O and 1 N/C standard auxiliary contact fitted on the left hand side (grey colour, removable). An additional auxiliary contact block can be added to the left hand side (outside left position) if required (order separately).

- Mirror contact performance on auxiliary contacts
- Red N/C low-power auxiliary contact for feedback circuit
- Simplifies selection with electronic wide-range AC/DC coils

3 Pole AC/DC Coil

100...250V AC/DC coil (KD) listed.

AC-3 (415V, 60°C)	Contacts (main poles)	Coil (type)	Item Type	Catalogue No.	\$AU
55kW / 116A	3 NO	Electronic		100S-E116KD12C	1,909.92
75kW / 146A	3 NO	Electronic		100S-E146KD12C	2,284.69
90kW / 190A	3 NO	Electronic	I	100S-E190KD12C	3,243.30
110kW / 205A	3 NO	Electronic	I	100S-E205KD12C	3,663.72
132kW / 265A	3 NO	Electronic		100S-E265KD12C	4,161.11
160kW / 305A	3 NO	Electronic		100S-E305KD12C	4,642.04
200kW / 370A	3 NO	Electronic	I	100S-E370KD12C	6,168.48



100S-E116KD12C

Accessories

100-C Accessories

Auxiliary Contacts - Front Mount

Mounting	Contacts	Contactor	Item Type	Catalogue No.	\$AU
Front Mount	1 NO + 1 NC EB 1st Contact	100-C, 700-CF		100-FA11	53.65
Front Mount	2 NO	100-C, 700-CF		100-FA20	53.65
Front Mount	2 NO + 2 NC	100-C, 700-CF		100-FA22	105.91
Front Mount	3 NO + 1 NC	100-C, 700-CF		100-FA31	105.91



100-FA20

Auxiliary Contacts - Side Mount

Mounting	Contacts	Contactor	Item Type	Catalogue No.	\$AU
Side Mount	1 NO	100-C		100-SA10	33.43
Side Mount	1 NC	100-C		100-SB01	33.43
Side Mount	1 NO + 1 NC EB 1st Contact	100-C		100-SA11	53.65
Side Mount	2 NO	100-C		100-SA20	53.65
Side Mount	1 NO + 1 NC EB 1st Contact	100-C		100-SB11	53.65
Side Mount	2 NO	100-C		100-SB20	53.65



100-SA10



100-MCA00

Mechanical Interlocks

Type	Contactor (left)	Contactor (right)	Contacts (aux)	Item Type	Catalogue No.	\$AU
Mechanical Interlock	All 100-C except 100-C40 and 100-C90	All 100-C except 100-C40 and 100-C90			100-MCA00	81.98
Mechanical Interlock	All 100-C except 100-C40 and 100-C90	All 100-C except 100-C40 and 100-C90	2 NC		100-MCA02	98.96

Coil Interface Modules



100-JE

Item Description	Item Type	Catalogue No.	\$AU
PLC interface 24V DC, to suit 100-C - 110..240V AC Coils		100-JE	218.81

100-E Accessories

Auxiliary Contacts - Side Mount

Mounting	Contacts	Contactor (compatible)	Item Type	Catalogue No.	\$AU
Inside Left / Right	1 NO + 1 NC EB 1st Contact	100-E116...E370		100-ES1-11	65.21

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Bulletin 700-CF Industrial Control Relays

Industrial control relays.

- Available in AC or DC control coil versions to suit your application requirements
- Utilises same accessories as 100-C contactors which simplifies inventory requirements and maximises usability
- Reversible (line or load side) coil terminations provides total flexibility
- DIN rail mountable for easy installation

Allen-Bradley Control Relay Selection Guide



Bulletin	700-K	700-CF	700S-CF
Screw Terminals	✓		
Features	<ul style="list-style-type: none">• Mechanically linked contacts• Switch up to 690 V AC	<ul style="list-style-type: none">• Mechanically linked contacts• Timer and latch operations• Switch up to 690 V AC• Bulletin 700S-CF for safety circuits	
Contact Form	4...8 poles double break	4...12 poles double break	
Contact Type	Bifurcated	Cross stamp or bifurcated	
Mounting	DIN rail or panel mount		
Electrical			
Contact Ratings - AC-12 (control of resistive loads), 40°C, I _{th}	10 A	20 A (relay) 10 A (front mounted auxiliary contacts)	
Contact Ratings - AC-15 (solenoids, contactors), I _e @ 240 V	2 A	10 A (relay) 5 A (front mounted standard auxiliary contacts) 3 A (front mounted bifurcated auxiliary contacts)	
Min. Contact Rating	15 V, 2 mA	17 V, 10 mA (relay) 17 V, 5 mA (front mounted standard auxiliary contacts) 5 V, 3 mA (front mounted bifurcated auxiliary contacts)	
Coil voltages	12...600 V AC 12...220 V DC	12...600 V AC 12...250 V DC	
Product Selection	Contact NHP	321	

4-Pole Relays with DC Coil

24V DC coils listed.

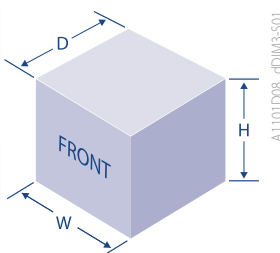
AC-12 (A@40°C)	AC-12 (A@60°C)	AC-15 (A@240V)	AC-15 (A@400V)	Contacts	Item Type	Catalogue No.	\$AU
20	20	10	6	2 NO + 2 NC		700-CF220EJ	258.11
20	20	10	6	3 NO + 1 NC		700-CF310EJ	258.11
20	20	10	6	4 NO	I	700-CF400EJ	258.11



700-CF220EJ

700-CF Control Relays Dimension Diagram. Dimensions not intended for manufacturing purposes.

AC coil Cat. No.	H (mm)	W (mm)	D (mm)
700CF...	81	45	86.5
DC coil Cat. No.	H (mm)	W (mm)	D (mm)
700CF...	81 ¹⁾	45	86.5



Note: 1) For coil voltages between 36 ... 220V DC add an additional 24mm.

Contactors

Ghisalba Contactors



- Various contactor families, providing a wide variety of contactor sizes, offering economy and selection

3 and 4 pole contactors, 4 to 710kW @ 415V AC and 280 to 500kW @ 1000V AC. DC Switching contactors for up to 1000V DC.

GH15 Contactor Range

4 pole contactors for commercial and industrial applications. 3 pole versions also available, contact NHP

4 Pole Contactors

4 pole contactors with normally open and / or normally closed main poles.
240V AC coil listed, other AC and DC coil voltages available on request.



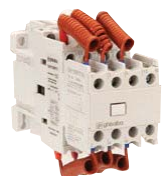
GH15BN-04-240VAC

AC-3 (415V, 55°C)	AC-1 (A@415V, 40°C)	Contacts (main poles)	Item Type	Catalogue No.	\$AU
4.3kW / 9A	25	4 NC		GH15BN-04-240VAC	443.00
18.5kW / 40A	63	4 NC		GH15GN-04-240VAC	1,538.00
18.5kW / 40A	63	4 NO		GH15GN-40-240VAC	1,186.00
22kW / 50A	80	4 NO		GH15HN-40-240VAC	1,361.00
30kW / 63A	100	4 NO		GH15JN-40-240VAC	1,871.00
47kW / 95A	135	4 NC		GH15LN-04-240VAC	2,931.00
47kW / 95A	135	4 NO		GH15LN-40-240VAC	2,682.00

Capacitor Switching Contactors

3 pole contactors with pre-charge resistors. 240V AC coil listed.

- High switching reliability
- Compact design minimises panel space requirements



GH15-RF5-240VAC

kvar AC-6b (kvar @230V, 55°C)	kvar AC-6b (kvar @400V, 55°C)	Contacts (auxiliary)	Item Type	Catalogue No.	\$AU
7.5	15	1 NO + 1 NC EB 1st Contact		GH15-RF1-240VAC	523.00
25	50	1 NO		GH15-RF5-240VAC	1,855.00

Accessories for Ghisalba contactors

GH15 Accessories



BMOH-MI

Item Description	Item Type	Catalogue No.	\$AU
Mechanical Interlock, Horizontal, to suit GH15-BN...LN / GH15-ET...MT		BMOH-MI	102.00
Mechanical Interlock, Horizontal, to suit GH15-MN...TN / GH15-NT...TT		BM3H	296.00
Auxiliary Contact, Top Mount, 1x N/O 1x N/C, to suit GH15		GH15-T11	123.00
Auxiliary Contact, Top Mount, 2x N/O 2x N/C, to suit GH15		GH15-T22	153.00
Auxiliary Contact, Side Mount, 1x N/O 1x N/C, to suit GH15		GH15-S11	130.00

Motor Protection



Sprecher + Schuh Overloads

- Choice of overload type to suit your application requirements
- Compact dimensions saves panel space

Sprecher + Schuh offers cost-effective motor protection overloads with a choice of thermal bi-metallic or electronic type overloads. Both are high-quality, long-life devices designed to connect seamlessly with the CA7 or CA8 contactor families.



Sprecher + Schuh Overload Relay Selection Guide

	Bi-metallic Overload Relay		Electronic Overload Relay	
				
Series	CT8	CT7N	CEP7-1EE	CEP7-1EF
Motor FLC (A, min - max)	0.1 - 12.5	0.1 - 90	0.1 - 100	0.1 - 800
Operating voltage, Nominal, V AC	690	690	690	690 / 1000
Overload type	Bi-metallic	Bi-metallic	Solid state	Solid state
Trip class (Fixed)	10A	10A / 10	-	-
Trip class (Adjustable)	-	-	10, 20	10, 15, 20, 30
Ambient temperature compensated	✓	✓	✓	✓
Reset type	Auto, manual	Auto, manual	Manual	Auto, manual
Adjustment range	1.5 : 1	1.5 : 1	5 : 1	5 : 1
Phase loss protection	Normal sensing	Normal sensing	Enhanced sensing	Enhanced sensing
Overcurrent (Jam) Protection	-	-	-	With Protection Accessory
Ground (Earth) Protection	-	-	-	With Protection Accessory
Remote Indication and Reset	-	-	-	Optional
N/C Trip Contact	-	✓	✓	✓
N/O Alarm Contact	✓	✓	✓	✓
Mounts to contactors	CA8	CA7	CA7	CA7
Page	326	327	324	324

A1602D_dCHRT-301

Catalogue Number Construction

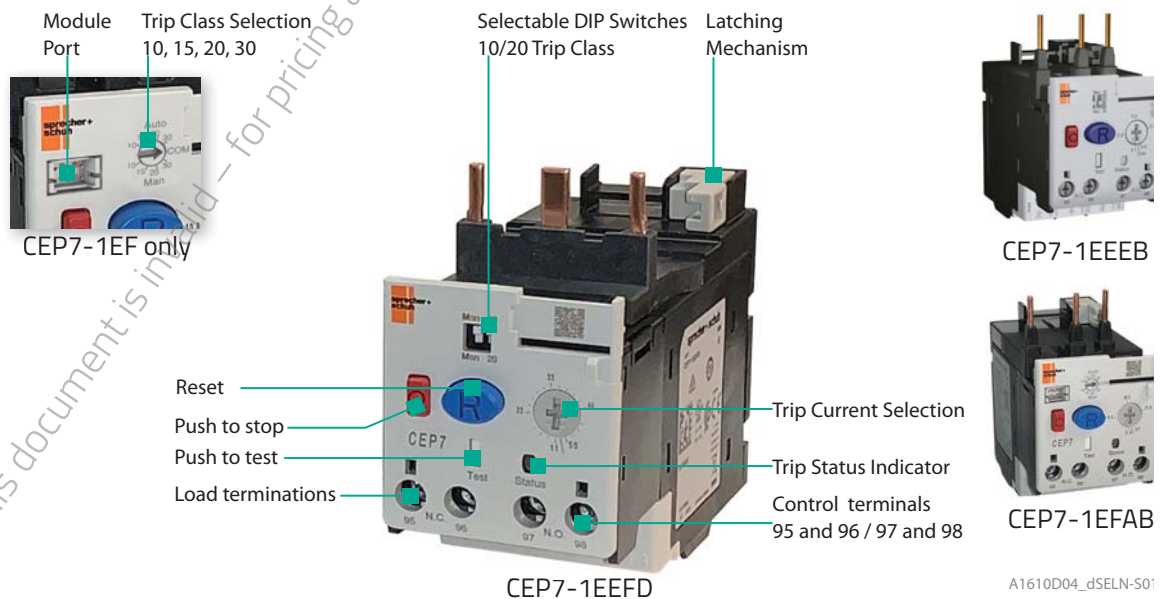
CEP7		1	EF	C	D
TYPE		ADJUSTMENT RANGE (A)		SERIES CA_CONTACTOR SIZE	
Code	Description	Code	Description	Code	Description
EE	Basic	A	0.1...0.5	B	CA7-9...23
EF	Advanced	B	0.2...1.0	D	CA7-30...55
		C	1.0...5.0	E	CA7-60...97
		D	3.2...16		
		E	5.4...27		
		F	11...55		
		G	20...100		
		H	30...150		
		J	40...200		
		K	60...300		
		L	100...500		
		M	120...600		
		N	160...800		
		W	80...400		

CEP7 Gen 3 Electronic Overloads

The new Sprecher + Schuh CEP7 Gen 3 overload relays can help customers better protect their motors and avoid unplanned downtime due to motor failure. As the next generation Sprecher + Schuh electronic overload relays, it more accurately measures a motor's current load, models its temperature and can de-energise the motor to help minimise potential equipment damage due to overheating.

- CEP7-1EE: Trip Class 10 and 20, manual reset only
- CEP7-1EF: Trip Class 10, 15, 20, 30, manual or automatic reset
- 5:1 wide current adjustment range to cover a variety of motor applications
- Supports both single and three-phase operation in a single component
- A variety of accessories available for enhanced protection
- Current measurement-based protection
- Electronic design and thermal memory
- Phase loss protection
- Self-powered and direct-mount design with CA7 contactors

Features Overview



CEP7 Gen 3 Standard Electronic Overload Relays

kW AC-3 (kW @415V)	Overload Range (A, min - max)	Item Type	Catalogue No.	\$AU
0.02 - 0.12	0.1 - 0.5		CEP7-1EEAB	268.00
0.06 - 0.25	0.2 - 1		CEP7-1EEBB	268.00
0.25 - 2.2	1 - 5		CEP7-1EECB	268.00
1.5 - 7.5	1.5 - 7.5		CEP7-1EEDB	268.00
2.2 - 15	5.4 - 27		CEP7-1EEEB	268.00
2.2 - 15	5.4 - 27	I	CEP7-1EEED	410.00
5.5 - 30	11 - 55		CEP7-1EEFD	410.00
11 - 55	20 - 100		CEP7-1EEGE	441.00



CEP7-1EEEB

CEP7 Gen 3 Enhanced Electronic Overload Relays

kW AC-3 (kW @415V)	Overload Range (A, min - max)	Item Type	Catalogue No.	\$AU
0.02 - 0.12	0.1 - 0.5		CEP7-1EFAB	285.00
0.06 - 0.25	0.2 - 1		CEP7-1EFBB	285.00
0.25 - 2.2	1 - 5		CEP7-1EFCB	285.00
1.5 - 7.5	3.2 - 16		CEP7-1EFDB	285.00
2.2 - 15	5.4 - 27		CEP7-1EFEB	285.00
2.2 - 15	5.4 - 27		CEP7-1EFED	449.00
5.5 - 30	11 - 55		CEP7-1EFFD	449.00
11 - 55	20 - 100		CEP7-1EFGE	508.00



CEP7-1EFCB

CEP7 Gen 3 Pass Through Electronic Overload Relays

kW AC-3 (kW @415V)	Overload Range (A, min - max)	Item Type	Catalogue No.	\$AU
0.25 - 2.2	1 - 5		CEP7-1EFCP	285.00
1.5 - 7.5	3.2 - 16		CEP7-1EFDP	285.00
2.2 - 15	5.4 - 27		CEP7-1EFEP	285.00
5.5 - 30	11 - 55	I	CEP7-1EFFP	449.00
11 - 55	20 - 100	I	CEP7-1EFGP	508.00



CEP7-1EFEP

CEP7 Gen 3 Add on Protection Modules

Item Description	Item Type	Catalogue No.	\$AU
Reset adapter (electronic remote reset)		CEP7-1ERR	203.00
Universal protection module (ground fault/jam)		CEP7-1EGJ	433.00



CEP7-1EGJ

CEP7-1EF Electronic Remote Indication Display

Type	Reset Button	For use with	Item Type	Catalogue No.	\$AU
Remote Indication Display	Yes	CEP7-1ERR, CEP7-1EGJ		CEP7-ERID	477.00



CEP7-ERID

Remote Reset Magnets

Type	For use with	Item Type	Catalogue No.	\$AU
Remote reset magnet, 240V AC	CEP7-1EE, CEP7-1EF		CEP7-1EMRA	252.00
Remote reset magnet, 120V DC	CEP7-1EE, CEP7-1EF		CEP7-1EMRD	252.00
Remote reset magnet, 24V DC	CEP7-1EE, CEP7-1EF		CEP7-1EMRZ	252.00



CEP7-1EMRZ



CEP7-1EPE

DIN-Rail / Panel Adapters

Type	For use with	Item Type	Catalogue No.	\$AU
DIN Rail / separate mount adaptor	CEP7-1__B		CEP7-1EPB	90.00
DIN Rail / separate mount adaptor	CEP7-1__D		CEP7-1EPD	90.00
DIN Rail / separate mount adaptor	CEP7-1__E		CEP7-1EPE	90.00



CEP7-1BC8

Miscellaneous

Type	Item Type	Catalogue No.	\$AU
Base Unit Anti-Tamper Shield (qty 10)	I	CEP7-1BC8	38.00
External Reset Adaptor		CEP7-1ERA	45.00
Panel / DIN Mounting Kit (includes comm. cable)		CEP7-1EIKIT1	49.00
Protection Accessory Anti-Tamper Shield (qty 25)		CEP7-1EMC	58.00
Accessory Installation Kit and Spare Terminal Blocks (includes comm. cable)		CEP7-1EIKIT2	65.00

Thermal (Bi-Metallic) Overloads

The CT7N thermal overloads are available for use on CA7 contactors. These thermal overloads are designed for the specific amperage range required and provide differential tripping for single-phase loss conditions.

The CT8 thermal overloads have the same design traits as the CT7N but fit the CA8 miniature contactor series. Both families are economical and a standard for motor starter overload protection.

CT8 Thermal Overloads

To suit CA8 contactors, with trip class 10A, auto / manual reset and integrated N/O and N/C trip contacts.

- Consistent and reliable protection for peace of mind
- Differential release for phase loss sensitivity and protection of motors in phase loss conditions
- Ambient temperature compensation from -20°C to +60°C for consistent performance



CT8-B75

Overload Range (A, min - max)	Contactor	Item Type	Catalogue No.	\$AU
0.1 - 0.16	CA8-5...12		CT8-A16	235.00
0.16 - 0.25	CA8-5...12		CT8-A25	235.00
0.25 - 0.4	CA8-5...12		CT8-A40	235.00
0.35 - 0.5	CA8-5...12		CT8-A50	235.00
0.45 - 0.63	CA8-5...12		CT8-A63	235.00
0.55 - 0.8	CA8-5...12		CT8-A80	235.00
0.75 - 1	CA8-5...12		CT8-B10	235.00
0.9 - 1.3	CA8-5...12		CT8-B13	235.00
1.1 - 1.6	CA8-5...12		CT8-B16	235.00
1.4 - 2	CA8-5...12		CT8-B20	235.00
1.8 - 2.5	CA8-5...12		CT8-B25	235.00
2.3 - 3.2	CA8-5...12		CT8-B32	235.00
2.9 - 4	CA8-5...12		CT8-B40	235.00
3.5 - 4.8	CA8-5...12		CT8-B48	235.00
4.5 - 6.3	CA8-5...12		CT8-B63	235.00
5.5 - 7.5	CA8-9...12		CT8-B75	235.00
7.2 - 10	CA8-9...12		CT8-C10	235.00
9 - 12.5	CA8-12		CT8-C12	235.00

CT7N Thermal Overloads

To suit CA7 contactors, with trip class 10 / 10A, auto / manual reset and integrated N/O and N/C trip contacts.

- Consistent and reliable protection for peace of mind
- Differential release for phase loss sensitivity and protection of motors in phase loss conditions
- Ambient temperature compensation from -20°C to +60°C for consistent performance

Overload Range (A, min - max)	Contactor	Item Type	Catalogue No.	\$AU
0.1 - 0.16	CA7-9...23		CT7N-23-A16	263.00
0.16 - 0.25	CA7-9...23		CT7N-23-A25	263.00
0.25 - 0.4	CA7-9...23		CT7N-23-A40	263.00
0.35 - 0.5	CA7-9...23		CT7N-23-A50	263.00
0.45 - 0.63	CA7-9...23		CT7N-23-A63	263.00
0.55 - 0.8	CA7-9...23		CT7N-23-A80	263.00
0.75 - 1	CA7-9...23		CT7N-23-B10	263.00
0.9 - 1.3	CA7-9...23		CT7N-23-B13	263.00
1.1 - 1.6	CA7-9...23		CT7N-23-B16	263.00
1.4 - 2	CA7-9...23		CT7N-23-B20	263.00
1.8 - 2.5	CA7-9...23		CT7N-23-B25	263.00
2.3 - 3.2	CA7-9...23		CT7N-23-B32	263.00
2.9 - 4	CA7-9...23		CT7N-23-B40	263.00
3.5 - 4.8	CA7-9...23		CT7N-23-B48	263.00
4.5 - 6.3	CA7-9...23		CT7N-23-B63	263.00
5.5 - 7.5	CA7-9...23		CT7N-23-B75	263.00
7.2 - 10	CA7-9...23		CT7N-23-C10	263.00
9 - 12.5	CA7-9...23		CT7N-23-C12	263.00
11.3 - 16	CA7-12...23		CT7N-23-C16	280.00
15 - 20	CA7-16...23		CT7N-23-C20	280.00
17.5 - 21.5	CA7-16...23		CT7N-23-C21	280.00
21 - 25	CA7-23		CT7N-23-C25	280.00
15 - 20	CA7-30...37		CT7N-37-C20	338.00
17.5 - 21.5	CA7-30...37		CT7N-37-C21	360.00
21 - 25	CA7-30...37		CT7N-37-C25	360.00
24.5 - 30	CA7-30...37		CT7N-37-C30	360.00
29 - 36	CA7-30...37		CT7N-37-C36	360.00
33 - 38	CA7-37		CT7N-37-C38	360.00
17 - 25	CA7-43...55		CT7N-43-C25	499.00
24.5 - 36	CA7-43...55		CT7N-43-C36	499.00
35 - 47	CA7-43...55		CT7N-43-C47	603.00
45 - 60	CA7-55	I	CT7N-55-C60	665.00
35 - 47	CA7-60...97		CT7N-85-C47	687.00
45 - 60	CA7-60...97		CT7N-85-C60	726.00
58 - 75	CA7-72...97		CT7N-85-C75	726.00
72 - 90	CA7-72...97		CT7N-85-C90	916.00



CT7N-85-C47

CT7N Thermal Overloads - Separate Mount

DIN rail / panel mount version, with trip class 10 with auto / manual reset and integrated N/O and N/C trip contacts.

- DIN rail or panel mount design, providing installation flexibility
- Consistent and reliable protection for peace of mind
- Differential release for phase loss sensitivity and protection of motors in phase loss conditions
- Ambient temperature compensation from -20°C to +60°C for consistent performance

Overload Range (A, min - max)	Mounting	Item Type	Catalogue No.	\$AU
35 - 47	DIN-35 Rail Mount / Panel Mount		CT7N-85-C47P	840.00
45 - 60	DIN-35 Rail Mount / Panel Mount		CT7N-85-C60P	900.00
58 - 75	DIN-35 Rail Mount / Panel Mount		CT7N-85-C75P	900.00
72 - 90	DIN-35 Rail Mount / Panel Mount		CT7N-85-C90P	1,114.00



CT7N-85-C47P

CT8 and CT7N Accessories

Item Description	Item Type	Catalogue No.	\$AU
DIN Rail / Separate Mount Adaptor to suit CT7N-23...37		CT7N-37-P-A	64.00
Remote reset solenoid, 110...120V AC, for CT8 / CT7N		CMR7N-110VAC	316.00
Remote reset solenoid, 220...240V AC, for CT8 / CT7N		CMR7N-240VAC	316.00
Remote reset solenoid, 24V AC, for CT8 / CT7N		CMR7N-24VAC	316.00
Remote reset solenoid, 24V DC, for CT8 / CT7N		CMR7N-24VDC	316.00



CMR7N-24VDC

Thermistor Protection Relays

The RT7 thermistor-type protection unit is a device that directly monitors the temperature of a given object via a PTC (positive temperature coefficient) resistor, acting as a temperature sensor. The outcome is an independent and reliable method of thermal protection that also takes external environmental influences into account. Used in conjunction with overload relays, RT7 provides a high level of motor overload protection.

- Microprocessor technology, providing very accurate and repeated protection
- Broad supply voltage rating (24 to 240V AC/DC) ensures suitability for a wide variety of applications
- Short-circuit and open-circuit protection for sensor measuring circuit



RT7-E1

Model	Auto Reset (Y / N)	Man. Reset (Y / N)	Rem. Reset (Y / N)	TestButton (Y / N)	Item Type	Catalogue No.	\$AU
Basic	Yes	No	No	No		RT7-E1	611.00
Deluxe	Yes	Yes	Yes	Yes		RT7-E2	929.00

Enhanced Electronic Overload Relays and Current Transformer Kits

The current transformer kits include one enhanced electronic overload relay, one panel adapter and three current transformers, class 5P10. The overload relay included in each kit has the nominated current range on the setting dial. For example Cat. No. CTKIT400A includes an overload relay with setting range 80 to 400A listed on the setting dial.

Item Description	Item Type	Catalogue No.	\$AU
Electronic Overload Kit 80-400A with External CTs	K	CTKIT400A	1,018.00
Electronic Overload Kit 120-600A with External CTs	K	CTKIT600A	1,126.00
Electronic Overload Kit 160-800A with External CTs	K	CTKIT800A	1,340.00

Pricing in this document is invalid – for pricing and availability please access the Customer portal under 'My Account'

Motor Protection

Allen-Bradley Overloads

- Choice of overload type to suit your application requirements
- Compact dimensions saves panel space

The Allen-Bradley series of cost-effective motor protection overloads offer a choice of thermal bi-metallic or electronic type overloads. Both are high-quality, long-life devices designed to connect seamlessly with the Allen-Bradley contactor families.



E100 Electronic Overloads

The new Allen-Bradley E100 overload relays can help customers better protect their motors and avoid unplanned downtime due to motor failure. As the next generation of Allen-Bradley basic-tier electronic overload relays, it more accurately measures motors current load, models its temperature and can de-energise the motor to help minimise potential equipment damage due to overheating.

- 193-1EE: Trip Class 10 and 20, manual reset only
- 193-1EF: Trip Class 10, 15, 20, 30, manual or automatic reset
- 5:1 wide current adjustment range to cover a variety of motor applications in a single device
- Accurate and repeatable settings to help minimise commissioning time
- Built-in thermal memory and phase loss detection helps to protect your motor investment
- Support both single and three-phase operation in a single component



E100 Motor Overloads

E100 Basic Electronic Overload Relays

kW AC-3 (kW @415V)	Overload Range (A, min - max)	For Use With	Item Type	Catalogue No.	\$AU
0.02 - 0.12	0.1 - 0.5	100-C09/C23	I	193-1EEAB	265.82
0.06 - 0.25	0.2 - 1.0	100-C09/C23		193-1EEBB	265.82
0.25 - 2.2	1.0 - 5.0	100-C09/C23		193-1EECB	265.82
1.5 - 7.5	3.2 - 16	100-C09/C23		193-1EEDB	265.82
2.2 - 15	5.4 - 27	100-C09/C23		193-1EEEB	265.82
2.2 - 15	5.4 - 27	100-C30/C55		193-1EEED	407.59
5.5 - 30	11 - 55	100-C30/C55		193-1EEFD	407.59
11 - 55	20 - 100	100-C60/C97	I	193-1EEGE	453.67



193-1EEEB



193-1EFCB

E100 Advanced Electronic Overload Relays

kW AC-3 (kW @415V)	Overload Range (A, min - max)	For Use With	Item Type	Catalogue No.	\$AU
0.02 - 0.12	0.1 - 0.5	100-C09/C23	I	193-1EFAB	293.71
0.06 - 0.25	0.2 - 1.0	100-C09/C23	I	193-1EFBB	293.71
0.25 - 2.2	1.0 - 5.0	100-C09/C23		193-1EFCB	293.71
1.5 - 7.5	3.2 - 16	100-C09/C23		193-1EFDB	293.71
2.2 - 15	5.4 - 27	100-C09/C23		193-1EFEB	293.71
2.2 - 15	5.4 - 27	100-C30/C55	I	193-1EFED	463.01
5.5 - 30	11 - 55	100-C30/C55		193-1EFFD	463.01
11 - 55	20 - 100	100-C60/C97		193-1EFGE	525.21

E100 Add on Protection Modules

Item Description	For use with	Item Type	Catalogue No.	\$AU
Reset adaptor (electronic remote reset)	193-1EF	I	193-1ERR	209.18
Universal Protection Module (ground fault/jam)	193-1EF	I	193-1EGJ	447.31



193-1EGJ

Remote Reset Magnets

Item Description	For use with	Item Type	Catalogue No.	\$AU
Remote reset solenoid, 240V AC	193-1EE, 193-1EF	I	193-1EMRA	251.01
Remote reset solenoid, 120V AC	193-1EE, 193-1EF	I	193-1EMRD	251.01
Remote reset module, 24V DC	193-1EE, 193-1EF		193-1EMRZ	251.01



193-1EMRA

E100 Mounting Adaptors

Item Description	For use with	Item Type	Catalogue No.	\$AU
Din rail / panel adapter	193-1EE_B, 193-1EF_B		193-1EPB	90.10
Din rail / panel adapter	193-1EE_D, 193-1EF_D	I	193-1EPD	90.10
Din rail / panel adapter	193-1EE_E, 193-1EF_E	I	193-1EPE	90.10



193-1EPB

Motor Protection

Allen-Bradley Advanced Motor Protection Relays

- Advanced motor protection capabilities to protect your assets
- Advanced network communications for remote monitoring and control
- Modular to suit your specific application requirements

The Allen-Bradley advanced motor protection relays provide a flexible design and advanced intelligence which simplifies your control architecture, reduces downtime and protects your assets.



	Bimetallic	E100	E200	E300
Protection Features				
Overload	✓	✓	✓	✓
Phase Loss		✓	✓	✓
Ground Fault		✓		✓
Current Imbalance	✓		✓	✓
Jam		✓	✓	✓
Over/Under Power			✓	✓
Voltage Imbalance			✓	✓
Over/Under Power			✓	✓
Diagnostic Features				
% Full Load Amperes (FLA)		✓	✓	✓
% Thermal Capacity Utilisation (TCU)		✓	✓	✓
Voltage			✓	✓
Power			✓	✓
Energy			✓	✓
Integration Features				
DeviceLogix™ Software			✓	✓
Logix Controller				✓
Connected Components Workbench™ Software			✓	
EtherNet/IP™ Network				Embedded (dual-port)
DeviceNet/IP™ Network				Embedded (single-port)
Local Programming Method			USB Type B ¹⁾	EtherNet/IP or DeviceNet ¹⁾

A1605D_dSELN-502

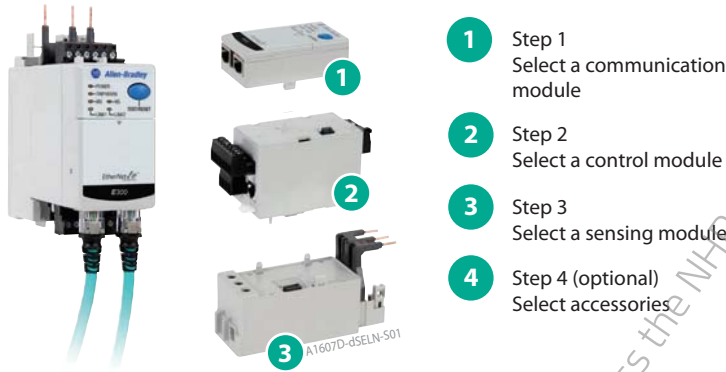
Note: ¹⁾ You can also configure E300/E200 devices using an optional expansion operator diagnostic station.

E300/E200 Electronic Overload Relays

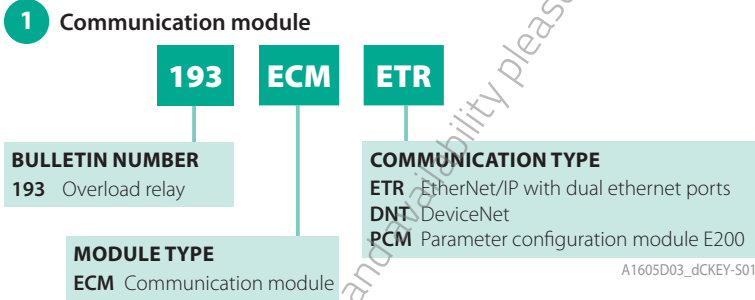
The E300 (networked) and E200 (non-networked) Electronic Overload Relays are the newest technologies for overload protection. The modular design, communication options, diagnostic information, simplified wiring, and integration into Logix technology make them the ideal overload for motor control applications in an automation system.

- Includes Smart Motor Control (EtherNet/IP, DeviceNet, and non-networked options available)
- Offers a modular solution with a wide current range and adjustable trip class
- Provides enhanced diagnostic information for single and three phase applications
- Includes integrated I/O (additional expansion I/O available)
- Offers simplified wiring and easy integration into Logix

Product Selection

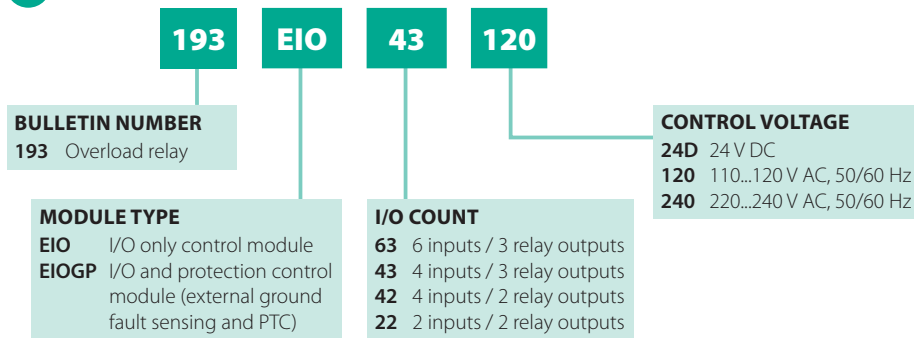


Catalogue Number Construction

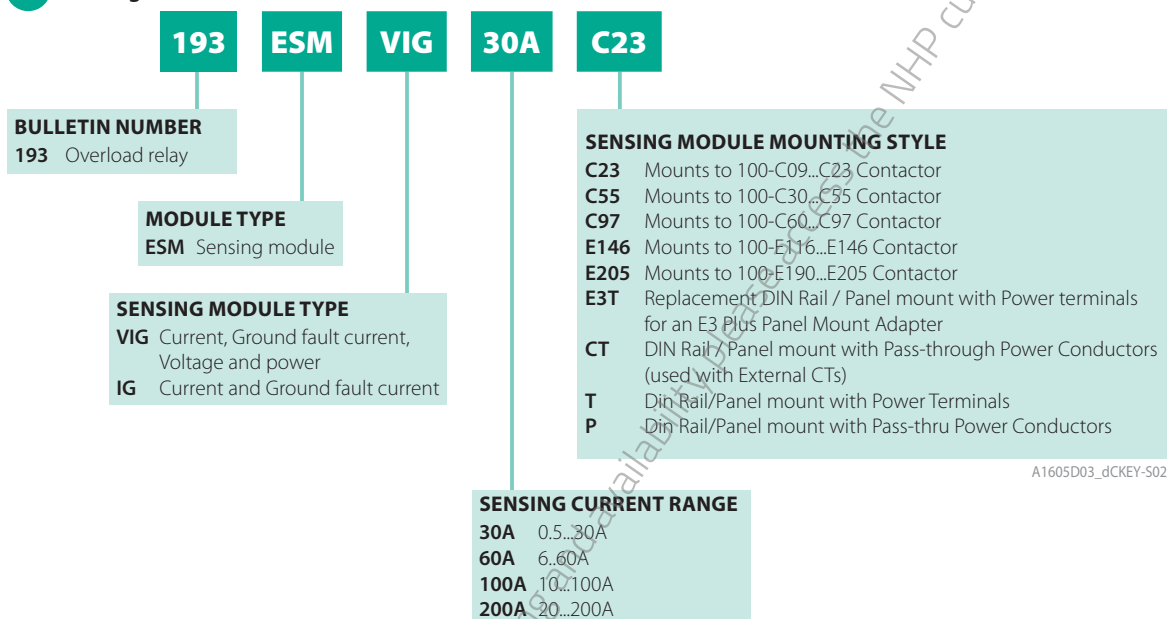


Catalogue Number Construction

2 Control module



3 Sensing module



E300 Communication Modules

There are three types of communication module available: EtherNet/IP, DeviceNet and Parameter Configuration Module (E200).

The EtherNet/IP communication module has two RJ45 ports that support a star, linear and ring topology.

The DeviceNet communication module has one 5-pin DeviceNet connector.

The Parameter Configuration Module (PCM) has one Type B USB interface port and supports the following:

- Stand-alone with non-networked applications
- Configurable with Connected Components Workbench software
- Three rotary dials to set Full Load Amps (FLA)
- 8-position DIP switch for trip class and feature selection

Item Description	Item Type	Catalogue No.	\$AU
E200 parameter configuration module		193-ECM-PCM	129.56
E300 communication module DeviceNet		193-ECM-DNT	642.14
E300 communication module Ethernet/IP with dual ethernet ports		193-ECM-ETR	1,056.50



193-ECM-ETR

E300 Control Modules

The Control Module of the E300 overload relay allows for easier wiring and replacement with removable terminal blocks. The expansion port on the bottom of the module connects the many accessories to the device: these include analog and digital I/O modules, operator stations and power supplies.

The Control Modules are available in two variants: I/O Module & I/O and Protection Module. The I/O and Protection Module includes PTC Thermistor and External Ground Fault Protection. External ground fault protection requires core balance ground fault sensor Cat. No. 193-CBCT_ (ordered separately).

I/O Modules

Inputs / Outputs (qty)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
2 in / 2 out	110 - 120V AC		193-EIO-22-120	417.00
2 in / 2 out	24V DC		193-EIO-22-24D	454.11
4 in / 3 out	110 - 120V AC		193-EIO-43-120	923.23
6 in / 3 out	24V DC		193-EIO-63-24D	923.23



193-EIO-22-120

I/O and Protection Modules

Inputs / Outputs (qty)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
2 in / 2 out	110 - 120V AC		193-EIOGP-22-120	923.23
2 in / 2 out	220 - 240V AC		193-EIOGP-22-240	POA
4 in / 2 out	24V DC		193-EIOGP-42-24D	923.23



193-EIOGP-22-120

E300 Sensing Modules

The E300 overload relay Sensing Modules have a wide current range and choice of voltage, current and ground fault sensing. Direct mount (100-C / 100-E contactors) and DIN-rail / panel mount with pass-through are available.

Current / Ground Fault Sensing, Contactor Mount

Mounting	Contactor	Overload Range (A, min - max)	Item Type	Catalogue No.	\$AU
Contactor Mount	100-C09...23	0.5 - 30		193-ESM-IG-30A-C23	462.84
Contactor Mount	100-C30...55	0.5 - 30		193-ESM-IG-30A-C55	462.84
Contactor Mount	100-C30...55	6 - 60		193-ESM-IG-60A-C55	661.54
Contactor Mount	100-C60...97	10 - 100		193-ESM-IG-100A-C97	857.80
Contactor Mount	100-E116...E146	20 - 200		193-ESM-IG-200A-E146	1,027.43
Contactor Mount	100-E190...E205	20 - 200	I	193-ESM-IG-200A-E205	1,027.43

Voltage / Current / Ground Fault Sensing, Contactor Mount

Mounting	Contactor	Overload Range (A, min - max)	Item Type	Catalogue No.	\$AU
Contactor Mount	100-C09...23	0.5 - 30		193-ESM-VIG-30A-C23	857.80
Contactor Mount	100-C30...55	0.5 - 30		193-ESM-VIG-30A-C55	857.80
Contactor Mount	100-C30...55	6 - 60		193-ESM-VIG-60A-C55	POA
Contactor Mount	100-C60...97	10 - 100		193-ESM-VIG-100A-C97	1,255.20
Contactor Mount	100-E116...E146	20 - 200		193-ESM-VIG-200A-E146	1,412.71
Contactor Mount	100-E190...E205	20 - 200	I	193-ESM-VIG-200A-E205	1,412.71

Current / Ground Fault Sensing, Separate Mount

Mounting	Compatibility	Overload Range (A, min - max)	Item Type	Catalogue No.	\$AU
Separate Mount	Panel mount Pass Thru	0.5 - 30		193-ESM-IG-30A-P	394.99
Separate Mount	Line and load side power conductor terminals	0.5 - 30		193-ESM-IG-30A-T	462.84
Separate Mount	Line and load side power conductor terminals	6 - 60	I	193-ESM-IG-60A-T	661.54
Separate Mount	Panel mount Pass Thru	10 - 100		193-ESM-IG-100A-P	792.39
Separate Mount	Panel mount Pass Thru	20 - 200		193-ESM-IG-200A-P	988.65
Separate Mount	Line and load side power conductor terminals	20 - 200		193-ESM-IG-200A-T	1,056.50



193-ESM-IG-200A-P

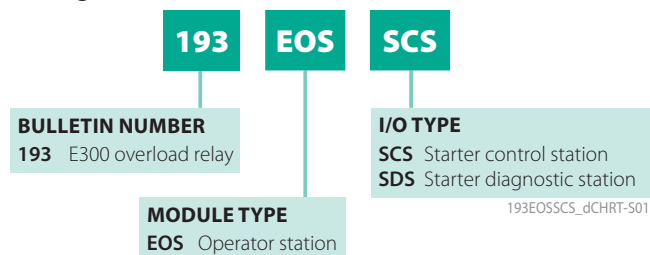
Voltage / Current / Ground Fault Sensing, Separate Mount

Mounting	Compatibility	Overload Range (A, min - max)	Item Type	Catalogue No.	\$AU
Separate Mount	Panel mount Pass Thru	0.5 - 30		193-ESM-VIG-30A-CT	792.39
Separate Mount	Line and load side power conductor terminals	0.5 - 30		193-ESM-VIG-30A-T	857.80
Separate Mount	Line and load side power conductor terminals	6 - 60		193-ESM-VIG-60A-T	1,056.50
Separate Mount	Line and load side power conductor terminals	10 - 100		193-ESM-VIG-100A-T	1,255.20
Separate Mount	Line and load side power conductor terminals	20 - 200		193-ESM-VIG-200A-T	1,449.06



193-ESM-VIG-100A-T

Catalogue Number Construction



E300 Operator Interfaces

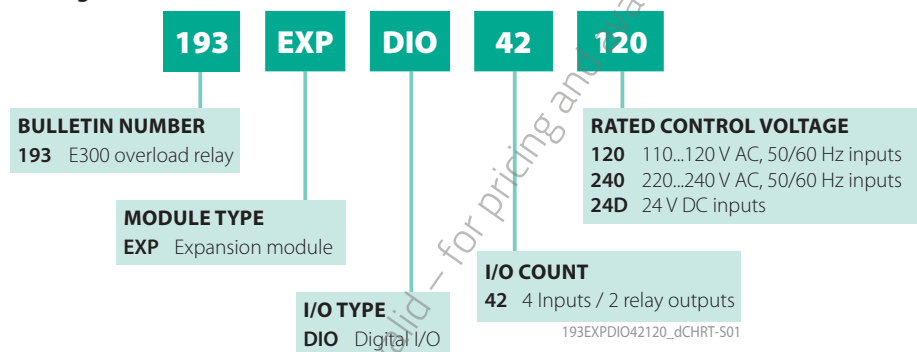
One operator station can be added to the E300 expansion bus to be used as a user interface device. The operator stations provide E300 status LEDs and function keys for motor control. The operator stations also support CopyCat™ which allows user to upload and download E300 configuration parameters. Choice of control station or diagnostic station to suit your requirements. The diagnostic station contains an LCD display and navigation buttons that allows you to view and edit parameters in the base relay.

Type	Display	Item Type	Catalogue No.	\$AU
Diagnostic Station	Integrated LCD		193-EOS-SDS	1,000.82



193-EOS-SDS

Catalogue Number Construction



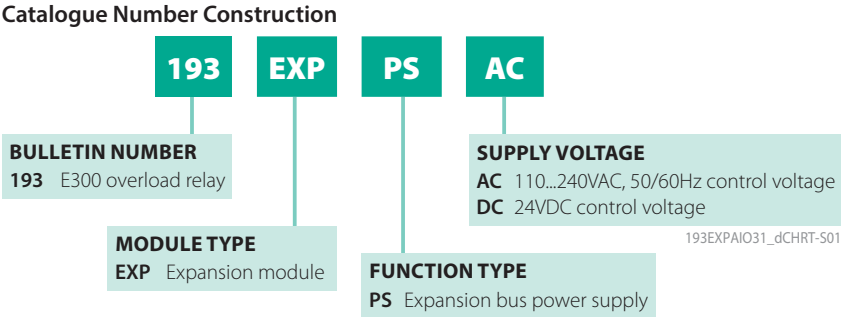
E300 I/O Expansion Modules

The E300 overload relay can be expanded out to 4 of the available digital I/O modules, plus 4 analogue I/O modules along with a power supply and operator interface.

Expansion digital I/O modules include 4 inputs and 2 relay outputs.

Expansion analogue I/O modules include 3 universal analogue inputs (voltage, current, RTD or resistance) and 1 analogue output (voltage or current).

Item Description	Item Type	Catalogue No.	\$AU
E300 digital expansion module, 110...120V AC 50/60 Hz, 4x DI / 2x RO	I	193-EXP-DIO-42-120	669.35
E300 digital expansion module, 220...240V AC 50/60 Hz, 4x DI / 2x RO	I	193-EXP-DIO-42-240	669.35
E300 digital expansion module, 24V DC, 4 DI / 2 RO		193-EXP-DIO-42-24D	669.35
E300 analogue expansion module, 3x AI / 1x AO		193-EXP-AIO-31	1,335.50



E300 Power Supplies

When more than one expansion digital module and one operator station are added to the E300 expansion bus, an expansion power supply is needed to supplement power for the additional modules. One expansion power supply will power a fully loaded E300 expansion bus.

Item Description	Item Type	Catalogue No.	\$AU
E300 expansion bus power supply, 110/240V AC, 50/60Hz control voltage		193-EXP-PS-AC	502.01
E300 expansion bus power supply, 24V DC control voltage		193-EXP-PS-DC	502.01

Pricing in this document is invalid – for pricing and availability please access the NHP tommor portal under 'My Account'

Motor Protection

NHP Motor Protection Relays

- Rated to 1000V AC for suitability into underground mining applications
- Simple to adjust and setup for ease of use

The NHP Motor Protection Relays are the next step in motor protection for 1000V AC applications.

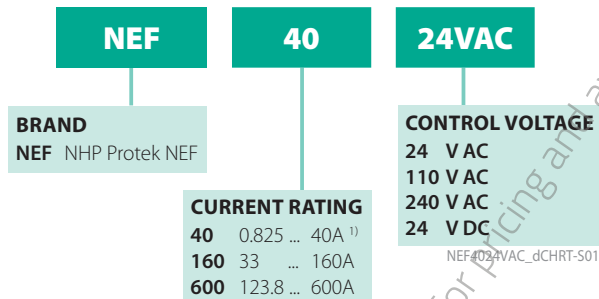


NHP Protek Electronic Motor Protection Relay

- 1000V AC rated for suitability into underground mining applications
- To optimise inventory, three units over two sizes cover 0.825 to 600 amps
- Adjustable current settings by DIP switches to suit protected motor
- As standard, choice of automatic or remote reset functionality to suit your requirements
- As standard, input for thermistor over protection adds convenience
- Trip curves can be selected to suit the application, for flexibility
- LED indication for immediate identification of cause of fault
- Rapid single-phasing detection keeps downtimes to a minimum
- Choice of control voltages 24, 110, 240V AC and 24V DC to suit installation
- Range of optional accessories available, including adaptor plate for CEF1-11/12 replacement NEF-40/160

The NHP Protek motor protection relay is available in three units over two frame sizes, each is complete with its associated integral current transformer. The first unit covers the current range 8.25 to 40A, down to 0.825A by looping motor supply cables through the integral current transformer. The second unit covers the current range 33 to 160A, the third unit covers the current range 123.8 to 600A. The optional adapter plate allows for easy change-over of existing Sprecher+Schuh CEF1 Motor Protection Relay.

Catalogue Number Construction



Notes:
¹⁾ Below 8.25A is possible by looping motor supply cables through the current evaluation ports.

Overload Range (A (min-max))	Un (V AC)	Auto / Man / Rem (Reset)	H x W x D (mm)	Control (V AC / V DC)	Item Type	Catalogue No.	\$AU
33 - 160	1000	Yes / Yes / Yes	77 x 127.4 x 163	24V AC		NEF-160-24VAC	3,298.00
0.825 - 40	1000	Yes / Yes / Yes	77 x 127.4 x 163	24V AC		NEF-40-24VAC	3,298.00
33 - 160	1000	Yes / Yes / Yes	77 x 127.4 x 163	110V AC		NEF-160-110VAC	3,298.00
0.825 - 40	1000	Yes / Yes / Yes	77 x 127.4 x 163	110V AC		NEF-40-110VAC	3,298.00
33 - 160	1000	Yes / Yes / Yes	77 x 127.4 x 163	240V AC		NEF-160-240VAC	3,298.00
0.825 - 40	1000	Yes / Yes / Yes	77 x 127.4 x 163	240V AC		NEF-40-240VAC	3,298.00
33 - 160	1000	Yes / Yes / Yes	77 x 127.4 x 163	24V DC		NEF-160-24VDC	3,298.00



NEF-160-24VAC

Accessories

Description	Item Type	Catalogue No.	\$AU
Busbar set with screws (max 160A) for NEF40 / NEF160. 3 pieces per set, suitable for 1000V AC applications.		NEF-BB-160A	69.00
Adaptor plate for CEF1-11 / 12 replacement with NEF40 / NEF160. The adaptor plate adds an additional depth of 22mm.		CEF1-AP-NEF	112.00



NEF-BB-160A

Motor Protection Circuit Breakers

Sprecher + Schuh Motor Protection Circuit Breakers



- Manual motor starting permits on / off motor control for non-severe duty
- Available in a wide range of motor sizes to suit your installation type
- Can be used in a variety of control schemes that reduce panel space, simplify installation and eliminate the need for more expensive equipment
- Wide range of accessories for application flexibility

Motor Protection Circuit Breakers up to 45 A. Includes both Sprecher + Schuh Motor Protection Circuit Breakers and Motor Circuit Protectors.

The Sprecher + Schuh suite of motor protection circuit breakers are some of the most versatile and technologically advanced control products available today. These devices can be used in a variety of control schemes that reduce panel space, simplify installation and eliminate the need for more expensive equipment.

Sprecher + Schuh Motor Protection Circuit Breaker Selection Guide



Series	KTA5	KT_7-25H/32H	KT_7-45H	TRIPLEX 7
Enclosure Ingress Rating	-	-	-	IP66
Max. Current Ie	32A	32A	45A	25A
Current Rating	0.10...32A	1.6...32A	6.3...45A	0.1...25A
Screw Terminals	Yes	Yes	Yes	Yes
Short Circuit Protection	Yes	Yes	Yes	Yes
Standard Magnetic Trip	Yes	Yes	Yes	Yes
High Magnetic Trip	No	Yes	Yes	Yes
Magnetic Only Trip (MCP)	No	Yes	Yes	Yes
Overload Protection	Yes	Yes	Yes	Yes
Trip Class	10A	10	10	10
Page	338	340	340	Contact NHP

KTA5 Motor Protection Circuit Breakers

Thermal and magnetic motor protection circuit breakers 0.1 to 32A, 0.02 to 15kW at 415V AC
Basic short circuit and thermal protection all-in-one device

- Suitable for three-phase and thermal protection all-in-one device
- Front mount auxiliary contacts require no additional panel space
- Manual motor starting permits on / off motor control for non-severe duty
- Available in a wide range of motor sizes to suit your installation type
- Can be used in variety of control schemes that reduce panel space. Simplify installation and eliminate the need for more expensive equipment

Wide range of accessories for application flexibility

SERIES	FRAME A (32A)	CURRENT RANGE
KTA5	32A	A16
Code	Description	
A	0.10 (example: A16 = 0.16A)	
B	1.0 (example: B16 = 1.6A)	
C	10 (example: C16 = 16A)	

KTA32AA16_dCKEY-S01

Pricing in this document is valid – for pricing and availability please refer to the NHP customer portal under 'My Account'

A1802D_dCKRT-S01

KTA5 Motor Protection Circuit Breakers

Adjustable Thermal, Fixed Magnetic Protection

kW AC-3 (kW @415V)	Thermal Setting (A)	I _m (A)	I _{cu} (kA @ 415V)	I _{cs} (kA @ 415V AC)	Item Type	Catalogue No.	\$AU
0.02	0.10 - 0.16	2	100	50		KTA5-32A-A16	314.00
0.04	0.16 - 0.25	3.1	100	50		KTA5-32A-A25	314.00
0.09	0.25 - 0.40	5	100	50		KTA5-32A-A40	314.00
0.18	0.40 - 0.63	7.9	100	50		KTA5-32A-A63	336.00
0.25	0.63 - 1.0	12.5	100	50		KTA5-32A-B10	345.00
0.55	1.0 - 1.6	20	100	50		KTA5-32A-B16	357.00
0.75	1.6 - 2.5	31.3	75	50		KTA5-32A-B25	371.00
1.5	2.5 - 4.0	50	75	50		KTA5-32A-B40	371.00
2.2	4.0 - 6.3	78.8	50	50		KTA5-32A-B63	371.00
4	6.3 - 10	150	50	50		KTA5-32A-C10	392.00
5.5	8 - 12	180	50	25		KTA5-32A-C12	417.00
7.5	10 - 16	240	15	10		KTA5-32A-C16	431.00
10	16 - 20	300	15	10		KTA5-32A-C20	447.00
11	20 - 25	375	15	10		KTA5-32A-C25	475.00
15	25 - 32	480	15	10		KTA5-32A-C32	558.00



KTA5-32A-A25

Sprecher + Schuh KTA5 Accessories

Auxiliary and Trip Signal Contacts

Type	Mounting	Contacts (position 1)	Contacts (position 2)	Item Type	Catalogue No.	\$AU
Auxiliary Contact	Front Mount	1 N/C		I	KT5-PE1-01	41.00
Auxiliary Contact	Front Mount	1 NO		I	KT5-PE1-10	41.00
Auxiliary Contact	Front Mount	1 NO	1 NO	I	KT5-PE1-20	52.00
Auxiliary Contact	Side Mount - Right	1 NO	1 NC		KT5-PE1-11	54.00
Auxiliary Contact	Side Mount - Right	1 NO	1 NO		KT5-PA1-02	66.00
Auxiliary Contact	Side Mount - Right	1 NO	1 NC		KT5-PA1-11	66.00
Auxiliary Contact	Side Mount - Right	1 NO	1 NO		KT5-PA1-20	66.00
Trip Contact	Side Mount - Right	1 NO	1 NC		KT5-PAF1-S11	108.00

Compact Busbars

Spacing (mm)	Compatibility	Terminal Links	Item Type	Catalogue No.	\$AU
45 mm	For use with front-mounted auxiliary contact	2 x 3 connections		KT5-32-DB-45-2	74.00
54 mm	For use with side-mounted auxiliary contact	2 x 3 connections	I	KT5-32-DB-54-2	76.00
45 mm	For use with front-mounted auxiliary contact	3 x 3 connections		KT5-32-DB-45-3	86.00
54 mm	For use with side-mounted auxiliary contact	3 x 3 connections		KT5-32-DB-54-3	87.00
45 mm	For use with front-mounted auxiliary contact	4 x 3 connections		KT5-32-DB-45-4	97.00
54 mm	For use with side-mounted auxiliary contact	4 x 3 connections		KT5-32-DB-54-4	100.00
45 mm	For use with front-mounted auxiliary contact	5 x 3 connections		KT5-32-DB-45-5	111.00
54 mm	For use with side-mounted auxiliary contact	5 x 3 connections		KT5-32-DB-54-5	116.00

Compact Busbar Feeder Terminals

Item Description	Item Type	Catalogue No.	\$AU
Busbar feeder terminal (flat), increases terminal capacity		KT5-32-A3N	71.00

Accessories

Item Description	Colour	Legend	Item Type	Catalogue No.	\$AU
Blank Space Cover	Grey / Black	-		KT5-WSN	13.00
Coupler - Coded	Grey	-		KT5-DNC	20.00
Coupler Uncoded	Grey	-		KT5-DNUC	20.00
Lockable Handle Accessory	Black	-		KT5-KN	20.00
Screw Adaptor	-	-	I	KT5-N45	24.00
Shaft Alignment Ring	Black	-		KT5-SAR	26.00
Extension Shaft (Support)	Grey	-		KT5-SHS	47.00
Extension Shaft - 180mm	-	-		KT5-HTM	59.00
Door Coupling Handle	Black	0-1, OFF - ON Trip		KT5-HTC	193.00
Door Mounting Kit	Black Handle	0-1, OFF - ON Trip		KT5-DMN65	220.00
Door Mounting Kit	Red / Yellow	0-1, OFF - ON Trip		KT5-DMY65	220.00
Enclosure	Black Handle	0-1, OFF - ON Trip		KT5-ENN65	220.00
Enclosure	Red / Yellow	0-1, OFF - ON Trip		KT5-ENY65	220.00
Door Coupling Handle	Red / Yellow	0-1, OFF - ON Trip		KT5-HCRY	223.00

KTA7 Motor Protection Circuit Breakers

Adjustable Thermal, Fixed Magnetic (13...14x I_e max) Protection

Thermal and magnetic motor protection circuit breakers 0.1 to 32A, 0.02 to 22kW at 415V AC.

- Trip position: separate handle position indicates a trip has occurred, for easy identification
- Short circuit trip indication: identifies a short circuit trip, enabling operators to identify a fault quickly, reducing downtime
- Front mount auxiliary contacts require no additional panel space

KTA7-25S...32S Motor Protection Circuit Breakers

Standard breaking capacity motor protection circuit breakers 0.16 to 32A, 0.02 to 15kW at 415V AC. 100 to 15kA I_{cu}.



KTA7-25S-0P4A

kW AC-3 (kW @415V)	Thermal Setting (A)	I _m (A)	I _{cu} (kA @415VAC)	I _{cs} (kA @415VAC)	Item Type	Catalogue No.	\$AU
0.02	0.1 - 0.16	2.1	100	100		KTA7-25S-0P16A	448.00
0.04	0.16 - 0.25	3.3	100	100		KTA7-25S-0P25A	448.00
0.09	0.25 - 0.4	5.2	100	100		KTA7-25S-0P4A	448.00
0.18	0.4 - 0.63	8.2	100	100		KTA7-25S-0P63A	448.00
0.25	0.63 - 1	13	100	100		KTA7-25S-1A	495.00
0.55	1 - 1.6	21	100	100		KTA7-25S-1P6A	495.00
0.75	1.6 - 2.5	33	100	100		KTA7-25S-2P5A	495.00
1.5	2.5 - 4	52	100	100		KTA7-25S-4A	512.00
2.2	4 - 6.3	82	100	100		KTA7-25S-6P3A	512.00
4	6.3 - 10	130	100	100		KTA7-25S-10A	576.00
7.5	10 - 16	208	65	50		KTA7-25S-16A	597.00
10	14.5 - 20	260	50	15		KTA7-25S-20A	668.00
11	18 - 25	325	15	15		KTA7-25S-25A	752.00
13	24 - 29	406	15	15		KTA7-32S-29A	919.00
15	27 - 32	448	15	15		KTA7-32S-32A	985.00

KTA7-25H...32H Motor Protection Circuit Breakers

High breaking capacity motor protection circuit breakers 1.6 to 32A, 0.75 to 15kW at 415V AC. 100 to 50kA I_{cu}.



KTA7-25H-6P3A

kW AC-3 (kW @415V)	Thermal Setting (A)	I _m (A)	I _{cu} (kA @415VAC)	I _{cs} (kA @415VAC)	Item Type	Catalogue No.	\$AU
0.75	1.6 - 2.5	33	100	100		KTA7-25H-2P5A	641.00
1.5	2.5 - 4	52	100	100		KTA7-25H-4A	641.00
2.2	4 - 6.3	82	100	100		KTA7-25H-6P3A	641.00
4	6.3 - 10	130	100	100		KTA7-25H-10A	752.00
7.5	10 - 16	208	100	50		KTA7-25H-16A	772.00
10	14.5 - 20	260	100	25		KTA7-25H-20A	826.00
13	24 - 29	406	50	25	I	KTA7-32H-29A	1,020.00
15	27 - 32	448	50	25		KTA7-32H-32A	1,094.00

KTA7-45H Motor Protection Circuit Breakers

High breaking capacity motor protection circuit breakers 6.3 to 45A, 3 to 22kW at 415V AC. 65kA I_{cu}.



KTA7-45H-32A

kW AC-3 (kW @415V)	Thermal Setting (A)	I _m (A)	I _{cu} (kA @415VAC)	I _{cs} (kA @415VAC)	Item Type	Catalogue No.	\$AU
4	6.3 - 10	130	100	50	I	KTA7-45H-10A	1,039.00
7.5	10 - 16	208	100	50		KTA7-45H-16A	1,039.00
10	14.5 - 20	260	100	50	I	KTA7-45H-20A	1,039.00
11	18 - 25	325	100	50		KTA7-45H-25A	1,157.00
15	23 - 32	416	65	50		KTA7-45H-32A	1,260.00
22	32 - 45	585	65	50		KTA7-45H-45A	1,497.00

KTC7 Motor Protection Circuit Breakers

Adjustable Thermal, Fixed Magnetic (16...21x I_e max) Protection

Thermal and magnetic motor protection circuit breakers 0.1 to 32A, 0.02 to 15kW at 415V AC.

Specifically designed for use with transformers or high efficiency motors with high magnetising currents.

- Trip position: separate handle position indicates a trip has occurred, for easy identification
- Short circuit trip indication: identifies a short circuit trip, enabling operators to identify a fault quickly, reducing downtime
- Front mount auxiliary contacts require no additional panel space

KTC7-25S Motor Protection Circuit Breakers

Standard breaking capacity transformer motor protection circuit breakers 0.1 to 16A, 0.02 to 7.5kW at 415V AC. 100 to 50kA I_{cu} .

kW AC-3 (kW @415V)	Thermal Setting (A)	I_m (A)	I_{cu} (kA @415VAC)	I_{cs} (kA @415VAC)	Item Type	Catalogue No.	\$AU
0.02	0.1 - 0.16	3.2	100	100	I	KTC7-25S-0P16A	597.00
0.04	0.16 - 0.25	5.2	100	100	I	KTC7-25S-0P25A	597.00
0.18	0.4 - 0.63	13	100	100	I	KTC7-25S-0P63A	597.00
0.25	0.63 - 1	21	100	100		KTC7-25S-1A	606.00
0.55	1 - 1.6	33	100	100		KTC7-25S-1P6A	606.00
0.75	1.6 - 2.5	52	100	100	I	KTC7-25S-2P5	606.00
1.5	2.5 - 4	82	100	100		KTC7-25S-4A	606.00
2.2	4 - 6.3	130	100	100	I	KTC7-25S-6P3A	606.00
4	6.3 - 10	208	100	100		KTC7-25S-10A	689.00
7.5	10 - 16	260	50	15		KTC7-25S-16A	689.00



KTC7-25S-0P63A

KTB7 Motor Circuit Protectors

Fixed Magnetic (13...14x I_e max) Protection

Magnetic only for starter short circuit protection, 0.63 to 45A, 0.18 to 22kW at 415V AC.

The KTB7 is designed without a thermal trip element (i.e. current adjustment range) it should be selected for applications where a separate motor overload protection device is used. Magnetic trip is the same as the KTA7 (approximately 13x operational current).

- Trip position: separate handle position indicates a trip has occurred, for easy identification
- Short circuit trip indication: identifies a short circuit trip, enabling operators to identify a fault quickly, reducing downtime
- Front mount auxiliary contacts require no additional panel space

KTB7-25S Motor Circuit Protectors

Standard breaking capacity motor circuit protectors, 0.16 to 2.5A, 0.02 to 0.75kW at 415V AC. 100 kA I_{cu} .

kW AC-3 (kW @415V)	I_e (A, nom)	I_m (A)	I_{cu} (kA @415VAC)	I_{cs} (kA @415VAC)	Item Type	Catalogue No.	\$AU
0.04	0.25	3.3	100	100	I	KTB7-25S-0P25A	438.00
0.09	0.4	5.2	100	100	I	KTB7-25S-0P4A	438.00
0.18	0.63	8.2	100	100	I	KTB7-25S-0P63A	438.00
0.25	1	13	100	100		KTB7-25S-1A	459.00
0.55	1.6	21	100	100		KTB7-25S-1P6A	459.00
0.75	2.5	32	100	100		KTB7-25S-2P5A	459.00



KTB7-25S-0P4A

KTB7-25H Motor Circuit Protectors

High breaking capacity motor circuit protectors, 2.5 to 25A, 0.75 to 11kW at 415V AC. 100 to 50 kA I_{cu} .

kW AC-3 (kW @415V)	I_e (A, nom)	I_m (A)	I_{cu} (kA @415VAC)	I_{cs} (kA @415VAC)	Item Type	Catalogue No.	\$AU
0.75	2.5	32	100	100		KTB7-25H-2P5A	551.00
1.5	4	52	100	100		KTB7-25H-4A	551.00
2.2	6.3	82	100	100		KTB7-25H-6P3A	551.00
4	10	130	100	100		KTB7-25H-10A	615.00
7.5	16	208	100	50		KTB7-25H-16A	615.00
11	25	325	65	25		KTB7-25H-25A	791.00



KTB7-25H-6P3A

KTB7-45H Motor Circuit Protectors

High breaking capacity motor circuit protectors, 25 to 45A, 11 to 22kW at 415V AC. 100 to 65 kA I_{cu} .

kW AC-3 (kW @415V)	I_e (A, nom)	I_m (A)	I_{cu} (kA @415VAC)	I_{cs} (kA @415VAC)	Item Type	Catalogue No.	\$AU
11	25	325	100	50		KTB7-45H-25A	986.00
15	32	416	65	50		KTB7-45H-32A	1,057.00
22	45	585	65	50		KTB7-45H-45A	1,328.00



KTB7-45H-25A

KT7 Accessories

Auxiliary and Trip Signal Contacts



KT7-PE1-11

Type	Mounting	Contacts (position 1)	Contacts (position 2)	Item Type	Catalogue No.	\$AU
Auxiliary Contact	Front Mount	1 NC			KT7-PE1-01	62.00
Auxiliary Contact	Front Mount	1 NO			KT7-PE1-10	62.00
Auxiliary Contact	Front Mount	1 NC	1 NC		KT7-PE1-02	88.00
Auxiliary Contact	Front Mount	1 NO	1 NC		KT7-PE1-11	88.00
Auxiliary Contact	Front Mount	1 NO	1 NO		KT7-PE1-20	88.00
Auxiliary Contact	Side Mount - Right	1 NC	1 NC		KT7-PA1-02	114.00
Auxiliary Contact	Side Mount - Right	1 NO	1 NC		KT7-PA1-11	114.00
Auxiliary Contact	Side Mount - Right	1 NO	1 NO		KT7-PA1-20	114.00
Trip Contact	Front Mount	1 NC	1 NO Trip (Therm & Mag)		KT7-PEF1-S10/N01	126.00
Trip Contact	Front Mount	1 NO	1 NO Trip (Therm & Mag)		KT7-PEF1-S10/N10	126.00
Trip Contact	Side Mount - Right	1 NO Trip (Magnetic)	1 NC Trip (Magnetic)		KT7-PAF1-M11	151.00
Trip Contact	Side Mount - Right	1 NC Trip (Therm & Mag)	1 NC Trip (Magnetic)		KT7-PAF1-S01/M01	151.00
Trip Contact	Side Mount - Right	1 NC Trip (Therm & Mag)	1 NO Trip (Magnetic)		KT7-PAF1-S01/M10	151.00
Trip Contact	Side Mount - Right	1 NO Trip (Therm & Mag)	1 NC Trip (Magnetic)		KT7-PAF1-S10/M01	151.00
Trip Contact	Side Mount - Right	1 NO Trip (Therm & Mag)	1 NO Trip (Magnetic)		KT7-PAF1-S10/M10	151.00

Shunt Trip and Undervoltage Release Modules



KT7-AA-24VDC

Type	Mounting	Control (V AC / V DC)	Item Type	Catalogue No.	\$AU
Shunt Trip	Side Mount - Left	24V DC		KT7-AA-24VDC	277.00

MPCB Handles and Door Panel Operating Handles



KT7-KN1

Item Description	Item Type	Catalogue No.	\$AU
Lockable twist knob, black, to suit all KT7, 1 padlock 4...5mm		KT7-KN1	22.00
Lockable twist knob, red / yellow, to suit all KT7, 1 padlock 4...5mm		KT7-KRY1	35.00
Door mount handle, black, to suit KT7, 1...3 padlocks 4...8mm		KT7-HTN	309.00
Door mount handle, red / yellow, to suit KT7, 1...3 padlocks 4...8mm		KT7-HTRY	319.00
Locking tag for KT7-KN1/KRY1, up to 3 padlocks 4...8mm shackle		KT7-DS	79.00
Extension shaft, 250mm length, use with KT7-HTN or KT7-HTRY		KT7-HT	87.00
Extension shaft, 400mm length, use with KT7-HTN or KT7-HTRY		KT7-HTL	94.00
Legend plate, marking "Main Switch", use with KT7-HT door handle		KT7-HTFCN	30.00

Compact Busbar System and Connection Accessories

Accessories



KT7-32-DB-45-5

Item Description	Item Type	Catalogue No.	\$AU
Blank space cover, for covering unused connection lugs		KT7-32-DBA	18.00
Compact busbar 64A, to suit 2x KT7-25/32 MPCB, no side auxiliary		KT7-32-DB-45-2	88.00
Supply terminal block, for KT7-32-DB busbars, 64A		KT7-32-A3	95.00
Compact busbar 64A, to suit 2x KT7-25/32 MPCB, with side auxiliary		KT7-32-DB-54-2	95.00
Compact busbar 64A, to suit 3x KT7-25/32 MPCB, no side auxiliary		KT7-32-DB-45-3	120.00
Compact busbar 64A, to suit 3x KT7-25/32 MPCB, with side auxiliary		KT7-32-DB-54-3	129.00
Compact busbar 64A, to suit 4x KT7-25/32 MPCB, no side auxiliary		KT7-32-DB-45-4	135.00
Supply terminal block for KT7-32DB busbars, 63 Amp, for bottom feed		KT7-25-A2E	138.00
Compact busbar 64A, to suit 5x KT7-25/32 MPCB, no side auxiliary		KT7-32-DB-45-5	142.00
Compact busbar 64A, to suit 4x KT7-25/32 MPCB, with side auxiliary		KT7-32-DB-54-4	153.00
Compact busbar 64A, to suit 5x KT7-25/32 MPCB, with side auxiliary		KT7-32-DB-54-5	158.00

Contactors Connection Modules

le (A,nom)	MPCB	Contactors	Item Type	Catalogue No.	\$AU
25	KT7-25S...32S	CA8-9...12		KT7-25S-PEK12	22.00
25	KT7-25S...32S	CA7-9(E)...23(E)		KT7-25S-PEC23	26.00
25	KT7-25H...32H	CA7-30(E)...37(E)		KT7-25H-PNC37	29.00
25	KT7-25H...32H	CA7-9(E)...23(E)		KT7-25H-PEC23	30.00
25	KT7-25H...32H	CA7-9(E)...23(E)		KT7-25H-PNC23	30.00
25	KT7-25S...32S	CA7-9(E)...23(E)		KT7-25S-PNC23	30.00
45	KT7-45H	CA7-30(E)...37(E)		KT7-45H-PNC37	31.00
45	KT7-45H	CA7-43(E)		KT7-45H-PNC43	38.00



KT7-25S-PEK12

Coil Modules

le (A,nom)	MPCB	Contactors	Connection Module (compatible)	Item Type	Catalogue No.	\$AU
25	KT7-25S/H...32S/H	CA7-9...23	KT725SPNC23, KT725HPNC23		KT7-25S-PSC23	30.00
45	KT7-25H...32H, KT7-45H	CA7-30...43	KT725HPNC37, KT745HPNC37, KT745HPNC43	I	KT7-45H-PSC43	31.00



KT7-45H-PSC43

Contactors Coil and Connection Module Kits

le (A,nom)	MPCB	Contactors	Item Type	Catalogue No.	\$AU
25	KT7-25H...32H	CA7-9(E)...23(E)		KT7-25H-PKC23	57.00
45	KT7-45H	CA7-30(E)...37(E)		KT7-45H-PKC37	65.00



KT7-25H-PKC23

Enclosure with Lockable Rotary Handle

Item Description	Item Type	Catalogue No.	\$AU
Enclosure IP65, to suit KT7 25S / 32S, grey with black handle		KT7-AYTG2	183.00
Enclosure IP65, to suit KT7 25S / 32S, grey with yellow / red handle		KT7-AYTJ2	192.00



KT7-AYTG2

KT7 Chassis

- Maximum voltage, 690V AC
- Short time rating for 0.2 sec, 20kA
- Maximum current rating, 250A
- Tee-off maximum, 100A

Chassis pan dimensions do not include busbar protrusion.

Ways	Standard MPCB (qty)	Pan (H x W)	Item Type	Catalogue No.	\$AU
6	6 x KT7-25S	236 x 260		KT7-25-CD-06S-00H	826.00
16	16 x KT7-25S	511 x 260		KT7-25-CD-16S-00H	1,521.00
24	24 x KT7-25S	731 x 260		KT7-25-CD-24S-00H	1,945.00



KT7-25-CD-06S-00H

Motor Protection Circuit Breakers

Allen-Bradley Motor Protection Circuit Breakers



- Manual motor starting permits on / off motor control for non-severe duty
- Available in a wide range of motor sizes to suit your installation type
- Wide range of accessories for application flexibility

Includes both Allen-Bradley Motor Protection Circuit Breakers and Motor Circuit Protectors. The Allen-Bradley suite of motor protection circuit breakers are some of the most versatile and technologically advanced control products available today. These devices can be used in a variety of control schemes that reduce panel space, simplify installation and eliminate the need for more expensive equipment.

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Allen-Bradley Motor Protection Circuit Breaker Selection Guide



Bulletin No.	140MT-C	140MT-D	140M-F
Frame Size	C Frame	D Frame	F Frame
Max. Current I_e	32 A	40 A	45 A
Current Rating	0.1...32 A	0.4...40 A	6.3...45 A
Short-circuit protection	Yes	Yes	Yes
Standard magnetic trip	Yes	140MT-D9E	140M-F8E
High magnetic trip	-	140MT-D9T	140M-F8T
Magnetic only trip (Motor Circuit Protector (MCP))	-	140MT-D9N	140M-F8N
Overload protection	Yes	Yes	Yes
Trip Class	10	10	10
Phase loss sensitivity	Yes	Yes	Yes
Variable speed drive downstream compatible	-	140MT-D9V	Yes
Accessories (Optional)			
External rotary operator	Yes	Yes	Yes
Auxiliary contacts	Yes	Yes	Yes
Trip indication contacts	Yes	Yes	Yes
Undervoltage release	Yes	Yes	Yes
Shunt release	Yes	Yes	Yes
Insulated three-phase busbar	Yes	Yes	Yes
Connecting modules for 100-C contactors	Yes	Yes	Yes
Connecting modules for 100-K contactors	Yes	-	-
Lockable knob	Yes	Standard	Yes
Anti-tamper cover	Yes	Standard	Yes
Page	Contact NHP	Contact NHP	Contact NHP

A1801D_QCHRT-S01

140M MPCBs - Standard motor protection

Adjustable Thermal, Fixed Magnetic (13...14x I_e max) Protection

Thermal and magnetic motor protection circuit breakers.

- Trip position: separate handle position indicates a trip has occurred, for easy identification
- Short circuit trip indication: identifies a short circuit trip, enabling operators to identify a fault quickly, reducing downtime
- Front mount auxiliary contacts require no additional panel space

Normal Breaking Capacity, C-Frame

Standard breaking capacity motor protection circuit breakers, 0.1 to 32A, 0.02 to 15kW at 415V AC. 100 to 15kA I_{cu}.



140M-C2E-A40

kW AC-3 (kW @415V)	Thermal Trip (A)	I _m (A)	I _{cu} (kA @415VAC)	I _{cs} (kA @415VAC)	Item Type	Catalogue No.	\$AU
0.02	0.1 - 0.16	2.1	100	100	I	140M-C2E-A16	336.22
0.04	0.16 - 0.25	3.3	100	100	I	140M-C2E-A25	336.22
0.09	0.25 - 0.4	5.2	100	100	I	140M-C2E-A40	336.22
0.18	0.4 - 0.63	8.2	100	100	I	140M-C2E-A63	362.09
0.25	0.63 - 1	13	100	100	I	140M-C2E-B10	371.79
0.55	1 - 1.6	21	100	100	I	140M-C2E-B16	383.11
0.75	1.6 - 2.5	33	100	100	I	140M-C2E-B25	396.03
1.5	2.5 - 4	52	100	100	I	140M-C2E-B40	396.03
2.2	4 - 6.3	82	100	100	I	140M-C2E-B63	396.03
2.4	6.3 - 10	130	100	100	I	140M-C2E-C10	423.51
7.5	10 - 16	208	65	50	I	140M-C2E-C16	449.38
10	14.5 - 20	260	50	15	I	140M-C2E-C20	481.70
11	18 - 25	325	15	15	I	140M-C2E-C25	510.81
13	24 - 29	406	15	15	I	140M-C2E-C29	599.69
15	27 - 32	448	15	15	I	140M-C2E-C32	599.69

High Performance Breaking Capacity, D-Frame

High breaking capacity motor protection circuit breakers, 1.6 to 32A, 0.75 to 15kW at 415V AC. 100 to 50kA I_{cu}.



140M-D8E-B25

kW AC-3 (kW @415V)	Thermal Trip (A)	I _m (A)	I _{cu} (kA @415VAC)	I _{cs} (kA @415VAC)	Item Type	Catalogue No.	\$AU
0.75	1.6 - 2.5	33	100	100	I	140M-D8E-B25	434.55
2.2	4 - 6.3	82	100	100	I	140M-D8E-B63	434.55
4	6.3 - 10	130	100	100	I	140M-D8E-C10	463.62
10	14.5 - 20	260	100	25	I	140M-D8E-C20	517.38
11	18 - 25	325	65	25	I	140M-D8E-C25	558.08
13	24 - 29	406	50	25	I	140M-D8E-C29	681.61

Bulletin 140M Accessories

Compact Busbar System and Connection Accessories

Compact Busbar



140M-C-W452N

Item Description	Item Type	Catalogue No.	\$AU
Compact busbar 64A, to suit 2x 140M -C, -D, no side auxiliary		140M-C-W452N	52.17
Compact busbar 64A, to suit 2x 140M -C, -D, with side auxiliary		140M-C-W542N	52.99
Compact busbar 64A, to suit 3x 140M -C, -D, no side auxiliary		140M-C-W453N	59.92
Compact busbar 64A, to suit 3x 140M -C, -D, with side auxiliary	I	140M-C-W543N	61.19
Compact busbar 64A, to suit 4x 140M -C, -D, no side auxiliary		140M-C-W454N	67.89
Compact busbar 64A, to suit 4x 140M -C, -D, with side auxiliary		140M-C-W544N	69.63
Compact busbar 64A, to suit 5x 140M -C, -D, no side auxiliary		140M-C-W455N	75.53
Compact busbar 64A, to suit 5x 140M -C, -D, with side auxiliary		140M-C-W545N	76.69

Accessories



140M-C-WTEN

Item Description	Item Type	Catalogue No.	\$AU
Feeder terminal for compact busbar, to suit 140M-C, -D		140M-C-WTEN	53.32
Commoning link feeder terminal for 140M-C, -D. 64A max		140M-C-WTEN	55.41

Contactor Connection Modules

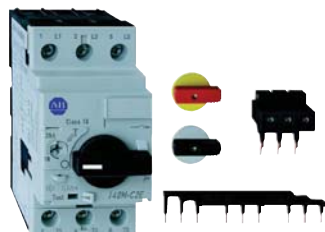
Ie (A,nom)	MPCB	Contactor	Item Type	Catalogue No.	\$AU
12	140M-C	100-K05...12		140M-C-PEK12	44.07
25	140M-C	100-C09...23		140M-C-PEC23	73.35
25	140M-C	100-C09...23		140M-C-PNC23	73.35



Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Motor Protection Circuit Breakers

Allen-Bradley Motor Protection Circuit Breakers



- Manual motor starting permits on / off motor control for non-severe duty
- Available in a wide range of motor sizes to suit your installation type
- Wide range of accessories for application flexibility

Includes both Allen-Bradley Motor Protection Circuit Breakers and Motor Circuit Protectors. The Allen-Bradley suite of motor protection circuit breakers are some of the most versatile and technologically advanced control products available today. These devices can be used in a variety of control schemes that reduce panel space, simplify installation and eliminate the need for more expensive equipment.

5



140M-C-AFA11



140M-C-ASA20

Type	Mounting	1 NO (position 1)	Contacts (position 2)	Item Type	Catalogue No.	\$AU
Auxiliary Contact	Front	1 NO		I	140M-C-AFA10	40.53
Auxiliary Contact	Front	1 NO	1 NC	I	140M-C-AFA11	49.97
Auxiliary Contact	Front	1 NO	1 NO		140M-C-AFA20	49.97

Type	Mounting	1 NO (position 1)	Contacts (position 2)	Item Type	Catalogue No.	\$AU
Auxiliary Contact	Side	1 NO	1 NC		140M-C-ASA11	62.30
Auxiliary Contact	Side	1 NO	1 NO	I	140M-C-ASA20	62.30

High Performance Breaking Capacity, F-Frame

High breaking capacity motor protection circuit breakers, 6.3 to 45A, 4 to 22kW at 415V AC. 65kA I_{cu} .



140M-F8E-C20

kW AC-3 (kW @415V)	Thermal Trip (A)	I_m (A)	I_{cu} (kA @415VAC)	I_{cs} (kA @415VAC)	Item Type	Catalogue No.	\$AU
4	6.3 - 10	130	100	50	I	140M-F8E-C10	814.42
7.5	10 - 16	208	100	50	I	140M-F8E-C16	814.42
10	14.5 - 20	260	100	50	I	140M-F8E-C20	814.42
11	18 - 25	325	100	50		140M-F8E-C25	858.00
15	23 - 32	416	65	50		140M-F8E-C32	938.43
22	32 - 45	585	65	50		140M-F8E-C45	1,049.03



140M-C-AFA11

Type	Mounting	1 NC (position 1)	Contacts (position 2)	Item Type	Catalogue No.	\$AU
Trip Contact	Front	1 NC	1 NO Trip (Therm & Mag) (Therm & Mag)		140M-C-AFAR10A01	76.39
Trip Contact	Front	1 NO	1 NO Trip (Therm & Mag) (Therm & Mag)		140M-C-AFAR10A10	76.39



140M-C-KN1

Item Description	Item Type	Catalogue No.	\$AU
Lockable twist knob, black, to suit 140M-F		140M-C-KN1	14.46
Lockable twist knob, red/yellow, to suit 140M-F		140M-C-KRY1	22.74
Door mount handle, black, to suit 140M-F		140M-C-DN66	201.81
Door mount handle, red / yellow, to suit 140M-F		140M-C-DRY66	232.23
Extension Shaft Standard for 140M-C-DN66 140M-C-DRY66		140M-C-DS	58.94
Shaft support for 140M-F		140M-C-SHS	40.36

Mounting and Connection Systems

Allen-Bradley Starter Busbar System

- Wide range of mounting modules, to cater for many motor starter combinations to be installed
- Mechanically and electrically coordinated components provide savings in planning, assembly, mounting and operation
- Adapters are designed for use with quality Allen-Bradley contactors and overloads, which ensure reliable control and protection of motors, and the associated loads

The Bulletin 141A Modular Control System (MCS) mounting and connection system is the platform upon which powerful and flexible motor control systems can be created using MCS components. The 60mm busbar system consists of: busbar and busbar supports, incoming supply module and busbar adapter units for outgoing circuits.



Busbar Mounting and Connection System

Busbar Supports and End Covers

Busbar supports are used for supporting 3 pole busbars with 60mm spacing. A minimum of two busbar supports are required.

Busbar Supports

Poles	Cover	Busbar Width (mm)	Busbar Height (mm)	Item Type	Catalogue No.	\$AU
3	141ATR3E	12 - 5	10 - 30		141A-TR3	155.25



141A-TR3

End Covers

Poles	Support	Item Type	Catalogue No.	\$AU
3	141ATR3		141A-TR3E	41.58



141A-TR3E

Single Pole Busbar Covers

Single pole busbar covers are supplied in 1m lengths and needs to be cut to length to protect individual busbars from electric shock.

Item Description	Item Type	Catalogue No.	\$AU
Single pole busbar cover for 5mm busbar, 1metre length		141A-BS5	90.62
Single pole busbar cover for 10mm busbar, 1metre length		141A-BS10	94.86



141A-BS5

Busbar Shroud Cover and Holder

Busbar shroud covers are used for covering 3 pole exposed busbars. Two busbar shroud supports are required for each busbar shroud cover.

Item Description	Item Type	Catalogue No.	\$AU
Busbar shroud holder for 3-pole cover. 2 required		141A-BCF1H	36.05
Busbar shroud, 3-pole cover, 1100mm x 200mm		141A-BCF1	232.73
Rear panel busbar shroud, 230mm x 810mm, quantity 2		141A-BCR	281.78



141A-BCF1H

Supply Connecting Modules

Supply connecting modules are used for connecting incoming 3 phase supply cables onto busbars.



141A-VN3120

Cable Size (min - max)	Mod Width (mm)	Busbar Width (mm)	Busbar Height (mm)	Item Type	Catalogue No.	\$AU
6 mm ² - 50 mm ²	54	5 - 10	12 - 30		141A-VN370	177.64
35 mm ² - 120 mm ²	81	5 - 10	12 - 30		141A-VN3120	253.85
95 mm ² - 185 mm ²	135	5 - 10	12 - 30		141A-VN3185	312.80

MCS Standard Busbar Modules

Standard busbar modules are used for mounting load feeder components and busbar modules onto a busbar assembly. The busbar modules are fixed onto the busbar and feed power to the equipment mounted on it.

200mm High, No Terminals



141A-GS45RR25

Wire Connections (Y / N)	Mod Width (mm)	DIN Rail	Ith (A)	Item Type	Catalogue No.	\$AU
Yes	45	2 x MCS Specific Top Hat Rail	32		141A-GS45RR25	175.06
Yes	54	2 x MCS Specific Top Hat Rail	32		141A-GS54RR25	201.33
Yes	54	2 x MCS Specific Top Hat Rail	63		141A-GS54RR45	227.33
Yes	63	2 x MCS Specific Top Hat Rail	63		141A-GS63RR45	253.59

MCS ISO Busbar Modules

Device adapter plates can be removed whilst busbar module remains fixed to the busbar. The device adapter plate can be removed with a screwdriver and busbars are left shrouded by the busbar module. Pluggable design provides motor isolation while maintaining busbar shrouding.

200mm High, No Terminals



141A-SS54RR25

Wire Connections (Y / N)	Mod Width (mm)	DIN Rail	Ith (A)	Item Type	Catalogue No.	\$AU
Yes	54	2 x MCS Specific Top Hat Rail	32		141A-SS54RR25	288.35
Yes	54	2 x MCS Specific Top Hat Rail	45		141A-SS54RR45	301.21
Yes	63	2 x MCS Specific Top Hat Rail	45		141A-SS63RR45	342.40

Mounting system accessories

Control Plugs

Control plugs include the plug holder and male and female plugs. Control plugs are used for control wiring connections to ISO and standard adapter units.



141A-APC10

Item Description	Item Type	Catalogue No.	\$AU
Control plug, 10 pole with adaptor support		141A-APC10	192.58

Spacer Modules

Spacer modules are used for spacing load feeders by 9mm.



141A-AS9B

Item Description	Item Type	Catalogue No.	\$AU
Spacer module for spacing of standard busbar adaptors by 9mm		141A-AS9B	44.54

Assembled Motor Starters

Sprecher + Schuh Motor Starters

Direct On Line (DOL) Motor Starters
Reversing Motor Starters
Star-delta Motor Starters

Page 351

Page 352

Page 352

The Assembled Motor Starters use quality Sprecher + Schuh contactors and overloads, which ensure reliable control and protection of the motors and their associated loads. A full range of enclosed motor starters are available, including DOL, reversing DOL, star delta and autotransformer starters. Formats include open, insulated or metal enclosures, offering flexibility to meet any site requirement.

Consult NHP for complete offering.



Direct On Line (DOL) Motor Starters

- Wide range of NHP motor starting method versions available, allowing for correct selection of a motor starter to suit the application load condition requirements during starting
- Available in a number of IP ratings and enclosure type, to allow selection to meet the different installation environments
- **Consult NHP for complete offering**

CAT7N DOL Starters 5.5 to 18.5kW

- IP66 ABS V0 insulated enclosure for high ingress protection
- Complete with choice of stop, start and reset pushbuttons to match your application requirements
- 5.5 to 7.5kW: choice of CT7N thermal overload or CEP7 electronic overload (ordered separately)
- 11 to 18.5kW: wide current setting range (5:1) from included CEP7 electronic overload for convenience and flexibility

"P" version: standard DOL with start / raised stop pushbuttons

"PM" version: standard DOL with start / red mushroom stop pushbuttons

"R" version: standard DOL with reset pushbutton only

5.5-7.5kW DOL Starters

kW AC-3 (kW @415V)	Contactor	Overload (thermal)	Overload Range (A, min - max)	Control (V AC / V DC)	Item Type	Catalogue No.	\$AU
5.5	CA7-12	CT7N	0.1 - 12.5	24V AC		CAT7N-5.5P-24VAC	294.00
7.5	CA7-16	CT7N	3.2 - 16	240V AC		CAT7N-7.5P-240VAC	592.00
7.5	CA7-16	CT7N	3.2 - 16	240V AC	A	CAT7N-7.5P-24VAC	592.00
5.5	CA7-12	CT7N	0.1 - 12.5	240V AC		CAT7N-5.5P-240VAC	294.00
7.5	CA7-16	CT7N	3.2 - 16	415V AC		CAT7N-7.5P-415VAC	592.00
5.5	CA7-12	CT7N	0.1 - 12.5	415V AC		CAT7N-5.5P-415VAC	294.00
7.5	CA7-16	CT7N	3.2 - 16	240V AC		CAT7N-7.5R-240VAC	592.00
5.5	CA7-12	CT7N	0.1 - 12.5	240V AC		CAT7N-5.5R-240VAC	294.00
7.5	CA7-16	CT7N	3.2 - 16	415V AC		CAT7N-7.5R-415VAC	592.00
5.5	CA7-12	CT7N	0.1 - 12.5	415V AC		CAT7N-5.5R-415VAC	294.00
5.5	CA7-12	CT7N	0.1 - 12.5	240V AC		CAT7N-5.5PM-240VAC	352.00
5.5	CA7-12	CT7N	0.1 - 12.5	240V AC	A	CAT7N-7.5PM-240VAC	675.00
5.5	CA7-12	CT7N	0.1 - 12.5	415V AC		CAT7N-5.5PM-415VAC	352.00
5.5	CA7-12	CT7N	0.1 - 12.5	415V AC	A	CAT7N-7.5PM-415VAC	646.00



CAT7N-5.5P-415VAC

11-18.5kW DOL Starters

kW AC-3 (kW @415V)	Contactor	Overload (electronic)	Overload Range (A, min - max)	Control (V AC / V DC)	Item Type	Catalogue No.	\$AU
11	CA7-23	CEP7ED1EB	5.4 - 27	240V AC	A	CAT7N-11P-240VAC	1,289.00
15	CA7-30	CEP7EEFD	9 - 45	240V AC	A	CAT7N-15P-240VAC	1,644.00
15	CA7-30	CEP7EEFD	9 - 45	415V AC	A	CAT7N-15P-415VAC	1,644.00



CAT7N-15P-415VAC

Accessories

Item Description	Item Type	Catalogue No.	\$AU
Operator raised mushroom stop, to suit CAT7N-PM DOL starters		CAT7N-40MR	44.00

Reversing Motor Starters

- Wide range of NHP motor starting method versions available, allowing for correct selection of a motor starter to suit the application load condition requirements during starting
- Available in a number of IP ratings and enclosure type, to allow selection to meet the different installation environments
- **Consult NHP for complete offering**

EREV4 Streamline Reversing Motor Starters 2.2 to 4kW

IP66 polycarbonate insulated enclosure, complete with choice of pushbutton configuration to suit a wide variety of applications. Roller door type has no holding contact for 'lower' operation. Both roller door and standard versions include forward, reverse and stop / reset pushbuttons. However, the standard type with "R-" in the Cat. No. is without pushbuttons but includes manual reset. CT8 overload to be ordered separately for all versions.

2.2kW Roller door

Nom kW AC-3 (kW @415V)	Max kW AC-3 (kW @415V)	Motor FLC (A, max)	Control (V AC / V DC)	Item Type	Catalogue No.	\$AU
2.2	2.6	5.3	240V AC		EREV4-5RD-240VAC	776.00
2.2	2.6	5.3	415V AC		EREV4-5RD-415VAC	776.00



EREV4-5RD-240VAC

2.2kW Standard

Nom kW AC-3 (kW @415V)	Max kW AC-3 (kW @415V)	Motor FLC (A, max)	Control (V AC / V DC)	Item Type	Catalogue No.	\$AU
2.2	2.6	5.3	240V AC		EREV4-5PB-240VAC	776.00
2.2	2.6	5.3	415V AC		EREV4-5PB-415VAC	776.00
2.2	2.6	5.3	240V AC	A	EREV4-5R-240VAC	776.00
2.2	2.6	5.3	415V AC	A	EREV4-5R-415VAC	776.00



EREV4-5R-415VAC

4kW Standard

Nom kW AC-3 (kW @415V)	Max kW AC-3 (kW @415V)	Motor FLC (A, max)	Control (V AC / V DC)	Item Type	Catalogue No.	\$AU
4	4.5	9	240V AC		EREV4-9PB-240VAC	837.00
4	4.5	9	415V AC		EREV4-9PB-415VAC	837.00
4	4.5	9	415V AC	A	EREV4-9R-415VAC	837.00
4	4.5	9	240V AC	A	EREV4-9R-240VAC	875.00



EREV4-9PB-240VAC

Star-delta Motor Starters

- Wide range of NHP motor starting method versions available, allowing for correct selection of a motor starter to suit the application load condition requirements during starting
- Available in a number of IP ratings and enclosure type, to allow selection to meet the different installation environments
- Overload is to be set to 58% of the motor Full Load Current (FLC)
- **Consult NHP for complete offering**

SDS7 Streamline Star Delta Motor Starters 7.5 to 75kW

IP66 polycarbonate insulated enclosure, fitted with Sprecher + Schuh CA7 contactors and CEP7 electronic overload, with RZ7 electronic timer, complete with stop, start and reset pushbuttons. SDS7L versions feature a larger enclosure with extra wiring room.

11kW to 37kW Star Delta Motor Starters with larger enclosure

kW AC-3 (kW @415V)	Contactor (Main)	Contactor (Delta)	Contactor (Star)	Overload Range (A, min - max)	Control (V AC / V DC)	Item Type	Catalogue No.	\$AU
11	CA7-12	CA7-12	CA7-9	3.2 - 16	240V AC	A	SDS7-11L-240VAC	2,536.00
11	CA7-12	CA7-12	CA7-9	3.2 - 16	415V AC	A	SDS7-11L-415VAC	2,536.00
15	CA7-16	CA7-16	CA7-9	5.4 - 27	240V AC	A	SDS7-15L-240VAC	3,070.00
15	CA7-16	CA7-16	CA7-9	5.4 - 27	415V AC	A	SDS7-15L-415VAC	3,070.00
22	CA7-23	CA7-23	CA7-16	5.4 - 27	240V AC	A	SDS7-22L-240VAC	3,472.00
22	CA7-23	CA7-23	CA7-16	5.4 - 27	415V AC	A	SDS7-22L-415VAC	3,472.00
37	CA7-37	CA7-37	CA7-23	9 - 45	240V AC	A	SDS7-37L-240VAC	4,392.00
37	CA7-37	CA7-37	CA7-23	9 - 45	415V AC	A	SDS7-37L-415VAC	4,392.00



SDS7-22L-240VAC

M-SDS7 Streamline Star Delta Motor Starters 7.5 to 75kW

IP66 steel enclosure, fitted with Sprecher + Schuh CA7 contactors and CEP7 electronic overload, with RZ7 electronic timer.

Catalogue Number Construction

M SDS7	11	240VAC
PRODUCT SERIES M SDS7 Star Delta Motor Starter in IP66 Metal Enclosure, 3 to 75kW	MOTOR kW RATING 7.5 3-7.5kW	CONTROL VOLTAGE 240 240V AC 415 415V AC <small>MSDS711240VAC_dCKEY-S01</small>
	11 11kW	
	15 15kW	
	18.5 18.5kW	
	22 22kW	
	37 37kW	
	45 45kW	
	55 55kW	
	75 75kW	

Item Description	Item Type	Catalogue No.	\$AU
M-SDS7 Streamline star delta motor starter. Refer Catalogue Number Construction diagram for configuration		M-SDS7-xx-xxxVAC	POA



M-SDS7-xx-xxxVAC

O-SDS7 Streamline Star Delta Motor Starters 7.5 to 75kW

Open starter on mounting plate, fitted with Sprecher + Schuh CA7 contactors and CEP7 electronic overload, with RZ7 electronic timer.

Catalogue Number Construction

O SDS7	11	240VAC
PRODUCT SERIES O SDS7 Open Type Star Delta Motor Starter, 3 to 75kW	MOTOR kW RATING 7.5 3-7.5kW	CONTROL VOLTAGE 240 240V AC 415 415V AC <small>OSDS711240VAC_dCKEY-S01</small>
	11 11kW	
	15 15kW	
	18.5 18.5kW	
	22 22kW	
	37 37kW	
	45 45kW	
	55 55kW	
	75 75kW	

Item Description	Item Type	Catalogue No.	\$AU
O-SDS7 Streamline star delta motor starter. Refer Catalogue Number Construction diagram for configuration		O-SDS7-xx-xxxVAC	POA



O-SDS7-xx-xxxVAC

Condition Monitoring

Allen-Bradley Condition Monitoring Devices



- Help provide solutions for predictive maintenance, machine protection and increased machine performance
- Ensure problems in critical rotating equipment do not go undetected when a failure occurs or major damage is incurred

Condition monitoring systems or programs help keep your plant floor running productively by detecting potential equipment failures.

5

Dynamix 1444 Integrated Machinery Monitoring System

The Dynamix 1444 Series system processes in real-time, critical parameters used in protecting industrial machinery from possible failure and in assessing the machines current and predicted health. As part of the Rockwell Automation Integrated Architecture, configuration and management of the Dynamix 1444 system is done through a Logix controller with Studio5000 software, linked to an EtherNet/IP industrial network. Being tightly coupled with integrated architecture allows for the integration of components such as controllers, visualisation products, and input and output products, into a seamless, easily deployed and maintained system that can be tailored to the specific needs of each application.

- EtherNet/IP communications, dual port or Device Level Ring
- Compact, distributed and fully integrated into Rockwell Automation's Integrated Architecture
- High performance dual processors
- Conformally coated, rated to +70°C
- Marine certification standards for shock and vibration
- Electrical safety and hazardous area approved
- SIL 2 Safety, API 670 compliant
- Standard assemblies for configuration, input, and output
- Simplifies your application design
- Reduces cost for spares, training and support



1444-DYN04-01RA

Item Description	Item Type	Catalogue No.	\$AU
Dynamix 1444 Dynamic Measurement Module		1444-DYN04-01RA	4,794.87
Dynamix 1444 Tachometer Signal Conditioner Expansion Module	I	1444-TSCX02-02RB	1,646.50
Dynamix 1444 Relay Expansion Module	I	1444-RELX00-04RB	1,212.63
Dynamix 1444 4-20mA Expansion Module	I	1444-AOFX00-04RB	1,969.13

Dynamix 1444 Series Bases

Terminal Bases to suit the 1444 Series modules. A compatible terminal base must be selected for each 1444 Series module required.



1444-TB-A

Item Description	Item Type	Catalogue No.	\$AU
Dynamix 1444 Base to suit Dynamic Measurement Module		1444-TB-A	987.89
Dynamix 1444 Base to suit Expansion Modules	I	1444-TB-B	656.37

Dynamix 1444 Terminals

Terminals to suit the 1444 Series modules and bases. Terminals must be selected for the required modules and bases. Choose between spring or screw type.



1444-DYN-RPC-SPR-01

Item Description	Item Type	Catalogue No.	\$AU
Dynamix 1444 Screw Type Terminals to suit Dynamic Measurement Module		1444-DYN-RPC-SCW-01	284.79
Dynamix 1444 Screw Type Terminals to suit Tachometer Signal Conditioner Expansion Module	I	1444-TSC-RPC-SCW-01	135.72
Dynamix 1444 Screw Type Terminals to suit Relay Expansion Module	I	1444-REL-RPC-SCW-01	135.72
Dynamix 1444 Screw Type Terminals to suit 4-20mA Expansion Module	I	1444-AOF-RPC-SCW-01	136.83
Dynamix 1444 Screw Type Terminals to suit 1444-TB-A Base		1444-TBA-RPC-SCW-01	284.79
Dynamix 1444 Screw Type Terminals to suit 1444-TB-B Base	I	1444-TBB-RPC-SCW-01	135.72
Dynamix 1444 Spring Type Terminals to suit Dynamic Measurement Module	I	1444-DYN-RPC-SPR-01	245.87

Dynamix 1444 Series Accessories

Optional accessories to suit the 1444 Series.

Item Description	Item Type	Catalogue No.	\$AU
Dynamix 1444 Local Bus Extender Cable 300mm	I	1444-LBXC-0M3-01	228.06
Dynamix 1444 Local Bus Extender Cable 1.0m	I	1444-LBXC-1M0-01	255.88
Dynamix 1444 Local Bus Interconnect Cable Qty 4	I	1444-LBIC-04	628.56



1444-LBXC-1M0-01

Dynamix 2500 Portable Data Collector Kits

The Dynamix 2500 data collector is a real-time, multi-channel Fast Fourier Transformer (FFT) signal analyser and data collector for predictive maintenance and machinery vibration diagnostics. It is capable of measuring, processing, displaying and storing a wide range of analysis functions. It can operate as a stand-alone instrument or you can download your measurements to your software application for program analysis.

- A high performance computing platform, running Windows CE 6.0
- A sunlight-visible colour LCD display
- Suitability for harsh environments, with a Mil 810 spec drop rating, IP65 sealing and an operating temperature range from -10°C to +50°C
- Multiple certifications (C-Tick and IEC Ex for various environments)

Item Description	Item Type	Catalogue No.	\$AU
Dynamix 2500 Portable Data Collector Kit, Includes Data Collector, Dust Caps for Inputs, Operating System and Info CD, Global Power Supply, Battery, Transit Case, Communication Cable USB Power Splitter, Hand Strap and Rubber Bump Sleeve	I	1441-DYN25-2C	20,058.77



1441-DYN25-2C

Dynamix 2500 Portable Data Collector Optional Modules

Item Description	Item Type	Catalogue No.	\$AU
Dynamix 2500 2-Plane Balancing Module	I	1441-DYN25-MBAL	3,686.93
Dynamix 2500 Bump Test Extension Module	I	1441-DYN25-MBMP	3,686.93
Dynamix 2500 Frequency Response Extension Module	I	1441-DYN25-MFRF	4,533.75
Dynamix 2500 Time Recorder Extension Module	I	1441-DYN25-MREC	4,533.75
Dynamix 2500 Run Up Coast Down Extension Module	I	1441-DYN25-MRUC	4,533.75
Dynamix 2500 4-Channel Extension Module	I	1441-DYN25-M4CH	4,690.09



1441-DYN25-MBAL

Dynamix 2500 Portable Data Collector Accessories

Item Description	Item Type	Catalogue No.	\$AU
Dynamix 2500 Neck Strap	I	1441-PEN25-NS	238.41
Dynamix 2500 2-Channel Adapter Cable	I	1441-DYN25-CBL2CH	389.54
Dynamix 2500 Headset Adapter Cable	I	1441-DYN25-CBLHS	389.54



1441-DYN25-CBLHS

Dynamix 2500 Portable Data Collector Optional Spares

Item Description	Item Type	Catalogue No.	\$AU
Dynamix 2500 Replacement Dust Cap Set For Inputs	I	1441-DYN25-CAP	81.43
Dynamix 2500 Replacement Operating System and Information CD	I	1441-DYN25-CD	138.09
Dynamix 2500 Replacement Transit Case	I	1441-PEN25-CASE-T	528.93
Dynamix 2500 Replacement Global Power Supply	I	1441-DYN25-PS	579.75
Dynamix 2500 Replacement Communication Cable USB Power Splitter	I	1441-PEN25-COMS-US	657.91
Dynamix 2500 Replacement Rubber Bump Sleeve	I	1441-PEN25-RBS	734.78



1441-DYN25-CAP

1443 Series Sensors

Rockwell Automation® 1443 Series Accelerometers are general-purpose sensors that are used to measure vibration on industrial machinery. The family includes a broad selection of sensors with varied capabilities.

- Suitable for permanent or route-based vibration data collection
- Ideal for predictive maintenance applications
- Offers low-profile, online or portable models
- Ideal for dirty, wet or harsh environments

General Purpose Accelerometers

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer Sensor, 100mV/g, Top Exit, 2-Pin	I	1443-ACC-GP-T	252.51
1443 Accelerometer Sensor, 100mV/g, Side Exit, 2-Pin	I	1443-ACC-GP-S	417.19
1443 Accelerometer Sensor, 100mV/g, Top Exit, Integral 5m Cable, Shield Case Grounded	I	1443-ACC-GP-T16-SC	368.89
1443 Accelerometer Sensor, 100mV/g, Top Exit, Integral 5m Cable, Shield Case Isolated	I	1443-ACC-GP-T16-SI	368.89
1443 Accelerometer Sensor, 100mV/g, Top Exit, Integral 10m Cable, Shield Case Grounded	I	1443-ACC-GP-T32-SC	425.97
1443 Accelerometer Sensor, 100mV/g, Top Exit, Integral 10m Cable, Shield Case Isolated	I	1443-ACC-GP-T32-SI	425.97

High and Low Frequency Accelerometers

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer Low Frequency Sensor, 500mV/g, Top Exit, 2-Pin	I	1443-ACC-LF-T	368.89
1443 Accelerometer High Frequency Sensor, 50mV/g, Top Exit, 2-Pin	I	1443-ACC-HF-T	373.27

Acceleration and Temperature Sensors

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer and Temperature Sensor, 100mV/g and 10mV/C°, Top Exit, 3-Pin	I	1443-ACC-AT-T	534.66
1443 Accelerometer and Temperature Sensor, 100mV/g & 10mV/C°, Side Exit, 3-Pin	I	1443-ACC-AT-S	677.39

Velocity Accelerometers

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer Velocity Output Sensor, 4mV/(mm/s), Top Exit, 2-Pin	I	1443-ACC-VO-T	429.27
1443 Accelerometer Velocity Output Sensor, 4mV/(mm/s), Side Exit, 2-Pin	I	1443-ACC-VO-S	600.54

Hazardous Area Accelerometers

Item Description	Item Type	Catalogue No.	\$AU
Accelerometer, Hazardous Area Approved 100mV/g Top Exit 2-Pin	I	1443-ACC-IS-T	POA

1443 Series Sensor Cables**Cables for 2-Pin Sensors****Sensor to Flying Leads, Standard Cable**

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer Cable, Shield Grounded to Connector, 5m	I	1443-CBL-MS2GBC-16S	158.10
1443 Accelerometer Cable, Shield Isolated from Connector, 5m	I	1443-CBL-MS2IBC-16S	158.10
1443 Accelerometer Cable, Shield Grounded to Connector, 10m	I	1443-CBL-MS2GBC-32S	227.26
1443 Accelerometer Cable, Shield Isolated from Connector, 10m	I	1443-CBL-MS2IBC-32S	227.26
1443 Accelerometer Cable, Shield Grounded to Connector, 20m	I	1443-CBL-MS2GBC-64S	365.59
1443 Accelerometer Cable, Shield Isolated From Connector, 20m	I	1443-CBL-MS2IBC-64S	365.59



1443-CBL-MS2GBC-16S

Sensor to Flying Leads, Armoured Cable

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer Armoured Cable, Shield Isolated From Connector, 15m	I	1443-CBL-MS2IBC-50A	977.11



1443-CBL-MS2IBC-50A

Sensor to LEMO Connector

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer Data Collector Cable, Coiled, LEMO Connector, 2m	I	1443-CBL-MSILM-6	348.03
1443 Accelerometer Data Collector Cable, LEMO Connector, 15m	I	1443-CBL-MSILM-50	912.33



1443-CBL-MSILM-50

Cables for 3-Pin Sensors

Sensor to Flying Leads, Standard Cable

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer Cable 3-Pin Shield Isolated From Connector 5m	I	1443-CBL-MS3IBC-16S	199.81
1443 Accelerometer Cable 3-Pin Shield Isolated From Connector 19m	I	1443-CBL-MS3IBC-64S	415.00
1443 Accelerometer Cable, Shield Isolated From Connector, 34m	I	1443-CBL-MS3IBC-112S	728.98



1443-CBL-MS3IBC-16S

Cable Spool, Standard Cable

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer Sensor Cable, 3-Pin, Bulk Spool, 152m	I	1443-CBL-BC3BC-500	1,679.74



1443-CBL-BC3BC-500

Adapter Cables

Item Description	Item Type	Catalogue No.	\$AU
1443 BNC to Data Collector LEMO Connector Cable, 30cm	I	1443-CBL-LMBNC-1	778.40



1443-CBL-LMBNC-1

Connectors

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer Splash Proof Boot, Top Exit, 2-Pin, Qty 5	I	1443-CON-MS2-SP	438.05
1443 Accelerometer Splash Proof Boot, Top Exit, 3-Pin, Qty 5	I	1443-CON-MS3-SP	438.05



1443-CON-MS2-SP

1443 Series Accelerometer Mounting Accessories



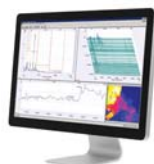
1443-SFT-125-0

Item Description	Item Type	Catalogue No.	\$AU
1443 Accelerometer Mounting Stud, 1/4-28 to M8	I	1443-STD-0-M8	7.90
1443 Accelerometer Mounting Stud, 1/4-28 to 1/4-28	I	1443-STD-0-0	7.90
1443 Accelerometer Sensor Through Bolt, 1/4-28	I	1443-BLT-125-0	18.77
1443 Accelerometer Sensor Through Bolt, M6	I	1443-BLT-125-M6	18.77
1443 Accelerometer Mounting Pad, 1/4-28	I	1443-PAD-075-0	21.19
1443 Accelerometer Curved Surface Magnet, 3/4" Diameter, 14lb Pull, 1/4-28 Thread	I	1443-MAG-075C-14	328.26
1443 Accelerometer Flat Surface Magnet, 3/4" Diameter, 15lb Pull, 1/4-28 Thread	I	1443-MAG-075F-15	328.26
1443 Accelerometer Curved Surface Magnet, 1" Diameter, 35lb Pull, 1/4-28 Thread	I	1443-MAG-100C-35	328.26
1443 Accelerometer Flat Surface Magnet, 1" Diameter, 35lb Pull, 1/4-28 Thread	I	1443-MAG-100F-35	328.26
1443 Accelerometer Curved Surface Magnet, 1-1/2" Diameter, 55lb Pull, 1/4-28 Thread	I	1443-MAG-150C-55	328.26
1443 Accelerometer Flat Surface Magnet, 1-1/2" Diameter, 50lb Pull, 1/4-28 Thread	I	1443-MAG-150F-50	328.26
Spotface Tool Kit For Accelerometer Mounting	I	1443-SFT-125-0	1,030.89

Emonitor Condition Monitoring Software

The Emonitor Condition Monitoring Software Suite provides everything necessary to establish an effective condition-based predictive maintenance program. Comprised of three options for program support, the Emonitor software suite is designed to provide foundation for a wide range of applications, and is scalable to fit the needs of any program, regardless of size.

The Emonitor condition monitoring software suite provides everything necessary to establish an effective condition-based predictive maintenance program. The software suite is designed to provide foundation for a wide range of applications, and is scalable to fit the needs of any program, regardless of size.



9309-CMS00ENM

Item Description	Item Type	Catalogue No.	\$AU
Emonitor Condition Monitoring Software	I	9309-CMS00ENM	8,441.10

Industrial Soft Starters

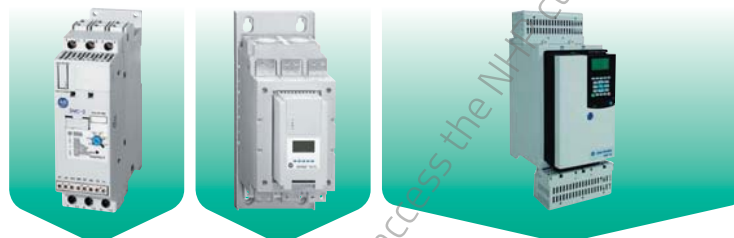
Allen-Bradley LV Soft Starters

- Designed to help minimise cost by reducing overall system power requirements and wear and tear on equipment
- Can be easily integrated into your intelligent motor control solution to offer higher productivity and shorter downtimes
- An ideal alternative to a drive where a more cost-effective, simple solution is required

NHP offer a diverse line of soft starters to meet your communication, control and space requirements.



Allen-Bradley Soft Starter Selection Guide



	150-C	150-F	150-S	
			Continuous Operation	with Internal Bypass
	200...690 V AC	200...690 V AC	200...690 V AC	200...690 V AC
	1...480 A	1...1250 A	90...520 A	108...480 A
Soft Start	✓	✓	✓	✓
Linear Acceleration / Deceleration	-	✓	✓	✓
Torque Control	-	-	✓	✓
Kickstart	✓	✓	✓	✓
Pump Control	-	Optional	✓	✓
Current Limit	✓	✓	✓	✓
Dual Ramp Start	-	✓	✓	✓
Full Voltage	-	✓	✓	✓
Soft Stop	✓	✓	✓	✓
Preset Slow Speed	-	✓ ¹⁾	✓ ²⁾	✓ ²⁾
Dual Slow Speed Commands	-	-	✓	✓
SMB™ Smart Motor Braking	-	Optional	✓	✓
Accu-Stop™	-	Optional	✓ ³⁾	✓ ³⁾
Slow Speed with Braking	-	Optional	✓	✓
Integrated Bypass Contactor	✓	✓	- ⁴⁾	✓
Integrated Motor Overload Protection	✓	✓	✓	✓
Network Communications	-	Optional	Optional	Optional
Metering	-	✓	✓	✓
Real Time Clock	-	-	✓	✓
Diagnostic Faults and Alarms	-	✓	✓	✓
Automatic Tuning of Motor Parameters	-	-	✓	✓
Digital I/O Expansion Module	-	-	Optional	Optional
Analogue I/O Expansion Module	-	-	Optional	Optional
Ground Fault/CT/PTC Module	-	-	Optional	Optional
DeviceLogix™	-	-	✓	✓
Applications	Normal duty	Normal, Heavy and Severe duty	Normal, Heavy and Severe duty	Normal, Heavy and Severe duty
Product Selection	361	362	Refer NHP	364

Notes: 1) Limited slow speed capability
2) Advanced slow speed capability.
3) Accu-Stop is not included as a parameter/function for the SMC-50. However, the Accu-Stop function can be accomplished with the Stop Option and Slow Speed with Braking functions
4) You can add an external bypass contactor as an option.

A2101D_d5ELN-501

SMC-3 Soft Starters

Compact design provides true three-phase control, increased intelligence and unmatched performance.

Motor and system diagnostics and an electronic overload with adjustable trip class reduce downtime and protect valuable assets.

- Compact footprint for reduced panel space
- Easy and secure setup for process optimisation
- Integrated bypass minimises heat generation
- Five start/stop modes to suit application requirements

Soft Starters from NHP provide controlled motor starting for your industrial applications.

Product Selection

Soft starter ratings are strongly influenced by the starting time and starting current characteristics of the driven machine. The following table, when used in conjunction with the ratings tables provided, ensures accurate soft starter selection.

The table below is intended as a guide only. Individual machine and motor characteristics will determine the actual start current and start time requirements.

Starting Duty Definition

Normal duty rating - 350% FLC, 10 second start

Heavy duty rating - 400% FLC, 20 second start

Severe duty rating - 450% FLC, 30 second start

Application	Duty
Agitator	Heavy
Atomiser	Heavy
Bottle washer	Normal
Centrifuge	Severe
Chipper	Severe
Compressor – Recip (Loaded)	Severe
Compressor – Recip (Unloaded)	Heavy
Compressor – Screw (Loaded)	Heavy
Compressor – Screw (Unloaded)	Normal
Conveyor – Belt	Severe
Conveyor – Roller	Normal
Conveyor – Screw	Heavy
Crusher – Cone	Normal
Crusher – Jaw	Severe
Crusher – Rotary	Normal
Crusher – Vertical impact	Normal
Debarker	Normal
Dryer	Severe
Dust collector	Normal
Edger	Normal
Fan – Axial (Damped)	Normal
Fan – Axial (Un-damped)	Severe
Fan – Centrifugal (Damped)	Normal
Fan – Centrifugal (Un-damped)	Severe

Application	Duty
Fan – High pressure	Severe
Grinder	Normal
Hydraulic power pack	Normal
Mill	Severe
Mill – Ball	Severe
Mill – Hammer	Severe
Mill – Roller	Severe
Mixer	Severe
Palletiser	Severe
Planer	Normal
Press	Normal
Pump – Bore	Normal
Pump – Centrifugal	Normal
Pump – Positive displacement	Heavy
Pump – Slurry	Severe
Re-pulper	Severe
Rotary table	Heavy
Sander	Heavy
Saw – Bandsaw	Severe
Saw – Circular	Normal
Separator	Severe
Shredder	Severe
Slicer	Normal
Tumbler	Heavy

A21_dCHRT-S01

Pricing in this document is valid – for pricing availability please access NHP customer portal under 'My Account'

IP2X Panel Mount - 200...480V AC Three Phase with 100...240V AC Control Power

Current ratings at 40°C ambient.

Models 150-C3 to 150-C16 and 150-C25 to 150-C30 rated at 6 starts/hour.

Model 150-C19 and 150-C37 rated at 6 starts/hour when used with optional fan Cat. No. 150-CF64.

Models 150-C43 to 150-C135 rated at 10 starts/hour.

For 24V AC/DC control, change suffix 'D' to 'R'.

For larger SMC-3 models, 600V AC supply or ratings for 6 wire motor connection, consult NHP.

Normal Duty (A, 3 wire)	H x W x D (mm)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
3	140 x 45 x 100	100 - 240V AC		150-C3NBD	816.08
9	140 x 45 x 100	100 - 240V AC		150-C9NBD	879.41
16	140 x 45 x 100	100 - 240V AC		150-C16NBD	1,075.52
19	140 x 45 x 100	100 - 240V AC		150-C19NBD	1,162.65
25	140 x 45 x 100	100 - 240V AC		150-C25NBD	1,196.20
30	140 x 45 x 100	100 - 240V AC		150-C30NBD	1,459.61
37	140 x 45 x 100	100 - 240V AC		150-C37NBD	1,806.37
43	206 x 72 x 130	100 - 240V AC		150-C43NBD	2,053.63
60	206 x 72 x 130	100 - 240V AC		150-C60NBD	2,687.98
85	206 x 72 x 130	100 - 240V AC		150-C85NBD	3,506.11
108	444 x 197 x 206	100 - 240V AC		150-C108NBD	4,124.85
135	444 x 197 x 206	100 - 240V AC	I	150-C135NBD	5,008.77



150-C16NBD

5

SMC-Flex Soft Starters

Modular design features advanced intelligence, performance, and diagnostics, communications flexibility, removable control module, power modules, and fan assembly in a cost-effective package for your demanding production applications.

- Modular for simplified installation and maintenance
- Built-in LCD and keypad or personal computer (PC) software setup, for process optimisation
- Integrated bypass minimises heat generation
- Nine start/stop modes and three slow-speed modes to suit application requirements
- Full metering and diagnostics for peace of mind

Soft Starters from NHP provide controlled motor starting for your industrial applications.

Product Selection

Soft starter ratings are strongly influenced by the starting time and starting current characteristics of the driven machine. The following table, when used in conjunction with the ratings tables provided, ensures accurate soft starter selection.

The table below is intended as a guide only. Individual machine and motor characteristics will determine the actual start current and start time requirements.

Starting Duty Definition

Normal duty rating - 350% FLC, 10 second start

Heavy duty rating - 400% FLC, 20 second start

Severe duty rating - 450% FLC, 30 second start

Application	Duty
Agitator	Heavy
Atomiser	Heavy
Bottle washer	Normal
Centrifuge	Severe
Chipper	Severe
Compressor – Recip (Loaded)	Severe
Compressor – Recip (Unloaded)	Heavy
Compressor – Screw (Loaded)	Heavy
Compressor – Screw (Unloaded)	Normal
Conveyor – Belt	Severe
Conveyor – Roller	Normal
Conveyor – Screw	Heavy
Crusher – Cone	Normal
Crusher – Jaw	Severe
Crusher – Rotary	Normal
Crusher – Vertical impact	Normal
Debarker	Normal
Dryer	Severe
Dust collector	Normal
Edger	Normal
Fan – Axial (Damped)	Normal
Fan – Axial (Un-damped)	Severe
Fan – Centrifugal (Damped)	Normal
Fan – Centrifugal (Un-damped)	Severe

Application	Duty
Fan – High pressure	Severe
Grinder	Normal
Hydraulic power pack	Normal
Mill	Severe
Mill – Ball	Severe
Mill – Hammer	Severe
Mill – Roller	Severe
Mixer	Severe
Palletiser	Severe
Planer	Normal
Press	Normal
Pump – Bore	Normal
Pump – Centrifugal	Normal
Pump – Positive displacement	Heavy
Pump – Slurry	Severe
Re-pulper	Severe
Rotary table	Heavy
Sander	Heavy
Saw – Bandsaw	Severe
Saw – Circular	Normal
Separator	Severe
Shredder	Severe
Slicer	Normal
Tumbler	Heavy

A21_dCHRT-S01

IP00 / IP20 Panel Mount - 200...415V AC Three Phase with 100...240V AC Control Power

Current ratings at 40°C ambient.

Normal duty rated at 10 starts/hour, heavy duty rated at 6 starts/hour, severe duty rated at 4 starts/hour.

For 24V AC/DC control, change suffix 'D' to 'R'; noting separate 120V or 240V single-phase power supply is required for fan operation.

For 690V AC supply, ratings for 6 wire motor connection or continuously rated models, consult NHP.

Standard

Normal Duty (A, 3 wire)	Heavy Duty (A, 3 wire)	Severe Duty (A, 3 wire)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
5	5	5	321 x 150 x 230	I	150-F5NBD	3,874.38
25	25	25	321 x 150 x 230		150-F25NBD	4,165.41
43	43	43	321 x 150 x 230		150-F43NBD	4,394.93
60	60	57	321 x 150 x 230		150-F60NBD	4,869.78
85	81	67	321 x 150 x 230		150-F85NBD	5,283.26
108	108	91	443.7 x 196.4 x 212.2		150-F108NBD	5,967.80
135	108	91	443.7 x 196.4 x 212.2		150-F135NBD	8,055.10
201	201	177	560 x 225 x 253.8		150-F201NBD	8,936.44
251	208	177	560 x 225 x 253.8		150-F251NBD	9,925.94
317	293	246	600 x 290 x 276.5		150-F317NBD	10,436.07
361	293	246	600 x 290 x 276.5		150-F361NBD	11,224.60
480	408	345	600 x 290 x 276.5		150-F480NBD	15,770.11



150-F108NBD

IP00 / IP20 Panel Mount - 200...415V AC Three Phase with 230...240V AC Control Power

Current ratings at 40°C ambient.

Normal duty rated at 10 starts/hour, heavy duty rated at 6 starts/hour, severe duty rated at 4 starts/hour.

For 110 / 120V AC control, change suffix 'A' to 'E'.

For 690V AC supply, ratings for 6 wire motor connection or continuously rated models, consult NHP.

Standard

Normal Duty (A, 3 wire)	Heavy Duty (A, 3 wire)	Severe Duty (A, 3 wire)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
625	625	598	1041.1 x 596.9 x 346.2		150-F625NBA	23,164.47
780	696	598	1041.1 x 596.9 x 346.2	I	150-F780NBA	26,153.38
970	816	696	1041.1 x 596.9 x 346.2	I	150-F970NBA	32,430.26
1250	988	789	1041.1 x 596.9 x 346.2	I	150-F1250NBA	41,098.17

Optional Accessories

Human Interface Modules (HIM)

Item Description	Item Type	Catalogue No.	\$AU
SMC-Flex, PowerFlex 7 Human Interface module, LCD display, IP66		20-HIM-C3S	629.88



20-HIM-C3S

Terminal Covers

Item Description	Item Type	Catalogue No.	\$AU
SMC-Flex terminal cover to suit 150-F108...135		150-TC1	106.00
SMC-Flex terminal cover to suit 150-F201...251		150-TC2	126.63
SMC-Flex terminal cover to suit 150-F317...480		150-TC3	140.48



150-TC1

SMC-50 Soft Starters

Designed for customer flexibility – advanced monitoring, protection and superior communications capabilities help increase efficiency and reduce downtime.

- Network integration and expandable I/O for application scalability
- LCD or personal computer (PC) software setup, for process optimisation
- Integrated bypass or solid-state power structures available to suit application
- Seventeen start/stop modes and three slow-speed modes to suit application requirements

Soft Starters from NHP provide controlled motor starting for your industrial applications.

Product Selection

Soft starter ratings are strongly influenced by the starting time and starting current characteristics of the driven machine. The following table, when used in conjunction with the ratings tables provided, ensures accurate soft starter selection.

The table below is intended as a guide only. Individual machine and motor characteristics will determine the actual start current and start time requirements.

Starting Duty Definition

Normal duty rating - 350% FLC, 10 second start

Heavy duty rating - 400% FLC, 20 second start

Severe duty rating - 450% FLC, 30 second start

Application	Duty	Application	Duty
Agitator	Heavy	Fan – High pressure	Severe
Atomiser	Heavy	Grinder	Normal
Bottle washer	Normal	Hydraulic power pack	Normal
Centrifuge	Severe	Mill	Severe
Chipper	Severe	Mill – Ball	Severe
Compressor – Recip (Loaded)	Severe	Mill – Hammer	Severe
Compressor – Recip (Unloaded)	Heavy	Mill – Roller	Severe
Compressor – Screw (Loaded)	Heavy	Mixer	Severe
Compressor – Screw (Unloaded)	Normal	Palletiser	Severe
Conveyor – Belt	Severe	Planer	Normal
Conveyor – Roller	Normal	Press	Normal
Conveyor – Screw	Heavy	Pump – Bore	Normal
Crusher – Cone	Normal	Pump – Centrifugal	Normal
Crusher – Jaw	Severe	Pump – Positive displacement	Heavy
Crusher – Rotary	Normal	Pump – Slurry	Severe
Crusher – Vertical impact	Normal	Re-pulper	Severe
Debarker	Normal	Rotary table	Heavy
Dryer	Severe	Sander	Heavy
Dust collector	Normal	Saw – Bandsaw	Severe
Edger	Normal	Saw – Circular	Normal
Fan – Axial (Damped)	Normal	Separator	Severe
Fan – Axial (Un-damped)	Severe	Shredder	Severe
Fan – Centrifugal (Damped)	Normal	Slicer	Normal
Fan – Centrifugal (Un-damped)	Severe	Tumbler	Heavy

A21_dCHRT-S01

SMC-50 with Internal Bypass

SMC-50 soft starters come standard with no HIM (blank plate). For bezel-mounted keypad with LCD display, order Cat. No. 20-HIM-A6.

Current ratings at 40°C ambient.

Normal duty rated at 10 starts/hour, heavy duty rated at 6 starts/hour, severe duty rated at 4 starts/hour.

For 24V DC control, change suffix 'D' to 'R'.

For 690V AC supply, ratings for 6 wire motor connection or continuously rated models, consult NHP.

IP00 Panel Mount - 200...415V AC Three Phase with 100...240V AC Control Power (No HIM)

Normal Duty (A, 3 wire)	Heavy Duty (A, 3 wire)	Severe Duty (A, 3 wire)	Dimensions (H x W x D)	Item Type	Catalogue No.	\$AU
108	108	91	443.7 x 196.6 x 217.3	I	150-S108NBD	POA
135	108	91	443.7 x 196.6 x 217.3	I	150-S135NBD	POA
201	201	177	560 x 225 x 277.4	I	150-S201NBD	POA
251	208	177	560 x 225 x 277.4	I	150-S251NBD	POA
317	293	246	600 x 290 x 310.1	I	150-S317NBD	POA
361	293	246	600 x 290 x 310.1	I	150-S361NBD	POA
480	408	345	600 x 290 x 310.1	I	150-S480NBD	POA

Accessories

Soft Starters from NHP provide controlled motor starting for your industrial applications.

Product Selection

Soft starter ratings are strongly influenced by the starting time and starting current characteristics of the driven machine. The following table, when used in conjunction with the ratings tables provided, ensures accurate soft starter selection.

The table below is intended as a guide only. Individual machine and motor characteristics will determine the actual start current and start time requirements.

Starting Duty Definition

Normal duty rating - 350% FLC, 10 second start

Heavy duty rating - 400% FLC, 20 second start

Severe duty rating - 450% FLC, 30 second start

Application	Duty
Agitator	Heavy
Atomiser	Heavy
Bottle washer	Normal
Centrifuge	Severe
Chipper	Severe
Compressor – Recip (Loaded)	Severe
Compressor – Recip (Unloaded)	Heavy
Compressor – Screw (Loaded)	Heavy
Compressor – Screw (Unloaded)	Normal
Conveyor – Belt	Severe
Conveyor – Roller	Normal
Conveyor – Screw	Heavy
Crusher – Cone	Normal
Crusher – Jaw	Severe
Crusher – Rotary	Normal
Crusher – Vertical impact	Normal
Debarker	Normal
Dryer	Severe
Dust collector	Normal
Edger	Normal
Fan – Axial (Damped)	Normal
Fan – Axial (Un-damped)	Severe
Fan – Centrifugal (Damped)	Normal
Fan – Centrifugal (Un-damped)	Severe

Application	Duty
Fan – High pressure	Severe
Grinder	Normal
Hydraulic power pack	Normal
Mill	Severe
Mill – Ball	Severe
Mill – Hammer	Severe
Mill – Roller	Severe
Mixer	Severe
Palletiser	Severe
Planer	Normal
Press	Normal
Pump – Bore	Normal
Pump – Centrifugal	Normal
Pump – Positive displacement	Heavy
Pump – Slurry	Severe
Re-pulper	Severe
Rotary table	Heavy
Sander	Heavy
Saw – Bandsaw	Severe
Saw – Circular	Normal
Separator	Severe
Shredder	Severe
Slicer	Normal
Tumbler	Heavy

A21_dCHRT-501

Communication Cards

Item Description	Item Type	Catalogue No.	\$AU
SMC-Flex, PowerFlex 7 EtherNet/IP (dual port) module, internal mount		20-COMM-ER	725.11
SMC-Flex, PowerFlex 7 EtherNet/IP module, internal mount		20-COMM-E	1,111.23
SMC-Flex, PowerFlex 7 DeviceNet module, internal mount		20-COMM-D	785.27
SMC-Flex, PowerFlex 7 ControlNet (Coax) module, internal mount		20-COMM-C	1,107.41



20-COMM-E

Industrial Soft Starters

Sprecher + Schuh Soft Starters



- Compact, true three-phase control in a cost-effective package with overload protection, integral bypass, and motor and system diagnostics
- Simple to adjust and setup for ease of use

Sprecher + Schuh soft starters are compact, simple to use and provide consistent performance for peace of mind.

PCS Soft Starters

Sprecher+Schuh PCS soft starters provide intelligence and consistent performance in a compact design for controlling your motor. It features microprocessor based electronic overload with adjustable trip class, motor and system diagnostics, configurable auxiliary contacts, and multiple start and stop modes. Combined, these features provide a highly accurate, reliable, and efficient soft starter with one of the smallest footprints in the industry.

- Integral bypass minimises heat generation allowing for reduced enclosure size and reduced total cost
- Ultra-compact size means reduced panel space and allows for higher-density installations
- Easy and secure setup allows for process optimisation and setup efficiency
- LED indicator gives instant status information and assists during troubleshooting

Panel Mount - IP2X 200 to 480V AC Three-Phase with 100 to 240V AC Control Power

Normal duty rating = 350% FLC, 10 second start.

Current ratings at 40°C ambient.

Models PCS-003 to PCS-016 and PCS-025 to PCS-030 rated at 6 starts/hour.

Model PCS-019 and PCS-037 rated at 6 starts/hour when used with optional fan Cat. No. PCV-CF64.

Models PCS-043 to PCS-085 rated at 10 starts/hour.

For 24V AC/DC control, add '-024' to the end of the Catalogue No.

For 600V AC supply or ratings for 6 wire motor connection, consult NHP.



PCS-003-480V

Normal Duty (A, 3 wire)	H x W x D (mm)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
3	140 x 45 x 100	100 - 240V AC		PCS-003-480V	1,351.00
9	140 x 45 x 100	100 - 240V AC		PCS-009-480V	1,381.00
16	140 x 45 x 100	100 - 240V AC		PCS-016-480V	1,487.00
19	140 x 45 x 100	100 - 240V AC		PCS-019-480V	1,608.00
25	140 x 45 x 100	100 - 240V AC		PCS-025-480V	1,867.00
30	140 x 45 x 100	100 - 240V AC		PCS-030-480V	2,562.00
37	140 x 45 x 100	100 - 240V AC		PCS-037-480V	3,061.00
43	206 x 72 x 130	100 - 240V AC		PCS-043-480V	3,320.00
60	206 x 72 x 130	100 - 240V AC		PCS-060-480V	3,941.00
85	206 x 72 x 130	100 - 240V AC		PCS-085-480V	4,833.00

PCS Soft Starter Accessories

Item Description	Item Type	Catalogue No.	\$AU
PCS auxiliary contact block 1 N/O, side mount	I	PCS-PA-10	65.00
PCS auxiliary contact block 1 N/O 1 N/C, side mount		PCS-PA-11	87.00
PCS auxiliary contact block 2 N/O, side mount	I	PCS-PA-20	87.00
PCS remote reset magnet, 230V AC		CMR7-230VAC	314.00
PCS remote reset magnet, 24V DC		CMR7-24VDC	314.00
PCS protective module to suit PCS-003...037-480V		PCP-064-480V	173.00
PCS fan to suit PCS-003...0037, internal mount		PCV-064	173.00



PCS-PA-10

Allen-Bradley Compact Drive Selection Guide



Compact Drives	PowerFlex 4M	PowerFlex 523
Motor Control	Volts per Hertz	Volts per Hertz Sensorless Vector Control
Application	Open Loop Speed Regulation	Open Loop Speed Regulation
Ratings 240V 1 Phase In/3 Phase Out	0.2...1.1 kW • 1.6...6 A	0.2...1.1 kW • 1.6...6 A
Ratings 400-480V	0.4...11 kW • 1.5...24 A	0.2...15 kW • 1.6...62.1 A
Ambient Temperature Limit for Enclosure Types	IP20: -10 to 50 °C IP20 zero stacking: -10 to 40 °C	IP20: -20 to 50 °C IP20 Zero Stacking: -20 to 45 °C IP20: -20 to 60 °C with current derating IP20: -20 to 70 °C with current derating and optional control module fan kit
EMC Filters	Internal	Internal
Overload Capability	150% for 60 secs • 200% for 3 secs	Normal Duty: 110% - 60 secs, 150% - 3 secs (For 15 kW & above) Heavy Duty: 150% - 60 secs, 180% - 3 secs (200% - 3 secs programmable)
User Interface	Local Keypad • Remote Keypad • Studio 5000 • Connected Components Workbench (CCW)	5 Digits, 16 segments QuickView™ LCD display with local keypad • Remote Keypad • MainsFree™ Programming via USB • Application specific parameter group AppView™ and CustomView™ • Studio 5000 • Connected Components Workbench (CCW)
Communication Options	Integral RS485 (Modbus RTU)	Integral RS485 (Modbus RTU) Optional: Dual-port EtherNet/IP, DeviceNet, PROFIBUS DP
Analogue Inputs	Qty. 1 (unipolar voltage)	Qty. 1 (unipolar voltage or current)
Analogue Outputs	None	Qty. 1 (unipolar voltage or current)
PTC Inputs	Qty. 1 (uses an Analog Input)	Qty. 1 (uses an Analog Input)
Digital Inputs	Qty. 5 (24V DC, 2 programmable)	Qty. 5 (24V DC, 4 programmable)
Relay Outputs	Qty. 1 (form C)	Qty. 1 (form C)
Transistor Outputs	None	None
Dynamic Braking	Internal IGBT except catalog numbers ending in "3"	Internal IGBT
Safety	No	No
Page	370	371



5

PowerFlex 525	PowerFlex 527
• Volts per Hertz • Sensorless Vector Control • Closed Loop Velocity Vector Control • Permanent Magnet Motor Control	• Volts per Hertz • Sensorless Vector Control • Closed Loop Velocity Vector Control • Permanent Magnet Motor Control
• Open Loop Speed Regulation • Closed Loop Speed Regulation	• Open Loop Speed Regulation • Closed Loop Speed Regulation
0.2...1.1 kW • 1.6...6 A	0.2...1.1 kW • 1.6...6 A
0.2...15 kW • 1.6...62.1 A	0.2...15 kW • 1.6...62.1 A
IP20: -20 to 50 °C IP20 Zero Stacking: -20 to 45 °C IP20: -20 to 60 °C with current derating IP20: -20 to 70 °C with current derating and optional control module fan kit	IP20: -20 to 50 °C IP20 Zero Stacking: -20 to 45 °C IP20: -20 to 60 °C with current derating IP20: -20 to 70 °C with current derating and optional control module fan kit
Internal	Internal
Normal Duty: 110% - 60 secs, 150% - 3 secs (For 15 kW & above) Heavy Duty: 150% - 60 secs, 180% - 3 secs (200% - 3 secs programmable)	Normal Duty: 110% - 60 secs, 150% - 3 secs (For 15 kW & above) Heavy Duty: 150% - 60 secs, 180% - 3 secs (200% - 3 secs programmable)
5 Digits, 16 segments QuickView™ LCD display with local keypad • Remote Keypad • MainsFree™ Programming via USB • Application specific parameter group AppView™ and CustomView™ • Studio 5000 • Connected Components Workbench (CCW)	Studio 5000 Logix Designer
Embedded EtherNet/IP Port Integral RS485 (Modbus RTU) Optional: Dual-port EtherNet/IP, DeviceNet, PROFIBUS DP	Embedded EtherNet/IP Dual-Port
Qty. 2 (1 bipolar voltage, 1 current)	Qty. 2 (1 bipolar voltage, 1 current)
Qty. 1 (unipolar voltage or current)	Qty. 1 (unipolar voltage or current)
Qty. 1 (uses an Analog Input)	Qty. 1 (uses an Analog Input)
Qty. 7 (24V DC, 6 programmable)	Qty. 4 (24V DC, 3 programmable)
Qty. 2 (1 form A Relay, 1 form B Relay)	Qty. 2 (1 form A Relay, 1 form B Relay)
Qty. 2	Qty. 2
Internal IGBT	Internal IGBT
Built-in Safe Torque Off, SIL2, PLd, CAT 3	Built-in Safe Torque Off, SIL3, PLe, CAT 3 Built-in Networked Safety SIL3 / PLe CAT 3
372	373

A31_06-HRT-502

Compact Drives Application Selection Guide

The Compact PowerFlex drives deliver simple and cost-effective solutions for machine level, stand-alone control applications or simple system integration.

Features and Benefits

- Compact package to optimise panel space and versatility
- Designed for ease of use

Product Selection

Variable Speed Drives ratings are strongly influenced by acceleration times of the driven machine. The following table when used in conjunction with the ratings tables provided ensures accurate Variable Speed Drive selection.

Notes:

- Normal duty rating 110 % for 1 minute - 150 % for 3 seconds
- Heavy duty rating 150 % for 1 minute - 200 % for 3 seconds
- Open Loop control: general purpose applications not requiring torque or position control
- Closed loop control: applications requiring position or torque control or precision speed control

Application	Duty	Application	Duty	Application	Duty
Actuator - Positioning	Heavy	Flying Shears	Normal	Pump - High Pressure	Normal
Actuator - Screw down	Heavy	Frames - Spinning	Normal	Pump - Mono	Heavy
Agitator - Liquid	Normal	Frames - Textile	Normal	Pump - Piston	Heavy
Agitator - Slurry	Heavy	Grinder	Normal	Pump - Positive Displacement	Heavy
Air Separator	Normal	Indexer	Heavy	Pump - Screw	Heavy
Belt Plow	Heavy	Indexing Positioner	Normal	Pump - Sewerage	Normal
Blower - Centrifugal	Normal	Ironer (Laundry)	Normal	Pump - Sludge	Heavy
Blower - Positive Displacement	Normal	Laundry Washer	Heavy	Pump - Slurry	Normal
Calendar - Rubber	Heavy	Machine - Automatic Buffing	Normal	Pump - Submersible	Normal
Calendar - Paper	Normal	Machine - Boring	Heavy	Pump - Vacuum	Normal
Calendar - Textile	Normal	Machine - Bottling	Normal	Roll - Bending	Heavy
Car Puller	Heavy	Machine - Cinder-block	Heavy	Roll - Crushing	Normal
Card Machine - Textile	Heavy	Machine - Polishing	Normal	Roll - Flaking	Normal
Centrifuge	Heavy	Machine - Textile	Heavy	Rotary Kiln	Heavy
Compressor - Recip. (Loaded)	Normal	Machine - Tools	Normal	Sander - Belt	Normal
Compressor - Recip. (Unloaded)	Normal	Machine - Vibrating	Heavy	Sander - Disk	Normal
Compressor - Screw	Normal	Mill - Band	Normal	Saw - Band	Normal
Compressor - Screw (Booster)	Normal	Mill - Flour	Normal	Saw - Circular	Normal
Conveyor - Belt	Normal	Mill - Grinding	Normal	Saw - Cutoff	Normal
Conveyor - Drag	Heavy	Mill - Metal rolling	Normal	Saw - Gang	Normal
Conveyor - Screw	Heavy	Mill - Rubber	Heavy	Saw - Metal	Normal
Conveyor - Shaker	Heavy	Mill - Saw	Normal	Saw - Wood	Normal
Cooler - Hot solids	Heavy	Mixer - Centrifugal	Normal	Screen - Centrifugal	Normal
Cooler - Rotary	Heavy	Mixer - Chemical	Heavy	Screen - Vibrating	Heavy
Crane - Bridge motion	Heavy	Mixer - Concrete	Normal	Shaker	Normal
Crane - Hoist motion	Heavy	Mixer - Dough	Heavy	Shovel	Normal
Crane - Trolley motion	Heavy	Mixer - Liquid	Normal	Skip Hoist	Normal
Edger	Normal	Mixer - Sand	Normal	Tension maintaining	Heavy
Elevator - Bucket	Heavy	Mixer - Screw	Heavy	Textile looms Heavy	Heavy
Elevator - Freight	Heavy	Mixer - Slurry	Heavy	Tool - Automatic	Normal
Elevator - Personnel	Heavy	Mixer - Solids	Heavy	Tool - Boring	Normal
Escalators	Normal	Planer - Metalworking	Normal	Tool - Broaching	Normal
Extruder - Plastic	Heavy	Planer - Woodworking	Normal	Tool - Lathe	Normal
Extruder - Rubber	Heavy	Power Walks	Normal	Tool - Mill	Normal
Fan - Axial (Damped)	Normal	Press - Draw	Heavy	Tool - Production	Normal
Fan - Axial (Undamped)	Normal	Press - Drill	Normal	Tool - Shaper	Normal
Fan - Centrifugal (Damped)	Normal	Press - Pellet	Heavy	Vehicle - Freight	Heavy
Fan - Centrifugal (Undamped)	Normal	Press - Printing	Normal	Vehicle - Passenger	Normal
Fan - High Pressure	Normal	Press - Punching	Heavy	Winch	Heavy
Feeder - Belt	Heavy	Pump - Bore	Normal	Wood Chipper	Heavy
Feeder - Oscillating drive	Heavy	Pump - Centrifugal	Normal	Woodworking jointers	Normal
Feeder - Screw	Heavy	Pump - Gas	Normal		

Compact Drives

PowerFlex 4M



- Compact size and side by side mounting to assist with panel space saving
- Feed-through wiring for simple retrofitting into applications requiring variable speed motor control
- Integral RS485 / DSI port supports multi-drive networking
- Integral EMC Filter

Providing users with powerful motor speed control in a compact, space-saving design, the PowerFlex 4M AC drive is the smallest and most cost-effective member of the PowerFlex family of drives. Providing application flexibility, feed-through wiring and ease-of-programming this drive is ideal for machine level speed control, for applications requiring space savings and easy-to-use AC drives.

5



22F-A011N113

IP20 Panel Mount 200 to 240V AC Single-Phase Input Drives

NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
1.6	0.2	0.2	No	Yes	Frame A		22F-A1P6N113	435.04
2.5	0.37	0.37	No	Yes	Frame A		22F-A2P5N113	485.76
4.2	0.75	0.75	No	Yes	Frame A		22F-A4P2N113	601.07
8	1.5	1.5	No	Yes	Frame B		22F-A8P0N113	790.13
11	2.2	2.2	No	Yes	Frame B		22F-A011N113	936.17



22F-D6P0N113

IP20 Panel Mount 380 to 480V AC Three-Phase Drives

NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
1.5	0.37	0.37	No	Yes	Frame A		22F-D1P5N113	779.53
2.5	0.75	0.75	No	Yes	Frame A		22F-D2P5N113	892.80
4.2	1.5	1.5	No	Yes	Frame A		22F-D4P2N113	1,029.78
6	2.2	2.2	No	Yes	Frame B		22F-D6P0N113	1,244.52
8.7	3.7	3.7	No	Yes	Frame B		22F-D8P7N113	1,460.96



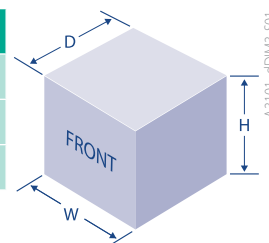
22F-D013N114

IP20 Panel Mount 380 to 480V AC Three-Phase Drives with Brake

NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
13	5.5	5.5	No	Yes	Frame C		22F-D013N114	1,910.73
18	7.5	7.5	No	Yes	Frame C		22F-D018N114	2,451.84
24	11	11	No	Yes	Frame C		22F-D024N114	3,094.38

PowerFlex 4M Dimension Diagram. Dimensions not intended for manufacturing purposes.

Frame	H (mm)	W (mm)	D (mm)	Weight (kg)
A	174	72	136	1.58
B		100		2.09
C	260	130	180	4.81



Compact Drives

PowerFlex 523

- Modular design eases installation
- Economizer motor control for energy savings
- Application specific parameter groups making programming intuitive
- Vast temperature range -20°C to +50°C (up to +70°C with optional fan and derating)
- Integral EMC Filter and Braking Transistor

PowerFlex 523 AC drives are designed to help reduce installation and configuration time with an innovative modular design while providing just enough control for your application. These drives offer convenient programming features with the fast upload and download of configuration files over a standard USB connection, as well as installation flexibility with Zero Stacking and a high ambient operating temperature. PowerFlex 523 AC drives also provide a variety of motor control options, making these drives ideal for simple applications.



IP20 Panel Mount 200 to 240V AC Single-Phase Input Drives

NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
1.6	0.2	0.2	No	Yes	Frame A	I	25A-A1P6N114	568.72
2.5	0.4	0.4	No	Yes	Frame A		25A-A2P5N114	607.70
4.8	0.75	0.75	No	Yes	Frame A	I	25A-A4P8N114	783.80
8	1.5	1.5	No	Yes	Frame B		25A-A8P0N114	949.79
11	2.2	2.2	No	Yes	Frame B		25A-A011N114	1,086.92



25A-A011N114

IP20 Panel Mount 380 to 480V AC Three-Phase Drives

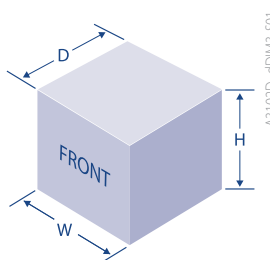
NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
1.4	0.4	0.4	No	Yes	Frame A	I	25A-D1P4N114	990.59
2.3	0.75	0.75	No	Yes	Frame A		25A-D2P3N114	1,114.00
4	1.5	1.5	No	Yes	Frame A		25A-D4P0N114	1,265.76
6	2.2	2.2	No	Yes	Frame A		25A-D6P0N114	1,505.89
10	4	4	No	Yes	Frame B		25A-D010N114	1,851.10
13	5.5	5.5	No	Yes	Frame C		25A-D013N114	2,334.73
17	7.5	7.5	No	Yes	Frame C		25A-D017N114	2,785.00
24	11	11	No	Yes	Frame D		25A-D024N114	3,485.42
30	15	11	No	Yes	Frame D		25A-D030N114	4,102.45
37	18.5	15	No	Yes	Frame E		25A-D037N114	5,269.82
43	22	18.5	No	Yes	Frame E	I	25A-D043N114	6,737.37



25A-D010N114

PowerFlex 523, 525 and 527 Dimension Diagram. Dimensions not to be used for manufacturing purposes.

Frame	H	W	D	Weight
A	152	72	172	1.1
B	180	87		1.6
C	220	109	184	2.3
D	260	130	212	3.2
E	300	185	279	12.9



A3102D_dDIMG-S01

Compact Drives

PowerFlex 525



- Modular design eases installation
- Economizer motor control for energy savings
- Application specific parameter groups making programming intuitive
- Vast temperature range -20°C to +50°C (up to +70°C with optional fan and derating)
- Hardwired Safety to help simplify meeting safety compliances
- Single port EtherNet/IP ideal for simple system integration
- Integral EMC Filter and Braking Transistor

PowerFlex 525 AC drives feature an innovative, modular design offering fast and easy installation and configuration. These cost-effective compact drives come with embedded EtherNet/IP™ communications, safety, USB configuration and a high ambient operating temperature capability. PowerFlex 525 AC drives also provide a variety of motor control algorithms including volts per hertz, sensorless vector control and closed loop velocity vector control, making these drives ideal for a vast array of applications.

IP20 Panel Mount 200 to 240V AC Single-Phase Input Drives

NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
2.5	0.4	0.4	Built-in	Yes	Frame A		25B-A2P5N114	787.12
4.8	0.75	0.75	Built-in	Yes	Frame A		25B-A4P8N114	943.33
8	1.5	1.5	Built-in	Yes	Frame B		25B-A8P0N114	1,198.12
11	2.2	2.2	Built-in	Yes	Frame B		25B-A011N114	1,422.58

25B-A011N114

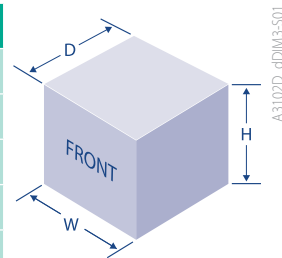
IP20 Panel Mount 380 to 480V AC Three-Phase Drives

NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
1.4	0.4	0.4	Built-in	Yes	Frame A		25B-D1P4N114	1,474.88
2.3	0.75	0.75	Built-in	Yes	Frame A		25B-D2P3N114	1,493.57
4	1.5	1.5	Built-in	Yes	Frame A		25B-D4P0N114	1,699.17
6	2.2	2.2	Built-in	Yes	Frame A		25B-D6P0N114	2,022.02
10.5	4	4	Built-in	Yes	Frame B		25B-D010N114	2,480.78
13	5.5	5.5	Built-in	Yes	Frame C		25B-D013N114	2,957.80
17	7.5	7.5	Built-in	Yes	Frame C		25B-D017N114	3,542.67
24	11	11	Built-in	Yes	Frame D		25B-D024N114	4,227.82
30	15	11	Built-in	Yes	Frame D		25B-D030N114	5,046.63
37	18.5	15	Built-in	Yes	Frame E		25B-D037N114	5,947.14
43	22	18.5	Built-in	Yes	Frame E		25B-D043N114	7,615.42

25B-D037N114

PowerFlex 523, 525 and 527 Dimension Diagram. Dimensions not to be used for manufacturing purposes.

Frame	H	W	D	Weight
A	152	72	172	1.1
B	180	87		1.6
C	220	109	184	2.3
D	260	130	212	3.2
E	300	185	279	12.9



Compact Drives

PowerFlex 527

- Modular design eases installation
- Economizer motor control for energy savings
- Vast temperature range -20°C to +50°C (up to +70°C with optional fan and derating)
- Integrated Motion instruction sets complements programming with Kinetix servo drives
- Hardwired Safety and Integrated Safety to help simplify meeting safety compliances
- Dual port EtherNet/IP communications improve connectivity for system integration
- Integral EMC Filter and Braking Transistor

PowerFlex 527 AC drives are the first compact PowerFlex drives designed to exclusively work with a Logix controller and programmed via Studio 5000 integrated motion instructions. PowerFlex 527 drives are an ideal AC drive to complement machines already using Kinetix servo drives. They feature built-in dual port for EtherNet/IP and the option for hardwired or networked safety. Using Studio 5000 software, the configuration and programming experience saves start up time, and delivers a coordinated and synchronised machine.



IP20 Panel Mount 200 to 240V AC Single-Phase Input Drives

NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
2.5	0.4	0.4	Built-in	Yes	Frame A	I	25C-A2P5N114	1,092.57
4.8	0.75	0.75	Built-in	Yes	Frame A	I	25C-A4P8N114	1,247.33
8	1.5	1.5	Built-in	Yes	Frame B	I	25C-A8P0N114	1,578.51
11	2.2	2.2	Built-in	Yes	Frame B	I	25C-A011N114	1,731.43



25C-A8P0N114

IP20 Panel Mount 380 to 480V AC Three-Phase Drives

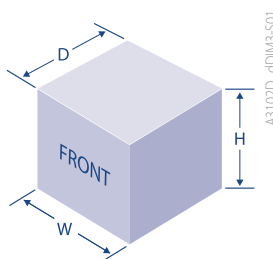
NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
1.4	0.4	0.4	Built-in	Yes	Frame A		25C-D1P4N114	1,837.75
2.3	0.75	0.75	Built-in	Yes	Frame A		25C-D2P3N114	1,889.56
4	1.5	1.5	Built-in	Yes	Frame A		25C-D4P0N114	2,127.89
6	2.2	2.2	Built-in	Yes	Frame A		25C-D6P0N114	2,332.15
10.5	4	4	Built-in	Yes	Frame B		25C-D010N114	2,791.26
13	5.5	5.5	Built-in	Yes	Frame C		25C-D013N114	3,285.44
17	7.5	7.5	Built-in	Yes	Frame C	I	25C-D017N114	3,830.20
24	11	11	Built-in	Yes	Frame D	I	25C-D024N114	4,443.02
30	15	11	Built-in	Yes	Frame D	I	25C-D030N114	5,413.33
37	18.5	15	Built-in	Yes	Frame E	I	25C-D037N114	6,792.19
43	22	18.5	Built-in	Yes	Frame E	I	25C-D043N114	8,512.36



25C-D013N114

PowerFlex 523, 525 and 527 Dimension Diagram. Dimensions not to be used for manufacturing purposes.

Frame	H	W	D	Weight
A	152	72	172	1.1
B	180	87		1.6
C	220	109	184	2.3
D	260	130	212	3.2
E	300	185	279	12.9



Compact Drives

PowerFlex 4-Class and 520-Class Options

Refer to the PowerFlex 7-Class and 750-Class Options section for Reactor options.

5



22-HIM-C25

Human Interface Modules (HIM)

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex Compact Class Remote Mount Human Interface Module, IP66, Includes 2m Cable		22-HIM-C25	617.78
PowerFlex 4/520 Extension Cable 2.9m to suit 22-HIM-A3	I	22-HIM-H30	57.59
PowerFlex Compact Class Hand Held Human Interface Module, Includes 1m Cable		22-HIM-A3	363.22



25-COMM-E2P

Communication Option Modules

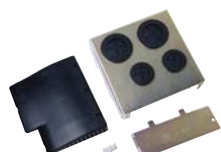
Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 520-Series Dual-Port EtherNet/IP Communication Module		25-COMM-E2P	696.45
PowerFlex 520-Series DeviceNet Communication Module		25-COMM-D	559.36
PowerFlex 520-Series Profibus DPV1 Communication Module		25-COMM-P	612.95



25-EMC1-FA

EMC Grounding Plates

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 520-Series EMC Plate Frame A		25-EMC1-FA	43.97
PowerFlex 520-Series EMC Plate Frame B		25-EMC1-FB	53.56
PowerFlex 520-Series EMC Plate Frame C		25-EMC1-FC	55.46
PowerFlex 520-Series EMC Plate Frame D		25-EMC1-FD	62.86
PowerFlex 520-Series EMC Plate Frame E		25-EMC1-FE	89.97



25-JBAC

IP30 Conversion Kits

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 520-Series IP30 Conversion Kit Frame A		25-JBAA	49.94
PowerFlex 520-Series IP30 Conversion Kit Frame B	I	25-JBAB	53.56
PowerFlex 520-Series IP30 Conversion Kit Frame C		25-JBAC	62.86
PowerFlex 520-Series IP30 Conversion Kit Frame D		25-JBAD	76.43
PowerFlex 520-Series IP30 Conversion Kit Frame E		25-JBAE	101.16



25-ENC-2

Feedback Option Kits

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 525 Incremental Encoder Module		25-ENC-1	116.60
PowerFlex 527 Incremental Encoder Module		25-ENC-2	129.68

Control Module Fan Kits

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 520-Series Control Module Fan Kit Frame A to D		25-FAN1-70C	99.42
PowerFlex 520-Series Control Module Fan Kit Frame E	I	25-FAN2-70C	120.69



25-FAN1-70C

Line Filters

PF520 380...480V 50/60Hz 3-Phase

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex520 EMC Filter 7.5A 480V 3 Phase Frame A		25-RF7P5-AL	152.74
PowerFlex520 EMC Filter 14A 480V 3 Phase Frame B	I	25-RF014-BL	208.54
PowerFlex520 EMC Filter 18A 480V 3 Phase Frame C		25-RF018-CL	277.20
PowerFlex520 EMC Filter 33A 480V 3 Phase Frame D	I	25-RF033-DL	351.30
PowerFlex520 EMC Filter 39A 480V 3 Phase Frame E	I	25-RF039-EL	902.55



25-RF7P5-AL

Replacement Fans

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 520-Series Replacement Fan Frame A		25-FAN1-FA	70.25
PowerFlex 520-Series Replacement Fan Frame B		25-FAN1-FB	72.19
PowerFlex 520-Series Replacement Fan Frame C		25-FAN1-FC	79.72
PowerFlex 520-Series Replacement Fan Frame D		25-FAN1-FD	87.71
PowerFlex 520-Series Replacement Fan Frame E	I	25-FAN1-FE	202.09

Allen-Bradley Architecture Drive Selection Guide



Architecture Drives	PowerFlex 70	PowerFlex 753	PowerFlex 755 Wall Mount
Motor Control	<ul style="list-style-type: none"> Flux vector control with and without an encoder Sensorless vector control Volts per Hertz 	<ul style="list-style-type: none"> Flux vector control with and without an encoder Sensorless vector control Volts per Hertz Permanent magnet motor control (interior only) 	<ul style="list-style-type: none"> Flux vector control with and without an encoder Sensorless vector control Volts per Hertz Surface mount and interior permanent magnet motor control (with and without encoder)
Application	<ul style="list-style-type: none"> Open loop speed regulation Closed loop speed regulation Accurate torque and speed regulation 	<ul style="list-style-type: none"> Open loop speed regulation Closed loop speed regulation Accurate torque and speed regulation Indexer positioning 	<ul style="list-style-type: none"> Open loop speed regulation Closed loop speed regulation Accurate torque and speed regulation Accurate positioning with PCAM, indexer and gearing
Single-phase Input with Derate	Yes	Yes	Yes
Ratings 400-480V	• 0.37...37 kW • 1.1...72 A	• 0.75...270 kW • 2.1...477 A	• 0.75...270 kW • 2.1...477 A
Ambient Temperature Limit for Enclosure Types	<ul style="list-style-type: none"> IP20: 0 to 50 °C IP66: 0 to 40 °C (indoor only) 	<ul style="list-style-type: none"> IP00/IP20: 0 to 50 °C IP54: 0 to 40 °C 	<ul style="list-style-type: none"> IP00/IP20: 0 to 50 °C IP54: 0 to 40 °C
EMC Filters	Internal	Internal	Internal
Overload Capability	<ul style="list-style-type: none"> Normal duty application: 110% - 60 s, 150% - 3 s Heavy duty application: 150% - 60 s, 200% - 3 s 	<ul style="list-style-type: none"> Normal duty application: 110% - 60 s, 150% - 3 s Heavy duty application: 150% - 60s, 180% - 3 s 	<ul style="list-style-type: none"> Normal duty application: 110% - 60 s, 150% - 3 s Heavy duty application: 150% - 60s, 180% - 3 s
User Interface	<ul style="list-style-type: none"> Local HIMs • Remote HIMs Studio 5000 Connected Components Workbench Software (CCW) 	<ul style="list-style-type: none"> Local HIMs • Remote HIMs Studio 5000 Connected Components Workbench Software (CCW) 	<ul style="list-style-type: none"> Local HIMs • Remote HIMs Studio 5000 Connected Components Workbench Software (CCW)
Communication Options	<ul style="list-style-type: none"> Internal DPI • DeviceNet • ControlNet Single or Dual-port EtherNet/IP options PROFIBUS DP Modbus/TCP Refer to SMC-Flex section for more info	<ul style="list-style-type: none"> Single or Dual-port EtherNet/IP options ControlNet • DeviceNet • PROFIBUS DP Modbus/TCP • ProfiNet IO 	<ul style="list-style-type: none"> Built-in EtherNet/IP port or Dual-port EtherNet/IP option ControlNet DeviceNet • PROFIBUS DP Modbus/TCP • ProfiNet IO
Conformal Coating	Standard	Standard	Standard
Analogue Inputs	Qty. 2 (1 bipolar voltage or current, 1 unipolar voltage or current)	1 standard, up to 7 total (bipolar voltage or current)	None standard, up to 10 total (bipolar voltage or current)
Analogue Outputs	Qty. 1 (unipolar voltage or current)	1 standard, up to 7 total (bipolar voltage or current)	None standard, up to 10 total (bipolar voltage or current)
PTC Inputs	Qty. 1 (uses an analog input)	1 standard, up to 3 total	None standard, up to 5 total
Digital Inputs	Qty. 6 (24V DC)	3 standard, up to 21 total (21 - 24V DC)	1 standard, up to 31 total (24V DC)
Relay Outputs	Qty. 2 (form C)	2 standard, up to 7 total	None standard, up to 10 total (form C)
Transistor Outputs	None	1 standard, up to 7 total	None standard, up to 10 total
Dynamic Braking	Standard	Standard	Standard
DC Link Choke	Frame C to E only	Yes	Yes
Auxiliary Power Option	No	Yes	Yes
Safety	<ul style="list-style-type: none"> Hardwired Safe Torque Off SIL2, PLd, CAT 3 - option 	<ul style="list-style-type: none"> Hardwired Safe Torque Off SIL3, PLe, CAT 3 - option Hardwired Safe Speed Monitor SIL3, PLe, CAT 4 - option 	<ul style="list-style-type: none"> Hardwired Safe Torque Off SIL3, PLe, CAT 3 - option Networked Safe Torque Off SIL3, PLe, CAT 4 - option Hardwired Safe Speed Monitor SIL3, PLe, CAT 4 - option
Page	379	381	383



PowerFlex 755 Floor Mount	PowerFlex 755TL	PowerFlex 755TR	PowerFlex 755TM
<ul style="list-style-type: none"> Flux vector control with and without an encoder Sensorless vector control • Volts per Hertz Surface mount and interior permanent magnet motor control (with encoder) 	<ul style="list-style-type: none"> Flux Vector Control Sensorless vector Volts per Hertz Economizer Field oriented control 	<ul style="list-style-type: none"> Flux Vector Control Sensorless vector Volts per Hertz Economizer Field oriented control 	<ul style="list-style-type: none"> Flux Vector Control Sensorless vector Volts per Hertz Economizer Field oriented control
<ul style="list-style-type: none"> Open loop speed regulation Closed loop speed regulation Accurate torque and speed regulation Accurate positioning with PCAM, indexer and gearing 	<ul style="list-style-type: none"> Open loop speed regulation Closed loop speed regulation Precise torque and speed regulation Indexer positioning 	<ul style="list-style-type: none"> Open loop speed regulation Closed loop speed regulation Precise torque and speed regulation Indexer positioning 	<ul style="list-style-type: none"> Open loop speed regulation Closed loop speed regulation Precise torque and speed regulation Indexer positioning
No	No	No	No
• 200...1400 kW • 370...2330 A	• 160...1250 kW • 302...2156 A		
<ul style="list-style-type: none"> IP00/IP20: 0 to 40 °C IP54: 0 to 40 °C Operation to 50 °C with derating 	<ul style="list-style-type: none"> IP21 & IP54 -20 to 40 °C -20 to 55 °C with derate 	<ul style="list-style-type: none"> IP21 & IP54 -20 to 40 °C -20 to 55 °C with derate 	<ul style="list-style-type: none"> IP21 & IP54 -20 to 40 °C -20 to 55 °C with derate
Internal	Internal	Internal	Internal
<ul style="list-style-type: none"> Normal duty application: 110% - 60s, 150% - 3s Heavy duty application: 150% - 60s, 180% - 3s Light duty application (frames 8-10): 110% - 60s 	<ul style="list-style-type: none"> Normal duty application: 110% - 60s, 150% - 3s Heavy duty application: 150% - 60s, 180% - 3s Light duty application (frames 8-10): 110% - 60s 	<ul style="list-style-type: none"> Normal duty application: 110% - 60s, 150% - 3s Heavy duty application: 150% - 60s, 180% - 3s Light duty application (frames 8-10): 110% - 60s 	<ul style="list-style-type: none"> Normal duty application: 110% - 60s, 150% - 3s Heavy duty application: 150% - 60s, 180% - 3s Light duty application (frames 8-10): 110% - 60s
<ul style="list-style-type: none"> Local HIMs • Remote HIMs Studio 5000 Connected Components Workbench Software (CCW) 	<ul style="list-style-type: none"> Local HIMs • Remote HIMs Studio 5000 Connected Components Workbench Software (CCW) 	<ul style="list-style-type: none"> Local HIMs • Remote HIMs Studio 5000 Connected Components Workbench Software (CCW) 	<ul style="list-style-type: none"> Local HIMs • Remote HIMs Studio 5000 Connected Components Workbench Software (CCW)
<ul style="list-style-type: none"> Built-in EtherNet/IP port or Dual-port EtherNet/IP option • ControlNet DeviceNet • PROFIBUS DP Modbus/TCP • ProfiNet IO 	<ul style="list-style-type: none"> Built-in Dual-port EtherNet/IP ControlNet DeviceNet PROFIBUS DP ProfiNet IO 	<ul style="list-style-type: none"> Built-in Dual-port EtherNet/IP ControlNet • DeviceNet • PROFIBUS DP ProfiNet IO 	<ul style="list-style-type: none"> Built-in Dual-port EtherNet/IP ControlNet • DeviceNet • PROFIBUS DP ProfiNet IO
Standard	Standard	Standard	Standard
None standard, up to 10 total (bipolar voltage or current)	None standard, up to 10 total (bipolar voltage or current)	None standard, up to 10 total (bipolar voltage or current)	None standard, up to 10 total (bipolar voltage or current)
None standard, up to 10 total (bipolar voltage or current)	None standard, up to 10 total (bipolar voltage or current)	None standard, up to 10 total (bipolar voltage or current)	None standard, up to 10 total (bipolar voltage or current)
None standard, up to 5 total	None standard, up to 5 total	None standard, up to 5 total	None standard, up to 5 total
1 standard, up to 31 total (24V DC)	1 standard, up to 31 total (24V DC)	1 standard, up to 31 total (24V DC)	1 standard, up to 31 total (24V DC)
None standard, up to 10 total (form C)	None standard, up to 10 total (form C)	None standard, up to 10 total (form C)	None standard, up to 10 total (form C)
None standard, up to 10 total	None standard, up to 10 total	None standard, up to 10 total	None standard, up to 10 total
No	No	No	No
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
<ul style="list-style-type: none"> Hardwired Safe Torque Off SIL3, PLe, CAT 3 - option Networked Safe Torque Off SIL3, PLe, CAT 4 - option Hardwired Safe Speed Monitor SIL3, PLe, CAT 4 - option 	<ul style="list-style-type: none"> Hardwired Safe Torque Off SIL3, PLe, CAT 3 - option Networked Safe Torque Off SIL3, PLe, CAT 4 - option Hardwired Safe Speed Monitor SIL3, PLe, CAT 4 - option 	<ul style="list-style-type: none"> Hardwired Safe Torque Off SIL3, PLe, CAT 3 - option Networked Safe Torque Off SIL3, PLe, CAT 4 - option Hardwired Safe Speed Monitor SIL3, PLe, CAT 4 - option 	<ul style="list-style-type: none"> Hardwired Safe Torque Off SIL3, PLe, CAT 3 - option Networked Safe Torque Off SIL3, PLe, CAT 4 - option Hardwired Safe Speed Monitor SIL3, PLe, CAT 4 - option
384	385	385	Contact NHP

Architecture Drives Application Selection Guide

The Architecture PowerFlex drives provide a broad set of features, application specific parameters and are ideal for high performance applications.

Features and Benefits

- Broad range of power and performance offerings
- Flexibility for simple to complex applications
- Optimal motor control options
- Premier communication connections to Logix controllers
- Internal solutions for EMC, power quality and control system noise

Product Selection

Variable Speed Drives ratings are strongly influenced by acceleration times of the driven machine. The following table, when used in conjunction with the ratings tables provided, ensures accurate Variable Speed Drive selection.

Notes:

- Normal duty rating 110 % for 1 minute - 150 % for 3 seconds
- Heavy duty rating 150 % for 1 minute - 200 % for 3 seconds
- Open Loop control: general purpose applications not requiring torque or position control
- Closed loop control: applications requiring position or torque control or precision speed control

Application	Duty	Application	Duty	Application	Duty
Actuator - Positioning	Heavy	Flying Shears	Normal	Pump - High Pressure	Normal
Actuator - Screw down	Heavy	Frames - Spinning	Normal	Pump - Mono	Heavy
Agitator - Liquid	Normal	Frames - Textile	Normal	Pump - Piston	Heavy
Agitator - Slurry	Heavy	Grinder	Normal	Pump - Positive Displacement	Heavy
Air Separator	Normal	Indexer	Heavy	Pump - Screw	Heavy
Belt Plow	Heavy	Indexing Positioner	Normal	Pump - Sewerage	Normal
Blower - Centrifugal	Normal	Ironer (Laundry)	Normal	Pump - Sludge	Heavy
Blower - Positive Displacement	Normal	Laundry Washer	Heavy	Pump - Slurry	Normal
Calendar - Rubber	Heavy	Machine - Automatic Buffing	Normal	Pump - Submersible	Normal
Calender - Paper	Normal	Machine - Boring	Heavy	Pump - Vacuum	Normal
Calender - Textile	Normal	Machine - Bottling	Normal	Roll - Bending	Heavy
Car Puller	Heavy	Machine - Cinder-block	Heavy	Roll - Crushing	Normal
Card Machine - Textile	Heavy	Machine - Polishing	Normal	Roll - Flaking	Normal
Centrifuge	Heavy	Machine - Textile	Heavy	Rotary Kiln	Heavy
Compressor - Recip. (Loaded)	Normal	Machine - Tools	Normal	Sander - Belt	Normal
Compressor - Recip. (Unloaded)	Normal	Machine - Vibrating	Heavy	Sander - Disk	Normal
Compressor - Screw	Normal	Mill - Band	Normal	Saw - Band	Normal
Compressor - Screw (Booster)	Normal	Mill - Flour	Normal	Saw - Circular	Normal
Conveyor - Belt	Normal	Mill - Grinding	Normal	Saw - Cutoff	Normal
Conveyor - Drag	Heavy	Mill - Metal rolling	Normal	Saw - Gang	Normal
Conveyor - Screw	Heavy	Mill - Rubber	Heavy	Saw - Metal	Normal
Conveyor - Shaker	Heavy	Mill - Saw	Normal	Saw - Wood	Normal
Cooler - Hot solids	Heavy	Mixer - Centrifugal	Normal	Screen - Centrifugal	Normal
Cooler - Rotary	Heavy	Mixer - Chemical	Heavy	Screen - Vibrating	Heavy
Crane - Bridge motion	Heavy	Mixer - Concrete	Normal	Shaker	Normal
Crane - Hoist motion	Heavy	Mixer - Dough	Heavy	Shovel	Normal
Crane - Trolley motion	Heavy	Mixer - Liquid	Normal	Skip Hoist	Normal
Edger	Normal	Mixer - Sand	Normal	Tension maintaining	Heavy
Elevator - Bucket	Heavy	Mixer - Screw	Heavy	Textile looms Heavy	Heavy
Elevator - Freight	Heavy	Mixer - Slurry	Heavy	Tool - Automatic	Normal
Elevator - Personnel	Heavy	Mixer - Solids	Heavy	Tool - Boring	Normal
Escalators	Normal	Planer - Metalworking	Normal	Tool - Broaching	Normal
Extruder - Plastic	Heavy	Planer - Woodworking	Normal	Tool - Lathe	Normal
Extruder - Rubber	Heavy	Power Walks	Normal	Tool - Mill	Normal
Fan - Axial (Damped)	Normal	Press - Draw	Heavy	Tool - Production	Normal
Fan - Axial (Undamped)	Normal	Press - Drill	Normal	Tool - Shaper	Normal
Fan - Centrifugal (Damped)	Normal	Press - Pellet	Heavy	Vehicle - Freight	Heavy
Fan - Centrifugal (Undamped)	Normal	Press - Printing	Normal	Vehicle - Passenger	Normal
Fan - High Pressure	Normal	Press - Punching	Heavy	Winch	Heavy
Feeder - Belt	Heavy	Pump - Bore	Normal	Wood Chipper	Heavy
Feeder - Oscillating drive	Heavy	Pump - Centrifugal	Normal	Woodworking jointers	Normal
Feeder - Screw	Heavy	Pump - Gas	Normal		

A32-dCHRT-501

Architecture Drives

PowerFlex 70 Drives & Accessories

- Compact and reliable design
- Simplified integration into Logix environment
- Improved connectivity with optional dual port EtherNet/IP card
- Option for Hardwired Safety to help simplify meeting safety compliances
- Integral EMC Filter and Braking Transistor

The PowerFlex 70 offers a compact package of power, control and operator interface, designed to meet the demands for space, simplicity and reliability. This drive provides a broad spectrum of features, allowing you to easily integrate it into your architecture and configure it for most application needs. For IP66 options, please contact NHP.



IP20 Panel Mount 380 to 480V AC Three-Phase Drives

- Compact and reliable design
- Simplified integration into Logix environment
- Improved connectivity with optional dual port EtherNet/IP card
- Option for Hardwired Safety to help simplify meeting safety compliances
- Integral EMC Filter and Braking Transistor

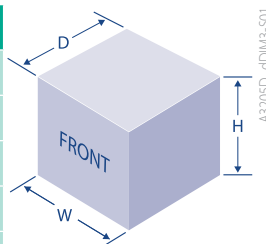
NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
1.3	0.37	0.25	Option card	No	Frame B	I	20AC1P3A0AYNANCO	1,844.14
2.1	0.75	0.55	Option card	No	Frame B		20AC2P1A0AYNANCO	1,916.85
3.5	1.5	1.1	Option card	No	Frame B		20AC3P5A0AYNANCO	2,022.61
5	2.2	1.5	Option card	No	Frame B		20AC5P0A0AYNANCO	2,207.69
11.5	5.5	4	Option card	No	Frame C		20AC011A0AYNANCO	2,771.31
15.4	7.5	5.5	Option card	No	Frame C		20AC015A0AYNANCO	3,352.08
22	11	7.5	Option card	No	Frame D		20AC022A0AYNANCO	4,084.37
30	15	11	Option card	No	Frame D		20AC030A0AYNANCO	4,942.90
37	18.5	15	Option card	No	Frame D		20AC037A0AYNANCO	6,186.51
43	22	18.5	Option card	No	Frame D		20AC043A0AYNANCO	7,733.14
60	30	22	Option card	No	Frame E	I	20AC060A0AYNANCO	9,305.02
72	37	30	Option card	No	Frame E		20AC072A0AYNANCO	11,729.13



20AC011A0AYNANCO

PowerFlex 70 IP20 Panel Mount Dimension Diagram. Dimensions not intended for manufacturing purposes.

Frame	H (mm)	W (mm)	D (mm)	Weight (kg)
A	225.7	122	179.8	2.71
B	234.6	171.7		3.6
C	300	185		6.89
D	350	219.9		9.25
E	555	280.3	207.1	18.6



Safety Option Modules

- Compact and reliable design
- Simplified integration into Logix environment
- Improved connectivity with optional dual port EtherNet/IP card
- Option for Hardwired Safety to help simplify meeting safety compliances
- Integral EMC Filter and Braking Transistor

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 70 Safe Torque-Off Interface		20A-DG01	325.95



20A-DG01



20A-ENC-1

Feedback Option Modules

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 70 Encoder Feedback Interface	I	20A-ENC-1	318.56

Click here for the Rockwell Automation Training Schedule

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Architecture Drives

PowerFlex 753

- Robust design that offers high performance for a wide variety of industrial applications
- Provides general purpose control for applications ranging up to 250kW
- Simplified integration into Logix and improved connectivity with optional dual port EtherNet/IP card
- Supports a comprehensive range of optional network protocols to ease integration into your architecture
- Option for Hardwired Safety or Hardwired Safe Speed to help simplify meeting safety compliances
- Incorporates DeviceLogix™ to control outputs and manage status information locally within the drive, allowing you to operate the drive independently or complementary to supervisory control
- Uses a slot-based hardware architecture that reduces unnecessary add-ons and gives you the flexibility to select option cards to suit your application and expand your drive for future needs
- Prevent unplanned downtime with predictive diagnostics and built-in protection features to help guard your investment
- Integral EMC Filter and Braking Transistor

Designed for general purpose applications, the PowerFlex 753 AC drive offers multiple options and features along with the added benefit of simple integration. The PowerFlex 753 comes standard with built-in I/O making it a cost-effective solution ideal for OEMs and system integrators looking to reduce engineering costs, deliver machines to market faster and meet end-user demand for more productive and safer machines. For flange mount options, please contact NHP.



5

IP00 / IP20 Panel Mount 400V AC Three-Phase Drives

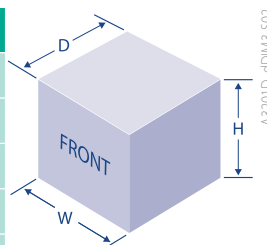
NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
2.1	0.75	0.37	Option card	No	Frame 1		20F11RC2P1JA0NNNNN	1,817.78
3.5	1.5	0.75	Option card	No	Frame 1		20F11RC3P5JA0NNNNN	1,899.29
5	2.2	1.5	Option card	No	Frame 1		20F11RC5P0JA0NNNNN	2,086.77
8.7	4	2.2	Option card	No	Frame 1		20F11RC8P7JA0NNNNN	2,388.38
11.5	5.5	4	Option card	No	Frame 1		20F11RC011JA0NNNNN	2,901.91
15.4	7.5	5.5	Option card	No	Frame 1		20F11RC015JA0NNNNN	3,122.02
22	11	7.5	Option card	No	Frame 2		20F11NC022JA0NNNNN	3,940.76
30	15	11	Option card	No	Frame 3		20F11NC030JA0NNNNN	4,789.17
37	18.5	15	Option card	No	Frame 3		20F11NC037JA0NNNNN	6,002.31
43	22	18.5	Option card	No	Frame 3		20F11NC043JA0NNNNN	7,508.84
60	30	22	Option card	No	Frame 4		20F11NC060JA0NNNNN	8,862.45
72	37	30	Option card	No	Frame 4		20F11NC072JA0NNNNN	11,165.59
85	45	37	Option card	No	Frame 5		20F11NC085JA0NNNNN	13,390.94
104	55	45	Option card	No	Frame 5		20F11NC104JA0NNNNN	15,530.69
140	75	55	Option card	No	Frame 6		20F11NC140JA0NNNNN	19,387.68
170	90	75	Option card	No	Frame 6		20F11NC170JA0NNNNN	21,488.53
205	110	90	Option card	No	Frame 6		20F11NC205JA0NNNNN	24,562.00
260	132	110	Option card	No	Frame 6		20F11NC260JA0NNNNN	31,627.05
302	160	132	Option card	No	Frame 7		20F11NC302JA0NNNNN	39,699.44
367	200	160	Option card	No	Frame 7		20F11NC367JA0NNNNN	48,499.65
456	250	200	Option card	No	Frame 7		20F11NC456JA0NNNNN	58,000.13
477	270	200	Option card	No	Frame 7		20F11NC477JA0NNNNN	62,902.10



20F11NC022JA0NNNNN

PowerFlex 753 IP00/IP20 Wall Mount Dimension Diagram. Dimensions not intended for manufacturing purposes.

Frame	H (mm)	W (mm)	D (mm)	Weight (kg)
1	400.5	110	211	6
2	424.2	134.5	212	7.8
3	454	190		11.8
4	474	222		13.6
5	550	270		20.4
6	666.5	308	346.4	38.6
7	881.5	430	349.6	72.6 to 108.9





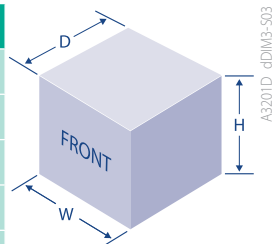
20F11GC011JA0NNNNN

IP54 Wall Mount 400V AC Three-Phase Drives

NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
2.1	0.75	0.75	Option card	No	Frame 2		20F11GC2P1JA0NNNNN	3,293.22
3.5	1.5	1.5	Option card	No	Frame 2		20F11GC3P5JA0NNNNN	3,293.22
5	2.2	2.2	Option card	No	Frame 2		20F11GC5P0JA0NNNNN	3,293.22
8.7	4	4	Option card	No	Frame 2		20F11GC8P7JA0NNNNN	3,578.67
11.5	5.5	5.5	Option card	No	Frame 2		20F11GC011JA0NNNNN	4,109.92
15.4	7.5	5.5	Option card	No	Frame 2		20F11GC015JA0NNNNN	4,197.13
22	11	7.5	Option card	No	Frame 2		20F11GC022JA0NNNNN	4,894.89
30	15	11	Option card	No	Frame 3		20F11GC030JA0NNNNN	6,301.24
37	18.5	15	Option card	No	Frame 3		20F11GC037JA0NNNNN	7,514.39
43	22	18.5	Option card	No	Frame 3		20F11GC043JA0NNNNN	9,020.92
60	30	22	Option card	No	Frame 4		20F11GC060JA0NNNNN	10,885.82
72	37	30	Option card	No	Frame 5		20F11GC072JA0NNNNN	14,101.47
85	45	37	Option card	No	Frame 5		20F11GC085JA0NNNNN	16,326.82
104	55	45	Option card	No	Frame 6		20F1AGC104JA0NNNNN	20,759.71
140	75	55	Option card	No	Frame 6		20F1AGC140JA0NNNNN	23,418.56
170	90	75	Option card	No	Frame 6		20F1AGC170JA0NNNNN	25,519.41
205	110	90	Option card	No	Frame 6		20F1AGC205JA0NNNNN	28,592.87
260	132	110	Option card	No	Frame 7		20F1AGC260JA0NNNNN	37,943.16
302	160	132	Option card	No	Frame 7		20F1AGC302JA0NNNNN	45,190.32
367	200	160	Option card	No	Frame 7		20F1AGC367JA0NNNNN	53,990.51
456	250	200	Option card	No	Frame 7		20F1AGC456JA0NNNNN	63,491.00

PowerFlex 753 IP54 Wall Mount Dimension Diagram. Dimensions not intended for manufacturing purposes.

Frame	H (mm)	W (mm)	D (mm)	Weight (kg)
2	543.2	215.3	222.2	8
3	551	268	220.1	12
4	571	300		14
5	647	348		20
6	1298.3	609.4	464.7	91
7	1614			162



Architecture Drives

PowerFlex 755

- Robust design that offers high performance for a wide variety of industrial applications
- Ideal for applications requiring positioning, speed or torque control
- Simplified integration into Logix with in-built single port EtherNet/IP and improved connectivity with optional dual port EtherNet/IP card
- Supports a comprehensive range of optional network protocols to ease integration into your architecture
- Option for Hardwired Safety or Hardwired Safe Speed to help simplify meeting safety compliances
- Incorporates DeviceLogix™ to control outputs and manage status information locally within the drive, allowing you to operate the drive independently or complementary to supervisory control
- A slot-based hardware architecture that reduces unnecessary add-ons and gives you the flexibility to select option cards to suit your application and expand your drive for future needs
- Prevent unplanned downtime with predictive diagnostics and built-in protection features to help guard your investment
- Drives 250kW and larger have additional diagnostic features including built-in protection devices
- Drives above 250kW are all floor standing
- In-built torque proving software making configuration for hoisting applications easy
- Integral EMC Filter and Braking Transistor



5

Designed for ease of integration, application flexibility and performance the PowerFlex 755 AC drive provides improved functionality across many manufacturing systems. The PowerFlex 755 AC drive is designed to maximise user's investment and help improve productivity. Ideal for applications that require safety, high motor control performance, and application flexibility, the PowerFlex 755 is highly functional and cost-effective solution. For IP54 wall mount or flange mount options, please contact NHP.

IP00 / IP20 Panel Mount 400V AC Three-Phase Drives

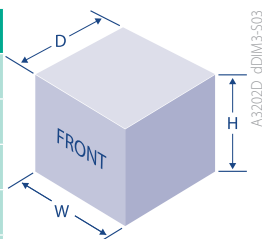
NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
2.1	0.75	0.37	Option card	No	Frame 1	I	20G11RC2P1JA0NNNNN	2,663.84
3.5	1.5	0.75	Option card	No	Frame 1	I	20G11RC3P5JA0NNNNN	2,777.20
5	2.2	1.5	Option card	No	Frame 1		20G11RC5P0JA0NNNNN	3,003.91
8.7	4	2.2	Option card	No	Frame 1		20G11RC8P7JA0NNNNN	3,391.19
11.5	5.5	4	Option card	No	Frame 1		20G11RC011JA0NNNNN	4,090.22
15.4	7.5	5.5	Option card	No	Frame 1		20G11RC015JA0NNNNN	4,789.26
22	11	7.5	Option card	No	Frame 2		20G11NC022JA0NNNNN	5,744.79
30	15	11	Option card	No	Frame 3		20G11NC030JA0NNNNN	6,625.55
37	18.5	15	Option card	No	Frame 3		20G11NC037JA0NNNNN	7,950.66
43	22	18.5	Option card	No	Frame 3		20G11NC043JA0NNNNN	9,585.24
60	30	22	Option card	No	Frame 4		20G11NC060JA0NNNNN	11,326.68
72	37	30	Option card	No	Frame 4		20G11NC072JA0NNNNN	13,898.01
85	45	37	Option card	No	Frame 5		20G11NC085JA0NNNNN	16,389.23
104	55	45	Option card	No	Frame 5		20G11NC104JA0NNNNN	18,776.34
140	75	55	Option card	No	Frame 6	I	20G1ANC140JA0NNNNN	22,772.86
170	90	75	Option card	No	Frame 6	I	20G1ANC170JA0NNNNN	25,097.74
205	110	90	Option card	No	Frame 6		20G1ANC205JA0NNNNN	28,493.84
260	132	110	Option card	No	Frame 6		20G1ANC260JA0NNNNN	36,309.62
302	160	132	Option card	No	Frame 7	I	20G1ANC302JA0NNNNN	45,587.08
456	250	200	Option card	No	Frame 7	I	20G1ANC456JA0NNNNN	63,738.61
477	270	200	Option card	No	Frame 7	I	20G1ANC477JA0NNNNN	70,146.91



20G11NC022JA0NNNNN

PowerFlex 755 IP00 / IP20 Panel Mount Dimension Diagram. Dimensions not intended for manufacturing purposes.

Frame	H (mm)	W (mm)	D (mm)	Weight (kg)
1	400.5	110	211	6
2	424.2	134.5	212	7.8
3	454	190		11.8
4	474	222		13.6
5	550	270		20.4
6	666.5	308	346.4	38.6
7	881.5	430	349.6	72.6 to 108.9



IP20 Floor Standing 400V AC Three-Phase High Power Drives

A Roll-out Cart is required with these drives to assist with power wiring and cabinet mounting.



20G11BC1K0JN0NNNNN

NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
460	250	200	Option card	No	Frame 8	I	20G1ABC460JN0NNNNN	POA
540	315	250	Option card	No	Frame 8	I	20G1ABC540JN0NNNNN	POA
567	315	250	Option card	No	Frame 8	I	20G1ABC567JN0NNNNN	POA
650	355	315	Option card	No	Frame 8	I	20G1ABC650JN0NNNNN	POA
750	400	315	Option card	No	Frame 8	I	20G1ABC750JN0NNNNN	POA
770	400	355	Option card	No	Frame 8	I	20G1ABC770JN0NNNNN	POA
910	500	400	Option card	No	Frame 9	I	20G11BC910JN0NNNNN	POA
1040	560	500	Option card	No	Frame 9	I	20G11BC1K0JN0NNNNN	POA
1090	630	500	Option card	No	Frame 9	I	20G11BC1K1JN0NNNNN	POA
1175	710	560	Option card	No	Frame 9	I	20G11BC1K2JN0NNNNN	POA
1465	800	630	Option card	No	Frame 9	I	20G11BC1K4JN0NNNNN	POA
1480	850	710	Option card	No	Frame 9	I	20G11BC1K5JN0NNNNN	POA
1590	900	710	Option card	No	Frame 10	I	20G11BC1K6JN0NNNNN	POA
2150	1250	1000	Option card	No	Frame 10	I	20G11BC2K1JN0NNNNN	POA

PowerFlex 755 IP20 Floor Mount Dimension Diagram. Dimensions not intended for manufacturing purposes.

Frame	H (mm)	W (mm)	D (mm)	Weight (kg)
8	2543	600	600	623
9		1200		1246
10		1800		1869

IP54 Floor Standing 400V AC Three-Phase High Power Drives

A Roll-out Cart is required with these drives to assist with power wiring and cabinet mounting.



20G11JC1K0JN0NNNNN

NormalDuty (A)	NormalDuty (kW)	HeavyDuty (kW)	Safe Torque-Off	Keypad (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
460	250	200	Option card	No	Frame 8	I	20G1AJC460JN0NNNNN	POA
540	315	250	Option card	No	Frame 8	I	20G1AJC540JN0NNNNN	POA
567	315	250	Option card	No	Frame 8	I	20G1AJC567JN0NNNNN	POA
650	355	315	Option card	No	Frame 8	I	20G1AJC650JN0NNNNN	POA
750	400	315	Option card	No	Frame 8	I	20G1AJC750JN0NNNNN	POA
770	400	355	Option card	No	Frame 8	I	20G1AJC770JN0NNNNN	POA
910	500	400	Option card	No	Frame 9	I	20G11JC910JN0NNNNN	POA
1040	560	500	Option card	No	Frame 9	I	20G11JC1K0JN0NNNNN	POA
1090	630	500	Option card	No	Frame 9	I	20G11JC1K1JN0NNNNN	POA
1175	710	560	Option card	No	Frame 9	I	20G11JC1K2JN0NNNNN	POA
1465	800	630	Option card	No	Frame 9	I	20G11JC1K4JN0NNNNN	POA
1480	850	710	Option card	No	Frame 9	I	20G11JC1K5JN0NNNNN	POA
1590	900	710	Option card	No	Frame 10	I	20G11JC1K6JN0NNNNN	POA
2150	1250	1000	Option card	No	Frame 10	I	20G11JC2K1JN0NNNNN	POA

PowerFlex 755 IP54 Floor Mount Dimension Diagram. Dimensions not intended for manufacturing purposes.

Frame	H (mm)	W (mm)	D (mm)	Weight (kg)
8	2477	600	800	644
9		1200		1287
10		1800		1931

Architecture Drives

PowerFlex 755T

- Corrected power factor helps reduce energy-related expenses
- Provides predictive diagnostics and maintenance settings to monitor drive and motor operating conditions to help analyze system health
- The combination of lower harmonics and power factor correction reduces the need to oversize your electrical power equipment
- Decrease floor space requirements with built-in components
- Eliminate the need for external multi-phase transformers or filters along with the associated wiring, labour, installation and maintenance costs
- Use one interface to configure and program the converter and inverter using Studio 5000 Logix Designer or Connected Components Workbench software
- Meets IEEE 519 standard (5% or less of total harmonic distortion)



New Enhancements for the PowerFlex 755 TL / TM / TR

Introducing XT - Corrosive Gas Protection

- The PowerFlex TL, TR and TM products will now be manufactured with XT-corrosive gas protection as standard
- These drives combine conformal coating with several additional design enhancements to provide improved performance in environments with corrosive gasses

Version 10 Firmware

- CIP Security: Secure communications with EtherNet/IP network protocol
- CIP object for predictive maintenance
- Synchronous reluctance motor control

T-Link Option Card

- The T-Link option card for PowerFlex 755T Drives will enable high speed drive to drive communication
- High speed drive to drive communication simplifies or eliminates logic and hardware necessary to synchronize control between drives

TotalForce technology is Rockwell's patented field-oriented control that provides precise, adaptive control of velocity, torque and position for electric motors. TotalForce technology allows the drives to respond quickly to operating conditions and automatically adjust to help improve system performance.

The new Allen-Bradley PowerFlex 755T drives expand the proven portfolio of the PowerFlex 753 and 755 AC drives. These powerful new additions offer precise motor control along with solutions for regeneration, low harmonics and flexible drive system configurations. Available in 400 V and 690 V AC ratings, in IP21 and IP54 floor-standing configurations and to suit motors from 160 kW to 2300 kW. Available in the following models:

- PowerFlex 755TL Drive – Provides low AC input harmonics and power factor correction through the use of active front end technology.
- PowerFlex 755TR Drive – Provides an energy efficient solution that uses regenerative active front end technology to deliver energy back to the incoming supply. This drive also provides low AC input harmonics and power factor correction.
- PowerFlex 755TM Drive System – Select from a series of pre-designed configurations for regenerative common bus supplies and common bus inverters to optimise your system design and power consumption.

For selection assistance and pricing, please contact NHP.



- 1 **AC pre-charge module** regulates the input AC current from the incoming power source, greatly reducing stress on the power components during power up.
- 2 **LCL filter** is a 230 mm wide module that provides low harmonic capability and minimizes the current distortion into the utility grid.
- 3 **Line side converter** is a 230 mm wide module that draws energy from the AC line without harmonic distortion and converts it to DC power. In the PowerFlex 755TR drive, it also provides a means of regeneration back to the AC line.
- 4 **Motor side inverter** is a 230 mm wide module that controls the voltage and current of the motor.
- 5 **IP21/IP54 enclosures** provide a choice of packaging options to meet the environmental requirements of your application.
- 6 **Control pod** contains the control platform that is responsible for motor control, system control and communications. Five option slots allow you to add I/O, safety and feedback.

IP00 IP20 PF755TL Wall Mount 400V Range

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		IP00 IP20 PF755TL	POA

IP00 IP20 PF755TR Wall Mount 400V Range

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		IP00 IP20 PF755TR	POA

IP21 PF755TL Floor Standing High Power 400V Range

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		IP21 PF755TL	POA

IP21 PF755TR Floor Standing High Power 400V Range

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		IP21 PF755TR	POA

IP54 PF755TL Floor Standing High Power 400V

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		IP54 PF755TL	POA

IP54 PF755TR Floor Standing High Power 400V

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		IP54 PF755TR	POA

Architecture Drives

PowerFlex Architecture Drive Accessories

Most of these accessories are for the PowerFlex 750-series drives and some will also suit the PowerFlex 70-series. Anything labelled PowerFlex 7-class will suit the PowerFlex 70 drives.

PowerFlex 750-Class Accessories

Human Interface Modules (HIM)

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 7-Class Drive Mount Enhanced Human Interface Module		20-HIM-A6	344.99
PowerFlex 7-Class Remote Mount Enhanced Human Interface Module, IP66, Includes 3m Cable		20-HIM-C6S	508.19
PowerFlex 7-Class Extension Cable, 9m, to suit Remote Mount Human Interface Module	I	1202-C90	500.94



20-HIM-A6

I/O Option Modules

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 750-Series 24V DC I/O Module - 2 Analogue Inputs, 2 Analogue Outputs, 6 Digital Inputs and 2 Relay Outputs		20-750-2262C-2R	483.86
PowerFlex 750-Series 24V DC I/O Module - 2 Analogue Inputs, 2 Analogue Outputs, 6 Digital Inputs, 1 Relay Output and 2 Transistor Outputs		20-750-2263C-1R2T	483.86
PowerFlex 750-Series Thermistor Input Module, Requires 11-Series I/O Module	I	20-750-ATEX	363.61



20-750-ATEX

Communication Option Modules

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 750-Series Dual-Port EtherNet/IP Communication Module		20-750-ENETR	909.02
PowerFlex 750-Series DeviceNet Communication Module		20-750-DNET	629.88
PowerFlex 750-Series ControlNet Communication Module		20-750-CNETC	937.65
PowerFlex 750-Series Profibus DPV1 Communication Module	I	20-750-PBUS	639.00
PowerFlex 750-Series Dual-Port Profinet I/O Communication Module	I	20-750-PNET2P	1,080.00
PowerFlex 750-Series 20-COMM-* Adapter Card		20-750-20COMM	137.43



20-750-20COMM

Safety Option Modules

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 750-Series Safe Torque-Off Module		20-750-S	243.36
PowerFlex 750-Series Safe Speed Monitor Module		20-750-S1	1,395.74
PowerFlex 755 & 755T Integrated Safety Functions Option Module	I	20-750-S4	POA
PowerFlex 755 & 755T Network Safe Torque-Off Module	I	20-750-S3	658.50



20-750-S

Feedback Option Modules

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 750-Series Incremental Encoder Module		20-750-ENC-1	287.73
PowerFlex 750-Series Dual Incremental Encoder Module	I	20-750-DENC-1	545.41
PowerFlex 750-Series Universal Feedback Encoder Module		20-750-UFB-1	1,402.90



20-750-ENC-1

Optional Accessories

PowerFlex 750 optional accessories.

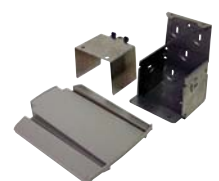
Auxiliary Power Supply



20-750-APS

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 750-Series 24V DC Auxiliary Power Supply Module		20-750-APS	303.49

IP 30 Conversion Kits



20-750-NEMA1-F2

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 750-Series IP30 Conversion Kit, Frame 1		20-750-NEMA1-F1	173.21
PowerFlex 750-Series IP30 Conversion Kit, Frame 2		20-750-NEMA1-F2	181.80
PowerFlex 750-Series IP30 Conversion Kit, Frame 3		20-750-NEMA1-F3	196.12
PowerFlex 750-Series IP30 Conversion Kit, Frame 4		20-750-NEMA1-F4	233.33
PowerFlex 750-Series IP30 Conversion Kit, Frame 5		20-750-NEMA1-F5	293.47
PowerFlex 750-Series IP30 Conversion Kit, Frame 6		20-750-NEMA1-F6	376.49
PowerFlex 750-Series IP30 Conversion Kit, Frame 7		20-750-NEMA1-F7	851.76

EMC Option Kits



20-750-EMC1-F2

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 750-Series EMC Plate and Cores, Frame 1	I	20-750-EMC1-F1	188.96
PowerFlex 750-Series EMC Plate and Cores, Frame 2		20-750-EMC1-F2	188.96
PowerFlex 750-Series EMC Plate and Cores, Frame 3		20-750-EMC1-F3	188.96
PowerFlex 750-Series EMC Plate and Cores, Frame 4		20-750-EMC1-F4	233.33
PowerFlex 750-Series EMC Plate and Cores, Frame 5		20-750-EMC1-F5	293.47

Flange Adapter Kits



20-750-FLNG4-F6

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 750-Series Flange Adapter Kit, IP20 Front and Back, Frame 3	I	20-750-FLNG1-F3	376.49
PowerFlex 750-Series Flange Adapter Kit, IP20 Front and Back, Frame 4	I	20-750-FLNG1-F4	436.61
PowerFlex 750-Series Flange Adapter Kit, IP20 Front and Back, Frame 5	I	20-750-FLNG1-F5	515.35
PowerFlex 750-Series Flange Adapter Kit, IP20 Front, IP66 Back, Frame 6		20-750-FLNG4-F6	901.86
PowerFlex 750-Series Flange Adapter Kit, IP20 Front, IP66 Back, Frame 7	I	20-750-FLNG4-F7	1,095.13

Power Terminal Guards and Extensions



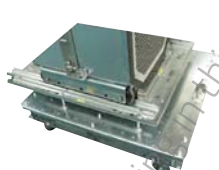
20-750-PTG1-F7

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 750-Series Power Terminal Guard, Frame 6	I	20-750-PTG1-F6	203.27
PowerFlex 750-Series Power Terminal Guard, Frame 7	I	20-750-PTG1-F7	166.05
PowerFlex 750-Series Power Terminal Extension, Frame 6	I	20-750-ACTE1-F6	459.52

PowerFlex 755 Floor Standing Accessories

PowerFlex 750 Roll-out Cart

A Roll-out Cart is required for use with High Power PowerFlex 750 series drives.



20-750-CART1-F8

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex 750-Series Roll Out Cart, Frame 8 to 10		20-750-CART1-F8	2,576.75
PowerFlex 755T Series Roll Out Cart Frame 8 to 10	I	20-750-MCART1	4,779.54

PowerFlex 750 Optional Floor Standing Kits

Item Description	Item Type	Catalogue No.	\$AU
Power Flex 750, Frame 8, OD, CONV TERMINATION KIT	I	20-750-BUS2-F8	2,004.14

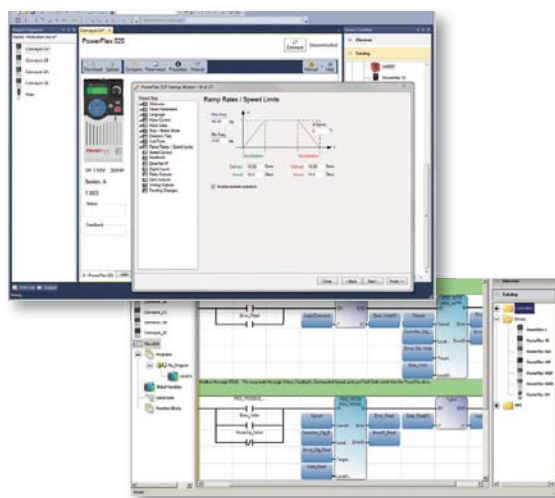
Drives Software - Connected Components Workbench

Connected Components Workbench programming and configuration software supports PowerFlex AC drives and SMC soft starters as well as other Allen Bradley devices. This software leverages proven Rockwell Automation and Microsoft Visual Studio technologies for fast and easy drive and soft starter setup. Connects via Ethernet or USB (offline only) if available, otherwise via a **1203-USB** interface. The software can be downloaded for free at <http://www.ab.com/go/ccws>

Item Description	Item Type	Catalogue No.	\$AU
PowerFlex and SMC USB Interface for Connected Components Workbench PC Software		1203-USB	684.37



1203-USB



A3206D02_dCHRT-S01

**Drive features include:**

- Online and offline configuration
- Linear List Parameter Editor
- Easy access to embedded device user manuals
- Context-sensitive "Help"
- Localized language support
- Connection path is saved with device, reducing time for each subsequent connection
- View and clear fault queue, clear faults
- View and clear event queue, clear events
- View diagnostic items
- Reset drive/peripheral

Configured Drives

Configured Drives

5

- Three Control Modes: Vector Control with Force Technology, Sensorless Vector and Volts/Hertz control
- Superior open-loop and closed-loop speed and torque control
- Full Featured LCD Human Interface Module (HIM), with easy-to-use start-up and tuning algorithms
- Modular drive components for easy maintenance
- Low harmonic drive solutions
- CIP Safety enabled technology reducing hardware complexity

At the heart of all Configured Drives is the Allen-Bradley PowerFlex family of AC drives. The worlds leading AC drives technology.

PowerFlex represents an optional mix of advanced power electronics and superior microprocessor control, all in a flexible and compact package.

NHP Configured Drives

NHP Configured Drives offer a vast array of options in their basic drives packages - a level of choice that guarantees the most accurate application solution. Leverage our local manufacturing capability with experienced engineers who understand local codes, standards, and application requirements to help you get to market faster than ever before.

- Ready to run - out the box - Fully factory assembled IP54 enclosures from NHPs Laverton facility, all drives are 'ready to run'
- Fast Delivery - Drives are delivered to site within just four to six weeks of order.
- Enhanced reliability - As NHP represents the single point of responsibility for all technology, engineering design, assembly and after-sales support, the Configured Drives offering is a refreshing new standard of drive reliability
- Safety and Standards compliant - Design, built and tested to comply with the relevant Australian Standards, plus Australian Standards defining RFI, harmonic emissions and other electrical performance standards
- Engineering excellence - With 50 years experience, NHP offers impressive experience and know-how of drives solutions for industry. All design and assembly work is completed in-house at the Laverton facility.
- Power - available in capacities spanning 0.75kW to over 1MW. (Can include input/output switchgear and filters (where required)
- Control via local remote 4-20mA or 0-10V inputs. (Run/Stop indications and Start/Stop pushbutton control is also provided either local to the panel or remote)
- Network Capability - EtherNet/IP, ControlNet, DeviceNet, Remote I/O and Data Highway Plus (DH+). Other networks are also supported. Including ProfiBus, Interbus, RS485 DFI, RS485 HVAC and Lonworks
- Operator Interface - All PowerFlex drives come complete with Allen-Bradley Human Interface Module (HIM) - fully featured LCD multi-line/multi-lingual display and configuration panel. The HIM provides all drive configuration and real-time drive operation data, and may be mounted either on the drive unit or the front of the drive enclosure.

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		NHP Configured Drives	POA



Configured Drives

Arc Fault Contained Variable Speed Drives

Standard Inclusions:

- Incoming circuit breaker with shunt release and auxiliary contacts
- 24V DC Power Supply
- Door mounted Human interface Module
- 24V DC I/O module
- 4mm Aluminium Gland Plate
- IP54 Floor Mount
- Complies with AS/NZS 61439
- Voltage Range 380...400V AC
- Covering Normal Duty Rating at 400V - 55kW to 250kW
- Cable Entry/Exit: Bottom/Bottom

Options

- Line and Load Side Reactor

Arc faults can cause serious injury and potentially fatalities. Rockwell's specially designed enclosure now adds another layer of protection to personnel in the event of an arc fault. Safety is the number one priority and so it is with our customers. Increase the safety of your personnel by installing an Arc Fault contained PowerFlex 755 Variable Speed from Rockwell Automation.

The PowerFlex 750 series offer seamless integration into the Logix environment for simplified and enhanced configuration, programming, diagnostics and maintenance. Supporting a comprehensive range of network protocols to ease integration into your architecture. The PowerFlex 755 features an embedded EtherNet/IP port, allowing you to easily manage drive data over Ethernet/IP networks.

Safe Torque-off and Safe Speed Monitor

Help further protect personnel and equipment while reducing machine downtime with safety solutions up to and including PLe/SIL, Cat 3 and Cat 4

Rockwell Automation Arc Fault Drives

- Variable Speed Drives have been difficult to design to withstand arc faults due to critical failure points in vents and fans. Rockwell Automation has designed a patented arc baffle ventilation system which allows air to flow under normal operating conditions, but under an arcing fault, diverts all gases flowing from the enclosure and provides no direct path for gas
- The PowerFlex 750 offer seamless integration into the Logix environment for simplified and enhanced configuration, programming, diagnostics and maintenance
- The PowerFlex 750 series supports a comprehensive range of network protocols to ease integration into your architecture. The PowerFlex 755 features an embedded EtherNet/IP port, allowing you to easily manage drive data over Ethernet/IP networks
- Help protect personnel and equipment while reducing machine downtime with safety solutions up to and including PLe/SIL, Cat 3 and Cat 4

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		RA Arc Fault Contained Drives	POA



RA Arc Fault Contained Drives



Reactor Modules

Allen-Bradley Reactors



Allen-Bradley reactors help keep equipment running longer by absorbing many of the power line disturbances which can shut down your drive. At the input of a drive, reactors help protect against surges or spikes on the incoming power lines and help reduce harmonic distortion. At the output of the drive, reactors help reduce dv/dt and motor terminal peak voltages for long motor cable runs in particular. The use of a reactor on the output of the drive also helps protect the drive from surge currents caused by rapid changes in the load. Applicable to all PowerFlex drives. For Single-phase 240V AC or SWER 480VAC applications, please contact NHP.

I/O Reactors

380 to 480V Three-Phase



1321-3R1-C

Impedance (%)	In (A fundamental)	Ln (mH)	IP Rating	Item Type	Catalogue No.	\$AU
3	1	36	IP20	I	1321-3R1-C	215.49
3	2	20	IP20		1321-3R2-B	248.53
3	4	6.5	IP20		1321-3R4-B	248.53
3	4	9	IP20	I	1321-3R4-C	248.53
3	8	3	IP20		1321-3R8-B	274.97
3	8	5	IP20	I	1321-3R8-C	383.37
3	12	2.5	IP20		1321-3R12-B	315.96
3	18	1.5	IP20	I	1321-3R18-B	389.97
3	25	1.2	IP20		1321-3R25-B	457.40
3	35	0.8	IP20		1321-3R35-B	477.22
3	45	0.7	IP20		1321-3R45-B	618.67
3	55	0.5	IP00		1321-3R55-B	658.34
3	80	0.4	IP00		1321-3R80-B	772.02
3	100	0.3	IP00		1321-3R100-B	1,087.97
3	130	0.2	IP00	I	1321-3R130-B	1,229.43
3	160	0.15	IP00	I	1321-3R160-B	1,507.04
3	200	0.11	IP00	I	1321-3R200-B	1,758.21
3	200	0.185	IP00	I	1321-3R200-C	2,220.90
3	250	0.09	IP00	I	1321-3RB250-B	2,392.75
3	320	0.075	IP00		1321-3RB320-B	2,670.37
3	400	0.06	IP00		1321-3RB400-B	2,934.76
3	500	0.05	IP00	I	1321-3R500-B	3,212.35
3	600	0.04	IP00	I	1321-3R600-B	3,767.58
3	750	0.029	IP00	I	1321-3R750-B	5,618.32
3	850	0.027	IP00	I	1321-3R850-B	6,570.14
3	1000	0.022	IP00	I	1321-3R1000-B	7,217.91

Dynamic Brake Resistors

Standard Brake Resistors

Dynamic braking resistors are used on AC variable frequency drives to dissipate energy that is produced in the motor as the drive provides braking torque to stop the motor. The dynamic braking resistor is connected to the DC bus and will see voltages as high as 800 volts during braking conditions. Contact NHP to assist with your Dynamic Braking Resistor sizing.



Standard Brake Resistors

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		Dynamic Brake Resistor	POA

Pricing in this document is invalid – for pricing and availability please access the NHP Customer portal under 'My Account'

Soft Starters, Medium Voltage

Allen-Bradley MV Soft Starters



- Smooth motor starting and reduced starting torque minimises mechanical stress on system components
- Reduced inrush currents save energy and prolong system life
- Interactive pump control mode reduces water hammer – and related shock – on pumping systems
- Flexible configurations meet requirements for new applications, retrofits and OEM customisation
- Intelligent Motor Control technology provides real-time access to motor information to improve motor protection and system performance

Medium voltage soft starters up to 15kV.

Allen-Bradley MV soft starters apply reduced voltage to a medium voltage AC motor to allow soft starting and stopping, limit the inrush current, and reduce the effects of water hammer in pumping systems.

Centreline 1500 (up to 6.6kV)

Soft Starters

The medium voltage SMC50 controllers furnish, as standard, a full range of starting and stopping methods for a variety of applications. Its unique control options offer enhanced motor starting and stopping capabilities to satisfy your most demanding applications up to 6.6kV. OEM kits also available.

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		Centerline1500 SMC50	POA

One Gear (10 to 15kV)

Soft Starters

The OneGear medium voltage SMC Flex controller provides the integrated features and functionality you need to conserve power and minimise manufacturing risks while reaping the most productivity from your environment. Rated for applications from 10 to 15kV, this flexible smart motor controller offers a full range of starting and stopping methods, including an interactive pump control mode designed to reduce fluid surges in pumping systems. To help protect your valuable rotating assets, choose from fused vacuum contractors or vacuum circuit breakers.

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		One Gear SMC50	POA

Variable Speed Drives, Medium Voltage

PowerFlex 6000T Drives

- Multiple control modes including flux vector control
- Up to 150% starting torque with an encoder and a minimum of 100% starting torque without an encoder
- Reduced peak demand charges by operating near unity power factor throughout the speed range
- Integrally mounted multi-pulse isolation transformer helps ensure low line-side harmonics
- ECO fans which provide higher efficiency and reduced losses
- Automatic power cell bypass helps minimise downtime in your critical applications
- Common modular power cells that are designed for easy removal, minimising Mean Time To Repair
- Now feature TotalFORCE technology which enable flexible high-performance control, real-time operational intelligence and automated commissioning and optimization

The PowerFlex 6000T medium voltage variable speed drives have the flexibility to suit a variety of applications. Suited for new or retrofit, variable torque and constant torque applications. Some ideal applications are fans, pumps and compressors that require variable speed drives from 2.3kV to 11kV. Available in multiple configurations based on application, these drives are easy-to-use and maintain. Sharing the same control hardware, firmware and network interface software used in our latest 755T low voltage drives. Using a common control platform across your entire install base will aid in lowering integration, operation and support costs. Furthermore a common platform will help in reducing product-specific training and spare parts inventory.

TotalFORCE Technology is now featured with the PowerFlex 6000T. Featuring Device Logix capability and high-performance control - Flex vector, sensorless vector and V/Hz control with Load Sharing. Additional features include real-time operational intelligence - offering predictive and preventative maintenance algorithms and real-time alerts. Furthermore allowing automated commissioning and optimization - Load Observer, allowing real-time tuning which automatically compensates for unknown load disturbances as well as Adaptive tuning which monitors real-time drive and system performance characteristics allowing it to identify and suppress potentially harmful resonance and vibrations.



5

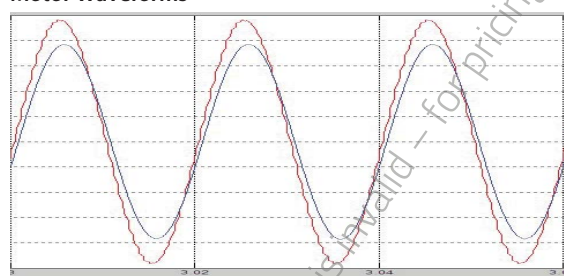
PowerFlex 6000 MV Drives

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		PowerFlex 6000	POA



PowerFlex 6000

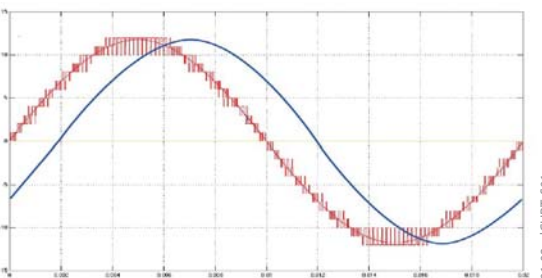
Motor Waveforms



6.6 kV Output

Motor friendly current and voltage waveforms - suitable for operation with new or existing standard motors. Inverter duty motors not required.

PowerFlex 6000 Line Side Harmonics



6.6kV Input (36 Pulse)

Power System Friendly input current and voltage waveforms - complies with IEEE 519 Harmonic Guidelines.

This page intentionally left blank

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Field Switching and Sensing

Non Contact Sensors

Sensors Selection Guide		398
Photoelectric Sensors	Index	400
Proximity Sensors	Index	412
Carlo Gavazzi Proximity Sensors	Index	416
Motion Sensors		423

Limit Switch

Allen-Bradley Limit Switches	Index	424
Steute Limit Switches		428
Austrol Heavy-Duty Limit Switches		430

Belt Drift Switch

Belt Drift Switches		431
---------------------	--	-----

Wireless Field Devices

Wireless Switches and Sensors	Index	432
-------------------------------	-------	-----

Flow, Pressure, Level and Measuring Devices

Light Sensors		438
Level Sensors		439
Pressure Switches and Sensors		441

Encoder

Encoders		443
----------	--	-----

ID Systems

Code Readers		447
--------------	--	-----

Sensors Selection Guide

Follow the six easy steps to select the right sensor for your application.

1 Identify your Sensor Type

Identify the size and material of the object being detected. The sensor type can be defined based on the material properties. The table below gives an indication of applications and operating principles for different sensing technologies.

Sensor Type	Operating Principle	Application
Photoelectric	Detection of light	General sensing– used for presence/absence detection. Precaution – dusty/contaminated environments are not suitable. It is recommended to use ultrasonic sensors for these environments.
Inductive	Variations in induced magnetic field	Metal sensing only
Ultrasonic	Detection of sound waves	General sensing– used for presence/absence detection and level detection.
Capacitive	Variations in induced electrostatic fields	Liquid and non-metal sensing

6 2 Select the Required Sensing Distance

Select the sensing distance for the particular application. The maximum sensing distances available for different types of sensors are as follows:

Sensor Type				Max. Sensing Distance (Sensor Dependent)	Typical Sensing Distance
Photoelectric	Through beam			300m	6 – 15m
	Retroreflective			30m	2 – 6m
	Diffuse			6m	300 – 800mm
Inductive	Cylindrical body	M12	Shielded	6mm	2 – 20mm
			Unshielded	10mm	
		M18	Shielded	10mm	
			Unshielded	20mm	
		M30	Shielded	20mm	
			Unshielded	40mm	
	Rectangular body	–	–	60mm	2 - 20mm
Ultrasonic	Cylindrical body	M18	–	1.5m	1 - 3.5m
		M30	–	3.5m	
Capacitive	Cylindrical body	M12	Shielded	2.5mm	2 – 20mm
			Unshielded	N/A	
		M18	Shielded	5mm	
			Unshielded	8mm	
		M30	Shielded	10mm	
			Unshielded	20mm	

G2301D_dCHRT-501

3 Select the Housing Type and Material

- **Photoelectric sensors:** the most popular housing styles are - rectangular body, cylindrical body with 18mm diameter (plastic or metal) and miniature body
- **Inductive sensors:** cylindrical body is generally used in majority of applications (12, 18 or 30mm diameter). Rectangular housing is also available (plastic only). The housing materials available for the cylindrical type are plastic, stainless and nickel-plated brass
- **Ultrasonic sensors:** cylindrical body with 18 or 30mm diameter, housing material is plastic
- **Capacitive sensors:** cylindrical body with 12, 18, 30 or 34mm diameter; the housing materials available are plastic and nickel-plated brass

Note: For inductive and capacitive proximity sensors the diameter of the sensor is directly proportional to the sensing range e.g. bigger diameter has longer sensing distance

4 Output Considerations

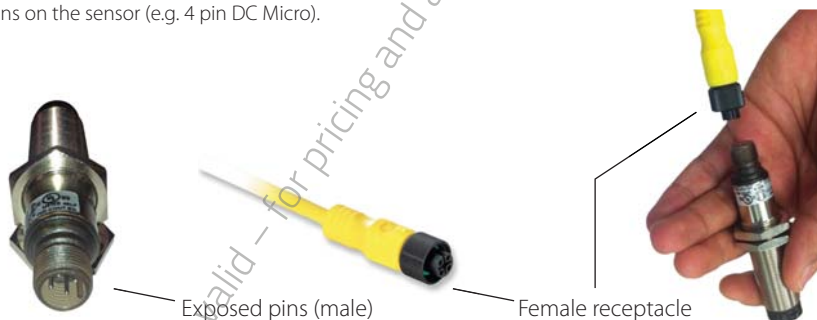
Identify the output required:

- Solid state output (NPN or PNP type)
- Relay output (typically available with photoelectric sensors)
- Analogue output (only available with ultrasonic sensors and certain photoelectric sensors)

5 Select the Connection Cordsets

- Carlo Gavazzi sensors include a 5m cordset with a straight connector. Other cordset lengths and connectors are available separately.
- When selecting an Allen-Bradley sensor you must choose a sensor and a cordset.

Cordsets are used to connect to the sensors. The cordsets are cables that have a female connector on one end and flying lead on the other. The sensors have male connectors (exposed pins) that plug into the cordsets. The cordset can be chosen by matching the connector thread and the number of pins on the sensor (e.g. 4 pin DC Micro).

**6 Select the Mounting Brackets**

The brackets can be chosen based on the mounting requirements. Suitable brackets are listed with the sensor accessories in each of the respective sections for photoelectric, inductive, ultrasonic and capacitive sensors.

G2301D_dCHRT-S02

Photoelectric Sensors

Allen-Bradley Photoelectric Sensors

Retroreflective Sensors	Page 400
Polarised Retroreflective Sensors	Page 401
Transmitted Beam Sensors	Page 402
Digital Diffuse Sensors	Page 403
Background Suppression Sensors	Page 405
Laser Sensors	Page 405
Analogue Laser Sensors	Page 406
Colour Detection Sensors	Page 406
Clear Object Detection Sensors	Page 406
Sensor Accessories	Page 407
Allen-Bradley Odos 3D Sensors	Page 407

6



- Comprehensive range of photoelectric sensing technologies available which include retroreflective, through-beam, diffuse, background suppression, clear object detection, colour detection and fibre-optics
- Extensive range of photoelectric sensors with laser light source available suitable for high precision applications
- Extensive range of housing styles and mounting options
- Specialised versions with IP69k rating available for high-pressure washdown applications in the food and beverage industry
- Specialised long-range laser sensors available for distance measurement applications
- Specialised versions available with IO-Link technology. This technology enables the data delivery from the sensor directly into a control system in a very efficient manner

Photoelectric sensors use a beam of light to detect the presence or absence of an object. This technology is used for applications where long sensing distances are required and proximity sensors do not provide an effective solution. The Allen-Bradley range of photoelectric sensors satisfy applications found in many industries, such as material handling, packaging, food processing, and transportation.

Product Selection

The complete range of suitable connection cables for the plug-versions of the sensors is listed in section 'Termination and Wiring Systems' under Pre-Wired Cables and Connections Systems. The typical connection cables used with Allen-Bradley Photoelectric sensors are as follows:

889DF4ACx: 4-pin straight DC Micro (M12)

889PF4ACx: 4-pin straight DC Pico (M8)

*x is substituted for the length of the required cable eg. 2,5,10,15,20

Retroreflective Sensors

Retroreflective sensors have an inbuilt transmitter and receiver and are used in conjunction with a reflector. The sensor emits a light beam and detects the light reflected back by the reflector. When there is a target present, it breaks the beam and no light is detected by the sensor. Retroreflective sensors are the most commonly used type of photoelectric sensor.

18mm Cylindrical

Bulletin 42CA Retroreflective 18mm Plastic Cylindrical



42CA-U2MPB-D4

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	SAU
2 - 4,800mm, N / A	Retroreflective	10 - 30V DC	PNP, Light & Dark Operate	IP67	M12 x 1, DC Micro, 4-pin		42CA-U2MPB-D4	137.01

Compact Rectangular

Bulletin 42EF RightSight right angle mount



42EF-U2KBB-F4

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	SAU
25 - 4,500mm, N / A	Retroreflective	10.8 - 30V DC	NPN & PNP, Dark Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42EF-U2KBB-F4	187.03

Rectangular

Bulletin 42G / Series 9000 Heavy Duty

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
50 - 9,100mm, Single-Turn Knob / Potentiometer	Retroreflective	10 - 30V DC	NPN & PNP, Light or Dark Operate Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42GRU-9000-QD	282.15
50 - 9,100mm, Single-Turn Knob / Potentiometer	Retroreflective	70 - 264V AC / 70 - 264V DC	SPDT EM Relay, Light or Dark Operate Selectable	IP67, IP69K	Built-in cable with flying leads, PVC, 2m		42GRU-9002	292.48
50 - 9,100mm, Single-Turn Knob / Potentiometer	Retroreflective		SPDT EM Relay, Light or Dark Operate Selectable	IP67, IP69K	7/8" - 16UN, Mini, 5-Pin	I	42GRU-9002-QD	295.08
50 - 9,100mm, Single-Turn Knob / Potentiometer	Retroreflective	20 - 40V AC / 10 - 55V DC	SPDT EM Relay, Light or Dark Operate Selectable	IP67, IP69K	7/8" - 16UN, Mini, 5-Pin	I	42GRU-9001-QD	297.63



42GRU-9000-QD

Polarised Retroreflective Sensors

Polarised retroreflective sensors contain polarising filters in front of the light source and receiver. This means the sensor can only see reflected light from the reflector while ignoring any other reflected light. Polarised retroreflective sensors are used when shiny or highly reflective targets need to be sensed; alternatively it can also be used to detect objects against highly reflective backgrounds. The IO-link enabled Polarised Retroreflective sensors are Bulletin 42JT Polarised Retroreflective sensors and certain sensors in Bulletin 42EF Polarised Retroreflective sensors range (42EF-P2MPB-F4).

18mm Cylindrical

Bulletin 42CA Retroreflective 18mm Plastic Cylindrical

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
2 - 3,800mm, No	Polarised Retro-reflective	10 - 30V DC	PNP, Light & Dark Operate	IP67	M12 x 1, DC Micro, 4-pin	I	42CA-P2MPB-D4	141.36



42CA-P2MPB-D4

Bulletin 42CM 18mm Metal Cylindrical

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
3mm, No	Polarised Retro-reflective	10 - 30V DC	PNP, Light & Dark Operate	IP67	M12 x 1, DC Micro, 4-pin	I	42CM-P2MPB-D4	211.47



42CM-P2MPB-D4

Compact Rectangular

Bulletin 42EF RightSight right angle mount

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
25 - 3,000mm, N / A	Polarised Retro-reflective	10.8 - 30V DC	PNP, Light & Dark Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42EF-P2MPB-F4	184.55
25 - 3,000mm, N / A	Polarised Retro-reflective	10.8 - 30V DC	NPN & PNP, Light Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin	I	42EF-P2JBB-F4	187.03
25 - 3,000mm, N / A	Polarised Retro-reflective	10.8 - 30V DC	NPN & PNP, Dark Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42EF-P2KBB-F4	187.03



42EF-P2MPB-F4

Bulletin 42JS VisiSight miniature

Sensing Distance (mm, adjustment)	Sensing (mode)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
3,500mm, Single-Turn Knob / Potentiometer	Polarised Retro-reflective	PNP, Light or Dark Operate Selectable	IP67	M12 x 1, DC Micro, 4-pin	I	42JS-P2MPA2-F4	153.04



42JS-P2MPA2-F4



42JT-P2LAT1-P4

Bulletin 42JT VisiSight miniature

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
100 - 6,000mm, Teach Button	Polarised Retro- reflective	10 - 30V DC	NPN/PNP Auto-Detect, Light or Dark Operate Selectable	IP67, IP69K	M8 x 1, DC, Pico, 4-pin	I	42JT-P2LAT1-P4	169.63

Rectangular

Bulletin 42G / Series 9000 Heavy Duty



42GRU-9200-QD

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
50 - 4,900mm, Single-Turn Knob / Potentiometer	Polarised Retro- reflective	10 - 30V DC	NPN & PNP, Light or Dark Operate Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42GRU-9200-QD	284.73
50 - 4,900mm,	Polarised Retro- reflective		NPN & PNP, Light or Dark Operate Selectable	IP67, IP69K	, PVC, 2m	I	42GRU-9200	295.08

Transmitted Beam Sensors

A transmitted beam or through beam sensor consists of a separate transmitter and receiver unit. Transmitted beam sensors are reliable and achieve a longer sensing distance than other photoelectric sensors. Transmitters and receivers are listed as separate part numbers. Bulletin 42JT Transmitted Beam sensors are IO-link enabled.

12mm Cylindrical

Bulletin 42CF 12mm metal cylindrical



42CF-E1EZB-D4

Sensing Distance (mm, adjustment)	Sensing (mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
2,000mm, No	Through-Beam Emitter	IP67	M12 x 1, DC Micro, 4-pin		42CF-E1EZB-D4	127.08

18mm Cylindrical

Bulletin 42CA 18mm cylindrical



42CA-R1MPA1-D4

Sensing Distance (mm, adjustment)	Sensing (mode)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
16,000mm, No	Through-Beam Receiver	PNP, Light or Dark Operate Selectable	IP67	M12 x 1, DC Micro, 4-pin	I	42CA-R1MPA1-D4	102.85

Bulletin 42CM 18mm metal cylindrical



42CM-R1MPB-D4

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
3,000 - 20,000mm, N / A	Through-Beam Receiver	10 - 30V DC	PNP, Light & Dark Operate	IP67	M12 x 1, DC Micro, 4-pin	I	42CM-R1MPB-D4	169.88

25.4mm Cylindrical (1" Imperial Thread)

Bulletin 42SR / Series 6000

Sensing Distance (mm, adjustment)	Sensing (mode)	Output & Switching (type, mode)	IP Rating	Item Type	Catalogue No.	\$AU
36,600mm, Teach Button	Through-Beam Receiver	NPN & PNP,	IP67	I	42SRR-6002-QD	449.68

Compact Rectangular

Bulletin 42EF RightSight right angle mount

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
20,000mm, N / A	Through-Beam Receiver	10.8 - 30V DC	PNP, Light or Dark Operate Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42EF-R2MPB-F4	146.52



Bulletin 42JT VisiSight miniature

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
13,000mm, N / A	Through-Beam Emitter	10 - 30V DC	NPN/PNP Auto-Detect, Light or Dark Operate Selectable	IP67, IP69K	M8 x 1, DC, Pico, 4-pin	I	42JT-E2EZB1-P4	98.95
13,000mm, Teach Button	Through-Beam Receiver	10 - 30V DC	NPN/PNP Auto-Detect, Light or Dark Operate Selectable	IP67, IP69K	M8 x 1, DC, Pico, 4-pin	I	42JT-R9LAT1-P4	129.48



Rectangular

Bulletin 42G / Series 9000 Heavy Duty

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
25 - 61,000mm, N / A	Through-Beam Emitter	10 - 30V DC	Light or Dark Operate Selectable	IP67, IP69K	Built-in cable with flying leads, PVC, 2m		42GRL-9000	192.08
25 - 61,000mm, N / A	Through-Beam Emitter	10 - 30V DC	Light or Dark Operate Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42GRL-9000-QD	194.69
61,000mm, N / A	Through-Beam Emitter	10 - 30V DC	Light or Dark Operate Selectable	IP67, IP69K	7/8" - 16UN, Mini, 4-Pin	I	42GRL-9002-QD	194.69
Single-Turn Knob / Potentiometer	Through-Beam Receiver	10 - 30V DC	NPN & PNP, Light or Dark Operate Selectable	IP67, IP69K	Built-in cable with flying leads, PVC, 2m		42GRR-9000	245.39
Single-Turn Knob / Potentiometer	Through-Beam Receiver	10 - 30V DC	NPN & PNP, Light or Dark Operate Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42GRR-9000-QD	245.39
25 - 152,000mm, N / A	Through-Beam Emitter	10 - 30V DC	Light or Dark Operate Selectable	IP67, IP69K	Built-in cable with flying leads, PVC, 2m		42GRL-9040	264.02
25 - 152,000mm, N / A	Through-Beam Emitter	10 - 30V DC	Light or Dark Operate Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42GRL-9040-QD	264.02
15,200mm,	Through-Beam Emitter		Light or Dark Operate Selectable	IP67, IP69K	7/8" - 16UN, Mini, 4-Pin	I	42GRL-9042-QD	264.02
Single-Turn Knob / Potentiometer	Through-Beam Receiver	40 - 264V AC / 70 - 264V DC	NPN (Sink) MOSFET, Light or Dark Operate Selectable	IP67, IP69K	7/8" - 16UN, Mini, 4-Pin		42GRR-9003-QD	269.19



Digital Diffuse Sensors

Diffuse sensors have an inbuilt transmitter and receiver and operate based on the detection of the reflected beam from the target object. A reflector is not required, so they can be used when the target object is not accessible from both sides. The IO-link enabled Digital Diffuse sensors are Bulletin 42JT and certain items in Bulletin 42EF (42EF-D2MPAK-F4).

12mm Cylindrical

Bulletin 42CF 12mm Metal Cylindrical

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
1 - 300mm, Teach Button	Diffuse	10 - 30V DC	PNP, Light or Dark Operate Selectable	IP67	M12 x 1, DC Micro, 4-pin	I	42CF-D1LPA2-D4	191.88



18mm Cylindrical

Bulletin 42CA Diffuse 18mm Plastic Cylindrical



42CA-D1MPAE-D4

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
100mm, Single-Turn Knob / Potentiometer	Diffuse	10 - 30V DC	PNP, Light & Dark Operate	IP67	M12 x 1, DC Micro, 4-pin		42CA-D1MPAE-D4	118.78
1,000mm, Single-Turn Knob / Potentiometer	Diffuse	10 - 30V DC	PNP, Light & Dark Operate	IP67	M12 x 1, DC Micro, 4-pin		42CA-D1MPAL-D4	184.85

Bulletin 42CM 18mm Metal Cylindrical



42CM-D1MPAL-D4

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
3 - 400mm, Single-Turn Knob / Potentiometer	Diffuse	10 - 30V DC	PNP, Light & Dark Operate	IP67	M12 x 1, DC Micro, 4-pin		42CM-D1MPAL-D4	208.96

25.4mm Cylindrical (1" Imperial Thread)

Bulletin 42SR / Series 6000

Sensing Distance (mm, adjustment)	Sensing (mode)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
3 - 760mm, Multi-Turn Knob / Potentiometer	Diffuse	NPN & PNP, Light Operate	IP67	M12 x 1, DC Micro, 4-pin		42SRP-6002-QD	536.49

Compact Rectangular

Bulletin 42EF RightSight right angle mount



42EF-D2MPAK-A2

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
500mm, Single-Turn Knob / Potentiometer	Diffuse	10.8 - 30V DC	NPN & PNP, Light Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42EF-D2JBAK-F4	159.29
3 - 500mm, Single-Turn Knob / Potentiometer	Diffuse	10.8 - 30V DC	PNP, Light & Dark Operate	IP67, IP69K	Built-in cable with flying leads, 2m		42EF-D2MPAK-A2	169.36
3 - 500mm, Single-Turn Knob / Potentiometer	Diffuse	10.8 - 30V DC	PNP, Light & Dark Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42EF-D2MPAK-F4	169.36
3 - 700mm, Teach Button	Diffuse	10.8 - 30V DC	NPN & PNP, Light Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin	I	42EF-D1JBCK-F4	195.06
3 - 300mm, Single-Turn Knob / Potentiometer	Diffuse	21.6 - 264V AC / 21.6 - 264V DC	NPN (Sink) MOSFET, Light Operate	IP67, IP69K	1/2" - 20UN, AC Micro, 4pin	I	42EF-D1RCAK-G4	219.90

Bulletin 42JS VisiSight miniature



42JS-D2MPA1-F4

Sensing Distance (mm, adjustment)	Sensing (mode)	Output & Switching (type, mode)	IP Rating	Item Type	Catalogue No.	\$AU
800mm, Single-Turn Knob / Potentiometer	Diffuse	PNP, Light or Dark Operate Selectable	IP67	I	42JS-D2MPA1-F4	140.78

Bulletin 42JT VisiSight miniature



42JT-D2LAT1-P4

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
3 - 800mm, Teach Button	Diffuse	10 - 30V DC	NPN/PNP Auto-Detect, Light or Dark Operate Selectable	IP67, IP69K	M8 x 1, DC, Pico, 4-pin	I	42JT-D2LAT1-P4	163.80

Rectangular

Bulletin 42G / Series 9000 Heavy Duty

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
50 - 1,500mm, Single-Turn Knob / Potentiometer	Diffuse	10 - 30V DC	NPN & PNP, Light or Dark Operate Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42GRP-9000-QD	282.15
50 - 1,500mm, Single-Turn Knob / Potentiometer	Diffuse	70 - 264V AC / 70 - 264V DC	SPDT EM Relay, Light or Dark Operate Selectable	IP67, IP69K	Built-in cable with flying leads, PVC, 2m	I	42GRP-9002	292.48
50 - 1,500mm, Single-Turn Knob / Potentiometer	Diffuse		SPDT EM Relay, Light or Dark Operate Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42GRP-9002-QD	295.08
50 - 1,500mm, Single-Turn Knob / Potentiometer	Diffuse	20 - 40V AC / 10 - 55V DC	SPDT EM Relay, Light or Dark Operate Selectable	IP67, IP69K	Built-in cable with flying leads, PVC, 2m		42GRP-9001	297.63
50 - 3,040mm, Single-Turn Knob / Potentiometer	Diffuse	10 - 30V DC	NPN & PNP, Light or Dark Operate Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42GRP-9040-QD	308.00
50 - 1,500mm, Single-Turn Knob / Potentiometer	Diffuse	20 - 40V AC / 10 - 55V DC	SPDT EM Relay, Light or Dark Operate Selectable	IP67, IP69K	7/8" - 16UN, Mini, 5-Pin		42GTP-9001-QD	471.09



42GRP-9000-QD

Background Suppression Sensors

Background Suppression Photoelectric sensors are designed for applications requiring the sensor to see a target very close to a reflective background. Like diffuse sensors, they do not require a reflector.

Compact Rectangular

Bulletin 42EF RightSight right angle mount

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
3 - 100mm, N / A	Diffuse - Background Suppression	10.8 - 30V DC	PNP, Light & Dark Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42EF-B1MPBE-F4	247.88
3 - 100mm, N / A	Diffuse - Background Suppression	10.8 - 30V DC	NPN & PNP, Light Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42EF-B1JBBE-F4	247.88
3 - 50mm, N / A	Diffuse - Background Suppression	10.8 - 30V DC	PNP, Light & Dark Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42EF-B1MPBC-F4	247.88



42EF-B1MPBC-F4

Bulletin 42JT VisiSight miniature

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
3 - 400mm, Teach Button	Diffuse - Background Suppression	10 - 30V DC	NPN/PNP Auto-Detect, Light or Dark Operate Selectable	IP67, IP69K	M8 x 1, DC, Pico, 4-pin	I	42JT-B2LAT2-P4	256.32



42JT-B2LAT2-P4

Laser Sensors

Laser sensors are used in applications requiring a long sensing range or precision sensing. Bulletin 42JT Digital Laser sensors with Diffuse or Transmitted Beam sensing mode are IO-link enabled.

18mm Cylindrical

Bulletin 42CM 18mm metal cylindrical

Sensing Distance (mm, adjustment)	Sensing (mode)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
50mm, No	Through-Beam Receiver	PNP, Light & Dark Operate	IP67	M12 x 1, DC Micro, 4-pin	I	42CM-R8MPB-D4	205.00
30mm, Teach Button	Polarised Retro-reflective	PNP, Light & Dark Operate	IP67	M12 x 1, DC Micro, 4-pin	I	42CM-P8MPB-D4	430.43



42CM-R8MPB-D4

Rectangular

Bulletin 42G / Series 9000 Heavy Duty



42GRU-92L0

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
300 - 40,000mm, Single-Turn Knob / Potentiometer	Polarised Retro-reflective	10 - 30V DC	NPN & PNP, Light or Dark Operate Selectable	IP67, IP69K	Built-in cable with flying leads, PVC, 2m		42GRU-92L0	692.08
300 - 40,000mm, Single-Turn Knob / Potentiometer	Polarised Retro-reflective	10 - 30V DC	NPN & PNP, Light or Dark Operate Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42GRU-92L0-QD	692.08

Analogue Laser Sensors

Analogue laser sensors are used in distance measurement applications and generate a proportional current or voltage output based on the distance of the sensor from the target object. Bulletin 45LMS sensors are IO-link enabled. The operating voltage for the different sensor Bulletins are as follows:

Bulletin 45LMS: 10-30V DC

Rectangular

Bulletin 45LMS long range analogue output



45LMS-U8LGC3-D4

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
200 - 50,000mm, Teach Button	Retroreflective - Measurement	10 - 30V DC	1 x PNP + Analogue 4-20mA, N/O or N/C + Range	IP65	M12 x 1, DC Micro, 4-pin	I	45LMS-U8LGC3-D4	940.50
200 - 15,000mm, Teach Button	Diffuse - Measurement	10 - 30V DC	1 x PNP + Analogue 4-20mA, N/O or N/C + Range	IP65	M12 x 1, DC Micro, 4-pin	I	45LMS-D8LGC2-D4	1,453.14

Colour Detection Sensors

The Allen-Bradley range of colour photoelectric sensors covers everything from RGB colour recognition sensors designed for industrial use to sensors to detect registration marks and a wide range of background colours.

Rectangular

Bulletin 45CLR ColorSight



45CLR-5JPC1-D8

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
12 - 32mm, Teach Button	Colour Detection	18 - 28V DC	3 x PNP, Colour Operate	IP67	M12 x 1, DC Micro, 8-pin	I	45CLR-5JPC1-D8	1,481.17

Clear Object Detection Sensors

Clear object detection sensors provide reliable detection of clear materials such as glass bottles and plastic film which are difficult to detect with a standard photoelectric sensor.

Compact Rectangular

Bulletin 42EF RightSight right angle mount



42EF-C2KBA-F4

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
25 - 1,000mm, Single-Turn Knob / Potentiometer	Clear Object Detection	10.8 - 30V DC	NPN & PNP, Dark Operate	IP67, IP69K	M12 x 1, DC Micro, 4-pin		42EF-C2KBA-F4	287.50

Sensor Accessories

Mounting Brackets

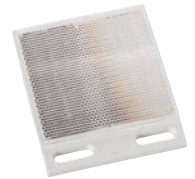
Item Description	Item Type	Catalogue No.	\$AU
Swivel/Tilt Mounting Bracket, to suit Bulletin 42EF sensors		60-2649	23.48
Right Angle Mounting Bracket, to suit Bulletin 42EF / 42CA Sensors	I	60-2657	20.14
Right Angle Mounting Bracket to suit 42JS/42JT Photoelectric sensors	I	60-BJS-L1	19.58
Right Angle Mounting Bracket, to suit Bulletin 42GR / Series 9000 sensors		60-2421	20.35
Swivel/Tilt Mounting Bracket, to suit Bulletin 42GR / Series 9000 sensors		60-2439	28.71



60-2421

Reflectors

Item Description	Item Type	Catalogue No.	\$AU
Reflector, Corner Cube, 51 x 51 mm, with mounting tabs		92-109	28.53
Reflector, Corner Cube, 32 mm diameter	I	92-47	17.11
Reflector, Corner Cube, 86 mm diameter		92-90	22.85
Corner cube reflector, 18.5 x 120mm	I	92-107	27.67
Corner cube reflector, 23.5 x 55mm	I	92-112	27.67
Reflector, Corner Cube, 40.5 x 60mm	I	92-113	31.36
Reflector 34mm to suit LaserSight	I	92-116	31.36
Reflector, Micro Cube, 51 x 61 mm		92-118	57.05
Reflector, Corner Cube, 100 x 100 mm		92-108	76.58
Reflective Tape Roll, 25 x 2540 mm	I	92-99	82.86
92-104 Reflective Sheet with Adhesive Backing	I	92-104	148.53
Refector, Corner Cube, Centre Mount, 76 mm		92-39	22.85



92-109

Connection Cables

Type	Connection	Orientation	IP Rating	Cable Length(m)	Catalogue No.
Cordset (1 Connector, 1 Set of Flying Leads)	AC Micro, 4-Pin	Straight Through	IP67, IP69K	5	889R-F4AEA-5
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 4-Pin	Straight Through	IP69K	2	889D-F4AC-2
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 4-Pin	Right Angle	IP69K	5	889D-R4AC-5
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 4-Pin	Right Angle	IP69K	5	889D-P4AC-5
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 4-Pin	Straight Through	IP69K	15	889D-F4AC-15
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 4-Pin	Straight Through	IP69K	10	889D-F4EC-10
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 5-Pin	Straight Through	IP69K	2	889D-F5AC-2
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 5-Pin	Straight Through	IP69K	5	889D-F5AC-5
Cordset (1 Connector, 1 Set of Flying Leads)	M8 Pico, 4-Pin	Straight Through	IP67	5	889P-F4AB-5
Patchcord (Connector at each end)	M12 x 1, DC Micro, 4-pin	Female Con (Straight Through), Male Con (Right Angle)	IP69K	2	889D-F4ACDE-2
Patchcord (Connector at each end)	M12 x 1, DC Micro, 4-pin	Female Con (Straight Through), Male Con (Straight Through)	IP69K	2	889D-F4ACDM-2
Patchcord (Connector at each end)	M12 x 1, DC Micro, 4-pin	Female Con (Straight Through), Male Con (Straight Through)	IP69K	10	889D-F4ACDM-10
Patchcord (Connector at each end)	M12 x 1, DC Micro, 8-Pin	Female Con (Straight Through), Male Con (Straight Through)	IP69K, IP67	2	889D-F8ABDM-2

889RF4AEA5_dCHRT_S01

Allen-Bradley Odos 3D Sensors

The new Swift-E is a fully reconfigurable 3D sensor that enables machine builders and production plants to adapt to new market trends. The capability to adapt to changing products or conditions makes Swift-E an ideal solution for production lines that require high flexibility.

Item Description	Item Type	Catalogue No.	\$AU
Swift-E 3D Sensor Ethernet/IP 12V DC	I	OI-E1480	7,260.00
Swift-G 3D Time of Flight Camera 12V DC	I	OI-G1480	7,260.00



OI-E1480

Photoelectric Sensors

Carlo Gavazzi Photoelectric sensors

Diffuse	Page 408
Retroreflective	Page 409
Background Suppression	Page 410
Polarised Retroreflective	Page 410
Transmitted Beam	Page 411
Photoelectric Sensor Accessories	Page 411

6



- Comprehensive range of photoelectric sensing technologies available which include retroreflective, through-beam, diffuse, background suppression, clear object detection, colour detection and fibre-optics
- Extensive range of housing styles and mounting options
- Specialised versions with IP67 rating available for high-pressure washdown applications in the food and beverage industry
- Wide variety of operating voltages and output types available
- Sensitivity adjustment functionality

Photoelectric sensors use a beam of light to detect the presence or absence of an object. This technology is used for applications where long sensing distances are required and proximity sensors do not provide an effective solution. Carlo Gavazzi offers a large range of photoelectric sensors which are used extensively on packaging machinery, automatic door systems, factory automation, and in car washes.

All Carlo Gavazzi sensors are supplied as complete kits which includes the 5m connection cable for the plug versions.

Diffuse

These sensors are used for applications where a standalone photoelectric sensor is required. The target detection is dependent on the material properties such as its surface, size, colour and reflectivity of the object as well as the background.

- Specialised versions available with long sensing range of 2m
- The sensors feature two outputs normally open (NO) and normally closed (NC) in a single sensor
- Short-circuit, reverse polarity and overload protected
- Specialised versions available with a built-in timer
- The sensors are available with 2m cable, quick disconnect 4-pin M12 connector or a terminal connection

Series PA18 - Diffuse

18mm cylindrical sensors

Metal Housing PA18 Diffuse



PA18ALD04TOSA

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
400mm, Single-Turn Knob / Potentiometer	Diffuse	20 - 250V AC /	SCR, N/O	IP67	Built-in cable with flying leads, PVC, 2m		PA18ALD04TOSA	365.00

Plastic Housing PA18 Diffuse



PA18CAD10PAM1SA

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
1,000mm, Single-Turn Knob / Potentiometer	Diffuse	10 - 30V DC	PNP, N/O or N/C Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	PA18CAD10PAM1SA	211.00

Series PC50 - Diffuse

Rectangular sensors



PC50CND10RP

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
1,000mm, Single-Turn Knob / Potentiometer	Diffuse	24 - 240V AC / 12 - 240V DC	Relay, N/O or N/C Selectable	IP67	Built-in cable with flying leads, PVC, 2m	I	PC50CND10RP	272.00
2,000mm, Single-Turn Knob / Potentiometer	Diffuse	10 - 30V DC	NPN/PNP Selectable, N/O or N/C Selectable	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	PC50CND20BAM1	349.00

Series PM - Diffuse

Rectangular sensors with maximum sensing range of 800mm

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
800mm, Single-Turn Knob / Potentiometer	Diffuse	24 - 240V AC / 12 - 240V DC	NPN/PNP Selectable, N/O and N/C	IP67	Screw Terminal(s)		PMD8RI	327.00
800mm, Single-Turn Knob / Potentiometer	Diffuse	24 - 240V AC / 12 - 240V DC	NPN/PNP Selectable, N/O and N/C	IP67	Screw Terminal(s)		PMD8RIT	369.00



PMD8RI

Retroreflective

Retroreflective sensors are used for applications where a standalone sensor is required however there is provision for using a reflector as part of the sensor system. These sensors provide increased detection reliability compared to diffuse sensors and are only affected by targets with high-transparency and high-reflectivity. There are specialised sensors available for these applications - clear object detection versions and polarised retroreflective sensors.

- Upto 10m sensing range
- Sensitivity adjustable versions available
- AC or DC supply voltage versions
- IP69k versions available

Series PA18 - Retroreflective

18mm cylindrical sensors

Plastic Housing PA18 Retroreflective

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
6,500mm, Single-Turn Knob / Potentiometer	Retroreflective	10 - 30V DC	PNP, N/O or N/C Selectable	IP67, IP69K	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	PA18CAR65PAM1SA	213.00



PA18CAR65PAM1SA

Series PC50 - Retroreflective

Rectangular sensors

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
10,000mm, Single-Turn Knob / Potentiometer	Retroreflective	24 - 240V AC / 12 - 240V DC	Relay, N/O or N/C Selectable	IP67	Built-in cable with flying leads, PVC, 2m		PC50CNR10RP	272.00
10,000mm, Single-Turn Knob / Potentiometer	Retroreflective	10 - 30V DC	NPN/PNP Selectable, N/O or N/C Selectable	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	PC50CNR10BAM1	385.00



PC50CNR10RP

Series PM - Retroreflective

Rectangular sensors with maximum sensing range of 10m

Note: "T" at end of part number indicates unit with Timer

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
10,000mm, N / A	Retroreflective	24 - 240V AC / 12 - 240V DC	Relay, N/O or N/C Selectable	IP67	Screw Terminal(s)	K	PMR10RI	394.00
10,000mm, N / A	Retroreflective	24 - 240V AC / 12 - 240V DC	Relay, N/O or N/C Selectable	IP67	Screw Terminal(s)	K	PMR10RIT	431.00



PMR10RI

Background Suppression

These sensors are used for applications where a standalone photoelectric sensor is required and where standard diffuse sensors are not suitable. Background suppression sensors avoid false signals caused by shiny backgrounds by suppressing all light reflected from behind the target object. It is the angle of reflected light that is sensed and not only the intensity that makes it possible to distinguish between an object and a background.

- Long range version with 2.5m sensing
- 10- 30 V DC supply voltage
- Adjustable sensing
- Built-in time delay versions

Series PD30

Miniature sensors in a rectangular housing



PD30CNB15PPM5RT

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
150mm, Programming Unit	Diffuse - Background Suppression	10 - 30V DC	PNP, N/O or N/C Selectable	IP67	M8 x 1, DC, Pico, 4-pin, PVC, 5m	K	PD30CNB15PPM5RT	353.00

Polarised Retroreflective

Polarised Retroreflective sensors are used in applications where high accuracy detection is required for highly reflective objects or against highly reflective backgrounds. Carlo Gavazzi has a wide range of Polarised Retroreflective sensors with different housing styles, output modes and sensing distance.

- Upto 6m sensing distance
- Different housing styles and materials available
- Versions with sensitivity adjustment
- AC or DC voltage versions

Series PC50 - Polarised Retroreflective

Rectangular sensors



PC50CNP06RP

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
6,000mm, Single-Turn Knob / Potentiometer	Polarised Retro-reflective	24 - 240V AC / 12 - 240V DC	Relay, N/O or N/C Selectable	IP67	Built-in cable with flying leads, PVC, 2m		PC50CNP06RP	306.00

Series PD30 - Polarised Retroreflective

Miniature sensors in a rectangular housing



PD30CNP06PPRT

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
6,000mm, Yes	Polarised Retro-reflective	10 - 30V DC	PNP, N/O or N/C Selectable	IP67	Built-in cable with flying leads, PVC, 2m	I	PD30CNP06PPRT	236.00

Series PM - Polarised Retroreflective

The PMT is part of a family of Retroreflective photoelectric switches with polarised light in 25 x 65 x 81 mm polycarbonate housing with screw terminal connection at sensing range of 6 m, available with or without built-in timer.



PMP12RGM

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
12,000mm, N / A	Polarised Retro-reflective	24V AC 24V DC	Relay, N/O or N/C Selectable	IP67	Screw Terminal(s)	I	PMP12RGM	575.00

Transmitted Beam

Transmitted or Through beam sensors are used in applications with longer sensing range and high accuracy requirements. Carlo Gavazzi has a wide range of Transmitted beam sensors with different housing styles, output modes and sensing distances. All Carlo Gavazzi Transmitted Beam sensors are supplied as kits with the transmitter and receiver units under a single part number; the plug versions are supplied with 2 x 5m connection cables to suit the sensors.

- Sensing range of up to 20m
- Adjustable sensitivity versions available
- Multi-voltage (20 - 250V AC / DC) versions
- IP69k rated versions

Series PC50 - Transmitted Beam

Rectangular sensor with maximum sensing distance of 20m

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
20,000mm, Single-Turn Knob / Potentiometer	Through-Beam Emitter & Receiver Pair	24 - 240V AC / 12 - 240V DC	Relay, Light or Dark Operate Selectable	IP67	Built-in cable with flying leads, PVC, 2m	K	PC50CNT20KIT	460.00



PC50CNT20KIT

Series PD30 - Transmitted Beam

Miniature sensors in rectangular housing with maximum sensing distance of 15m

Sensing Distance (mm, adjustment)	Sensing (mode)	Un (V AC / V DC)	Output & Switching (type, mode)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
15,000mm, Single-Turn Knob / Potentiometer	Through-Beam Emitter & Receiver Pair	10 - 30V DC	PNP, N/O or N/C Selectable	IP67	M8 x 1, DC, Pico, 4-pin, PVC, 5m	K	PD30CNT15PKIT	372.00



PD30CNT15PKIT

Photoelectric Sensor Accessories

A complete range of accessories to compliment the Carlo Gavazzi range of Photoelectric sensors.

Reflectors

Series ER Reflectors

Item Description	Item Type	Catalogue No.	\$AU
ER Series, Reflector, for retro-reflective photoelectric sensor Ø 84 x 7.4mm PMMA/ABS, 1 M4 screw mounting		ER4	22.00
ER Series, Reflector, 100 x 100 x 9.2mm PMMA/ABS, 2 M3 screw mounting		ER100	60.00



ER4

Proximity Sensors

Allen-Bradley Proximity Sensors

Inductive Proximity Sensors	Page 412
Analogue Ultrasonic Proximity Sensors	Page 414
Sensor Accessories	Page 415



- Inductive sensors provide reliable detection of metal objects
- Ultrasonic sensors provide long distance sensing in applications unsuitable for a photoelectric sensor
- Capacitive sensors provide optimum flexibility in level sensing applications
- Available in a wide range of housings to suit everything from light-duty applications through to harsher washdown or welding applications

Allen-Bradley has a wide range of proximity sensors for non-contact presence sensing. Sensors are available with different sensing technologies including inductive, capacitive and ultrasonic to suit different applications.

Product Selection

The complete range of suitable cables is listed in section 'Termination and Wiring Systems' under Pre-Wired Cables and Connections Systems. The typical cables that are used with Allen-Bradley Proximity sensors are as follows:

- 889DF4ACx: 4-pin straight DC Micro (M12)
- 889DF5ACx: 5-pin straight DC Micro (M12)
- 889PF4ACx: 4-pin straight DC Pico (M8)
- 889RF3ECA2x: 3-pin straight AC Micro
- 889NF3AFCz: 3-pin straight Mini/Mini plus

*x is substituted for the length of the required cable in meters eg. 2,5,10,15,20

*z is substituted for the length of the required cable in feet eg. 6F,12F,20F

Inductive Proximity Sensors

Inductive Proximity Sensors detect metal objects without touching them. This technology is used in applications where the metal object to be detected is within an inch or two of the sensor face.

Allen-Bradley proximity sensor are available with a range of different connection options. Bulletin 871TM – All Stainless Steel has IO-link enabled versions in the 12mm and 18mm cylindrical housing. These are:

- 871TM-M6NP12-D4
- 871TM-N10NP12-D4
- 871TM-M10NP18-D4
- 871TM-N20NP18-D4.

8mm Cylindrical

Bulletin 872C Nickel-Plated Brass



872C-D2NP8-D4

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
2mm	36.8, Yes	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-D2NP8-D4	146.51

Struggling with limited reach or awkward cables from your devices?

NO CABLES, NO PROBLEMS!

See **Wireless Field Devices** in the **FIELD SWITCHING AND SENSING** Section

12mm Cylindrical

Bulletin 871TM All Stainless Steel

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
2mm	61, Yes	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin	I	871TM-DH2NP12-D4	185.93
4mm	61, No	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin		871TM-DH4NP12-D4	185.93
4mm	61, No	NPN/PNP Selectable, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin	I	871TM-DH4NE12-D4	199.82
10mm	60, No	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin		871TM-N10NP12-D4	229.42
6mm	60, Yes	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin	I	871TM-M6NP12-D4	236.29



871TM-DH2NP12-D4

Bulletin 872C Nickel-Plated Brass

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
3mm	64.3, Yes	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-D3NP12-D4	115.24
4mm	72.4, No	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-D4NP12-D4	115.24
3mm	48.3, Yes	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin	I	872C-DH3NP12-D4	115.24
4mm	56.4, No	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin	I	872C-DH4NP12-D4	115.24
8mm	72.4, No	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-N8NP12-D4	127.22
2mm	75, Yes	N/O	20 - 250V AC / -	IP67	1/2" - 20UN, AC Micro, 3pin	I	872C-A2N12-R3	169.95



872C-D4NP12-D4

18mm Cylindrical

Bulletin 871TM All Stainless Steel

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
5mm	65, Yes	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin		871TM-DH5NP18-D4	196.34
8mm	65, No	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin		871TM-DH8NP18-D4	196.34
8mm	65, No	N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin	I	871TM-DH8NE18-D4	206.77
8mm	56.1, No	N/O	20 - 250V AC / 20 - 250V DC	IP67	7/8" - 16UN, Mini, 3-Pin		871TM-BH8N18-N3	243.49
8mm	65, No	N/O	20 - 250V AC / 20 - 250V DC	IP67	1/2" - 20UN, AC Micro, 3pin	I	871TM-BH8N18-R3	243.49
10mm	63.5, Yes	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin		871TM-M10NP18-D4	256.37
20mm	63.5, No	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin		871TM-N20NP18-D4	256.37



871TM-DH8NP18-D4

Bulletin 872C Nickel-Plated Brass

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
5mm	64.3, Yes	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-D5NP18-D4	128.79
8mm	76.5, No	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-D8NP18-D4	128.79
8mm	61.7, No	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-DH8NP18-D4	128.79
8mm	76.5, No	N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-D8NE18-D4	139.18
8mm	64.3, Yes	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-M8NP18-D4	140.77
12mm	76.5, No	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-N12NP18-D4	140.77
10mm	80, No	N/O	20 - 250V AC / -	IP67	1/2" - 20UN, AC Micro, 3pin	I	872C-A10N18-R3	179.27



872C-D5NP18-D4

30mm Cylindrical

Bulletin 871TM All Stainless Steel



871TM-DH10NP30-D4

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
10mm	66.3, Yes	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin		871TM-DH10NP30-D4	211.96
15mm	66.3, No	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin		871TM-DH15NP30-D4	211.96
15mm	66.3, No	N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin		871TM-DH15NE30-D4	213.70
10mm	66.3, Yes	N/O	20 - 250V AC / 20 - 250V DC	IP67, IP69K	1/2" - 20UN, AC Micro, 3pin		871TM-BH10N30-R3	258.62
20mm	66.3, Yes	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin	I	871TM-M20NP30-D4	288.14
40mm	66.3, No	PNP, N/O	- / 10 - 30V DC	IP67, IP69K	M12 x 1, DC Micro, 4-pin		871TM-N40NP30-D4	296.78
10mm	85.7, Yes	N/O	20 - 250V AC / 20 - 250V DC	IP67, IP69K	1/2" - 20UN, AC Micro, 3pin		871TM-B10N30-R3	309.58

Bulletin 872C Nickel-Plated Brass

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
10mm	64.3, Yes	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin		872C-D10NP30-D4	138.96

Rectangular

Suitable for applications that require long sensing distances.

Bulletin 871P Plastic, 40mm, Cube



871P-D20BP40-D4

Sensing Distance (mm)	Shielded	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
20mm	Yes	PNP, N/O and N/C	- / 10 - 30V DC	IP67, IP68, IP69K	M12 x 1, DC Micro, 4-pin		871P-D20BP40-D4	110.61
40mm	No	PNP, N/O and N/C	- / 10 - 30V DC	IP67, IP68, IP69K	M12 x 1, DC Micro, 4-pin		871P-D40BP40-D4	110.61

Limit Switch Style

Non-contact alternate to the limit switches with similar housing style.

Bulletin 871L Plastic, 40mm



871L-D20EP40-T3

Sensing Distance (mm)	Shielded	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
20mm	Yes	PNP, N/O or N/C Selectable	- / 10 - 40V DC	IP67	Screw Terminal(s), 1/2" - 14NPT		871L-D20EP40-T3	284.78
20mm	Yes	N/O or N/C Selectable	20 - 250V AC / 20 - 250V DC	IP65	Screw Terminal(s), 1/2" - 14NPT		871L-B20E40-T2	335.94
40mm	No	N/O or N/C Selectable	20 - 250V AC / 20 - 250V DC	IP65	Screw Terminal(s), 1/2" - 14NPT		871L-B40E40-T2	398.18

Analogue Ultrasonic Proximity Sensors

Ultrasonic Sensors are self-contained solid-state devices designed for non-contact sensing of solid and liquid objects. These sensors provide an ideal solution for level detection applications by generating a proportional voltage or current output.

18mm Cylindrical

Bulletin 873P Plastic, Current Output

Sensing Distance (mm)	Adjustment (sensitivity)	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
70 - 800mm	Yes	4 - 20 mA,	- / 12 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin	I	873M-D18AI800-D4	441.03

30mm Cylindrical

Bulletin 873P Plastic, Current Output

Sensing Distance (mm)	Adjustment (sensitivity)	Output (type)	Un (V AC / V DC)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
250 - 3,500mm	Yes	2 x PNP + Analogue 4-20mA, N/O or N/C Selectable	- / 12 - 30V DC	IP67	M12 x 1, DC Micro, 5-pin	I	873P-D30AIP2-3500-D5	1,377.68

Sensor Accessories

Mounting brackets

18mm Cylindrical

Item Description	Item Type	Catalogue No.	\$AU
Right Angle Mounting Bracket, to suit 18mm Cylindrical Sensors	I	871A-BRS18	39.56
Right Angle Mounting Bracket, Zinc-Plated Steel, 18mm Diameter	I	871A-BRN18	26.33
Spring Return Mounting Bracket, Stainless Steel, 18mm Diameter, M30 X 1.5 External Thread Size	I	871A-BXS18	145.19



871A-BRN18

30mm Cylindrical

Item Description	Item Type	Catalogue No.	\$AU
Right Angle Mounting Bracket, to suit 30mm Cylindrical Sensors	I	871A-BRS30	41.00



871A-BRS30

Connection Cables

Type	Connection	Orientation	IP Rating	Cable Length(m)	Catalogue No.
Cordset (1 Connector, 1 Set of Flying Leads)	AC Micro, 4-Pin	Straight Through	IP67, IP69K	5	889R-F4AEA-5
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 4-Pin	Straight Through	IP69K	2	889D-F4AC-2
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 4-Pin	Right Angle	IP69K	5	889D-R4AC-5
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 4-Pin	Right Angle	IP69K	5	889D-P4AC-5
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 4-Pin	Straight Through	IP69K	15	889D-F4AC-15
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 4-Pin	Straight Through	IP69K	10	889D-F4EC-10
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 5-Pin	Straight Through	IP69K	2	889D-F5AC-2
Cordset (1 Connector, 1 Set of Flying Leads)	DC Micro, 5-Pin	Straight Through	IP69K	5	889D-F5AC-5
Cordset (1 Connector, 1 Set of Flying Leads)	M8 Picco, 4-Pin	Straight Through	IP67	5	889P-F4AB-5
Patchcord (Connector at each end)	M12 x 1, DC Micro, 4-pin	Female Con (Straight Through), Male Con (Right Angle)	IP69K	2	889D-F4ACDE-2
Patchcord (Connector at each end)	M12 x 1, DC Micro, 4-pin	Female Con (Straight Through), Male Con (Straight Through)	IP69K	2	889D-F4ACDM-2
Patchcord (Connector at each end)	M12 x 1, DC Micro, 4-pin	Female Con (Straight Through), Male Con (Straight Through)	IP69K	10	889D-F4ACDM-10
Patchcord (Connector at each end)	M12 x 1, DC Micro, 8-Pin	Female Con (Straight Through), Male Con (Straight Through)	IP69K, IP67	2	889D-F8ABDM-2

889RF4AEA5_dCHRT_S01

Proximity Sensors

Carlo Gavazzi Proximity Sensors

Carlo Gavazzi Discrete Inductive Proximity Sensors	Page 416
Carlo Gavazzi Capacitive Proximity Sensors	Page 419
Carlo Gavazzi Analogue Ultrasonic Proximity Sensors	Page 421
Carlo Gavazzi Magnetic Proximity Sensors	Page 421
Carlo Gavazzi Proximity Sensor Accessories	Page 421



- Wide range of operating voltages, current ratings and output types
- Extensive range of different housing styles and mounting options
- Specialised versions with IP69K rating available for high-pressure washdown applications for food and beverage industry
- Specialised loop detector sensors available which are utilised for vehicle detection in the control of boom-gates

Carlo Gavazzi offers a comprehensive range of proximity sensors employing different sensing techniques including inductive, capacitive, magnetic and ultrasonic. The sensors with a plug are supplied as complete kit which includes a 5m connection cable.

Carlo Gavazzi Discrete Inductive Proximity Sensors

Carlo Gavazzi offers a comprehensive range of Inductive Sensors - primarily used to detect metal parts and objects. These sensors are used extensively in packaging and plastics machines, assembly lines and conveyor systems.

- Cylindrical housing from 4 to 30mm
- Both digital (SCR, transistor) and analogue outputs.
- Standard and extended sensing distance
- Flat-pack housing Stainless steel and Polyester housing Flush / Non flush versions

Cylindrical 8mm Miniature - Inductive Sensors

Inductive sensors with 8mm cylindrical housing.

Stainless Steel



IA08BLN25POM1

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
3mm	70, No	PNP, N/O	- / 10 - 30V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	IA08BLN25POM1	272.00

Struggling with limited reach or awkward cables from your devices?

NO CABLES, NO PROBLEMS!

See **Wireless Field Devices** in the **FIELD SWITCHING AND SENSING** Section

Cylindrical 12mm - Inductive Sensor

Inductive Sensors with 12mm cylindrical housing.

EI Series Stainless Steel

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
2mm	54.5, Yes	PNP, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EI1202PPOSS1	274.00
4mm	78.5, Yes	PNP, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EI1204PPOSL1	274.00
4mm	58.5, Yes	PNP, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EI1204PPOSS1	274.00
4mm	78.5, No	SCR, N/O	20 - 250V AC / -	IP67	M12 x 1, AC, 3-pin, PVC, 5m	K	EI1204TBOSL6	347.00



EI1204PPOSS1

IA Series Nickel-Plated Brass

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
8mm	67.2, No	NPN/PNP Auto-Detect, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	IA12ASN08DOM1	290.00



IA12ASN08DOM1

ICB Series Nickel-Plated Brass

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
8mm	54.2, No	PNP, N/O	- / 10 - 36V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	ICB12S30N08POM1	160.00

Cylindrical 18mm - Inductive Sensors

Inductive sensors with 18mm cylindrical housing.

EI Series Plastic

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
8mm	83, No	PNP, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EI1808PPOPL1	281.00



EI1808PPOPL1

EI Series Stainless Steel

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
5mm	55, Yes	PNP, N/C	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EI1805PPCSS1	284.00
5mm	55, Yes	PNP, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EI1805PPOSS1	284.00
8mm	63, No	PNP, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EI1808PPOSS1	284.00
8mm	83, No	PNP, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EI1808PPOSL1	288.00
8mm	83, No	SCR, N/C	20 - 250V AC / -	IP67	M12 x 1, AC, 3-pin, PVC, 5m	K	EI1808TBOSL6	347.00
8mm	83, No	SCR, N/O	20 - 250V AC / -	IP67	M12 x 1, AC, 3-pin, PVC, 5m	K	EI1808TBOSL6	347.00
5mm	75, Yes	SCR, N/O	20 - 250V AC / -	IP67	M12 x 1, AC, 3-pin, PVC, 5m	K	EI1805TBOSL6	375.00



EI1805TBOSL6



IA18ASN14DOM1

IA Series Nickel-Plated Brass

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
5mm	55, Yes	PNP, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	IA18ASF05POM1	284.00
8mm	55, Yes	NPN/PNP Selectable, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	IA18ASF08DOM1	311.00
14mm	63, No	NPN/PNP Selectable, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	IA18ASN14DOM1	311.00



IA18ELN08UCM1

IA Series Stainless Steel

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
5mm	75, Yes	Namur, N/C	- / 6 - 35V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	IA18ELF05UCM1	284.00
8mm	83, No	Namur, N/C	- / 6 - 35V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	IA18ELN08UCM1	284.00

Cylindrical 30mm - Inductive Sensors

Inductive sensors with 30mm cylindrical housing.

EI Series Stainless Steel



EI3015TBOSL6

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
10mm	55.5, Yes	PNP, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EI3010PPOSS1	298.00
15mm	87.5, No	PNP, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EI3015PPOSL1	306.00
10mm	75.5, Yes	SCR, N/O	20 - 250V AC / -	IP67	M12 x 1, AC, 3-pin, PVC, 5m	K	EI3010TBOSL6	387.00
15mm	71, No	SCR, N/O	20 - 250V AC / -	IP67	M12 x 1, AC, 3-pin, PVC, 5m	K	EI3015TBOSL6	387.00



IA30ASF15DOM1

IA Series Nickel-Plated Brass

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
15mm	55, Yes	NPN/PNP Auto-Detect, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	IA30ASF15DOM1	339.00
22mm	67, No	NPN/PNP Auto-Detect, N/O	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	IA30ASN22DOM1	339.00



IA30ELF10UCM1

IA Series Stainless Steel

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
10mm	75.5, Yes	Namur, N/C	- / 6 - 35V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	IA30ELF10UCM1	298.00

Rectangular IC40 - Inductive Sensors

Inductive proximity switch in rugged polyester housing. Sensing face adjustable in up to 5 positions, 2-wire AC/DC for maximum efficiency.

2-Wire 20-250V AC



IC40CNN30TAT1

Sensing Distance (mm)	Shielded	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
30mm	No	Power MOSFET, N/O and N/C	20 - 250V AC / -	IP67	Spring Terminal(s), M20 x 1.5		IC40CNN30TAT1	375.00

2-Wire 20-250V AC/DC

Sensing Distance (mm)	Shielded	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
30mm	No	Power MOSFET, N/O	20 - 250V AC / 20 - 250V DC	IP67	Spring Terminal(s), M20 x 1.5		IC40CNN30COT1	417.00



IC40CNN30COT1

4-Wire 10-30V DC

Sensing Distance (mm)	Shielded	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
30mm	No	PNP, N/O and N/C	- / 10 - 30V DC	IP67	Spring Terminal(s), M20 x 1.5		IC40CNN30PAT1	375.00



IC40CNN30PAT1

Carlo Gavazzi Capacitive Proximity Sensors

Carlo Gavazzi's patented Tripleshield Capacitive Sensors have become the standard all other manufacturers are measured against. Capacitive sensors will detect most materials - conductive and non-conductive. This makes them ideal for level detection in raw plastic delivery systems and in agricultural applications.

- Featuring TRIPLESIELD™ sensor protection to withstand electrostatic discharges up to 40KV, line transients up to 4KV, and airborne noise (ie. cellular phones) up to 15V/m.
- Various sizes including 12mm, 18mm, and 30mm diameters
- Plastic and metal housings alternatives AC and DC outputs
- Either a built-in cable or a connector

18mm Cylindrical - Capacitive Sensor

Capacitive Sensors with M18 plastic housing.

CA Series Plastic

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
3 - 8mm	83.5, Yes	SCR, N/C	20 - 250V AC / -	IP67	M12 x 1, AC, 3-pin, PVC, 5m	K	CA18CLF08TCM6	445.00



CA18CLF08TCM6

CA Series Glass Reinforced Plastic

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
3 - 8mm	, Yes	N/O and N/C	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	CA18CAF08PAM1	353.00

30mm Cylindrical - Capacitive Sensor

Capacitive sensors with 30mm body, available in plastic or metal housing and PNP/SCR/NPN output.

EC Series Plastic

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
2 - 16mm	63.6, Yes	SCR, N/O or N/C Selectable	20 - 250V AC / -	IP67	M12 x 1, AC, 3-pin, PVC, 2m	K	EC3016TBAPL6	529.00



EC3016TBAPL6



EC3025TBASL6

EC Series Stainless Steel

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
4 - 25mm	75.6, No	PNP, N/O and N/C	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EC3025PPASL1	423.00
2 - 16mm	63.6, Yes	PNP, N/O and N/C	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EC3016PPASL1	439.00
4 - 25mm	75.6, No	SCR, N/O or N/C Selectable	20 - 250V AC / -	IP67	M12 x 1, AC, 3-pin, PVC, 5m	K	EC3025TBASL6	529.00

VR Series



VR2B

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
15mm	120.3, No	via External Amplifier,	- / 20 - 30V DC	IP67	Built-in cable with flying leads, PVC, 2m	I	VR2B	439.00

32mm Cylindrical - Capacitive Sensor

Capacitive sensors with 32mm cylindrical body with smooth plastic housing with built-in timer version, available as stand-alone version or used with an amplifier.

VC Series



VC12RT23010M

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
4 - 12mm	101, No	Relay, Configurable OFF Delay	230V AC - / -	IP67	Built-in cable with flying leads, PVC, 2m		VC12RT23010M	311.00
4 - 12mm	101, No	Relay, N/O	230V AC - / -	IP67	Built-in cable with flying leads, PVC, 2m		VC12RN230	515.00

VR Series



VR1B

Sensing Distance (mm)	Length, Shielded (mm, Y / N)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
15mm	102, No	via External Amplifier, N/O	- / 20 - 30V DC	IP67	Built-in cable with flying leads, PVC, 5m	I	VR1B	382.00

Rectangular Housing - Capacitive Sensors

Capacitive proximity level switch with a sensing distance of 10mm non-flush mounted. The switching points can be altered by means of the teach-in function. Designed for front, pipe or plane mounting.

Series EC55 Rectangular Capacitive Sensors



EC5525NPAP1

Sensing Distance (mm)	Shielded	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
4 - 25mm	Yes	NPN, N/O and N/C	- / 10 - 40V DC	IP67	M12 x 1, DC Micro, 4-pin, PVC, 5m	K	EC5525NPAP1	417.00

Carlo Gavazzi Analogue Ultrasonic Proximity Sensors

Carlo Gavazzi's Series Ultrasonic Sensors are designed for both distance measurement and object detection in tough environments. Ideally suited for detecting objects, such as transparent objects, that cannot be reliably detected by other sensors.

- Well suited for detecting objects that cannot be reliably detected by other sensors such as transparent objects
- Versions with 2 separate PNP or NPN outputs
- Analogue output versions
- M18 and M30 housings Sensing distance up to 8000mm
- Discrete output types are available for presence and absence detection
- Analogue output types are available for applications requiring a measurement of the target object, such as detecting the level of fluid in a tank
- Teach functions on advanced models to configure set-points

30mm Cylindrical - Ultrasonic Sensor

UA-Series Plastic, Voltage Output

Sensing Distance (mm)	Adjustment (sensitivity)	Output (type)	Un (V AC / V DC)	IP Rating	Connection & Cable	Item Type	Catalogue No.	\$AU
250 - 3,500mm	Teach Button	1 x PNP + Analogue 0-10V DC, N/O or N/C + Range	- / 15 - 30V DC	IP67	Built-in cable with flying leads, PVC, 2m	I	UA30CAD35PKTI	1,379.00



UA30CAD35PKTI

6

Carlo Gavazzi Magnetic Proximity Sensors

Carlo Gavazzi offers a comprehensive range of magnetic sensors for use in proximity detection applications. As their name suggests, they are used in conjunction with an external magnet. When the sensor approaches the magnet, the output from the sensor will change state.

- Wide range of housing shapes and materials Hall effect sensors
- Wide variety of styles available including rectangular, cylindrical, and slotted.
- Coded magnets and sensors available for use in safety applications Ideal for use on elevators and lifts, gate control, level detection, and access control.

Rectangular Housing - Magnetic Sensors

S-Series Plastic 79x21.0x11.5mm

Item Description	Item Type	Catalogue No.	\$AU
S Series Magnetic Sensor, rectangular plastic housing, N/O, IP67 rating, 0.5m pre-wired cable	I	SA2MAGNETIC	125.00



SA2MAGNETIC

Carlo Gavazzi Proximity Sensor Accessories

Complete range of accessories to complement the Proximity Sensors.

Mounting Brackets

Item Description	Item Type	Catalogue No.	\$AU
Mounting Bracket, steel galvanized, angled, for 12mm sensors	I	AMB12-A	21.00
Mounting Bracket, steel galvanized, angled, for 18mm sensors	I	AMB18-A	21.00
Mounting Bracket, steel galvanized, angled, for 30mm sensors	I	AMB30-A	41.00



AMB18-A

SM155 Series Speed Monitoring Relay

Speed monitoring relays typically monitor the speed of a motor and operate a changeover output contact based on when the motor spins above or below the set threshold. The SM155 series monitors the actual RPM of a motor by means of a Namur/DIN 19234 sensor or metallic contact input. Each unit comes with a knob adjustable set level and C/O output and the function of the unit (under/over RPM threshold) can be inverted by shorting two of the pins.

30 to 300 RPM

Item Description	Item Type	Catalogue No.	\$AU
SM155 Series, over or under speed, 230V AC, C/O, 11-pin Plug, 30 - 300 RPM	I	SM155230300	561.00



SM155230300

200 to 2,000 RPM

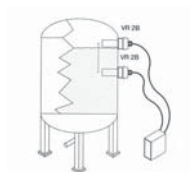


SM1552302K

Item Description	Item Type	Catalogue No.	\$AU
SM155 Series, over or under speed, 230V AC, C/O, 11-pin Plug, 200 - 2000 RPM	I	SM1552302K	570.00

SV Level Control Amplifiers

For VR/VRY Sensors



SV250230

Item Description	Item Type	Catalogue No.	\$AU
SV Series Proximity Level Control Relay, 230 V AC power supply, 8A SPDT output relay, discharging function, IP20 B rating, with vibration retaining spring clip and timer 11 pin plug in base included	K	SV250230	382.00

Magnetic Actuators



CL4

Item Description	Item Type	Catalogue No.	\$AU
CL Series, Actuating Magnetic Unit for MS/M/MC/MQ Magnetic Proximity Sensor, plastic rectangular housing		CL4	120.00

Motion Sensors

Carlo Gavazzi Motion Sensors

- Microprocessor technology allows the sensor to filter out interference from weather conditions, cell phones, radios and heaters
- Specialised version (IRS Series) capable of discriminating between people and vehicles as well as direction of movement
- Relay output
- AC and DC supply voltage

Sensors used to for detection of moving vehicles or people for applications such as control of automatic or sliding doors, using Radar detection and Image Processing technologies



Carlo Gavazzi Motion Sensors

Item Description	Item Type	Catalogue No.	\$AU
IRS Series,Radar Sensor, People and Vehicle Detection,12-24 V AC/DC supply, 2 C/O outputs, IP65	I	IRS01	965.00
GUARDIAN2 Series, Motion and Presence Detector, 12 to 24 V AC/DC power supply, separate motion and presence output with LED indication, IP64 rating	I	GUARDIAN2	1,005.00



GUARDIAN2

Limit Switches

Allen-Bradley Limit Switches

440P IEC-Style Safety Limit Switches	Page 425
Bulletin 802T General Purpose Limit Switches	Page 426
Operating levers	Page 427



- Factory sealed versions for demanding industrial environments
- Complete range of IEC style solutions for both safety and standard sensing applications
- Wide range of operating voltages and current ratings
- Extensive range of different housing styles and mounting options
- Wide variety of operating heads and levers

Limit Switches are electro-mechanical devices that consist of an actuator mechanically linked to a set of contacts. When an object comes into contact with the actuator, the device operates the contacts to make or break an electrical connection. These devices work in a variety of applications and environments because of their ruggedness, simple visible operation, easy installation and reliable operation.

Rockwell Automation offers one of the most durable lines of limit switches in the industry. Allen-Bradley limit switches are used in a variety of applications and environments because of their ruggedness, simple, visible operation, ease of installation and reliability.

Limit Switch Selection Guide

1 Select the Housing Type



30 mm Metal



22 mm Plastic



22 mm Metal
with flying lead



15 mm Plastic

2 Choose the actuator that best suits your application

Note: Adjustable actuators cannot be used in Safety applications.



Short
Roller Lever



Adjustable
Roller Lever



Dome Plunger



Roller Plunger



Panel Mount
Roller Plunger



Rod Lever



Spring Rod



Telescopic Arm



Hinge Lever



Offset Hinge



Cross Roller
Plunger

3 Determine Contacts and Contact Type

Contacts: Determine the number of N/O / N/C contacts required for the limit switch depending on how many electrical loads are switched.

Contact Type: Select between snap or slow action.

☐ Open ☒ Closed

Snap Action:

Output ☐ Actuator ☒

Contacts change instantaneously at point of actuation.

Slow Action:

Output ☒ Actuator ☐

Contacts make or break at separate points of actuation.

G1101D_dSELN-501

440P IEC-Style Safety Limit Switches

The 440P limit switch family offers a full range of international-style solutions for both safety and standard sensing applications. Available in four different body styles – 30 mm metal, 22 mm metal and plastic, and 15mm plastic – with a broad selection of operator types, circuit arrangements and connection options, the 440P is ideal for a wide variety of applications.

Cordset options (M12 to flying lead)

Quick Disconnect options also available

- 4-pin DC micro (M12) QD (quick Disconnect) cordset 889D-F4AC*
(Replace * with cable length 2,5,10)
- 6-pin AC micro (M12) QD (quick Disconnect) cordset 889D-F6ECA*
(Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 4-pin micro (M12) QD (Quick Disconnect) patchcord 889D-F4ACDM*
- 6-pin micro (M12) QD (Quick Disconnect) patchcord 889D-F6ECRM*
(Replace * with cable length 1,2,3,5,10)

15mm Plastic Limit Switches

Contacts (configuration)	Housing (material)	IP Rating	Connection (type)	H x W x D (mm)	Operator (type)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Slow Action	Glass-Filled PBT / Valox	IP30	3 x [6 x 6mm] square knockouts	54 x 25 x 23.3	Top push roller plunger		440P-M18001	91.13
1 NO + 1 NC EB 1st Contact, Slow Action	Glass-Filled PBT / Valox	IP30	3 x [6 x 6mm] square knockouts	54 x 25 x 23.3	Top push cross roller plunger	I	440P-M18002	91.13



440P-M18001

22mm Plastic Limit Switches

Contacts (configuration)	Housing (material)	IP Rating	Connection (type)	H x W x D (mm)	Operator (type)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Snap Action	Glass-Filled PBT / Valox	IP66	M20	106 x 31 x 31	Adjustable roller lever		440P-CALS11B	127.50
1 NO + 2 NC, Slow Action	Glass-Filled PBT / Valox	IP66	M20	106 x 31 x 31	Adjustable roller lever		440P-CALB12B	143.45
1 NO + 1 NC EB 1st Contact, Snap Action	Glass-Filled PBT / Valox	IP66	M20	79 x 31 x 31	Short Non-adjustable roller lever		440P-CSLS11B	119.58
1 NO + 2 NC, Slow Action	Glass-Filled PBT / Valox	IP66	M20	79 x 31 x 31	Short Non-adjustable roller lever		440P-CSLB12B	130.18
1 NO + 1 NC EB 1st Contact, Snap Action	Glass-Filled PBT / Valox	IP66	M20	90 x 31 x 31	Top push roller plunger		440P-CRPS11B	154.07
1 NO + 2 NC, Slow Action	Glass-Filled PBT / Valox	IP66	M20	90 x 31 x 31	Top push roller plunger		440P-CRPB12B	164.73
1 NO + 1 NC EB 1st Contact, Snap Action	Glass-Filled PBT / Valox	IP66	M20	100 x 31 x 31	Hinge lever	I	440P-CHLS11B	162.04
1 NO + 2 NC, Slow Action	Glass-Filled PBT / Valox	IP66	M20	100 x 31 x 31	Hinge lever	I	440P-CHLB12B	170.01
1 NO + 1 NC EB 1st Contact, Snap Action	Glass-Filled PBT / Valox	IP66	M20	79 x 31 x 31	Top push dome plunger		440P-CDPS11B	108.94



440P-CALS11B

22mm Metal Limit Switches with 2m Flying Lead

Contacts (configuration)	Housing (material)	IP Rating	Connection (type)	H x W x D (mm)	Operator (type)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Snap Action	Alloy, Die-Cast	IP66, IP67, IP69K	Built-in cable with flying leads, 2m	100 x 35 x 16	Adjustable roller lever	I	440P-AALS11C	141.83
1 NO + 1 NC EB 1st Contact, Snap Action	Alloy, Die-Cast	IP66, IP67, IP69K	Built-in cable with flying leads, 2m	86 x 35 x 16	Short Non-adjustable roller lever	I	440P-ASLS11C	141.83
1 NO + 1 NC EB 1st Contact, Snap Action	Alloy, Die-Cast	IP66, IP67, IP69K	Built-in cable with flying leads, 2m	67 x 35 x 16	Top push roller plunger		440P-ARPS11C	131.55
1 NO + 1 NC EB 1st Contact, Snap Action	Alloy, Die-Cast	IP66, IP67, IP69K	Built-in cable with flying leads, 2m	63 x 35 x 16	Top push dome plunger	I	440P-ADPS11C	131.55



440P-ARPS11C



440P-MALS11B

30mm Metal Limit Switches

Contacts (configuration)	Housing (material)	IP Rating	Connection (type)	H x W x D (mm)	Operator (type)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Snap Action	Aluminium, Die-Cast	IP66	M20	172 x 40 x 43	Adjustable roller lever		440P-MALS11B	217.86
2 NO + 2 NC, Slow Action	Aluminium, Die-Cast	IP66	M20	172 x 40 x 43	Adjustable roller lever		440P-MALB22B	257.71
1 NO + 1 NC EB 1st Contact, Snap Action	Aluminium, Die-Cast	IP66	M20	133 x 40 x 43	Short Non-adjustable roller lever		440P-MSLS11B	217.86
2 NO + 2 NC, Slow Action	Aluminium, Die-Cast	IP66	M20	133 x 40 x 43	Non-adjustable roller lever	I	440P-MSLB22B	257.71
1 NO + 1 NC EB 1st Contact, Snap Action	Aluminium, Die-Cast	IP66	M20	118 x 40 x 43	Top push roller plunger		440P-MRPS11B	215.21
2 NO + 2 NC, Slow Action	Aluminium, Die-Cast	IP66	M20	118 x 40 x 43	Top push roller plunger		440P-MRPB22B	255.04
1 NO + 1 NC EB 1st Contact, Snap Action	Aluminium, Die-Cast	IP66	M20	105 x 40 x 43	Top push dome plunger		440P-MDPS11B	193.93
2 NO + 2 NC, Slow Action	Aluminium, Die-Cast	IP66	M20	105 x 40 x 43	Top push dome plunger		440P-MDPB22B	239.12
1 NO + 1 NC EB 1st Contact, Snap Action	Aluminium, Die-Cast	IP66	M20	240 x 40 x 43	Adjustable rod lever	I	440P-MARS11B	217.86
2 NO + 2 NC, Break Before Make	Aluminium, Die-Cast	IP66	M20	103 x 40 x 43	Adjustable rod lever	I	440P-MARB22B	257.71
1 NO + 1 NC EB 1st Contact, Snap Action	Aluminium, Die-Cast	IP66	M20	211 x 40 x 43	Wobble stick / spring rod		440P-MSRS11B	217.86
2 NO + 2 NC, Slow Action	Aluminium, Die-Cast	IP66	M20	x 40 x 43	Wobble stick / spring rod	I	440P-MSRB22B	257.71
1 NO + 1 NC EB 1st Contact, Snap Action	Aluminium, Die-Cast	IP66	M20	303 x 40 x 43	Telescopic arm	I	440P-MTAS11B	217.86
2 NO + 2 NC, Slow Action	Aluminium, Die-Cast	IP66	M20	x 40 x 43	Telescopic arm	I	440P-MTAB22B	257.71

Bulletin 802T General Purpose Limit Switches

Lever Type Switches

Levers not included - please refer to the operating levers section for available levers.

Complete Switches, Spring Return, No Operator



802T-AP

Contacts (configuration)	Housing (material)	IP Rating	Connection (type)	H x W x D (mm)	Operator (action)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Snap Action	Metal	IP67	1/2" - 14NPT Screw Terminal(s)	103.33 x 41.28 x 71.21	Spring Return		802T-AP	287.48
1 NO + 1 NC EB 1st Contact, Snap Action	Metal	IP67	1/2" - 14NPT	103.33 x 41.28 x 71.21	Spring Return		802T-ALP	342.14
2 NO + 2 NC, Snap Action	Metal	IP67	1/2" - 14NPT	103.33 x 41.28 x 71.21	Spring Return		802T-ATP	362.38
1 NO + 1 NC EB 1st Contact, Snap Action	Metal	IP67	1/2" - 14NPT	163.83 x 57.35 x 64.14	Spring Return	I	802T-A	372.37

Complete Switches, Maintained, No Operator



802T-AMTP

Contacts (configuration)	Housing (material)	IP Rating	Connection (type)	H x W x D (mm)	Operator (action)	Item Type	Catalogue No.	\$AU
2 NO + 2 NC, Snap Action	Metal	IP67	1/2" - 14NPT	115.44 x 41.28 x 71.35	Latched / Maintained		802T-AMTP	423.11

Operating levers

Roller levers

Item Description	Item Type	Catalogue No.	\$AU
Operating Lever, Roller Lever, 38.1mm length, Roller On Front, Nylon, 19.1mm diameter x 7.1mm depth	I	802T-W1	30.59
Operating Lever, Roller Lever, 38.1mm length, Roller On Front, Steel, 19.1mm diameter x 6.4mm depth		802T-W1A	30.59
Operating Lever, Roller Lever, Adjustable, 1.19 to 4.0 In, Nylon, 0.75 In, 0.28 In		802T-W17	61.24
Operating Lever, Roller Lever, Adjustable, 1.19 to 3.0 In, Nylon, 0.75 In, 0.28 In	I	802T-W2	61.24
Operating Lever, Roller Lever, Adjustable 30mm-50mm length, Roller On Front, Steel, 19.1mm diameter x 6.4mm depth		802T-W2B	61.24
Operating Lever, Roller Lever, Adjustable, 1.19 to 3.0 In, Ball Bearing, 0.75 In, 0.23 In	I	802T-W2C	76.42



802T-W1A

Rod levers

Item Description	Item Type	Catalogue No.	\$AU
Operating Lever, Rod Lever, Nylatron Looped Rod, 6 In Long, 2 In Wide Loop, 0.18 In		802T-W14	61.24
Operating Lever, Rod Lever, Stainless Steel Rod, 292.2mm length x 3.3mm diameter		802T-W3A	61.24
Operating Lever, Rod Lever, Stainless Steel Rod, 8.5 In Long, 0.13 In		802T-W3B	69.77
Operating Lever, Rod Lever, Nylon Rod, 304.8mm length x 6.4mm diameter		802T-W3C	76.42



802T-W3B

Limit Switches

Steute Limit Switches



- Positive opening operation versions suitable for machine safety applications
- Extensive range of different housing styles and mounting options
- Wide variety of operating levers and actuators
- 'Extreme Range' limit switches suitable for demanding applications with harsh and extreme environment

These robust electromechanical switches provide a comprehensive solution for the switching needs in the industrial applications. These switches are used where moving parts of machines and industrial plants have to be positioned, controlled and monitored. The various application fields, ranging from fine mechanics to heavy-duty machinery, require different materials, electrical capacity and quality criteria regarding construction and design.

30mm Plastic Limit Switch - ES95 Slow Action & EM95 Snap Action

Contacts (configuration)	Housing (material)	IP Rating	Connection (type)	H x W x D (mm)	Operator (type)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Slow Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Top push plunger		ES95W1O1S	99.00
1 NO + 1 NC EB 1st Contact, Snap Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Top push plunger		EM95W1O1S	99.00
1 NO + 1 NC EB 1st Contact, Snap Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Top push roller plunger (booted)		EM95R1O1S	123.00
1 NO + 1 NC EB 1st Contact, Snap Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Non-adjustable roller lever (booted)	I	EM95WH1O1S	127.00
1 NO + 1 NC EB 1st Contact, Snap Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Short Non-adjustable roller lever		EM95D1O1S	123.00
1 NO + 1 NC EB 1st Contact, Snap Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Adjustable roller lever		EM95DS1O1S	140.00
1 NO + 1 NC EB 1st Contact, Slow Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Adjustable roller lever		ES95DS1O1S	140.00
1 NO + 1 NC EB 1st Contact, Snap Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Rod lever DD	I	EM95DD1O1S	179.00
1 NO + 1 NC EB 1st Contact, Slow Action	TP (Thermoplastic)	IP67	Screw Terminal(s)	180.5 x 30 x 30	Rod lever DD	I	ES95DD1O1S	179.00
1 NO + 1 NC EB 1st Contact, Snap Action	TP (Thermoplastic)	IP67	Screw Terminal(s)	180.5 x 30 x 30	Wear-resistant plastic roller	I	EM95TK1O1S	129.00
1 NO + 1 NC EB 1st Contact, Slow Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Wear-resistant plastic roller	I	ES954K1O1S	187.00
1 NO + 1 NC EB 1st Contact, Slow Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Wear-resistant plastic roller	I	ES95D1O1S	123.00
2 NC, Slow Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Wear-resistant plastic roller		ES95D2O	160.00
1 NO + 1 NC EB 1st Contact, Slow Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Wear-resistant plastic roller		ES95R1O1S	129.00
1 NO + 1 NC EB 1st Contact, Slow Action	TP (Thermoplastic)	IP67	Screw Terminal(s)	180.5 x 30 x 30	Wear-resistant plastic roller	I	ES95TK1O1S	149.00
1 NO + 1 NC EB 1st Contact, Slow Action	TP (Thermoplastic)	IP67	Screw Terminal(s)	180.5 x 30 x 30	Long Spring rod TL	I	ES95TL1O1S	336.00
1 NO + 1 NC EB 1st Contact, Snap Action	TP (Thermoplastic)	IP67	M20 Screw Terminal(s)	180.5 x 30 x 30	Wear-resistant plastic roller	I	ES95WH1O1S	112.00



EM95DS1O1S

40mm Metal Limit Switch - ES41 Slow Action & EM41 Snap Action

Contacts (configuration)	Housing (material)	IP Rating	Connection (type)	H x W x D (mm)	Operator (type)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Snap Action	Aluminium, Die-Cast	IP65	M16, Screw Terminal(s)	86 x 40 x 30	Top push roller plunger		EM41R1O1S	195.00
1 NO + 1 NC EB 1st Contact, Snap Action	Aluminium, Die-Cast	IP65	M16, Screw Terminal(s)	112.8 x 40 x 46	Short Non-adjustable roller lever	I	EM41D1O1S	271.00
1 NO + 1 NC EB 1st Contact, Snap Action	Aluminium, Die-Cast	IP65	M16, Screw Terminal(s)	179.8 x 40 x 44	Adjustable roller lever	I	EM41DS1O1S	274.00



EM41R1O1S

Limit Switches

Austrol Heavy-Duty Limit Switches



- Rugged IP54 cast iron housing to suit harsh outdoor conditions
- Double break silver contacts for increased longevity
- Malleable operating lever can be adjusted to any angular position
- Oil-impregnated bearing, no lubrication required

The 77HL hatchway switch operates at 12° angular travel and to prevent damage occurring within the operating mechanism, a further 30° overtravel has also been incorporated beyond this operating point. In keeping with its rugged design, the standard roller is 58 mm in diameter and produced in cast iron for superior strength and reliability. Supplied as standard for right-hand operation, left-hand operation is also available as an option and a special shaft is available for this purpose).

The 77TL track limit switch is enclosed in a heavy-duty, cast iron enclosure for increased durability. A choice of four separate levers is available and is ordered separately. These include roller fork, straight roller, or rod/chain styles. Total angular travel is 90°, however, the snap-action contacts are actuated when the arm moves to 60°.

Limit Switches

77HL Hatchway Limit Switch - Single straight arm roller

Note: Supplied as a complete Switch with actuator arm

Item Description	Item Type	Catalogue No.	\$AU
77HL Hatchway Limit Switch (Complete) With Straight-Arm-Roller-Lever & Single Pole Contact 1NO/1NC 10A IP54	I	77.1.06	1,361.00
77HL Hatchway Limit Switch (Complete) Straight-Arm-Roller-Lever & Changeover Contact 2NO/2NC 10A IP54	I	77.1.10	1,433.00



77.1.06

77TL Track Limit Switch - Fork arm roller

Note: Supplied as a Switch Body Only requiring additional Actuator arm (77239 - Spare Roller Fork Lever) from Accessories

Item Description	Item Type	Catalogue No.	\$AU
77TL Track Limit Switch (Body Only) Single-Pole Contact 1NO/1NC 20A IP54	I	77.2.50	1,448.00
77TL Track Limit Switch (Body Only) Changeover Contact 1NO/1NC 20A IP54		77.2.11	1,543.00



77.2.50

Accessories

Item Description	Item Type	Catalogue No.	\$AU
77TL Limit Switch Spare Rod/Chain-Lever-Arm	I	77.2.34	264.00
77HL Limit Switch Spare Straight-Arm-Roller	I	77.2.40	284.00
77TL Limit Switch Spare Roller-Fork-Lever	I	77.2.39	465.00



77.2.39

Belt Drift Switches

Steute Belt Drift Switches

- Extensive range of housing styles available with plastic or metal versions
- Specialised versions with IP69K rating available for high-pressure wash-down applications in the Food and Beverage industry
- High and low temperature tolerance versions available, suitable for applications in extreme environments
- Specialised versions available with 2-stage switching

Belt drift switches are suitable for applications with handling equipment. Typical installation is on both sides of a conveyor belt in order to monitor the misalignment of the belt. Belt misalignment can be caused by goods not being positioned in the middle of a conveyor belt or pollution of track idlers and deflection pulleys, and without monitoring measurements, it can lead to damage, destruction, material covering or dropping.

Heavy Duty Belt Drift Switches

Rugged and durable metal body switches

ES 61 Series

Compact housing metal body switch with 2 output contacts

Item Description	Item Type	Catalogue No.	\$AU
ES61 Series, Aluminium die-cast enclosure, 52mm x 85mm, Slow Action, 1 N/O + 1 N/C, 16A/400V AC, IP65		ES61 SR 10/1S	702.00



ES61 SR 10/1S

ZS 73 Series

Metal body switch with 2 output contacts

Item Description	Item Type	Catalogue No.	\$AU
Belt Alignment Switch Release without mechanical latching, mid position centered 1NO 1NC IP65. Actuator level adjustable in 12° steps		ZS73SR101S	1,310.00
Belt Alignment Switch Release by Push Button 1NO 1NC IP65. Actuator level adjustable in 12° steps	I	ZS73SR101SVD	1,588.00



ZS73SR101S

Extreme Duty Belt Drift Switches

Switches for extreme environments with high temperature tolerance and durability

ZS 92 Series

Glass-fibre reinforced, shock-proof thermoplastic enclosure with UV resistance

Item Description	Item Type	Catalogue No.	\$AU
Extreme Belt Alignment Switch 2NO 2NC IP66/67 Actuator level adjustable in 12° steps. Temperature rating -40 °C to +85 °C	I	ZS92SR22P4085C	1,632.00



ZS92SR22P4085C

Wireless Switches and Sensors

Steute Wireless Switchgear

Ex Wireless Universal Transmitters	Page 432
Ex Wireless Inductive Proximity Sensors	Page 433
Ex Wireless Limit Switches	Page 433
Wireless Universal Transmitters	Page 433
Wireless Pushbuttons and Enclosures	Page 434
Wireless Remote Controls	Page 435
Wireless Inductive Proximity Sensors	Page 435
Wireless Magnetic Sensors	Page 436
Wireless Limit Switches	Page 436
Wireless Foot Switches	Page 437
Receivers	Page 437
Repeaters	Page 437
Accessories for Wireless Switches and Sensors	Page 437

6



- Long transmission range versions: rated 500m, nominal 40m
- Ultra-long transmission range versions: rated 700m, nominal 60m
- Repeater versions available for extending the transmission range of the wireless system
- Electrodynamic energy generator versions available i.e. the mechanical switches are self-powered and do not require external power or battery
- Battery-operated versions available with battery status and signal transmission status monitoring
- Transmission frequency of 915Mhz or 2.4Ghz (safety footswitch only)
- Coexistence with WLAN and Bluetooth
- Interference-free parallel operation of several transmission and receiving units through a special pairing procedure

Cable free switchgear and sensors for use in machinery and process plants. These industrial-strength wireless switches communicate with higher level control systems via reliable wireless transmission. Steute has a wide range of switches and sensors with sWave® wireless technology.

Product Selection

Steute wireless system consists of wireless switches, receiver and external antenna. The components of the system can be ordered separately or purchased as a complete system kit. The complete system kit includes the wireless devices and receiver with a small 2.5dB antenna. This antenna may be utilised for applications with a small transmission distance requirement of up to 20m; it is recommended to use a 5dB antenna (RFANTSW915) to ensure the optimum performance. This is ordered separately.

Ex Wireless Universal Transmitters

Universal transmitter modules suited for Hazardous Area Applications Ex Zone 1 and 21 and are used in conjunction with Ex RF IS Series sensors or Ex rated relay output type devices.

Series Ex RF 96 ST

Transmitters with a single input.



EXRF96STSW915

Item Description	Item Type	Catalogue No.	\$AU
EX RF 96 series, universal transmitter, battery-operated, plastic housing, IP67 enclosure	I	EXRF96STSW915	927.00

Ex Wireless Inductive Proximity Sensors

Inductive proximity sensors suited for Hazardous Area Applications Ex Zone 1 and 21 in combination with universal transmitter Ex RF 96 ST.

Series Ex RF IS M12 nb-ST

12mm cylindrical inductive proximity sensors with nickel-brass housing. Ex RF 96 ST transmitter is required for each sensor.

Sensor Only

Item Description	Item Type	Catalogue No.	\$AU
EX RF IS series, inductive proximity sensor, 12mm diameter, 4mm sensing distance, nickel-brass housing, 2m pigtail with M12 connector	I	EXRFISM12NBST2M	260.00



EXRFISM12NBST2M

Series Ex RF IS M18 nb-ST

18mm cylindrical inductive proximity sensors with nickel-brass housing. Ex RF 96 ST transmitter is required for each sensor.

Sensor Only

Item Description	Item Type	Catalogue No.	\$AU
EX RF IS series, inductive proximity sensor, 18mm diameter, 8mm sensing distance, nickel-brass housing, 2m pigtail with M12 connector	I	EXRFISM18NBST2M	281.00



EXRFISM18NBST2M

Series Ex RF IS M30 nb-ST

30mm cylindrical inductive proximity sensors with nickel-brass housing. Ex RF 96 ST transmitter is required for each sensor.

Sensor Only

Item Description	Item Type	Catalogue No.	\$AU
EX RF IS series, inductive proximity sensor, 30mm diameter, 15mm sensing distance, nickel-brass housing, 2m pigtail with M12 connector	I	EXRFISM30NBST2M	397.00



EXRFISM30NBST2M

Ex Wireless Limit Switches

Limit Switches suited for Hazardous Area Applications Ex Zone 1 and 21.

Series Ex RF 96 SW915

Plastic body limit switches with replaceable long-life lithium battery

Component Only

Item Description	Item Type	Catalogue No.	\$AU
EX RF 96 Series, Limit Switch, Roller Lever, Battery-Operated, Plastic Housing, IP67 enclosure	I	EXRF96DSW915	1,508.00
EX RF 96 Series, Limit Switch, Roller Plunger, Battery-Operated, Plastic Housing, IP67 rated	I	EXRF96RLSW915	1,508.00
EX RF 96 Series, Limit Switch, Offset Roller Lever, Battery-Operated, Plastic Housing, IP67 enclosure	I	EXRF96WHSW915	1,508.00
EX RF 96 Series, Limit Switch, Metal Plunger, Battery-Operated, Plastic Housing, IP67 enclosure	I	EXRF96WSW915	1,508.00
EX RF 96 Series, Limit Switch, Adjustable Roller Lever, Battery-Operated, Plastic Housing, IP67 enclosure	I	EXRF96DSSW915	1,679.00



EXRF96DSSW915

Wireless Universal Transmitters

Universal transmitter modules are used in conjunction with RF IS Series sensors or relay / PNP output type devices.

Series RF 96 ST

Transmitters with a single input.

Complete System

Item Description	Item Type	Catalogue No.	\$AU
RF 96 Series, Universal Transmitter KIT, Relay Input, 4-channel receiver with 2.5dB antenna and cable included	K	RF96STSW915KIT11	890.00

Component Only



RF96STSW915VCCK

Item Description	Item Type	Catalogue No.	\$AU
RF96 Series Wireless Switch, glass-fibre reinforced thermoplastic enclosure, 915MHz, 266kHz bandwidth, lithium battery, sensing range:450m outside, 40m inside, M12 plug in connector, IP67, EN 60947-5-1		RF96STSW915	562.00
RF 96 Series, Universal Transmitter, Relay Input, Battery-operated, Nominal range 450m, Cable Included, IP67	K	RF96STSW915K	586.00
RF 96 Series, Universal Transmitter, Relay/PNP Input, 24V DC Supply, Nominal range 450m, Cabled Included, IP67		RF96STSW915VCC	716.00
RF96 Series, Universal Transmitter, Relay/PNP Input, 24V DC Supply, Nominal range 450m, IP67	K	RF96STSW915VCCK	754.00

Series RF 96 IO

Transmitters with 4 inputs.

Component Only



RF96IOSW915-4E

Item Description	Item Type	Catalogue No.	\$AU
RF 96 Series, Universal Transmitter, 4-Input, 4 x M12 Plugs, Battery-operated	I	RF96IOSW915-4E	723.00
RF 96 Series, Universal Transmitter, 4-Input, 4 x M12 Plugs, External Power	I	RF96IOSW9154EVCC	789.00



RFIOPROCAP

Item Description	Item Type	Catalogue No.	\$AU
RF 96 IO Series, Protector Cap for Universal Transmitters	I	RFIOPROCAP	22.00

Wireless Pushbuttons and Enclosures

Comprehensive range of self-powered pushbuttons with a plastic housing.

Series RF BF 74

Pushbuttons with a rated transmission range of 450m and typical operational range of 40 to 60m.

Complete System



RFBF74RT1SW915KIT11

Item Description	Item Type	Catalogue No.	\$AU
RF BF 74 Series, Enclosed Pushbutton KIT, Pushbutton (Multi-colour Caps), 4-CH Receiver with 2.5dB antenna	K	RFBF74RT1SW915KIT11	644.00
RF BF 74 Series, Enclosed Pushbutton KIT, 2 x Pushbutton (Multi-colour Caps), 4-CH Receiver with 2.5dB antenna	K	RFBF74RT2SW915KIT12	857.00
RF BF 74 Series, Enclosed Pushbutton KIT, 3 x Pushbutton (Multi-colour Caps), 4-CH Receiver with 2.5dB antenna	K	RFBF74RT3SW915KIT13	988.00

Operator Stations (No Receiver)



RFBF74RT3SW915KIT3

Item Description	Item Type	Catalogue No.	\$AU
RF BF 74 Series, Enclosed Pushbutton, Plastic Body, Pushbutton Head with Multi-Colour Caps	K	RFBF74RT1SW915KIT1	384.00
RF BF 74 Series, Enclosed Pushbutton, Plastic Body, 2 x Standard Pushbutton with Multi-colour Caps	K	RFBF74RT2SW915KIT2	629.00
RF BF 74 Series, Enclosed Pushbutton, Plastic Body, 3 x Standard Pushbutton with Multi-colour Caps	K	RFBF74RT3SW915KIT3	773.00

Operators



RFBF74RTSW915

Item Description	Item Type	Catalogue No.	\$AU
RF BF 74 Series, Pushbutton, Multi-colour Caps, Plastic Body, Self-Power Generating	K	RFBF74RTSW915	298.00

Enclosures

Item Description	Item Type	Catalogue No.	\$AU
RF BF 74 Series, Enclosure, 1 x 22.5mm hole, Plastic Housing, IP66/67 rated		RFBF74-1	53.00
RF BF 74 Series, Enclosure, 2 x 22.5mm hole, Plastic Housing, IP66/67 rated	I	RFBF74-2	63.00
RF BF 74 Series, Enclosure, 3 x 22.5mm hole, Plastic Housing, IP66/67 rated	I	RFBF74-3	73.00



RFBF74-2

Wireless Remote Controls

Miniature remote control for industrial applications.

Series RF HB

Remote control unit with plastic housing and 4 pushbuttons.

Complete System

Item Description	Item Type	Catalogue No.	\$AU
RF Wireless Remote Kit, includes 4-channel, Remote and 4-channel receiver with 2.5dB antenna included	K	RFHBSW9154CHKIT11	884.00

Component Only

Item Description	Item Type	Catalogue No.	\$AU
RF HB Series, Wireless Remote, 4-channel, 915MHz Battery-operated		RFHBSW9154CH	584.00



RFHBSW9154CH

Wireless Inductive Proximity Sensors

Inductive proximity sensors with an M12 pigtail used in conjunction with an RF 96 ST SW915 universal transmitter.

Series RF IS M12 nb-ST

12mm cylindrical inductive proximity sensors with nickel-brass housing.

Complete System

Item Description	Item Type	Catalogue No.	\$AU
RF IS Series, Inductive Sensor KIT, M12, 2m pigtail, includes RF 96 Transmitter, 4-channel receiver with 2.5dB antenna included	K	RFISM122MSW915KIT12	804.00

Series RF IS M18 nb-ST

Inductive sensors with cylindrical 18mm Nickel-brass housing.

Complete System

Item Description	Item Type	Catalogue No.	\$AU
RF IS Series, Inductive Sensor KIT, M18, 2m pigtail, includes RF 96 Transmitter, 4-channel receiver with 2.5dB antenna included	K	RFISM182MSW915KIT12	804.00
RF IS Series, Inductive Sensor KIT, M18, 0.5m pigtail, includes RF 96 Transmitter, 4-channel receiver with 2.5dB antenna included	K	RFISM1805MSW915KIT12	975.00



RFISM1805MSW915KIT12

Series RF IS M30 nb-ST

Inductive sensors with cylindrical 30mm Nickel-brass housing.

Complete System

Item Description	Item Type	Catalogue No.	\$AU
RF IS Series, Inductive Sensor KIT, M30, 2m pigtail, includes RF 96 Transmitter, 4-channel receiver with 2.5dB antenna included	K	RFISM302MSW915KIT12	804.00

Wireless Magnetic Sensors

Complete range of magnetic sensors for industrial applications in metal or plastic housing.

Series RF RC 10

Battery-operated sensors with rectangular plastic housing.

Component Only



RFRC10SW915K

Item Description	Item Type	Catalogue No.	\$AU
RF RC Series KIT, includes a 10mm, battery-operated magnetic sensor plus actuator magnet	K	RFRC10SW915K	541.00

Series RF RC 30

Complete System

Item Description	Item Type	Catalogue No.	\$AU
RF RC Series KIT, includes a 30mm, battery-operated magnetic sensor, actuator magnet and 4-channel receiver with 2.5dB antenna included	K	RFRC30SW915KSTKIT11	902.00

Component Only

Item Description	Item Type	Catalogue No.	\$AU
RFRC Wireless Magnetic Sensor, thermoplastic square housing, battery operated 30mm, IP67		RFRC30SW915KST	540.00



RFRC30SW915KST

Spare Parts

Item Description	Item Type	Catalogue No.	\$AU
Magnetic actuator for RF RC30 Magnetic Sensor	I	RFM100N	11.00



RFM100N

Wireless Limit Switches

Comprehensive range of industrial limit switches with battery-operated or self-powered versions.

Series RF 95 SW915

Self-powered plastic body 30mm limit switches.

Component Only



RF95DSLRSW915

Item Description	Item Type	Catalogue No.	\$AU
RF95 Series, Limit Switch, Adjustable Roller Lever type actuator, 915MHz, self-powered, LR, plastic housing, IP67	I	RF95DSLRSW915	353.00
RF95 Series, Limit Switch, Plunger with cap type actuator, 915MHz, self-powered, LR, plastic housing, IP67	I	RF95WKLRSW915	353.00
RF95 Series Limit Switch, Roller Lever with collar type actuator, 915MHz, self-powered, LR, plastic housing, IP67	I	RF95WLRSW915	353.00
RF95 Series, Limit Switch, Roller Lever type actuator, 915MHz, self-powered, LR, plastic housing, IP67	I	RF95DLRSW915	372.00
RF95 Series Limit Switch, Roller Plunger R type actuator, 915MHz, self-powered, LR, plastic housing, IP67	I	RF95RLRSW915	401.00
RF95 Series Limit Switch, Roller Lever with collar type actuator, 915MHz, self-powered, ULR, plastic housing, IP67	I	RF95WULRSW915	445.00
RF95 Series Limit Switch, Roller Plunger R type actuator, 915MHz, self-powered, ULR, plastic housing, IP67	I	RF95RULRSW915	454.00
RF95 Series Limit Switch, Rod Lever type actuator, 915MHz, self-powered, LR, plastic housing, IP67	I	RF95DDLRSW915	484.00
RF95 Series Limit Switch, Spring-Rod Lever type actuator, 915MHz, self-powered, LR, plastic housing, IP67	I	RF95DFLRSW915	484.00
RF95 Series, Limit Switch, Adjustable Roller Lever type actuator, 915MHz, self-powered, ULR, plastic housing, IP67	I	RF95DSLRSW915	550.00
RF95 Series Limit Switch, Long Roller Plunger RL type actuator, 915MHz, self-powered, ULR, plastic housing, IP67	I	RF95RLULRSW915	600.00
RF95 Series Limit Switch, Rod Lever type actuator, 915MHz, self-powered, ULR, plastic housing, IP67	I	RF95DDLRSW915	602.00
RF95 Series Limit Switch, Spring-Rod Lever type actuator, 915MHz, self-powered, ULR, plastic housing, IP67	I	RF95DFULRSW915	605.00

Wireless Foot Switches

Industrial footswitches in a metal housing.

Series RF GF SW915

Wireless footswitches with battery-less operation and transmission frequency of 915 MHz.

Component Only

Item Description	Item Type	Catalogue No.	\$AU
RF Series Foot Switch, 915MHz, metal, unguarded, self-powered, IP67	I	RFGFISW915	662.00



RFGFISW915

Receivers

Receivers are required with all wireless field devices, the switching signal from the field devices is transmitted to the receivers wirelessly. This signal can be used to either switch a device physically through a relay output from the receiver; or the receivers can be used to interface with industrial networks through versions with built-in Fieldbus communications.

Relay Output - Receiver

Receivers with relay outputs.

Item Description	Item Type	Catalogue No.	\$AU
RF RX Series, Receiver, 24 V DC, 4-Channel Input, 4 C/O Relay Output, 915 Mhz		RFRXSW9154S	450.00



RFRXSW9154S

Repeaters

Repeaters are used to amplify the wireless signal strength and are used in combination with the wireless field devices and receivers. Up to two repeaters can be installed between the wireless field devices and receivers.

The '1K' version is used for applications with a single repeater requirement; '1K' and '2K' versions are used together if two repeaters are required. The rated transmission distance with 1 repeater will be twice the switch-receiver transmission distance; and with 2 repeaters the rated transmission distance will be three times.

Item Description	Item Type	Catalogue No.	\$AU
RF RX Series, Repeater / Communication-tester, 1-way / 2-way Repeater, USB 2.0, 915Mhz	I	RFRXTSW915USB	265.00
RF RX Series, Repeater, 1-way, 24V AC / DC Supply, 915MHz		RFRXTSW9151K	426.00
RF RX Series, Repeater, 2-way, 24V AC / DC Supply, 915MHz	I	RFRXTSW9152K	434.00



RFRXTSW915USB

Accessories for Wireless Switches and Sensors

Steute accessories are built for industrial applications that are used with specific Steute wireless products including; antenna sockets and extensions, magnetic antennas, RS 232 cables and complementary products including the field strength indicator.

Item Description	Item Type	Catalogue No.	\$AU
RF Series, External Antenna, to suit RF RX Series, Receiver and Repeater modules, 3.6m cable, 5dB, 915 Mhz		RFANTSW915	167.00
RF Series, Extension Cable for SMA Antenna, 3m length	I	RFEXTCAB-3M	187.00



RFANTSW915

Light Sensors

Doepke Dasy Twilight Switches



- Compact housing
- Light intensity range 0-200 Lux

Dasy Twilight Switches or light intensity sensors are used for control and switching of lighting based on the ambient light.

Light Switches



DASY1012

Item Description	Item Type	Catalogue No.	\$AU
Dasy Light Intensity Sensor, 12V DC supply voltage, 1N/O, 10A switching contacts		DASY1012	277.00
Dasy Light Intensity Sensor, 24V DC supply voltage, 1N/O, 10A switching contacts		DASY1024	298.00
Dasy Light Intensity Sensor, 240V AC supply voltage, 1N/O, 10A switching contacts		DASY10240	298.00
Dasy Light Intensity Sensor, 240V AC supply voltage, 1N/O, 16A switching contacts		DASY16240	336.00

Level Sensors

Carlo Gavazzi Level Sensors

- Level sensors and level control relays for both on/off control and continuous monitoring of levels
- Capacitive Probes and Amplifiers for monitoring levels of feeds, grains, and granular materials.
- Float switches with C/O, N/O or N/C outputs
- Photoelectric Level Switches for monitoring levels of conductive or non-conductive liquids.

Comprehensive range of products and solutions for Level Detection and Control applications.



Conductive Level Control

Conductive level probe used in combination with Level Control Relays for liquid level detection applications or filling / emptying applications for pumping.

- 2 or 4 point level control
- Teach-in functionality
- Up to 2 independent relay outputs
- Plug-in type 11 pin

Conductive Level Probes

Level probes for liquid level detection, available with up to 4 electrodes. These devices are available as complete probes or the heads the electrodes can be purchased separately.

Complete Level Probes

Material (electrode - isolation)	Electrode (qty)	Pipe Thread	Probe (mm, Ø x Length)	Connection / Entry	Item Type	Catalogue No.	\$AU
Stainless Steel - Yes, Nylon / PA6 / PA66 (Polyamide 6)	1	n/a - hanging type	Ø32 x 75.5mm	Built-in cable with flying leads, Neoprene, 5m		VH2	196.00
Stainless Steel, 316L - No	2	1.5" - 24 BSPP / ISO 228	Ø5 x 1000mm	Built-in cable with flying leads, PVC, 2m		VN2	211.00
Stainless Steel, 316L - No	3	1.5" - 24 BSPP / ISO 228	Ø5 x 1000mm	Built-in cable with flying leads, PVC, 2m		VN3	274.00
Stainless Steel, 316L - , PTFE / Teflon	3	1.5" - 24 BSPP / ISO 228	Ø5 x 1000mm	, Silicone, 1m	I	VTI3	677.00



VH2

Level Control Relays

Level Controls Relays are used in conjunction with the level probes and can be used to detect up to 4 different liquid levels.

2 Level Control - Conductive Relays

Input / Output (qty)	Un (V AC / V DC)	Output (type)	Sensitivity (range)	IP Rating	Mounting	Item Type	Catalogue No.	\$AU
2 / 2	24V AC / 24V DC	DPDT Relay	250Ω - 500kΩ	IP20	DIN-35 Rail Mount		CLD2EA1CM24	357.00
2 / 2	230V AC	DPDT Relay	250Ω - 500kΩ	IP20	Plug-in		CLP2EA1C230	431.00
2 / 2	24V AC / 24V DC	DPDT Relay	250Ω - 500kΩ	IP20	Plug-in		CLP2EA1CM24	431.00



CLD2EA1CM24

4 Level Control - Conductive Relays

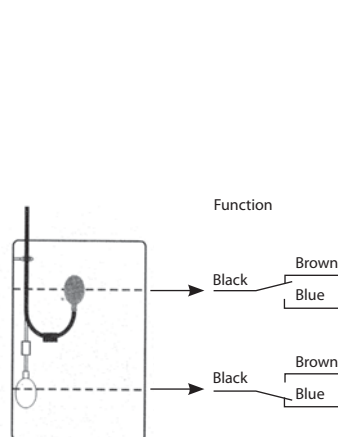
Input / Output (qty)	Un (V AC / V DC)	Output (type)	Sensitivity (range)	IP Rating	Mounting	Item Type	Catalogue No.	\$AU
4 / 2	230V AC	2 x SPST Relay	250Ω - 500kΩ	IP20	Plug-in		CLP4MA2A230	475.00
4 / 2	24V AC / 24V DC	2 x SPST Relay	250Ω - 500kΩ	IP20	Plug-in		CLP4MA2AM24	475.00



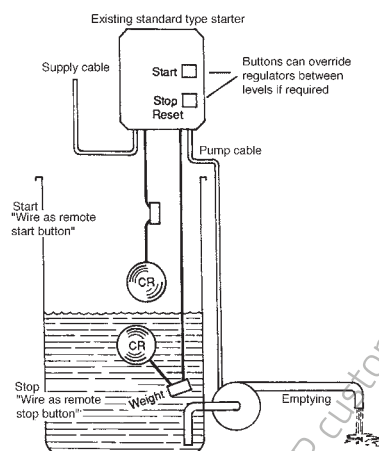
CLP4MA2A230

Float Switches

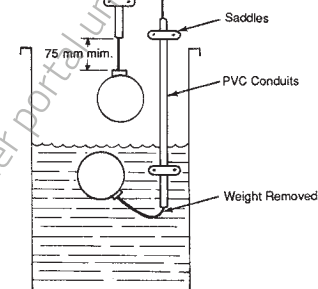
Used as a simple level detection device. Due to the built-in hysteresis the float switch can be used for direct control of a pump.



Float Switch Type VF



Float Switch Type CR



Float Switch Type CF

Float Switch Type CR - 1 N/O Output

Cable (m)	Cable (material)	Output (type)	Operating Temperature (°C)	Item Type	Catalogue No.	\$AU
5	PVC	Relay, N/O	5 - 65°C max		CR5	338.00
10	PVC	Relay, N/O	5 - 65°C max		CR10	371.00
15	PVC	Relay, N/O	5 - 65°C max		CR15	409.00
20	PVC	Relay, N/O	5 - 65°C max		CR20	448.00



CR5

Float Switch Type CF - 1 N/C Output

Cable (m)	Cable (material)	Output (type)	Operating Temperature (°C)	Item Type	Catalogue No.	\$AU
5	PVC	Relay, N/C	5 - 65°C max		CF5	338.00
10	PVC	Relay, N/C	5 - 65°C max		CF10	371.00
15	PVC	Relay, N/C	5 - 65°C max		CF15	409.00
20	PVC	Relay, N/C	5 - 65°C max		CF20	448.00



CF5

Float Switch Type VF - 1 C/O Output

Cable (m)	Material, cable jacket (material)	Output (type)	Housing (material)	Operating Temperature (°C)	IP Rating	Item Type	Catalogue No.	\$AU
5	PVC	Relay, N/O	PP (Polypropylene)	0 - 50°C max	IP68		VF01CRA5M	281.00
10	PVC	Relay, C/O	PP (Polypropylene)	0 - 50°C max	IP68		VF01CRA10M	313.00
15	PVC	Relay, C/O	PP (Polypropylene)	0 - 50°C max	IP68		VF01CRA15M	341.00



VF01CRA5M

Optical Level Sensors

Optical level sensors use infrared light for the detection of liquids. Fitted with built-in amplifier, transmitter and receivers are completely self-contained in solid plastic housing designed for mounting into container wall.

Thread (size)	Housing (material)	Un (V AC / V DC)	Output (type)	Connection	IP Rating	Item Type	Catalogue No.	\$AU
3/8" - 6 BSPP / ISO 228	Polysulfone	10 - 40V DC	PNP, N/O	Built-in cable with flying leads	IP67		VP02EP	306.00
3/8" - 6 BSPP / ISO 228	Polysulfone	10 - 40V DC	PNP, N/O	Built-in cable with flying leads	IP67		VP02EPM	740.00



VP02EP

Pressure Switches and Sensors

Allen-Bradley Pressure Sensors

- Stainless steel versions available for optimum corrosion resistance
- Electromechanical or microprocessor-based options
- Switching or analogue outputs available
- Wide range of pressures can be sensed

We have a wide range of rugged, industrial-grade, electromechanical pressure controls as well as solid-state pressure switches for any application. Our control products support multiple switching and output requirements which are suitable for a variety of applications and environments.



Solid-state Pressure Switches

836P Pressure Switches

836E Solid-state pressure switches feature full 316 stainless steel construction as well as programmable PNP or 4-20mA outputs and are available in both display and non-display versions. Display versions feature a four-digit display for programming and monitoring.

PNP and 4-20mA Outputs with Digital Display

Thread	Pressure (range)	Pressure (psi, max working)	Output	IP Rating	Gender	Item Type	Catalogue No.	\$AU
1/4" NPT	0 - 362 psi	600	DC PNP (Source) + Current (4 ... 20mA)	IP67	Female		836P-D2NFGB36PA-D4	526.95

4-20mA Output

Thread	Pressure (range)	Pressure (psi, max working)	Output	IP Rating	Gender	Item Type	Catalogue No.	\$AU
1/4" NPT	0 - 145 psi	290	Current: Single-Ended (4 ... 20mA)	IP67	Male		836P-N2NMGB14A-D4	230.17

Electromechanical Pressure Switches

Heavy-duty industrial pressure controls for basic switching applications.

Bulletin 836T Industrial Pressure Controls

Externally Adjustable Electromechanical Pressure Controls meet the traditional requirements of the transportation and machine tool industries.

Copper Alloy Bellows Type

Thread	Pressure (range)	Pressure (psi, max working)	Output	IP Rating	Gender	Item Type	Catalogue No.	\$AU
1/4" NPT	14.7 - 35 psi	80	CO Relay, Isolated	IP66	Female		836T-T251J	530.93
1/4" NPT	6 - 75 psi	200	CO Relay, Isolated	IP66	Female		836T-T252J	530.93
1/4" NPT	12 - 150 psi	350	CO Relay, Isolated	IP66	Female		836T-T253J	530.93
1/4" NPT	20 - 300 psi	600	CO Relay, Isolated	IP66	Female		836T-T254J	530.93
1/4" NPT	60 - 650 psi	1300	CO Relay, Isolated	IP66	Female		836T-T256J	707.91



836T-T252J

Pressure Switches and Sensors

UEDA Electromechanical Pressure Sensors



- Field adjustable set points and differentials
- Relay output with C/O contact
- Heavy duty versions available with a rugged construction and suitable for harsh environments
- Internal components and bellows chrome plated to ensure long life

UEDA Pressure switches automatically sense a change in pressure via a sensing element such as a diaphragm, bellows or piston which opens or closes an electrical switching element when a pre-determined pressure point is reached. There are three types including compressor type, general purpose and industrial purpose pressure switches.

Series GPS

General Purpose, GPS Series of Pressure sensors are a compact size, yet ruggedly constructed with a wide selection of transducer wetted materials suitable for air, water, oil and for corrosive fluid. It is a quality switch at an affordable price.

- Field adjustable set points
- Field adjustable dead bands (differentials)
- All wiring terminals and adjustments are easily accessible from the front of the switch
- Internal components and bellows are treated and chrome plated to ensure long life
- Adjustment scales in kPa, are clearly visible from the front of the switch
- Provided with single C/O (1 ab) snap action switch
- 20 mm cable entry



GPS-B045-FN4-VD

Thread	Pressure (range)	Pressure (psi, max work-ing)	Output	IP Rating	Gender	Item Type	Catalogue No.	\$AU
1/4" NPT	0 - 43.51 psi	145	CO Relay, Isolated	IP54	Female		GPS-B015-FN4-VD	584.00
1/4" NPT	0 - 87 psi	145	CO Relay, Isolated	IP54	Female		GPS-B025-FN4-VD	584.00
1/4" NPT	14.5 - 145 psi	217.55	CO Relay, Isolated	IP54	Female		GPS-B045-FN4-VD	584.00

Series IPS

Industrial Purpose, IPS Series of Pressure sensors are ruggedly constructed for harsh environments with a wide selection of transducer wetted materials suitable for air, water, oil and corrosive fluid. It is available with 1 or 2 changeover snap-action switches.

- Field adjustable set points
- Choice of full range adjustable dead band (differential)
- Adjustment scale in kPa, is clearly visible from the front of the switch
- All wiring terminals and adjustments are easily accessible from the front of the switch
- IP65 enclosure with 20mm cable entry
- Set point repeatability of +/- 1% of operating range
- Every internal part and bellows of the switch is chrome plated and treated to ensure long life
- Mounting bracket is provided with switch for ease of installation



IPS-B036-FN4-VD

Thread	Pressure (range)	Pressure (psi, max work-ing)	Output	IP Rating	Gender	Item Type	Catalogue No.	\$AU
1/4" NPT	2.9 - 101.52 psi	217.55	CO Relay, Isolated	IP65	Female	I	IPS-B036-FN4-VD	1,011.00
1/4" NPT	5.8 - 145 psi	217.55	CO Relay, Isolated	IP65	Female		IPS-B046-FN4-VD	1,043.00
1/4" NPT	29 - 290 psi	362.59	CO Relay, Isolated	IP65	Female		IPS-B056-FN4-VD	1,112.00
1/4" NPT	72.5 - 580 psi	1160	CO Relay, Isolated	IP65	Female	I	IPS-B066-FN4-VD	1,246.00

Encoders

Allen-Bradley Encoders

- Comprehensive range of absolute and incremental encoders to cover a wide range of applications
- Absolute encoders available with DeviceNet and EtherNet/IP enabled versions for easy system integration
- Wide range of outputs available for absolute encoders – sine / cosine, grey code and binary

Encoders can electronically monitor the position of a rotating shaft. Absolute Encoders are electro-mechanical devices that are useful feedback elements in closed-loop control systems. They provide position control in packaging, robotics, pick and place, lead/ball screw, rotary table positioning and component insertion applications. Incremental Optical Encoders provide low cost, smaller physical size, high frequency and high resolution.



Incremental Encoders

Incremental Optical Encoders produce digital output related to the position of a rotating shaft, providing feedback elements in closed-loop control systems. These encoders can be used with external electronics, such as counters, to accumulate data to determine position, speed, and direction. The incremental encoders are used when position retention is not required during a loss of power.

There are a number of different ranges of solutions available:

Bulletin 844D: High-Frequency Incremental Encoders

Bulletin 847: High-resolution Incremental Encoders

Bulletin 847

Robust mechanical design and a metal code disk which provides a rugged bearing system.

2" Solid Shaft

Encoder (diameter)	Mounting	Shaft	Power Supply (V DC)	Connection	Feedback (resolution)	Item Type	Catalogue No.	\$AU
50.8mm	Square Flange Mount	Ø10mm, Solid Cylinder with Flat Side	8 - 30V DC	MS connector, 10-pin with mating connector	1000 pulses/rev		847T-DL2A-RG01000	927.90
50.8mm	Square Flange Mount	Ø10mm, Solid Cylinder with Flat Side	8 - 30V DC	MS connector, 6-pin with mating connector	1000 pulses/rev	I	847T-DL2C-RC01000	1,035.73



847T-DL2A-RG01000

Connectors and Accessories

Flexible Couplings

Item Description	Item Type	Catalogue No.	\$AU
High Performance Flexible Coupling, 10mm to 10mm		845-FC-T-T	195.57



845-FC-T-T

Encoders

Allen-Bradley 842 Ethernet Encoders

- Single-turn 18-bit resolution and multi-turn 30-bit resolution
- Supports endless shaft functionality
- Dual Ethernet ports to support linear and Device Level Ring topologies 842E EtherNet/IP Absolute Encoders
- Includes dual Ethernet ports to support linear and Device Level Ring topologies 842E-CM Integrated Motion on EtherNet/IP Absolute Encoders
- Supports integrated motion on EtherNet/IP as a feedback only axis

The 842E encoders are equipped with industry-standard Ethernet/IP™ interface. This new encoder comes standard with dual port Ethernet and M12 connectors thus providing customers with an easy, money-saving installation. It also includes an embedded Ethernet/IP switch to connect additional E/IP capable product in series and/or support a DLR for Ethernet media redundancy

Absolute EtherNet/IP Encoders

Bulletin 842E EtherNet/IP™ Absolute Encoders provide dual-port Ethernet and M12 connectors. Each encoder also includes an embedded Ethernet/IP switch to connect additional EtherNet/IP-capable products in series or to support a Device Level Ring for Ethernet media redundancy. Bulletin 842E-CM Integrated Motion on EtherNet/IP™ Absolute Encoders are designed for motion control applications that require feedback-only axes. By providing auxiliary feedback directly through an EtherNet/IP network, these encoders eliminate the need for point-to-point wiring.

Single-turn

Measures and stores the absolute position within a single revolution.

Bulletin 842E

Turns	Shaft	Connection	Feedback (resolution)	Communication	Item Type	Catalogue No.	\$AU
1	Ø10mm, Solid Cylinder	M12 x 1, DC Micro, 4-pin	18-bit, 262,144 counts/rev	EtherNet/IP, CIP Motion	I	842E-CM-SIP3BA	1,890.88



842E-CM-SIP3BA

Multi-turn

Measures and stores the absolute position within multiple revolutions.

Bulletin 842E

Turns	Shaft	Connection	Feedback (resolution)	Communication	Item Type	Catalogue No.	\$AU
4096	Ø10mm, Solid Cylinder	M12 x 1, DC Micro, 4-pin	18-bit, 262,144 counts/rev	EtherNet/IP		842E-MIP3BA	2,167.60
4096	Ø10mm, Solid Cylinder with Flat Side	M12 x 1, DC Micro, 4-pin	32-bit	EtherNet/IP		842E-MIP4BA	2,167.60
4096	Ø12mm, Hollow Cylinder	M12 x 1, DC Micro, 4-pin	18-bit, 262,144 counts/rev	EtherNet/IP		842E-MIP9BA	2,321.32



842E-MIP4BA

Encoders

Allen-Bradley 843ES CIP Safety Ethernet Encoders

- Offers 15-bit single-turn safety resolution and 27-bit multi-turn safety resolution
- Offers 18-bit single-turn standard resolution and 30-bit multi-turn standard resolution
- Features feather key solid shaft to prevent relative rotation
- Blind-hollow shaft available with stator coupling
- Offers clamping, synchro, and square flange options for solid shaft
- Includes dual Ethernet ports to support linear and Device Level Ring topologies

The 843ES encoders are designed for safety applications that require speed, direction, or position monitoring safety functions. These encoders support the GuardLogix controller-based safety functions, in the Studio 5000 Logix Designer application. By providing auxiliary feedback directly through an EtherNet/IP network on CIP Safety, it makes it easier to achieve the desired safety integrity or performance level by reducing the number of components needed and utilizing the already available advanced drive safety instructions.

Single Turn Safety Encoders

- Dual Ethernet ports to support star, linear, and Device Level Ring topologies
- Configurable resolution per revolution: 1...32,768 for the safety connection and 1...262,144 for the standard connection
- Small form factor

Power Cable Options

Power Cords Braided shield, 22AWG, 4-pin M12, Colour code A

- 4pin micro (M12) QD (Quick Disconnect) cordset 889DF4ECDM*
- 4pin micro (M12) QD (Quick Disconnect) flying lead 889DF4EC*

(Replace * with cable length 2,5,10,15)

Power Cords Foil and Braided shield, 22AWG, 4-pin M12, Colour code A

- 4pin micro (M12) QD (Quick Disconnect) cordset 889DF4FCDM*
- 4pin micro (M12) QD (Quick Disconnect) flying lead 889DF4FC*

(Replace * with cable length 2,5,10)

Ethernet Cable options

Foil and braided shield, 4 conductor, Teal PUR, flex rated, halogen-free

- Male (M12) D-Code, straight connector to flying lead 1585DM4UB*
- Male to Male (M12) D-Code, straight connector cordset 1585DM4UBM*
- Male to Female (M12) D-Code, straight connector cordset 1585DM4UBDF*
- Male (M12) D-Code, straight connector to RJ45 cordset 1585DM4UBJM*

(Replace * with cable length 1,2,5,10)

Item Description	Item Type	Catalogue No.	\$AU
CIP Safety Single-turn Solid Shaft 10mm Clamping Flange 58mm	I	843ES-SIP14BA1	4,277.87
CIP Safety Single-turn Solid Shaft 10mm Synchro Flange 58mm	I	843ES-SIP14BA4	4,277.87
CIP Safety Single-turn Solid Shaft 10mm Square Flange 63.5mm	I	843ES-SIP14BA7	4,277.87
CIP Safety Single-turn Solid Shaft 12mm Clamping Flange 58mm	I	843ES-SIP15BA1	4,277.87
CIP Safety Single-turn Solid Shaft 12mm Synchro Flange 58mm	I	843ES-SIP15BA4	4,277.87
CIP Safety Single-turn Solid Shaft 12mm Square Flange 63.5mm	I	843ES-SIP15BA7	4,277.87
CIP Safety Single-turn Solid Shaft 9.52mm Clamping Flange 58mm	I	843ES-SIP16BA1	4,277.87
CIP Safety Single-turn Solid Shaft 9.52mm Synchro Flange 58mm	I	843ES-SIP16BA4	4,277.87
CIP Safety Single-turn Solid Shaft 9.52mm Square Flange 63.5mm	I	843ES-SIP16BA7	4,277.87
CIP Safety Single-Turn Hollow Shaft 12.7mm Diameter Flange 63mm	I	843ES-SIP10BA6	4,451.43
CIP Safety Single-turn Hollow Shaft 14mm Diameter Flange 63mm	I	843ES-SIP11BA6	4,451.43
CIP Safety Single-turn Hollow Shaft 15mm Diameter Flange 63mm	I	843ES-SIP12BA6	4,451.43
CIP Safety Single-turn Hollow Shaft 9.52mm Diameter Flange 63mm	I	843ES-SIP7BA6	4,451.43
CIP Safety Single-turn Hollow Shaft 10mm Diameter Flange 63mm	I	843ES-SIP8BA6	4,451.43
CIP Safety Single-turn Hollow Shaft 12mm Diameter Flange 63mm	I	843ES-SIP9BA6	4,451.43



843ES-SIP15BA1

Multi Turn Safety Encoders

- PLe, Cat. 3 capable according to ISO 13849-1 and 13849-2, and SIL 3 capable according to IEC 61800-5-2, IEC 62061, and IEC 61508
- Configurable resolution per revolution: 1...32,768 for the safety connection and 1...262,144 for the standard connection
- Small form factor

Power Cable Options

Power Cords Braided shield, 22AWG, 4-pin M12, Colour code A

- 4pin micro (M12) QD (Quick Disconnect) cordset 889DF4ECDM*
- 4pin micro (M12) QD (Quick Disconnect) flying lead 889DF4EC*

(Replace * with cable length 2,5,10,15)

Power Cords Foil and Braided shield, 22AWG, 4-pin M12, Colour code A

- 4pin micro (M12) QD (Quick Disconnect) cordset 889DF4FCDM*
- 4pin micro (M12) QD (Quick Disconnect) flying lead 889DF4FC*

(Replace * with cable length 2,5,10)

Ethernet Cable options

Foil and braided shield, 4 conductor, Teal PUR, flex rated, halogen-free

- Male (M12) D-Code, straight connector to flying lead 1585DM4UB*
- Male to Male (M12) D-Code, straight connector cordset 1585DM4UBM*
- Male to Female (M12) D-Code, straight connector cordset 1585DM4UBDF*
- Male (M12) D-Code, straight connector to RJ45 cordset 1585DM4UBJM*

(Replace * with cable length 1,2,5,10)



843ES-MIP14BA4

Item Description	Item Type	Catalogue No.	\$AU
CIP Safety Multi-turn Solid Shaft 10mm Clamping Flange 58mm	I	843ES-MIP14BA1	5,800.25
CIP Safety Multi-turn Solid Shaft 10mm Synchro Flange 58mm	I	843ES-MIP14BA4	5,800.25
CIP Safety Multi-turn Solid Shaft 10mm Square Flange 63.5mm	I	843ES-MIP14BA7	5,800.25
CIP Safety Multi-turn Solid Shaft 12mm Clamping Flange 58mm	I	843ES-MIP15BA1	5,800.25
CIP Safety Multi-turn Solid Shaft 12mm Synchro Flange 58mm	I	843ES-MIP15BA4	5,800.25
CIP Safety Multi-turn Solid Shaft 12mm Square Flange 63.5mm	I	843ES-MIP15BA7	5,800.25
CIP Safety Multi-turn Solid Shaft 9.52mm Clamping Flange 58mm	I	843ES-MIP16BA1	5,800.25
CIP Safety Multi-turn Solid Shaft 9.52mm Synchro Flange 58mm	I	843ES-MIP16BA4	5,800.25
CIP Safety Multi-turn Solid Shaft 9.52mm Square Flange 63.5mm	I	843ES-MIP16BA7	5,800.25
CIP Safety Multi-turn Hollow Shaft 12.7mm Diameter Flange 63mm	I	843ES-MIP10BA6	5,973.79
CIP Safety Multi-turn Hollow Shaft 14mm Diameter Flange 63mm	I	843ES-MIP11BA6	5,973.79
CIP Safety Multi-turn Hollow Shaft 15mm Diameter Flange 63mm	I	843ES-MIP12BA6	5,973.79
CIP Safety Multi-turn Hollow Shaft 9.52mm Diameter Flange 63mm	I	843ES-MIP7BA6	5,973.79
CIP Safety Multi-turn Hollow Shaft 10mm Diameter Flange 63mm	I	843ES-MIP8BA6	5,973.79
CIP Safety Multi-turn Hollow Shaft 12mm Diameter Flange 63mm	I	843ES-MIP9BA6	5,973.79

Code Readers

Allen Bradley Code Readers

- Provides a compact solution, that measures just 44.5 mm (1.75 in.) x 25.4 mm (1.00 in.) x 44.45 mm (1.75 in.)
- Features two models: Standard (WVGA, 0.3 MP resolution, fixed focus) or Advanced (SXGA, 1.2 MP resolution, autofocus)
- Supports Ethernet/IP and can be configured through either Studio 5000® Add-On-Profile (AOP) or the embedded web server WebConnect
- Reads at distances from 102 mm (4.02 in.) to 400 mm (15.75 in.)
- Features read rates of up to 60 fps for fixed focus models and 42 fps for autofocus models
- Provides programmable LED (red or white) read status indication for Read/No Read

48CR Code Readers decode all 1D, 2D and Direct Part Marked (DPM) symbols and are designed in a rugged, industrial-grade IP65/IP67 enclosure rating. The 48CR Code Reader can successfully read damaged and incomplete symbols despite poor prints, scratches or other obstructions. The 48CR supports Ethernet/IP™ and can be configured through either the Studio 5000 Logix Designer application Add-on Profile (AOP) or the embedded WebConnect visual browser.

Standard Code Reader – Wide Video Graphics Array (WVGA)

752 x 480 resolution, 0.3 MP, 1D/2D + DPM

Item Description	Item Type	Catalogue No.	\$AU
Code Reader, 1D/2D Code Reader, 1D/2D, Standard (752 x 480), 16 mm, Red, Fixed Focus (400 mm), 4-Pin, DC Micro EtherNet/IP, 8-Pin	I	48CR-CB16R400-E8	4,532.01
Code Reader, 1D/2D Code Reader, 1D/2D, Standard (752 x 480), 5.2 mm, Red, Fixed Focus (102 mm), 4-Pin, DC Micro EtherNet/IP, 8-Pin	I	48CR-CB52R102-E8	4,532.01



48CR-CB16R400-E8

Advanced Code Reader – Super Extended Graphic Array (SXGA)

1280 x 980 resolution, 1.2 MP, 1D/2D + DPM

Item Description	Item Type	Catalogue No.	\$AU
Code Reader, 1D/2D Code Reader, 1D/2D, Advanced (1280 x 960), 16 mm, Red, Auto Focus, 4-Pin, DC Micro EtherNet/IP, 8-Pin	I	48CR-CC16RAF-E8	5,665.01
Code Reader, 1D/2D Code Reader, 1D/2D, Advanced (1280 x 960), 7.7mm, Red, Auto Focus, 4-Pin, DC Micro EtherNet/IP, 8-Pin	I	48CR-CC77RAF-E8	5,665.01



48CR-CC77RAF-E8

Accessories

Item Description	Item Type	Catalogue No.	\$AU
48CR L Bracket	I	48CR-LBKT	168.06
48CR LED Diffuser	I	48CR-DIFFUSER	338.01
48CR Right Angle Mirror	I	48CR-45MIRROR	545.73
48CR LED Polariser	I	48CR-POLARIZER	659.02
48CR Adjustable Bracket	I	48CR-ADJBKT	715.68

This page intentionally left blank

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Safety

Safety Controllers

Smart Safety Palletiser	450
Single Function Safety Relays	451
Programmable Safety Relays	454

GuardLink Connection System

GuardLink Systems	455
-------------------	-----

Safety Interlocks

Mechanical Interlocks	456
Non-Contact Interlocks	465
Key Exchange Interlocks	469

Presence Sensing Safety Devices

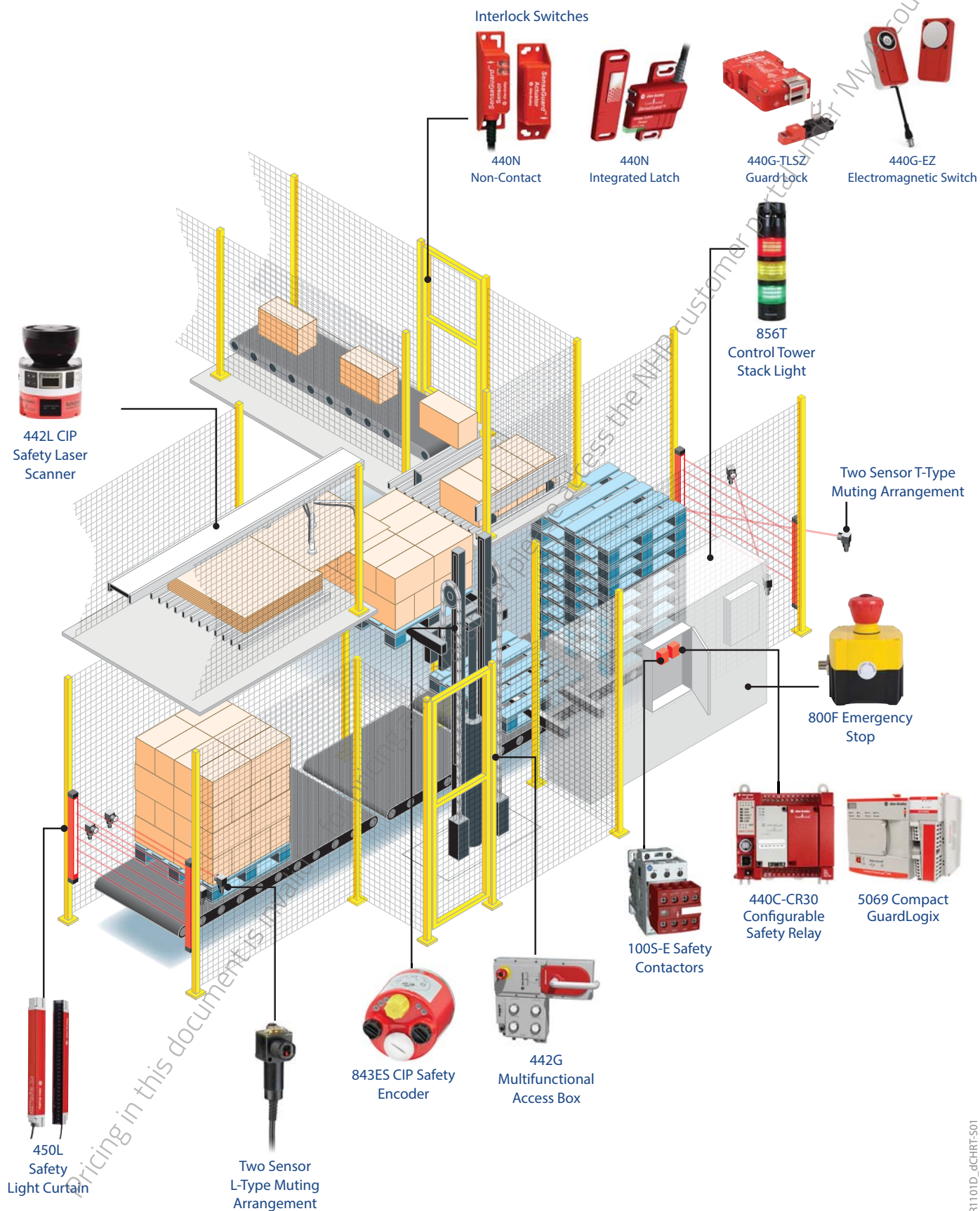
Light Curtains	472
Laser Scanner	476
Pressure Mats	479

Safety Pushbuttons and Operator Devices

Safety Pull Wire Switches	480
Safety Enabling Switches	485

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Smart Safety Palletiser



Single Function Safety Relays

Allen-Bradley GSR Safety Relays

- Single-wire safety connection for easy expandability and wiring while maintaining a high level of safety integrity
- Universal inputs are compatible with a wide range of safety devices for maximum flexibility
- Optional Ethernet/IP connectivity for integration into standard control systems
- Cabling for this range can be found in **Section 12 "Terminals and Pre-Wired Cables"**

The new generation of Guardmaster safety relays cover a broad scope of applications in a simplified product range. A range of safety devices such as interlock switches, emergency stop devices, pressure sensitive mats and OSSD devices such as safety light curtains; are all compatible with the same relay without additional configuration. The functionality of two standard relays can be achieved in one Dual Input (DI) device, allowing connection of two dual-channel input devices into one safety relay. Safety functions can be expanded or cascaded by linking multiple relays via a single-wire safety connection, while maintaining Cat 4, SIL3 and PLe rating.

Product Selection



- 1 Select the appropriate relay(s) from the **Standard** or **Guard Locking** Relay ranges based on the application. Any combination of these relays can be used for a modular safety relay solution.
- 2 Select the expansion relay(s) to increase the number of standard and time delayed outputs.
- 3 Add Ethernet/IP plug-in module for increased diagnostic capability.

440RN2133_d5ELN-501

7

Standard Relays

These safety relays can monitor a broad range of safety devices in a variety of applications. These single-function relays can achieve most of the functions safety systems require to comply with the relevant safety standards.

Function	Inputs	Outputs (safety)	Outputs (aux)	Un (V AC / V DC)	Reset (type)	Item Type	Catalogue No.	\$AU
Single Input (SI)	1 N.C., 2 N.C., OSSD, Safety Mat	2 NO NO Relay	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual		440R-S12R2	344.31
Compatible Input (CI)	1 N.C., 2 N.C., OSSD, Safety Mat	3 NO NO Relay	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual		440R-S13R2	387.35
Dual Input Solid-State Output (DIS)	1 N.C., 2 N.C., OSSD, Safety Mat	2 NO DC PNP (Source)	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual		440R-D22S2	565.24
Dual Input (DI)	1 N.C., 2 N.C., OSSD, Safety Mat	2 NO NO Relay	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual		440R-D22R2	615.45



440R-D22R2

Expansion Relays

Expansion relays provide additional standard or time-delayed outputs to standard GSR relays. The time-delay versions can be identified by a 'D' in the part number suffix.

Function	Inputs	Outputs (safety)	Outputs (aux)	Un (V AC / V DC)	Reset (type)	Item Type	Catalogue No.	\$AU
Expansion Module (EM)	1 Single-Wire Safety Input	4 NO	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual		440R-EM4R2	351.48
Expansion Module Time Delayed (EMD)	1 Single-Wire Safety Input	4 NO (delayed)	1 NC DC PNP (Source)	24V DC	Automatic / Manual / Monitored Manual		440R-EM4R2D	375.87



440R-EM4R2

Guard Locking Relays

Developed for applications requiring access control monitoring the stop time, standstill or safe limited speed to unlock guards when equipment reaches a safe condition.

GLT: Allows access when maximum stop time of the equipment has lapsed and reaches standstill. Combinations of two instantaneous and two delayed switching outputs.

GLP: 2 PNP proximity sensor inputs for standstill or slow-speed monitoring to allow access when equipment reaches a safe speed.

Supports standard proximity switches while maintaining a safety rating up to PLd per ISO 13849-1, SILcl 2 per IEC 61508.



440R-GL2S2T

Function	Inputs	Outputs (safety)	Outputs (aux)	Un (V AC / V DC)	Reset (type)	Item Type	Catalogue No.	\$AU
Guardlocking Time Delayed (GLT)	1 N.C. / 2 N.C. / OSSD / Speed Mon	2 NO+ 2 NO (delayed) DC PNP (Source)	1 NC	24V DC	Automatic / Manual / Monitored Manual		440R-GL2S2T	527.93
Guardlocking Proximity (GLP)	2 N.C. / OSSD	2 NO DC PNP (Source)	1 NC	24V DC	Automatic / Manual / Monitored Manual		440R-GL2S2P	616.89

Guardlink Relays

The Guardmaster Dual GuardLink Safety Relay extends the capability to share diagnostics and status information of safety switches and safety sensors connected in series via GuardLink



440R-DG2R2T

Item Description	Item Type	Catalogue No.	\$AU
Guardmaster Dual GuardLink Safety Relay		440R-DG2R2T	682.88

Ethernet/IP Network Interface

The Ethernet/IP Network interface allows diagnostic information from the GSR relays to be communicated over an Ethernet/IP network. The information is transmitted over the embedded optical bus so additional wiring is minimised. One interface can connect to up to six relays.



440R-ENETR

Item Description	Item Type	Catalogue No.	\$AU
Guardmaster Ethernet/IP Network Interface, suits models DI, DIS, EM, EMD, GLP, GLT and GuardLink.		440R-ENETR	621.19



Single Function Safety Relays

Allen-Bradley MSR Safety Relays

- Support a wide variety of input devices and output configurations
- Compact packages with removable terminals
- Ideal for relatively small safety applications and single zone control
- Available in electromechanical versions or solid-state models



Speed Monitoring

Speed Monitoring Safety Relays

Speed Monitoring Safety Relays are used for standstill detection on single and three phase motors without the need for external sensors.

- Category 4 and Performance Level PLe to EN ISO13849-1:2008
- Offered in 24V DC, 115V AC and 230V AC versions
- Provides standstill detection without the need for proximity sensors or encoders to determine the standstill of electric motors
- Used to allow the release of a solenoid locking switch such as the 440G-LZ or to activate a mechanical hold in a woodworking, conveyor, or machine tool's braking system MSR55P Back EMF Monitor Standstill monitoring relay module

Item Description	Item Type	Catalogue No.	\$AU
MSR55P Speed Monitoring Relay 24V DC 2 Channel 20-400mV Induction Motor		440R-S35011	752.71
MSR55P Speed Monitoring Relay 24V DC 2 Channel 200-4000mV Servo Motor		440R-S35014	752.71



440R-S35011

Programmable Safety Relays

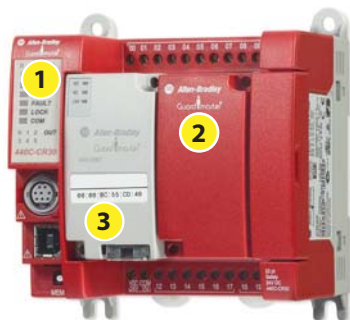
Allen-Bradley CR30 Software Configurable Relay



- Suitable for applications up to PLe, Cat. 4 per ISO 13849-1 and SIL CL3 per IEC 62061
- Offers 22-point embedded safety I/O
- Supports up to two Micro800® Plug-in Modules
- Provides embedded communication via USB programming port and non-isolated serial port for RS-232 communications
- Includes two single-wire safety input/output points for interlocking between Guardmaster® safety relays
- Pre-defined drag-and-drop safety function blocks simplify programming
- Optional Ethernet plug-in module which allows this relay to communicate diagnostic data to a CompactLogix™ or Micro800® controller
- Cabling for this range can be found in **Section 12 "Terminals and Pre-Wired Cables"**

The Guardmaster® 440C-CR30 Software Configurable Safety Relay is flexible, cost-effective, and easy to use. This relay is ideal for applications requiring as many as nine dual-channel safety circuits and controlling as many as five output zones. You can configure this relay using the Connected Components Workbench™ software.

Product Selection



440CCR3022BBB_dSELN-S01

- 1 Select the **440C-CR30-22BBB** safety relay
- 2 Optional -
Select a standard I/O module:
4 Digital in **2080-IQ4**
4 Digital out **2080-OB4**
4 Relay out **2080-OW4I**
4 Digital in/ 4 Digital out **2080-IQ4OB4**
- 3 Optional -
Add Ethernet/IP plug-in module **440C-ENET**

Safety Relay



440C-CR30-22BBB

Safety I/O (qty configurable)	Safety Inputs (dedicated)	Safety Outputs (dedicated)	Safety Rating (Cat / PL)	Communications (protocols)	Item Type	Catalogue No.	\$AU
6	12	4	Cat 4 / PLe	Modbus RTU (Serial); RS-232		440C-CR30-22BBB	1,119.82

Plug-in Communications Module



440C-ENET

Item Description	Item Type	Catalogue No.	\$AU
Guardmaster Ethernet Plug-in module, 440C-CR30, Slot 1 only		440C-ENET	462.13

GuardLink Systems

GuardLink Connection Systems

- Acts as the adaptor for safety input devices to connect to GuardLink
- Provides device location and status to GuardLink GSR Relay (DG) technology
- Two bright indicators for device and link communication status
- Compact 40 mm housing fits on standard aluminum profiles
- TÜV Approved PLe, SIL 3, Cat 4 Rated
- IP65/IP67 environmental rating

GuardLink is a safety-based communications protocol that links safety to The Connected Enterprise. Allen-Bradley® Guardmaster® smart safety devices featuring GuardLink technology deliver information, advanced functionality and flexibility, while enhancing safety and increasing efficiency machine- and plant-wide. GuardLink enabled devices offer advanced features and diagnostics that can only be accessed through a GuardLink connection tap.



Product Selection

Cable Selection

- Cable from relay to first Guardlink enabled tap 889D-F4NE**¹
- Cable to connect between taps 889D-F5NCDM**¹
- Cable from the Guardlink taps to input devices 5pin 889D-F5NCDM** 8pin 889D-F8NBDM**¹

¹ Replace ** with cable length 1, 2, 5, 10, 15, 20, 30

Guardlink Enabled Taps

GuardLink enabled devices offer advanced features and diagnostics that can only be accessed through a GuardLink enabled connection tap.

Item Description	Item Type	Catalogue No.	\$AU
5-Pin EMSS (Electromechanical Safety Switch) GuardLink Enabled Tap PTR (Power to Release)	I	440S-MF5D	151.72
8-Pin EMSS (Electromechanical Safety Switch) GuardLink Enabled Tap PTR (Power to Release)	I	440S-MF8D	151.72
5-Pin OSSD (Output Signal Switching Device) GuardLink Enabled Tap PTR (Power to Release)	I	440S-SF5D	151.72
8-Pin OSSD (Output Signal Switching Device) GuardLink Enabled Tap PTR (Power to Release)	I	440S-SF8D	151.72
8-Pin EMSS (Electromechanical Safety Switch) GuardLink Enabled Tap PTL (Power to Lock)	I	440S-MLF8D	151.72
8-Pin OSSD (Output Signal Switching Device) GuardLink Enabled Tap PTL (Power to Lock)	I	440S-SLF8D	151.72
GuardLink Power Tap (for extended length applications with Voltage drop requirements)	I	440S-PF5D4	189.66
5-Pin GuardLink Passive Tap (Only for use with GuardLink Embedded Devices 440G-MZ)	I	440S-PF5D	103.73



440S-PF5D

Mounting Brackets

Item Description	Item Type	Catalogue No.	\$AU
GuardLink Tap Mounting Bracket - QTY 1	I	440S-GLTAPBRK1	6.82
GuardLink Tap Mounting Bracket - QTY 5	I	440S-GLTAPBRK5	31.02



440S-GLTAPBRK1

Shorting Plugs

Item Description	Item Type	Catalogue No.	\$AU
GuardLink Terminator plug for last Guardlink Enabled Tap	I	898D-418U-DM2	43.04



898D-418U-DM2

Mechanical Interlocks

Allen-Bradley 442G Multifunctional Access Box

- Includes a high coded RFID bolt actuator to achieve the highest level of tamper resistance in accordance with ISO 14119
- Offers both Power-to-Release and Power-to-Lock models for personnel safety or the protection of machine production
- Offers the ability to be wired in a series and maintain a PLE Cat 4 rating for interlocking, guard lock monitoring and control of guardlocking
- Includes a CIP Safety over EtherNet/IP version which enables easy integration in a networked automation control system using Studio 5000 Logix Designer® environment

442G Multifunctional Access Box is a unique combination of guard locking and access control. This integrated safeguarding solution is ideal for full body applications where guard doors require a higher holding force, a greater tolerance to guard door misalignment and a means for exiting the safeguarded area in an emergency. A choice of operator controls and other options offer flexibility to meet a variety of applications.

A system consists of a handle assembly, lock module and 19-pin cordset with the optional use of an escape release.

Product Selection



442GMABHR_dSELN-501

- 1 Select either a left or right handle assembly.
- 2 Select one of the locking modules with preferred cover controls:
 - Hardwired
 - CIP Safety over EtherNet/IP
- 3 Select 19-pin, 10m cordset, e.g. 889M-F19RM-10. Other cordset lengths are available on request.
- 4 Optional:
 - Escape release
 - Mounting plate



Lock Modules with Hardwired Safety



442G-MABR-URM-C03

Item Description	Item Type	Catalogue No.	\$AU
442G Access Box Lock Module, Power to Release, M23 Left Guard, Emergency Stop & 2 Pushbuttons	I	442G-MABR-ULM-C03	1,739.54
442G Access Box Lock Module, Power to Release, M23 Right Guard, Emergency Stop & 2 Pushbuttons	I	442G-MABR-URM-C03	1,739.54

A system consists of a handle assembly, lock module and 19-pin cordset with the optional use of an escape release.

Lock Modules with CIP Safety over EtherNet/IP



442G-MABRB-UL-E0P49

Item Description	Item Type	Catalogue No.	\$AU
442G Access Box, Lock Module, Power to Release, Unique Code, EtherNet/IP (2 x M12, A-coded), Left-hand Guard, E-Stop and Two Pushbuttons		442G-MABRB-UL-E0P49	3,347.79
442G Access Box, Lock Module, Power to Release, Unique Code, EtherNet/IP (2 x M12, A-coded), Right Guard, E-Stop and Two Pushbuttons		442G-MABRB-UR-E0P49	3,347.79
442G Access Box, Lock Module, Power to Release, Unique Code, EtherNet/IP (2 x M12, A-coded), Left-hand Guard, E-stop, 4 Push Buttons, Connector for Enabling Switch		442G-MABRB-UL-E0JP4679	3,528.31
442G Access Box, Lock Module, Power to Release, Unique Code, EtherNet/IP (2 x M12, A-coded), Right-hand Guard, E-stop, 4 Push Buttons, Connector for Enabling Switch	I	442G-MABRB-UR-E0JP4679	3,528.31

A system consists of a handle assembly, lock module and 19-pin cordset with the optional use of an escape release.

Handle Assemblies

Item Description	Item Type	Catalogue No.	\$AU
442G Access Box Handle Assembly, Left Hinge Door with Bolt Lock		442G-MABH-L	584.22
442G Access Box Handle Assembly, Right Hinge Door with Bolt Lock		442G-MABH-R	584.22



442G-MABH-L

A system consists of a handle assembly, lock module and 19-pin cordset with the optional use of an escape release.

Escape Release

Item Description	Item Type	Catalogue No.	\$AU
442G Access Box Escape Release with Standard Shaft		442G-MABE1	236.31



442G-MABE1

A system consists of a handle assembly, lock module and 19-pin cordset with the optional use of an escape release.

Accessories and Spare Parts

Item Description	Item Type	Catalogue No.	\$AU
Access Box Extended Shaft 250mm		442G-MABASHFT	65.65
Mounting Plate for 442G Access Box Escape Release Mechanism		442G-MABAMPE	78.44
Mounting Plate for 442G Access Box Handle Assembly		442G-MABAMPH	107.65
Mounting Plate for 442G Access Box Lock Module	I	442G-MABAMPL	107.65



442G-MABAMPL

Mechanical Interlocks

Allen-Bradley 440G GuardLocking Switches

Guard Locking Switches are used to protect hazardous areas where a danger is not immediately removed after a stop request. On many machines such as high inertia rotating machines, removing power to the motor or actuator will not immediately stop the dangerous motion. Guard locking switches ensure that the guard remains locked until the danger is removed. Some models are available with integrated RFID actuators which provide additional safety integrity. The complete range of pre-wired cables to suit the quick-disconnect models is listed in section 'Termination and Wiring Systems' under Pre-Wired Cables and Connections Systems.

Product Selection



	440G-MZ	440G-TLSZ	440G-LZ	440G-EZ	440G-TLS
Features					
Holding Force	2500N	2000N	1300N	500N	1500 or 2000N
Available types ⁽¹⁾	PTR or PTL	PTR or PTL	PTR or PTL	PTL only	PTR or PTL
Suitable for Whole Body Access	Yes	Yes	No	Interlocking Only	Yes
Misalignment tolerance	+/- 5mm	N/A	+/- 2.5mm	+/- 5mm	N/A
Actuator coding	Low or High	High	Low or High	Low	Low
Integrated latch	No	Yes	No	Yes	Yes
Escape release	Optional	No	No	No	Optional
Safety Outputs	OSSD or GuardLink	OSSD	OSSD	OSSD	Dual Channel EMSS
Connection Options	5-Pin only	8-Pin Only	5-Pin, 8-Pin, Cable	5-Pin and 8-Pin	Conduit, 8-Pin, 12-Pin
Safety Function					
Door position monitoring	Yes	Yes	Yes	Yes	Yes
Guard locking	Yes	Yes	Yes	Process Protection	Yes

(1) - Power to release (PTR) must be used for personnel protection unless otherwise dictated by a risk assessment as per regulations

R2101D_dSELN-502

440G-EZ Electromagnetic Safety Switch

The 440G-EZ Interlocking switch is designed to enhance machine safety and reliably help protect a working process from unplanned downtime, which will help improve productivity and increase efficiency. This safety switch combines a Power to Lock (PTL) magnetic locking function with a 500 N holding force and generous 5 mm tolerance to misalignment. Intended for use on all types of guard doors, 440G-EZ electromagnetic safety switches are TÜV certified up to Cat 4, SIL 3, PLe – the highest level of safety for guard position and lock monitoring. The 440G-EZ also features a low-profile housing design with multiple mounting (surface or flush mount) and connection options including 5-pin or 8-pin M12 micro quick disconnect pigtails for optimal installation flexibility.

Cordset options (M12 to flying lead)

- 8-pin micro (M12) QD (quick Disconnect) cordset 889D-F8AB*
- 5-pin micro (M12) QD (quick Disconnect) cordset 889D-F5AB*

(Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 8-pin micro (M12) QD (quick Disconnect) patchcord 889D-F8ABDM*
- 5-pin micro (M12) QD (quick Disconnect) patchcord 889D-F5ABDM*

(Replace * with cable length 2,5,10)

Item Description	Item Type	Catalogue No.	\$AU
440A Interlock Switch Accessories, Replacement Actuator	I	440G-EMAS	319.47
Electro-Magnetic Switch Power to Lock Standard Pigtail With M12 8-Pin	I	440G-EZS21STL05H	1,119.13
Electro-Magnetic Switch Power to Lock Standard Pigtail With M12 5-Pin	I	440G-EZS21STL05J	1,119.13



440G-EZS21STL05H

440G-LZ

Actuator spares

- Standard power-to-release actuator 440G-LZASPR
- Unique power-to-release actuator 440G-LZAUPR
- Standard power-to-lock actuator 440G-LZASPL
- Unique power-to-lock actuator 440G-LZAUPL
- Actuator Mounting bracket 440G-LZAM1
- Switch Body Bracket 440G-LZAM2

Cordset options (M12 to flying lead)

- 8pin micro (M12) QD (quick Disconnect) cordset 889D-F8AB*

(Replace * with cable length 2,5,10)

Interlock (type)	Contacts (safety / aux-iliary)	Un (V AC / V DC)	Actuator (included Y/N)	Housing (material, IP)	Connection	Item Type	Catalogue No.	\$AU
Guard Locking Switch, Power to Release	2 NC / 1 NO	24V DC	Yes, Integrated latch, standard code	ABS, IP66, IP67, IP69K	M12 x 1, DC Micro, 8-pin with pigtail		440G-LZS21SPRH	716.74
Guard Locking Switch, Power to Release	2 NC / 1 NO	24V DC	Yes, Integrated latch, unique code	ABS, IP66, IP67, IP69K	M12 x 1, DC Micro, 8-pin with pigtail	I	440G-LZS21UPRH	799.77
Guard Locking Switch, Power to Lock	2 NC / 1 NO	24V DC	Yes, Integrated latch, standard code	ABS, IP66, IP67, IP69K	M12 x 1, DC Micro, 8-pin with pigtail	I	440G-LZS21STLH	716.74
Guard Locking Switch, Power to Lock	2 NC / 1 NO	24V DC	Yes, Integrated latch, unique code	ABS, IP66, IP67, IP69K	M12 x 1, DC Micro, 8-pin with pigtail	I	440G-LZS21UPLH	799.77



440G-LZS21SPRH

440G-MT

Actuator options

- GD2 Standard 440G-A27011
- GD2 Flat 440K-A11112
- Fully Flexible 440K-A27010

Interlock (type)	Contacts (safety / aux-iliary)	Un (V AC / V DC)	Actuator (included Y/N)	Housing (material, IP)	Connection	Item Type	Catalogue No.	\$AU
Guard Locking Switch	2 NC / 2 NO	24V AC / 24V DC	No	Zinc Alloy, Die-Cast, Painted, IP67	M20 Conduit Entry	I	440G-MT47010	600.94
Guard Locking Switch, Tongue-Operated	3 NC / 1 NO	24V AC / 24V DC	No	Zinc Alloy, Die-Cast, Painted, IP67	M20 Conduit Entry		440G-MT47007	616.70



440G-MT47010

440G-MZ

The 440G-MZ Guard Locking Switches help protect personnel and are suitable for many types of guard doors, including full-sized guard doors. These switches allow whole body access to the safeguarded area, where a high holding force and a wide tolerance to guard misalignment are commonly required. Our 440G-MZ has embedded GuardLink® technology which makes it a smart device and enables premier integration.

Cordset options (M12 to flying lead)

- 8-pin micro (M12) QD (quick Disconnect) cordset 889D-F8AB*
- 5-pin micro (M12) QD (quick Disconnect) cordset 889D-F5AB*

(Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 8-pin micro (M12) QD (quick Disconnect) patchcord 889D-F8ABDM*
- 5-pin micro (M12) QD (quick Disconnect) patchcord 889D-F5ABDM*

(Replace * with cable length 2,5,10)

Item Description	Item Type	Catalogue No.	\$AU
440G-MZ Power To Lock 2PNP-SFTY 24V DC Standard-Actuator 5-PIN	I	440G-MZS20SNLJ	1,254.44
440G-MZ Power To Release 2PNP-SFTY 24V DC Standard-Actuator 5-PIN	I	440G-MZS20SNRJ	1,254.44
440G-MZ Power To Lock 2PNP-SFTY 24V DC Unique-Actuator 5-PIN	I	440G-MZS20UNLJ	1,323.58
440G-MZ Power To Release 2PNP-SFTY 24V DC Unique-Actuator 5-PIN	I	440G-MZS20UNRJ	1,323.58



440G-MZS20SNLJ

Item Description	Item Type	Catalogue No.	\$AU
440G-MZ Actuator Mounting Bracket L-Shaped	I	440G-MZAM1	96.80
440G-MZ Actuator Mounting Bracket Z-Shaped	I	440G-MZAM2	108.66
440G-MZ Body Mounting Bracket L-Shaped	I	440G-MZAM3	128.42
440G-MZ Padlock Accessory	I	440G-MZAL	262.75



440G-MZAM1

TLS-GD2

Actuator options

- GD2 Standard Actuator 440G-A27011
- GD2 Flat Actuator 440K-A11112
- Fully Flexible Actuator 440G-A27143

Cordset options (M12 to flying lead)

- 8pin micro (M12) QD (Quick Disconnect) cordset 889D-F8AB*
- 12pin M23 QD (Quick Disconnect) cordset 889M-F12AH*

(Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 8pin micro (M12) QD (Quick Disconnect) patchcord 889D-F8ABDM*

(Replace * with cable length 1,2,3,5,10)

12pin M23 QD (Quick Disconnect) patchcord 889M-F12AHMU*

(Replace * with cable length 0.3, 0.6, 1, 2, 3)

Interlock (type)	Contacts (safety / auxiliary)	Un (V AC / V DC)	Actuator (included Y/N)	Housing (material, IP)	Connection	Item Type	Catalogue No.	\$AU
Guard Locking Switch, Power to Lock	2 NC / 1 NO	24V AC / 24V DC	No	Glass-Filled PBT / Valox, IP67, IP69K	M20 Conduit Entry		440G-T27127	611.02
Guard Locking Switch, Power to Lock	2 NC / 1 NO	230V AC / 230V DC	No	Glass-Filled PBT / Valox, IP67, IP69K	1 x M20 Conduit Entry	I	440G-T27129	680.88
Guard Locking Switch, Power to Release	2 NC / 1 NO	24V AC / 24V DC	No	Glass-Filled PBT / Valox, IP67, IP69K	M20 Conduit Entry		440G-T27134	698.97
Guard Locking Switch, Power to Release	2 NC / 1 NO	230V AC / 230V DC	No	Glass-Filled PBT / Valox, IP67, IP69K	M20 Conduit Entry	I	440G-T27136	651.68
Guard Locking Switch, Power to Release	2 NC / 1 NO	24V AC / 24V DC	No	Glass-Filled PBT / Valox, IP67, IP69K	1 x M20 Conduit Entry	I	440G-T21BNPM-2B	1,126.40



440G-T27127

TLS-Z GD2 Guard Locking Switch

Actuator options

- Fully Flexible Actuator 440G-A27143

Cordset options (M12 to flying lead)

- 8pin micro (M12) QD (Quick Disconnect) cordset 889DF8AB*

(Replace * with cable length 2,5,10)

Interlock (type)	Contacts (safety / aux-iliary)	Un (V AC / V DC)	Actuator (included Y/N)	Housing (material, IP)	Connection	Item Type	Catalogue No.	\$AU
Guard Locking Switch, Power to Lock	2 NC / 1 NO	24V DC	Yes, Fully flexible tongue + RFID target	Glass-Filled PBT / Valox, IP66, IP69K	M12 x 1, DC Micro, 8-pin with pigtail		440G-TZS21UPLH	924.10
Guard Locking Switch, Power to Release	2 NC / 1 NO	24V DC	Yes, Fully flexible tongue + RFID target	Glass-Filled PBT / Valox, IP66, IP69K	M12 x 1, DC Micro, 8-pin with pigtail		440G-TZS21UPRH	924.10



440G-TZS21UPLH

Item Description	Item Type	Catalogue No.	\$AU
Standard Actuator, suitable for Trojan 5 / Trojan 6		440K-A11095	15.65
Flat Actuator, suitable for Trojan/440G-MT/TLSGD2/MT-GD2		440K-A11112	15.65
Standard Actuator, suitable for Trojan T15		440K-A11238	17.65
Elf/Cadet Flat Actuator		440K-A21014	17.65
Extended Flat Actuator, suitable for 440G-MT/TLS-GD2/Trojan/MT-GD2		440K-A17116	20.95
GD2, Standard Actuator, Trojan T15 GD2, Trojan 5/6 GD2, MT-GD2, TLS-GD2, 440G-MT		440G-A27011	26.87
Alignment Guide with Semi-Flexible Actuator, suitable T15/T15GD2/T5-6/T5-6GD2/MTGD2		440K-A11144	36.89
Alignment Guide with Fully-Flexible Actuator, suitable for TLS-GD2/Trojan/MT-GD2 Alignment Guide with Fully-Flexible Actuator		440K-A27010	44.33
GD2, Flexible Actuator, Trojan T15 GD2, Trojan 5/6 GD2, MT-GD2, TLS-GD2, 440G-MT		440G-A27143	65.30
Locking Cover for TLS-3 with external override key (for Series E and later)	I	440G-A27372	127.58
Locking Cover for TLS-3 with override key attached (for Series E and later)	I	440G-A27374	127.58
Mounting Plate	I	440K-AMDSSMPB	155.26
Flexible Release - 1 m (3.28 ft) Cable	I	440G-A27356	362.18
Flexible Release - 3 m (9.84 ft) Cable	I	440G-A27357	419.16
GD2, Sliding Bolt Actuator, Trojan T15 GD2, Trojan 5/6 GD2, MT-GD2, TLS-GD2, 440G-MT		440G-A27163	573.80
Sliding Bolt	I	440K-AMDS	843.99



440K-A17116

Mechanical Interlocks

Allen-Bradley 440K Tongue Interlock Switches

A range of tongue interlock switches are available to suit various applications. GD2 versions include a metal actuator entry point for increased robustness. Actuators are not included with the below switches; please see the accessories section for available actuators. The complete range of pre-wired cables to suit the quick-disconnect models is listed in section 'Termination and Wiring Systems' under Pre-Wired Cables and Connections Systems.

Product Selection



	Trojan™ T15	Trojan T5 and T6 ¹⁾	Elf™	Cadet™	MT-GD2
Dimensions (H x W x D)	75 x 31 x 52 mm	95 x 32 x 52 mm	75 x 25 x 29 mm	90.5 x 31 x 30.4 mm	116.5 x 38 x 40 mm
Break Contact Force	30 N	T5: 12 N typical, max. 30 N T6: 20 N	6 N	15 N	12, 32, 40 N
Safety / Auxiliary Contacts	2 N/C 1 N/C / 1 N/O	T5: 2 N/C / 1 N/O T6: 3 N/C / 1 N/O T6: 2N/C / 2 N/O	2 N/C 1 N/C / 1 N/O	3 N/C 2 N/C / 1 N/O	3 N/C / 1 N/O 2 N/C / 2 N/O
Material	Plastic with plastic or metal head (GD2)	Plastic with plastic or metal head (GD2)	Plastic with optional metal alignment guide	Plastic with optional metal alignment guide	Metal
Actuator Options	Standard and fully flexible	Standard, semi-flexible and fully flexible	Flat, 90°, and semi-flexible	Flat, 90°, and semi-flexible	Standard, semi-flexible and fully flexible

¹⁾ Four-contact models are available (Trojan 6).

R2101D_DSELN-SC

Cadet 3 Compact Plastic Switches

Actuator options

- 90° Actuator 440K-A21006
- Semi Flexible Actuator 440K-A21030
- Flat Actuator 440K-A21014

Cordset options (M12 to flying lead)

- 4pin micro (M12) QD (Quick Disconnect) cordset 889D-F4AC*
 - 6pin micro (M12) QD (Quick Disconnect) cordset 889D-F6ECA*
- (Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 4pin micro (M12) QD (Quick Disconnect) patchcord 889D-F4ACDM*
 - 6pin micro (M12) QD (Quick Disconnect) patchcord 889D-F6ECRM*
- (Replace * with cable length 1,2,3,5,10)



440K-C21055

Interlock (type)	Contacts (safety / auxiliary)	Actuator (included Y/N)	Housing (Housing)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Tongue Interlock Switch	2 NC / 1 NO	No	Glass-Filled PBT / Valox	IP67	M16 Conduit Entry		440K-C21055	74.23
Tongue Interlock Switch	3 NC /	No	Glass-Filled PBT / Valox	IP67	M16 Conduit Entry	I	440K-C21070	74.23

Elf Miniature Plastic Switches

Actuator options

- 90° 440K-A21006
- Semi Flexible 440K-A21030
- Flat 440K-A21014

Cordset options (M12 to flying lead)

- 4pin micro (M12) QD (Quick Disconnect) cordset 889D-F4AC*
 - 6pin micro (M12) QD (Quick Disconnect) cordset 889D-F6ECA*
- (Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 4pin micro (M12) QD (Quick Disconnect) patchcord 889D-F4ACDM*
 - 6pin micro (M12) QD (Quick Disconnect) patchcord 889D-F6ECRM*
- (Replace * with cable length 1,2,3,5,10)

Interlock (type)	Contacts (safety / auxiliary)	Actuator (included Y/N)	Housing (Housing)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Tongue Interlock Switch	1 NC / 1 NO	No	Glass-Filled PBT / Valox	IP67	M16 Conduit Entry		440K-E33014	61.99
Tongue Interlock Switch	2 NC /	No	Glass-Filled PBT / Valox	IP67	M16 Conduit Entry		440K-E33047	61.99



440K-E33047

MT-GD2 Metal Body Switches

Actuator options

- GD2 Standard Actuator 440G-A27011
- GD2 Flat Actuator 440K-A11112
- Fully Flexible Actuator 440K-A27010

Cordset options (M12 to flying lead)

- 12-pin (M23) QD (Quick Disconnect) Cordset 889MFX9AE*
- (Replace * with cable length 2,5,10)

Interlock (type)	Contacts (safety / auxiliary)	Actuator (included Y/N)	Housing (Housing)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Tongue Interlock Switch, GD2	3 NC / 1 NO	No	Zinc, Painted	IP67	M20 Conduit Entry		440K-MT55002	163.54
Tongue Interlock Switch, Tongue Interlock Switch	3 NC / 1 NO	No	Zinc, Painted	IP67	M20 Conduit Entry		440K-MT55039	197.59



440K-MT55002

Trojan 5 Standard Plastic Switches

Actuator options

- GD2 Standard Actuator 440G-A27011
- T5 Standard Actuator 440K-A11095
- GD2 Flat Actuator 440K-A11112
- Fully Flexible Actuator 440K-A27010

Cordset options (M12 to flying lead)

- 6pin micro (M12) QD (Quick Disconnect) cordset 889D-F6ECA*
- (Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 6pin micro (M12) QD (Quick Disconnect) patchcord 889D-F6ECRM*
- (Replace * with cable length 1,2,3,5,10)

Interlock (type)	Contacts (safety / auxiliary)	Actuator (included Y/N)	Housing (Housing)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Tongue Interlock Switch	2 NC / 1 NO	No	Glass-Filled PBT / Valox	IP67	M20 Conduit Entry		440K-T11089	89.38
Tongue Interlock Switch, GD2	2 NC / 1 NO	No	Glass-Filled PBT / Valox	IP67	M20 Conduit Entry		440K-T11147	112.02



440K-T11089

Trojan 6

Actuator options

- GD2 Standard Actuator 440G-A27011
- T5 Standard Actuator 440K-A11095
- GD2 Flat Actuator 440K-A11112
- Fully Flexible Actuator 440K-A27010

Cordset options (M12 to flying lead)

- 6pin micro (M12) QD (Quick Disconnect) cordset 889DF6ECA*
- (Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 6pin micro (M12) QD (Quick Disconnect) patchcord 889DF6ECRM*
- (Replace * with cable length 1,2,3,5,10)



440K-T11459

Interlock (type)	Contacts (safety / auxiliary)	Actuator (included Y/N)	Housing (Housing)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Tongue Interlock Switch	3 NC / 1 NO	No	Glass-Filled PBT / Valox	IP67	M20 Conduit Entry		440K-T11449	142.29
Tongue Interlock Switch, GD2	3 NC / 1 NO	No	Glass-Filled PBT / Valox	IP67	M20 Conduit Entry		440K-T11188	169.70
Tongue Interlock Switch	2 NC / 2 NO	No	Glass-Filled PBT / Valox	IP67	M20 Conduit Entry	I	440K-T11459	169.70

Trojan T15 Standard Plastic Switches

Actuator options

- GD2 Standard Actuator 440G-A27011
- T15 Standard Actuator 440K-A11238
- GD2 Flat Actuator 440K-A11112
- Fully Flexible Actuator 440K-A27010

Cordset options (M12 to flying lead)

- 4pin micro (M12) QD (Quick Disconnect) cordset 889D-F4AC*
- (Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 4pin micro (M12) QD (Quick Disconnect) patchcord 889D-F4ACDM*
- (Replace * with cable length 1,2,3,5,10)



440K-T11279

Interlock (type)	Contacts (safety / auxiliary)	Actuator (included Y/N)	Housing (Housing)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Tongue Interlock Switch	2 NC /	No	Glass-Filled PBT / Valox	IP67	M20 Conduit Entry		440K-T11269	77.28
Tongue Interlock Switch, GD2	1 NC / 1 NO	No	Glass-Filled PBT / Valox	IP67	M20 Conduit Entry		440K-T11279	98.46
Tongue Interlock Switch, GD2	2 NC /	No	Glass-Filled PBT / Valox	IP67	M20 Conduit Entry		440K-T11280	98.46

Non-Contact Interlocks

Allen-Bradley 440N Non-Contact Interlock Switches

- Extensive range of different housing styles and mounting options
- RFID coded devices available
- Stainless steel versions available which are suitable for use in harsh environments
- Plastic or metal housing versions available
- Cabling for this range can be found in **Section 12 "Terminals and Pre-Wired Cables"**

Non-contact interlocks involve no physical contact between the switch and actuator under normal conditions. This gives non-contact interlocks more tolerance to misalignment than other types of interlocks, allowing them to be used in a wide range of door interlocking applications.



SensaGuard

SensaGuard™ Non-contact Interlock Switches feature the latest generation of RFID technology for coding and inductive technology for sensing. These switches have a large sensing range and tolerance to misalignment. SensaGuard is rated to Cat 4/SIL 3 and maintains this rating even with multiple units connected in series. The complete range of pre-wired cables to suit the quick-disconnect models is listed in section 'Termination and Wiring Systems' under Pre-Wired Cables and Connections Systems.

Cordset Options (M12 to flying lead)

- 8pin micro (M12) QD (Quick Disconnect) cordset 889D-F8AB*

(Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 8pin micro (M12) QD (Quick Disconnect) patchcord 889D-F8ABDM*

(Replace * with cable length 1,2,3,5,10)

Rectangular Housing

Sensing Distance (mm)	Contacts (safety)	Contacts (auxiliary)	Actuator (included Y/N)	Housing (material, IP)	Connection	Item Type	Catalogue No.	\$AU
18	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, standard code	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 3m		440N-Z21SS2AN	342.54
18	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, standard code	PBT / PBTP / Valox, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m		440N-Z21SS2HN	342.54
18	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, unique code	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 3m	I	440N-Z21US2AN	416.18
18	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, unique code	PBT / PBTP / Valox, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m		440N-Z21US2HN	416.18
18	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, standard code	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 3m		440N-Z21SS2AN9	403.94
18	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, standard code	PBT / PBTP / Valox, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m		440N-Z21SS2HN9	403.94
18	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, unique code	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 3m	I	440N-Z21US2AN9	477.34
18	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, unique code	PBT / PBTP / Valox, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m	I	440N-Z21US2HN9	477.34



440N-Z21SS2AN

Rectangular Housing with Integrated Magnetic Latch

Sensing Distance (mm)	Contacts (safety)	Contacts (auxiliary)	Actuator (included Y/N)	Housing (material, IP)	Connection	Item Type	Catalogue No.	\$AU
15	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, standard code, magnetic hold	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 3m	I	440N-Z21SS3PA	369.34
15	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, standard code, magnetic hold	PBT / PBTP / Valox, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m	I	440N-Z21SS3PH	369.34
15	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, Rectangular RFID, standard code, magnetic hold	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 10m	I	440N-Z21SS3PB	422.10



440N-Z21SS3PA



440N-Z21S17A

Cylindrical Housing Stainless Steel

Sensing Distance (mm)	Contacts (safety)	Contacts (auxiliary)	Actuator (included Y/N)	Housing (material, IP)	Connection	Item Type	Catalogue No.	\$AU
10	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, standard code	Stainless Steel, IP69K	Built-in cable with flying leads, 3m		440N-Z21S17A	472.15
10	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, standard code	Stainless Steel, IP69K	Built-in cable with flying leads, 10m		440N-Z21S17B	520.85
10	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, standard code	Stainless Steel, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m		440N-Z21S17H	472.15
10	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, unique code	Stainless Steel, IP69K	Built-in cable with flying leads, 3m	I	440N-Z21U17A	546.25
10	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, unique code	Stainless Steel, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m		440N-Z21U17H	569.54



440N-Z21S16A

Cylindrical Housing Plastic

Sensing Distance (mm)	Contacts (safety)	Contacts (auxiliary)	Actuator (included Y/N)	Housing (material, IP)	Connection	Item Type	Catalogue No.	\$AU
15	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, standard code	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 3m		440N-Z21S16A	296.41
15	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, standard code	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 10m		440N-Z21S16B	345.11
15	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, standard code	PBT / PBTP / Valox, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m		440N-Z21S16H	296.41
15	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, unique code	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 3m	I	440N-Z21U16A	370.52
15	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, unique code	PBT / PBTP / Valox, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m	I	440N-Z21U16H	370.52
25	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 30mm circular RFID, standard code	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 3m	I	440N-Z21S26A	370.52
25	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 30mm circular RFID, standard code	PBT / PBTP / Valox, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m		440N-Z21S26H	370.52
15	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, unique code	PBT / PBTP / Valox, IP69K	Built-in cable with flying leads, 3m	I	440N-Z21U26A	444.62
15	2 x PNP, 0.2A, DC PNP (Source), Dual	1 x PNP, 0.2A, DC PNP (Source)	Yes, 18mm circular RFID, unique code	PBT / PBTP / Valox, IP69K	M12 x 1, DC Micro, 8-pin with pigtail, 0.15m	I	440N-Z21U26H	444.62

Magnetically Coded

Magnetically Coded Non-contact Interlock Switches are extremely versatile and simple to install. For high-risk applications, the control unit is used with a single sensor to give a high-integrity system. The complete range of pre-wired cables to suit the quick-disconnect models is listed in section 'Termination and Wiring Systems' under Pre-Wired Cables and Connections Systems.

Cordset options (M12 to flying lead)

- 4-pin micro (M12) QD (quick Disconnect) cordset 889D-F4AC*
 - 8-pin micro (M12) QD (quick Disconnect) cordset 889D-F8AB*
- (Replace * with cable length 2,5,10)

Patchcord options (two M12 connectors)

- 4-pin micro (M12) QD (quick Disconnect) patchcord 889D-F4ACDM*
 - 8-pin micro (M12) QD (quick Disconnect) patchcord 889D-F8ABDM*
- (Replace * with cable length 1,2,3,5,10)

MC1



440N-Z2NRS1A

Sensing Distance (mm)	Contacts (safety / auxiliary)	Un (V AC / V DC)	Housing (material, IP)	Connection	Item Type	Catalogue No.	\$AU
8	2 NC /	24V DC	ABS, IP67	Built-in cable with flying leads, 3m		440N-Z2NRS1A	142.56
8	2 NC /	24V DC	ABS, IP67	M12 x 1, DC Micro, 4-pin, 0.15m		440N-Z2NRS1C	142.56
8	2 NC /	24V DC	ABS, IP67	Built-in cable with flying leads, 10m		440N-Z2NRS1B	190.12

MC2

Sensing Distance (mm)	Contacts (safety / auxiliary)	Un (V AC / V DC)	Housing (material, IP)	Connection	Item Type	Catalogue No.	\$AU
10	2 NC / 1 x PNP, 0.2A	24V DC	ABS, IP69K	Built-in cable with flying leads, 3m		440N-Z21W1PA	216.19
10	2 NC / 1 x PNP, 0.2A	24V DC	ABS, IP69K	M12 x 1, DC Micro, 4-pin, 0.15m		440N-Z21W1PH	216.19
10	2 NC / 1 x PNP, 0.2A	24V DC	ABS, IP69K	Built-in cable with flying leads, 10m		440N-Z21W1PB	263.74



Accessories

Item Description	Item Type	Catalogue No.	\$AU
Replacement Actuator for Ferrogard 1, 2, 3, 4, 5, 20 & 21		440N-A02005	90.52
Sensagard, Large Rectangular Plastic Actuator for Standard Coded Models		440N-ZPREC	103.34
Sensagard, 18mm Stainless Steel Actuator for Standard Coded Models		440N-Z18SST	154.76



Looking for pre-wired cables and interface modules?

See the **Pre-Wired Cables and Connection Systems** range in the **TERMINATION AND WIRING SYSTEMS** section.

N3201D_dADVE-S01

Key Exchange Interlocks

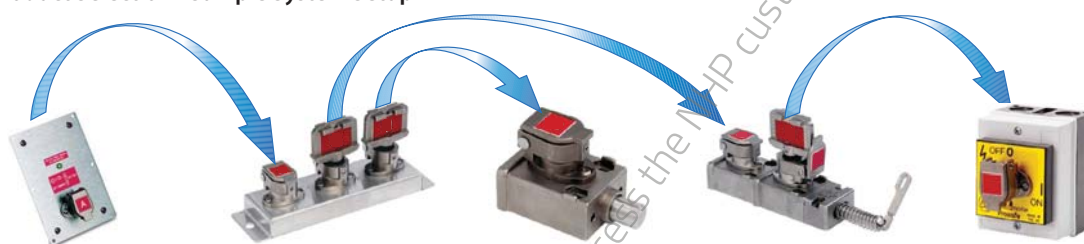
Allen-Bradley 440T Prosafe Trapped Key Interlocks



- Available in a wide range of code configurations
- Replaceable and easy to clean code barrels
- Robust 316 stainless steel construction
- Primary keys in release secondary keys simultaneously
- Weatherproof stainless steel dust cap

Prosafe trapped key switches allow for sequence of operation control, providing safety in applications where electrical interlocking systems are not suitable. Prosafe trapped key switches feature full stainless steel construction and are rated to 100,000 mechanical operations.

Product Selection - Sample System Setup



AA	AA AB AB	AB	AB AC	AC
Select Isolating Unit , AA key removed	Select key exchange unit , primary AA key inserted, both AB keys removed from unit	AB key inserted into access device used to protect guard door	Other AB key inserted into access device as AC key out to open guard door	AC key inserted into rotary key switch to send signal to machine

Selection Steps for Sample System ¹⁾

- Step 1: Select an Isolation unit e.g. **440T-MSRUE11AA**. The unit isolates power to the hazard after which the trapped key (**AA**) is removed and inserted in to the key exchange. These units are not supplied with keys included.
- Step 2: Select key exchange unit. Specify the total number of keys to be used and select part number for e.g. **440T-MKEXE11AAABAB** ²⁾ which is a 3-way exchange unit. Primary key is inserted into vacant barrel and trapped prompting secondary trapped keys to be removed. Specify key codes at the end of the part number above. Primary key not supplied, Secondary key supplied.
- Step 3: Specify the Standard Bolt Interlock e.g. **440T-MSBLE10AB**, used to interlock an operator handle or control element of a switching device. In dual key units, the secondary key is taken out and can be used as a personal key for safety purposes. Single key units do not include any key whereas in dual units the primary key is not included but the secondary key is.
- Step 4: Specify the access device e.g. **440T-MDALE10ABAC**, used to open the protective guard for access to hazard area. In dual key units, the secondary key is taken out and can be used as a personal key for safety purposes. Single key units do not include any key whereas in dual units the primary key is not included but the secondary key is.
- Step 5: Select the Rotary Switches e.g. **440TMRKSE11AC**.
- Step 6: Add any trapped keys (**440T-AKEYE10XX**) ¹⁾ that may be required.

To create your own system use the relevant key codes for the application. The Preferred Key Code table below shows more readily available keys. Other key codes are also available, contact NHP for more information.

Preferred Key Codes Table

AA	AB	AC	AD	AE	AF	AG
BA	BB	BC	BD	BE	BF	BG
CA	CB	CC	CD	CE	CF	CG
DA	DB	DC	DD	DE	DF	DG
EA	EB	EC	ED	EE	EF	EG
FA	FB	FC	FD	FE	FF	FG
GA	GB	GC	GD	GE	GF	GG

Notes:

1) Swap XX for the relevant key code(s).

2) Refer to the Key Exchange Units table for other variations or contact NHP.

R2301D_dCHRT-501

Key Exchange Units

When ordering an exchange unit, all key codes must be added at the end of the part number in place of the ? symbol.

Example:

To order a 3-way exchange system with an "AA" key in and two "BA" keys out, the part number would be 440T-MKEXE11AABABA. The two "BA" keys are included. The "AA" key must be ordered separately.

Item Description	Item Type	Catalogue No.	\$AU
2 Way Key Exchange Unit 1 in 1 out, Secondary Keys Included	I	440TMKEXE10?	1,141.15
4 Way Key Exchange Unit 1 in 3 out, Secondary Keys Included	I	440TMKEXE12?	1,777.60
5 Way Key Exchange Unit 1 in 4 out, Secondary Keys Included	I	440TMKEXE13?	2,099.44
6 Way Key Exchange Unit 1 in 5 out, Secondary Keys Included	I	440TMKEXE14?	2,570.11
4 Way Key Exchange Unit 2 in 2 out, Secondary Keys Included	I	440TMKEXE15?	1,777.60
5 Way Key Exchange Unit 2 in 3 out, Secondary Keys Included	I	440TMKEXE16?	2,099.44
6 Way Key Exchange Unit 2 in 4 out, Secondary Keys Included	I	440TMKEXE17?	2,570.11
6 Way Key Exchange Unit 3 in 3 out, Secondary Keys Included	I	440TMKEXE18?	2,570.11
7 Way Key Exchange Unit 1 in 6 out, Secondary Keys Included	I	440TMKEXE19?	3,369.86
8 Way Key Exchange Unit 1 in 7 out, Secondary Keys Included	I	440TMKEXE20?	3,852.70
9 Way Key Exchange Unit 1 in 8 out, Secondary Keys Included	I	440TMKEXE22?	4,337.96



440TMKEXE10?

Access Lever / Chain Interlocks

Access locks are used to prevent access to a door, gate or hinged guard.

For ordering a Single key lever lock unit the base part number used is 440T-MSALE10x and for dual key unit is 440T-MDALE10xy

For ordering a Single key chain lock unit the base part number used is 440T-MSCLE10x and for a dual key unit is 440T-MDCLE10xy

*x is the primary key code and y is the secondary key code

Chain locks

Single Key

Key Trap (type)	Actuator	KeyCode 1	Item Type	Catalogue No.	\$AU
Single Key	Solid rod with chain	A	I	440T-MSCLE100A	607.17



440T-MSCLE100A

Dual Key

Key Trap (type)	Actuator	KeyCode 1	KeyCode 2	Item Type	Catalogue No.	\$AU
Dual Key	Solid rod with chain	AA	BB	I	440T-MDCLE10AAAB	1,233.79



440T-MDCLE10AAAB

Lever locks

Single Key

Key Trap (type)	Trapped Key (condition)	Actuator	KeyCode 1	Item Type	Catalogue No.	\$AU
Single Key	Key Trapped to Release Actuator	Lever rod with spring	0A	I	440T-MSALE100A	582.78



440T-MSALE100A

Dual Key

Key Trap (type)	Actuator	KeyCode 1	KeyCode 2	Item Type	Catalogue No.	\$AU
Dual Key	Lever rod with spring	AA	BA	I	440T-MDALE10AAAB	1,233.79



440T-MDALE10AAAB

Bolt Interlocks

Bolt interlocks are used to interlock an operator handle or control element of a switching device as the extended bolt blocks operator movement.

The base part number for ordering a single key is 440T-MSBLE10x and dual key is 440T-MDBLE14xy.

*x is the primary key code and y is the secondary key code.

Standard Bolt locks

Single Key



440T-MSBLE10AA

Key Trap (type)	Trapped Key (condition)	Bolt Range (retracted-extended)	KeyCode 1	Item Type	Catalogue No.	\$AU
Single Key	Key Trapped to Retract Bolt	0 - 14mm	AA	I	440T-MSBLE10AA	546.21

Dual key



440T-MDBLE10AAAB

Key Trap (type)	Bolt Range (retracted-extended)	Item Type	Catalogue No.	\$AU
Dual Key	0 - 14mm	I	440T-MDBLE10AAAB	1,233.79

Rotary switches

Rotary switches are electrical isolators which remove power to the hazard.

The base part number for an enclosed switch is 440T-MRKSE11x and panel mounted switch is 440T-MRPSE11x.

*x is the primary key code.

Enclosed



440T-MRKSE11AA

Key Trap (type)	Mounting	Contacts	In (A)	KeyCode 1	Item Type	Catalogue No.	\$AU
Rotary Key Switch	Enclosed	2 NO + 2 NC	20	AA	I	440T-MRKSE11AA	787.62

Slamlock electrical

Single Key



440T-MSSSE10AA

Key Trap (type)	Trapped Key (condition)	Actuator	Contacts	KeyCode 1	Item Type	Catalogue No.	\$AU
Single Key	Key Trapped to Release Actuator	Standard (fixed) tongue	1 NO + 2 NC	AA	I	440T-MSSSE10AA	1,241.11

Dual Key



440T-MDSSE10AAAB

Key Trap (type)	Actuator	Contacts	Item Type	Catalogue No.	\$AU
Dual Key	Standard (fixed) tongue	1 NO + 2 NC	I	440T-MDSSE10AAAB	2,038.50

Slamlock mechanical

Single Key

Key Trap (type)	Actuator	Item Type	Catalogue No.	\$AU
Single Key	Standard (fixed) tongue	I	440T-MSSLE10AA	1,085.10



440T-MSSLE10AA

Dual Key

Key Trap (type)	Actuator	Item Type	Catalogue No.	\$AU
Dual Key	Standard (fixed) tongue	I	440T-MDSLE10AAAB	1,730.00



440T-MDSLE10AAAB

Solenoid release units

Solenoid release units will release a trapped key upon receiving an external electrical signal indicating that the hazard has been isolated.

The base part number for a 24V DC unit is 440T-MSRUE11x and 230V AC unit is 440T-MSRUE33x.

*x is the primary key code.

Single Key

Key Trap (type)	Solenoid (V AC / V DC)	Contacts	In (A)	KeyCode 1	Item Type	Catalogue No.	\$AU
Single Key	24V DC	2 NO + 2 NC	20	AA	I	440T-MSRUE11AA	1,760.55
Single Key	240V AC	2 NO + 2 NC	20	AA	I	440T-MSRUE33AA	1,760.55



440T-MSRUE33AA

Electronic timed-delay units

Item Description	Item Type	Catalogue No.	\$AU
Single key time delay unit 24V DC 2N/O 1N/C 20A Code AA	I	440T-MSTUE11AA	3,282.10



440T-MSTUE11AA

Accessories

Standard Keys

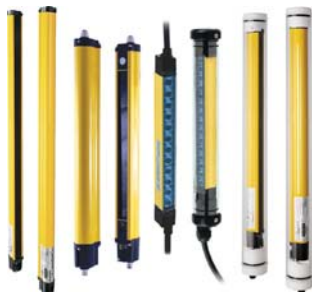
Item Description	Item Type	Catalogue No.	\$AU
Prosafe, standard key code, A		440T-AKEYE100A	95.06
Prosafe, standard key code, AA		440T-AKEYE10AA	95.06



440T-AKEYE10AA

Light Curtains

Allen-Bradley 440L and 445L Light Curtains



- Available in a range of resolutions including finger, hand, limb and full body detection
- A practical alternative to guarding in applications where frequent and easy access to a hazard may be required
- Type 2 or Type 4 options
- Specialised versions with IP69k rating available for high-pressure wash-down applications in the food and beverage industry
- External Device Monitoring (EDM) versions available
- Cabling for this range can be found in **Section 12 "Terminals and Pre-Wired Cables"**

Safety light curtains are photoelectric presence sensors specifically designed to protect personnel from injuries related to hazardous machine motion. Light curtains offer optimal safety, yet they allow for greater productivity and are the more ergonomically sound solution when compared to mechanical guards.

Perimeter Access Control Light Curtains (PAC)

PAC safety light curtains are used as whole body detection devices for detection of personnel or large objects when they pass through the sensing field.

445L GuardShield Safe4 PAC

Protected Height / Beams (mm / qty)	Sensing Distance (mm)	Unom (V DC)	Safety Rating (Cat / PL)	IP Rating	Connector (emitter / receiver)	Item Type	Catalogue No.	\$AU
600mm / 2 beams	5,000 - 30,000mm	24V DC	PLe	IP65	DC Micro 5-pin M12	I	445L-P4S2500YD	1,098.88
840mm / 3 beams	5,000 - 30,000mm	24V DC	Cat 4 / PLe	IP65	DC Micro 5-pin M12		445L-P4S3400YD	1,294.44
960mm / 4 beams	5,000 - 30,000mm	24V DC	PLe	IP65	DC Micro 5-pin M12	I	445L-P4S4120YD	1,452.75

Area Access Control Light Curtains (AAC)

AAC uses a single beam emitter and receiver unit to create a protective barrier around potentially dangerous areas e.g robotic cells, transfer stations, palletizers and loading machines.

440L Area Access Control

Type	Sensing Distance (mm)	Unom (V DC)	Safety Rating (Cat / PL)	IP Rating	Connector	Item Type	Catalogue No.	\$AU
Light Curtain Emitter	0 - 70,000mm	24V DC	Cat 4 / PLe	IP67	PG13.5 cable entry		440L-T4F2070-Q	490.10
Light Curtain Receiver	500 - 20,000mm	24V DC	Cat 4 / PLe	IP67	PG13.5 cable entry		440L-R4F0020-Q	749.10

7

445L-P4S3400YD

440L-R4F0020-Q

Light Curtains

Allen-Bradley 450L POC Light Curtains

The 450L GuardShield™ POC safety light curtains broadens the scope of traditional safety light curtains through their newer technology, which are based on separate transmitter and receiver units. This patented technology allows each transceiver to be used as a transmitter or receiver via an innovative plug-in module. The 450L-B is the basic model with on/off functionality. The advanced 450L-E model features integrated laser alignment, cascading, blanking, and integrated muting and is configurable via CCW using the OID.

Cordset options (M12 to flying lead)

8-pin micro (M12) QD (Quick Disconnect) cordset 889D-F8AB*

5-pin micro (M12) QD (Quick Disconnect) cordset 889D-F5BC*

(Replace * with cable length 2,5,10,15,20,30)

Product Selection

Step 01: Select two identical Transceiver Sticks, in either 14mm Finger Resolution or 30mm Hand Resolution

Step 02: Select Plug-In Transmitter

Step 03: Select Plug-In Receiver

Basic 14mm Resolution

Item Description	Item Type	Catalogue No.	\$AU
450L Safety Light Curtain Transceiver MOD 150mm RES 14mm	I	450L-B4FN0150YD	365.76
450L Safety Light Curtain Transceiver MOD 300mm RES 14mm	I	450L-B4FN0300YD	551.67
450L Safety Light Curtain Transceiver MOD 450mm RES 14mm		450L-B4FN0450YD	767.00
450L Safety Light Curtain Transceiver MOD 600mm RES 14mm	I	450L-B4FN0600YD	981.18
450L Safety Light Curtain Transceiver MOD 750mm RES 14mm	I	450L-B4FN0750YD	1,197.52
450L Safety Light Curtain Transceiver MOD 900mm RES 14mm		450L-B4FN0900YD	1,412.76
450L Safety Light Curtain Transceiver MOD 1050mm RES 14mm	I	450L-B4FN1050YD	1,627.23
450L Safety Light Curtain Transceiver MOD 1200mm RES 14mm		450L-B4FN1200YD	1,842.48
450L Safety Light Curtain Transceiver MOD 1350mm RES 14mm	I	450L-B4FN1350YD	2,058.29
450L Safety Light Curtain Transceiver MOD 1500mm RES 14mm		450L-B4FN1500YD	2,274.03
450L Safety Light Curtain Transceiver MOD 1650mm RES 14mm	I	450L-B4FN1650YD	2,489.42
450L Safety Light Curtain Transceiver MOD 1800mm RES 14mm	I	450L-B4FN1800YD	2,704.95
450L Safety Light Curtain Transceiver MOD 1950mm RES 14mm	I	450L-B4FN1950YD	2,920.12

Basic 30mm Resolution

Item Description	Item Type	Catalogue No.	\$AU
450L Safety Light Curtain Transceiver MOD 150mm RES 30mm	I	450L-B4HN0150YD	326.60
450L Safety Light Curtain Transceiver MOD 300mm RES 30mm	I	450L-B4HN0300YD	480.72
450L Safety Light Curtain Transceiver MOD 450mm RES 30mm		450L-B4HN0450YD	665.73
450L Safety Light Curtain Transceiver MOD 600mm RES 30mm		450L-B4HN0600YD	851.20
450L Safety Light Curtain Transceiver MOD 750mm RES 30mm	I	450L-B4HN0750YD	1,037.63
450L Safety Light Curtain Transceiver MOD 900mm RES 30mm		450L-B4HN0900YD	1,224.10
450L Safety Light Curtain Transceiver MOD 1050mm RES 30mm	I	450L-B4HN1050YD	1,411.17
450L Safety Light Curtain Transceiver MOD 1200mm RES 30mm		450L-B4HN1200YD	1,596.39
450L Safety Light Curtain Transceiver MOD 1350mm RES 30mm	I	450L-B4HN1350YD	1,782.20
450L Safety Light Curtain Transceiver MOD 1500mm RES 30mm		450L-B4HN1500YD	1,970.53
450L Safety Light Curtain Transceiver MOD 1650mm RES 30mm	I	450L-B4HN1650YD	2,155.90
450L Safety Light Curtain Transceiver MOD 1800mm RES 30mm		450L-B4HN1800YD	2,342.68
450L Safety Light Curtain Transceiver MOD 1950mm RES 30mm	I	450L-B4HN1950YD	2,528.01



450L-B4FN0150YD



450L-B4HN0150YD

Enhanced 14mm Resolution (Step 01)



450L-E4FL0150YD

Item Description	Item Type	Catalogue No.	\$AU
Enhanced Safety Light Curtain Transceiver 150mm Resolution 14mm	I	450L-E4FL0150YD	519.08
Enhanced Safety Light Curtain Transceiver 300mm Resolution 14mm		450L-E4FL0300YD	745.81
Enhanced Safety Light Curtain Transceiver 450mm Resolution 14mm		450L-E4FL0450YD	971.87
Enhanced Safety Light Curtain Transceiver 600mm Resolution 14mm		450L-E4FL0600YD	1,198.11
Enhanced Safety Light Curtain Transceiver 750mm Resolution 14mm	I	450L-E4FL0750YD	1,424.08
Enhanced Safety Light Curtain Transceiver 900mm Resolution 14mm		450L-E4FL0900YD	1,649.95
Enhanced Safety Light Curtain Transceiver 1050mm Resolution 14mm	I	450L-E4FL1050YD	1,876.56
Enhanced Safety Light Curtain Transceiver 1200mm Resolution 14mm		450L-E4FL1200YD	2,120.62
Enhanced Safety Light Curtain Transceiver 1350mm Resolution 14mm	I	450L-E4FL1350YD	2,369.02
Enhanced Safety Light Curtain Transceiver 1500mm Resolution 14mm		450L-E4FL1500YD	2,621.19
Enhanced Safety Light Curtain Transceiver 1650mm Resolution 14mm	I	450L-E4FL1650YD	2,878.18
Enhanced Safety Light Curtain Transceiver 1800mm Resolution 14mm	I	450L-E4FL1800YD	3,139.21
Enhanced Safety Light Curtain Transceiver 1950mm Resolution 14mm	I	450L-E4FL1950YD	3,403.64

Enhanced 30mm Resolution (Step 01)



450L-E4HL0150YD

Item Description	Item Type	Catalogue No.	\$AU
Enhanced Safety Light Curtain Transceiver 150mm Resolution 30mm	I	450L-E4HL0150YD	472.67
Enhanced Safety Light Curtain Transceiver 300mm Resolution 30mm		450L-E4HL0300YD	669.30
Enhanced Safety Light Curtain Transceiver 450mm Resolution 30mm		450L-E4HL0450YD	865.59
Enhanced Safety Light Curtain Transceiver 600mm Resolution 30mm		450L-E4HL0600YD	1,061.80
Enhanced Safety Light Curtain Transceiver 750mm Resolution 30mm	I	450L-E4HL0750YD	1,256.65
Enhanced Safety Light Curtain Transceiver 900mm Resolution 30mm		450L-E4HL0900YD	1,452.72
Enhanced Safety Light Curtain Transceiver 1050mm Resolution 30mm		450L-E4HL1050YD	1,649.21
Enhanced Safety Light Curtain Transceiver 1200mm Resolution 30mm		450L-E4HL1200YD	1,861.03
Enhanced Safety Light Curtain Transceiver 1350mm Resolution 30mm	I	450L-E4HL1350YD	2,075.61
Enhanced Safety Light Curtain Transceiver 1500mm Resolution 30mm		450L-E4HL1500YD	2,295.26
Enhanced Safety Light Curtain Transceiver 1650mm Resolution 30mm	I	450L-E4HL1650YD	2,517.08
Enhanced Safety Light Curtain Transceiver 1800mm Resolution 30mm		450L-E4HL1800YD	2,743.12
Enhanced Safety Light Curtain Transceiver 1950mm Resolution 30mm	I	450L-E4HL1950YD	2,972.67

Plug-In Transmitters (Step 02)

Order one transmitter and one receiver plug-in with the desired functionality for one system - or - Order two universal plug-ins for one system. Each universal plug-in can be used as a transmitter or a receiver. Cables 889DF5BC5 (5-pin modules) & 889DF8AB5 (8-pin modules) are required accessories for installation, please contact NHP for more information.



450L-APT-PW-5

Item Description	Item Type	Catalogue No.	\$AU
450L Plug-In Transmitter Module 5-Pin M12-M Connection		450L-APT-PW-5	115.48
450L Plug-In Transmitter Module 8-Pin M12-M Connection		450L-APT-PW-8	125.14

Plug-In Universal Transmitter or Receiver (Step 02 and 03)



450L-APU-UN-8

Item Description	Item Type	Catalogue No.	\$AU
450L Plug-In Transmitter/Receiver Module 8-Pin M12-M Connection		450L-APU-UN-8	216.86

Plug-In Receivers (Step 03)



450L-APR-ON-5

Item Description	Item Type	Catalogue No.	\$AU
450L Plug-In Receiver Module, ON/OFF, 5-Pin M12-M Connection		450L-APR-ON-5	171.13
450L Plug-In Receiver Module, EDM/RESET/SCANNING, 8-Pin M12-M Connection		450L-APR-ED-8	206.40
450L Plug-In Receiver Module, BLANKING, 5-Pin M12-M Connection		450L-APR-BL-5	304.38
450L Plug-In Receiver Module, EDM/MUTING/BLANKING, 8-Pin M12-M Connection		450L-APR-MU-8	344.89
450L Plug-In Receiver Module, CASCADING, 8-Pin M12-M Connection		450L-APC-IO-8	325.29
450L CIP Safety Over EtherNet/IP Receiver Module	I	450L-APR-EN-8	254.73

450L Accessories

Mounting Accessories

Item Description	Item Type	Catalogue No.	\$AU
Top/Bottom Mounting Kit (two per kit, one kit shipped with each tranceiver stick)	I	450L-AM-TBM	20.51
Side Mounting Kit (two brackets included)		450L-AM-SM	32.53
Mounting Bracket for Laser Alignment Aid (440L-ALAT)		450L-ALAT-C	33.97
GuardShield laser alignment tool		440L-ALAT	489.78
450L CIP Safety Over EtherNet/IP Network Interface Module	I	450L-ENETR	748.32



450L-ALAT-C

Optical Interface

Item Description	Item Type	Catalogue No.	\$AU
Optical Interface Tool CCW Diagnostics		450L-AD-OID	122.41



450L-AD-OID

Laser Scanner

Allen-Bradley Safezone Laser Scanners



- Configurable safety field provides flexibility in applications
- Outer warning field helps prevent accidental or nuisance tripping
- Suits stationary or mobile applications
- Integrated External Device Monitoring (EDM) - external safety relay not required
- 7-segment display for easy diagnostics

Safety Laser Scanners feature a configurable scanning field for the detection of personnel or objects. The outer warning field can be used to trigger an audible alarm or warning light, while the inner safety field will trigger the operation of the safety system. Laser scanners are suitable for a wide range of applications including horizontal, vertical, stationary and mobile applications.

SafeZone Mini Safety Laser Scanner

SafeZone™ mini scanners have a single configurable safety field and two warning fields with a scanning angle of 270°. The second warning field can be configured through one of the configurable I/O.

Item Description	Item Type	Catalogue No.	\$AU
Safezone mini safety laser scanner	I	442L-SFZNMN	4,520.28
SafeZone Mini, Scanner, 3m safety field	I	442L-SFZNMN3	4,773.05



442L-SFZNMN

SafeZone Mini Cables

Item Description	Item Type	Catalogue No.	\$AU
SafeZone Mini, M12 Shielded 8-conductor cordset, 2.5m		442L-ACABL2	86.49
SafeZone Mini, M12 Shielded 8-conductor cordset, 10m		442L-ACABL10	136.52



442L-ACABL2

SafeZone Mini Mounting Brackets

Item Description	Item Type	Catalogue No.	\$AU
SafeZone Mini, mounting bracket 1 for direct mounting		442L-AMBSZMN1	65.00
SafeZone Mini, mounting bracket 2 for optical cover mounting		442L-AMBSZMN2	71.66
SafeZone Mini, mounting bracket 3 for optical cover mounting longitudinal and cross wise adjustment possible (Requires bracket 1 & 2)		442L-AMBSZMN3	65.00
SafeZone Mini, mounting bracket 4 back plane mounting with kits 2 & 3 (Requires bracket 1 or 2 & 3)		442L-AMBSZMN4	51.93



442L-AMBSZMN2

SafeZone Scanner

SafeZone™ Safety Laser Scanners are suitable for applications requiring a safety field of up to 5m over a scanning angle of 190°.

Item Description	Item Type	Catalogue No.	\$AU
SafeZone, Singlezone, scan head and I/O module 5m	I	442L-SFZNSZ	6,729.01
SafeZone, Multizone, scan head and I/O module 4m		442L-SFZNMZ	7,540.97



442L-SFZNMZ

SafeZone Scanner Cables

Item Description	Item Type	Catalogue No.	\$AU
SafeZone, 2m Programming Cable, with 9-pin serial connector	I	442L-ACRS232	119.03



442L-ACRS232

SafeZone Mounting Brackets

Item Description	Item Type	Catalogue No.	\$AU
SAFEZONE MOUNTING BRACKET Kit 2 – Bracket only in conjunction with mounting kit 1. Mounting at the rear on wall or machine. Longitudinal and cross-wise adjustment possible		442L-AMBSFZNMZ2	285.19
SAFEZONE MOUNTING BRACKET Kit 3 – Bracket only in conjunction with mounting kit 1 and 2. Mounting at the rear or below the wall, floor or machine. Longitudinal and cross-wise adjustment possible.		442L-AMBSFZNMZ3	311.11



SafeZone Spares

Item Description	Item Type	Catalogue No.	\$AU
SafeZone, Memory module with pre-wired 10m cable		442L-CSFZNMZ-10	507.92



Laser Scanner

Allen-Bradley Safezone3 CIP Safety Laser Scanners



- EtherNet/IP connectivity can help improve installation time
- Easy integration using an add-on profile in Studio 5000 Logix Designer
- Supports Device Level Ring (DLR) network topology to help increase network resiliency
- High definition distance measurement scanning technology helps prevent dust, smoke and optical interferences
- Quick device replacement of the configuration memory and IP address which is stored in the scanner's system plug
- Bright, multi-colored display and user-friendly push buttons offer device settings and diagnostic information
- Wide 275° scanning angle
- MultiZone safety field is 5.5 m, 8 configurable fields
- Simultaneously monitors up to 4 fields (safety and warning)
- Safety rated: Type 3 per IEC 61496, PLd per ISO13849-1, SIL 2 per IEC 61508

Designed for use on or around dangerous areas, accesses, and hazardous points, the SafeZone 3 is the next generation safety laser scanner platform that features high definition distance measurement scanning technology. This scanning technology improves the accuracy of the scan data and increases the scanner's immunity to dust, smoke and optical interferences. In addition, the configuration memory in the system plug of the SafeZone 3 helps prevent downtime when a quick replacement of the device is needed.

SafeZone 3 Laser Scanner

Item Description	Item Type	Catalogue No.	\$AU
SafeZone 3 Multizone CIP Safety Laser Scanner 5.5 Meter, 8 Fields		442L-SZNMZCP	7,791.49

442L-SZNMZCP

SafeZone 3 Memory Module

Item Description	Item Type	Catalogue No.	\$AU
SafeZone 3 REQUIRED System Plug (stores configuration memory)		442L-SZNCPCMOD	411.05

442L-SZNCPCMOD

SafeZone 3 Mounting brackets

Item Description	Item Type	Catalogue No.	\$AU
Mounting Bracket 1		442L-AMBSZCP1	115.00
Mounting Bracket 2		442L-AMBSZCP2	130.94
Mounting Kit 1		442L-AMBSZCP3	266.44
Mounting Kit 2		442L-AMBSZCP4	266.44

442L-AMBSZCP1

SafeZone 3 Accessories

Item Description	Item Type	Catalogue No.	\$AU
SafeZone 3 Multizone CIP Safety Laser Scanner Replacement Cover plate	I	442L-ACVR	75.15
SafeZone 3 Multizone CIP Safety Laser Scanner Replacement Optics cover	I	442L-ASZNCPCW	141.19

442L-ASZNCPCW



442L-ASZNCPCW

Pressure Mats

Allen-Bradley 440F Pressure Mats

- Hardened steel plate construction
- No dead spots
- 4-wire system to detect opens and shorts
- Robust and reliable - can withstand a static pressure of 4500 psi
- IP67 rated

MatGuard Safety Mat has two conductive hardened steel plates that are held apart by non-conductive compressible separators. Each four-wire mat, operating on only 24 V DC, is pre-wired and connected in series with other mats to form a floor level guarding system for hazardous areas. The MatGuard safety mat is rated to IP 67, so water, liquids and coolants present no problem. In addition, the tough vinyl will resist bleaches, acids, salts and many industrial chemicals. The circuit through the mat must be monitored by a safety-rated controller such as the Guardmaster DI safety relay.



Product Selection

Safety mat system comprises of a controller and one or more interconnected pressure sensitive mats.

Step 1: Select size of safety mat (W x L)

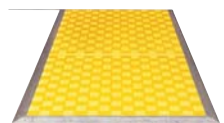
Step 2: Select safety controller, either the Allen-Bradley GSR or 440C safety relay

Contact NHP for details on other variants. The preferred sizes are listed below:

1. 500 x 500mm, 500 x 750mm, 500 x 1000mm
2. 750 x 750mm, 750 x 1500mm
3. 1000 x 1000mm, 1000 x 1250mm, 1000 x 1500mm

Safety Mats

Item Description	Item Type	Catalogue No.	\$AU
Safety Mat Yellow, 500mm x 500mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M1010BYNN	945.35
Safety Mat Yellow, 500mm x 750mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M1015BYNN	1,026.17
Safety Mat Yellow, 500mm x 1000mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M1020BYNN	1,107.02
Safety Mat Yellow, 750mm x 750mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M1515BYNN	1,147.44
Safety Mat Yellow, 500mm x 1500mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M1030BYNN	1,268.70
Safety Mat Yellow, 750mm x 1000mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M1520BYNN	1,268.70
Safety Mat Yellow, 1000mm x 1000mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M2020BYNN	1,430.36
Safety Mat Yellow, 750mm x 1500mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M1530BYNN	1,511.20
Safety Mat Yellow, 1000mm x 1250mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M2025BYNN	1,592.05
Safety Mat Yellow, 1000mm x 1500mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M2030BYNN	1,753.71
Safety Mat Yellow, 1000mm x 1800mm, Two 4.5m 2-wire cables, exit out "B" corners, No Trim	I	440F-M2036BYNN	1,947.72



440F-M1010BYNN

Standard Perimeter Trim Kits

Item Description	Item Type	Catalogue No.	\$AU
Trim Kit - Standard Trim, 500mm x 500mm	I	440F-T1010	189.85
Trim Kit - Standard Trim, 500mm x 750mm	I	440F-T1015	237.31
Trim Kit - Standard Trim, 500mm x 1000mm	I	440F-T1020	284.77
Trim Kit - Standard Trim, 750mm x 750mm	I	440F-T1515	284.77
Trim Kit - Standard Trim, 750mm x 1000mm	I	440F-T1520	332.24
Trim Kit - Standard Trim, 500mm x 1500mm	I	440F-T1030	379.70
Trim Kit - Standard Trim, 1000mm x 1000mm	I	440F-T2020	379.70
Trim Kit - Standard Trim, 750mm x 1500mm	I	440F-T1530	427.17
Trim Kit - Standard Trim, 1000mm x 1500mm	I	440F-T2030	474.61
Trim Kit - Standard Trim, 1000mm x 1800mm	I	440F-T2036	531.58



440F-T1010

Safety Pull Wire Switches

Emergency Stop Pull-wire Switches



- Models available for a wire span of up to 125m
- Includes universal mounting and operation
- Includes lid mounted emergency stop button, designed to conform to ISO 850
- Provides switch lockout on cable pulled and cable slack
- Includes cable status indicator on switch lid

For machinery such as conveyors, it is often more convenient and effective to use a cable pull device along the hazard area as the emergency stop device. These devices use a steel wire rope connected to latching pull switches so that pulling on the rope in any direction at any point along its length will trip the switch to cut off the machine power.

Lifeline 3

Lifeline 3 is an economical pull-wire switch capable of switching a cable span of 30 m.



440E-D13118

Outputs (safety)	Outputs (aux)	Housing (material)	E-Stop Button	IP Rating	Conduit (entry)	Item Type	Catalogue No.	\$AU
3 NC	1 NO	Zinc Alloy, Die-Cast, Painted	No	IP67	M20		440E-D13112	463.58
2 NC	2 NO	Zinc Alloy, Die-Cast, Painted	No	IP67	M20		440E-D13118	463.58

Lifeline 4

Lifeline 4 features an integrated emergency stop button to allow E-stop access even at the ends of the cable span. Lifeline 4 can take cable spans of up to 75 m.



440E-L13042

Outputs (safety)	Outputs (aux)	Housing (material)	E-Stop Button	IP Rating	Conduit (entry)	Item Type	Catalogue No.	\$AU
3 NC	1 NO	Zinc Alloy, Die-Cast, Painted	Yes	IP66	M20		440E-L13042	685.18
2 NC	2 NO	Zinc Alloy, Die-Cast, Painted	Yes	IP66	M20		440E-L13137	685.18

Lifeline 4 Stainless Steel

Lifeline 4 Stainless Steel is rated to IP 69K and features a 316 stainless housing, making it suitable for harsh conditions. It is recommended that the stainless steel installation kit is used in conjunction with this switch.



440E-L22BNSM

Outputs (safety)	Outputs (aux)	Housing (material)	E-Stop Button	IP Rating	Conduit (entry)	Item Type	Catalogue No.	\$AU
2 NC	2 NO	Stainless Steel, 316	Yes	IP66, IP69K, IP67	M20		440E-L22BNSM	1,370.38

Lifeline 5

Lifeline 5 features Solid-state operation – the first in the industry coupled with enhanced safety and productivity with microprocessor-based reliability and advanced diagnostics, Lifeline 5 Supports long cable spans up to 100m and all have 5/8 Pin Micro (M12) connections.

Cordset options (two M12 connectors)

- 5pin micro (M12) QD (Quick Disconnect) cordset 889DF5AC*
 - 8pin micro (M12) QD (Quick Disconnect) cordset 889DF8AB*
- (Replace * with cable length 2,5,10)



440E-LL5SE5

Outputs (safety)	Outputs (aux)	Housing (material)	E-Stop Button	IP Rating	Number of Pins	Item Type	Catalogue No.	\$AU
2 OSSD	1 PNP	Zinc Alloy, Die-Cast, Painted	No	IP66	5	I	440E-LL5SN5	775.87
2 OSSD	1 PNP	Zinc Alloy, Die-Cast, Painted	No	IP66	8	I	440E-LL5SN8	801.90
2 OSSD	1 PNP	Zinc Alloy, Die-Cast, Painted	Yes	IP66	5	I	440E-LL5SE5	813.73
2 OSSD	1 PNP	Zinc Alloy, Die-Cast, Painted	Yes	IP66	8	I	440E-LL5SE8	839.75

Lifeline 5 Stainless Steel

Lifeline 5 is rated to IP69K and features a 316 stainless steel housing, it also is TUV approved. It is recommended that the stainless steel installation kits are used in conjunction with this.

Outputs (safety)	Outputs (aux)	Housing (material)	E-Stop Button	IP Rating	Number of Pins	Item Type	Catalogue No.	\$AU
2 OSSD	1 PNP	Stainless Steel, 316	No	IP69K	5	I	440E-LL5SS5	1,367.25
2 OSSD	1 PNP	Stainless Steel, 316	No	IP69K	8		440E-LL5SS8	1,395.63



440E-LL5SS5

Lifeline Rope Tensioner Accessories

Suitable for Lifeline 3, 4 and 5

Item Description	Item Type	Catalogue No.	\$AU
Bulletin 440E, Gripper 2 pack		440E-A17107	148.08
Bulletin 440E, Tensioner and Allen wrench		440E-A17105	202.97
Bulletin 440E, 30m Polypropylene covered steel cable		440E-A17027	316.98
Bulletin 440E, 100m Polypropylene covered steel cable		440E-A17028	887.06



440E-A17105

Accessories

Item Description	Item Type	Catalogue No.	\$AU
Bulletin 440E, Tensioner Spring to suit Lifeline 5, 28mm (1.10 Dia) x 114mm (4.5) Overall Length	I	440E-ASPRING	36.20
Bulletin 440E, Tensioner Spring to suit Lifeline 5, 28mm (1.10 Dia) x 114mm (4.5) Overall Length 302 Stainless Steel	I	440E-ASPRING-SS	51.57
Bulletin 440E, Tensioner Spring to suit Lifeline 3 & 4		440E-A13078	37.84
Bulletin 440E, Stainless Steel Tensioner spring to suite Lifeline 4		440E-A13202	93.20
Bulletin 440E, Stainless Steel Eye Bolt		440E-A13201	48.49
Bulletin 440E, Outside Corner Pulley		440A-A17102	58.64
Bulletin 440E, Inside Corner Pulley		440A-A17101	59.83
Replacement cover		440E-A13054	357.18



440E-A13078

Lifeline Rope Tensioner System Installation Kits

The Lifeline Rope Tensioner System enables quick installation of a pull wire system. It allows cable adjustment of up to 300 mm, quick thread and grip of cable with cable grippers, and simple tensioning via Allen key. Kits include one cable, one tensioner, two cable grippers as well as P bolts, nuts and washers to suit the length of the cable.

Item Description	Item Type	Catalogue No.	\$AU
Bulletin 440E, Installation kit - 5m		440E-A13079	293.31
Bulletin 440E, Installation kit - 10m		440E-A13080	347.72
Bulletin 440E, Installation kit - 15m		440E-A13081	484.93
Bulletin 440E, Installation kit - 20m		440E-A13082	567.72
Bulletin 440E, Installation kit - 30m		440E-A13083	712.01
Installation kit - 50m	I	440E-A13084	1,031.35
Installation kit - 75m		440E-A13085	1,272.62



440E-A13080

Stainless steel installation kits

Kits include one cable, one turnbuckle tensioner, four thimbles, eight cable grips as well as eyebolts, nuts and washers to suit the length of the cable.

Item Description	Item Type	Catalogue No.	\$AU
Stainless steel installation kit 10m	I	440E-A13195	442.35
Stainless steel installation kit 15m	I	440E-A13196	626.85
Stainless steel installation kit 20m	I	440E-A13197	723.84
Stainless steel installation kit 30m	I	440E-A13198	915.44
Stainless steel installation kit 50m	I	440E-A13199	1,317.58
Stainless steel installation kit 75m	I	440E-A13200	1,636.92



440E-A13195

Safety Pull Wire Switches

Steute Emergency Stop Pull-wire Switches



- Thermoplastic or metal enclosure versions available
- Wide range of output configurations available
- 'Extreme range' switches available - suitable for use in harsh and demanding environments

Emergency pull-wire switches are used in transport or conveyor systems as emergency stop devices. These devices use a wire rope connected to a latching switch and pulling on the rope actuates the emergency stop function on the mechanical switch to cut-off the power to the machine.

Single Sided Actuation

Standard Duty

Plastic body pull-wire switches for general purpose applications.

Outputs (safety)	Housing (material)	E-Stop Button	IP Rating	Conduit (entry)	Cable Included (Y / N)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	No	IP67	M20 x 1.5	No		TQZS70101SVD	360.00
1 NO + 1 NC EB 1st Contact	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	No	IP67	M20 x 1.5	Yes, 10m	K	TQZS70KIT10M	680.00

Heavy Duty

Metal body pull-wire switches for Heavy Duty applications.

Series ZS71 - 3 Output Contacts, Wire Length to 135m

Outputs (safety)	Housing (material)	E-Stop Button	IP Rating	Conduit (entry)	Cable Included (Y / N)	Item Type	Catalogue No.	\$AU
1NO 2NC	Aluminium, Die-Cast	No	IP65	2 x [M20 x 1.5]	No		ZS71201SWVDA	544.00
1NO 2NC	Aluminium, Die-Cast	No	IP65	2 x [M20 x 1.5]	Yes, 20m	K	TQZS71KIT20M	843.00

Series ZS80 - 4 Output Contacts, Wire Length to 100m

Outputs (safety)	Housing (material)	E-Stop Button	IP Rating	Conduit (entry)	Cable Included (Y / N)	Item Type	Catalogue No.	\$AU
1NO 2NC	Aluminium, Die-Cast	Yes	IP67	3 x [M20 x 1.5]	No		TQZS80202SWVD	862.00
1NO 2NC	Aluminium, Die-Cast	Yes	IP67	3 x [M20 x 1.5]	Yes, 50m	K	TQZS80KIT50M	1,420.00

Extreme Series ZS92 - 4 Output Contacts, Wire Length to 2 x 100m

Outputs (safety)	Housing (material)	E-Stop Button	IP Rating	Conduit (entry)	Cable Included (Y / N)	Item Type	Catalogue No.	\$AU
1NO 2NC	Aluminium, Die-Cast	Yes	IP67	3 x [M20 x 1.5]	No		ZS92S22VDF4085C	1,346.00

Pull-wire Switch Accessories

Item Description	Item Type	Catalogue No.	\$AU
Tension Spring, Light Duty, to suit pull-wire switches		TQZSTS150N	59.00
Heavy Duty Tension Spring, for pull-wire switches		TQZSTS250N	59.00



TQZSTS150N

Safety Pull Wire Switches

Austrol NTW Emergency Stop Pull-wire Switch

- Rugged cast aluminium housing
- Stainless steel hardware
- Single or double sided operation
- Padlocking facility to prevent unauthorised reset
- Fail-safe in case of wire breakage or removal
- Hazardous Area versions available

The NTW heavy-duty pull-wire switch is designed and manufactured in Australia specifically to cope with the harsh realities of Australian industry, featuring a rugged cast aluminium housing and high IP rating. Offering both left and right hand operation, the NTW will operate with a force not exceeding 70N, allowing it to meet the requirements of relevant Australian and New Zealand safety standards. The NTW is supplied standard with a padlocking facility to prevent unauthorised reset and exclusive self-wiping output contacts.



Safety Pull-Wire Switches

Switches designed for use with conveyors or where it is desired to protect a large area with the use of only one emergency safety switch.

Standard Switches

SafetyOut	Housing (material)	E-Stop Button	IP Rating	Cable Entry (position)	Item Type	Catalogue No.	\$AU
2 NO + 2 NC	Aluminium, Die-Cast	No	IP65, IP67	Left / Right		55.4.00NBB	2,116.00
2 NO + 2 NC	Aluminium, Die-Cast	No	IP65, IP67	Left		55.4.00LHNB	2,148.00
2 NO + 2 NC	Aluminium, Die-Cast	No	IP65, IP67	Right		55.4.00RHNB	2,148.00



55.4.00RHNB

Switches with Glass Windows

SafetyOut	Housing (material)	E-Stop Button	IP Rating	Cable Entry (position)	Item Type	Catalogue No.	\$AU
2 NO + 2 NC	Aluminium, Die-Cast	No	IP65, IP67	Left / Right		55.4.00GWNBB	2,424.00
2 NO + 2 NC	Aluminium, Die-Cast	No	IP65, IP67	Left		55.4.00LHGWNBB	2,470.00
2 NO + 2 NC	Aluminium, Die-Cast	No	IP65, IP67	Right		55.4.00RHGWNBB	2,470.00



55.4.00RHGWNBB

Switches with Indication

55401NBB - Lamp required: BA9** (replace ** with Voltage required)

55401NBBU - Pilot Lens and Lamp required: 1PT - Amber Lens Ba9** (replace ** with Voltage required)

SafetyOut	Housing (material)	E-Stop Button	IP Rating	Cable Entry (position)	Item Type	Catalogue No.	\$AU
2 NO + 2 NC	Aluminium, Die-Cast	No	IP65, IP67	Left / Right	K	55.4.01NBB	2,133.00
2 NO + 2 NC	Aluminium, Die-Cast	No	IP65, IP67	Left / Right		55.4.01NBBU	2,194.00



55.4.01NBB

Ex-Rated Safety Pull-Wire Switches Zones 21, 22

ANZEx 05.4008X

Ex tD A21 T85°C

IP 65/67

- Dust excluding ignition proof trip-wire switch suited for hazardous area applications

Standard Switches

SafetyOut	Housing (material)	E-Stop Btn	IP Rating	Cable Entry (position)	Item Type	Catalogue No.	\$AU
2 NO + 2 NC	Aluminium, Die-Cast	No	IP65, IP67	Left / Right		EX55.4.00NBB	2,624.00
2 NO + 2 NC	Aluminium, Die-Cast	No	IP65, IP67	Left / Right	I	EX55.4.00NBBG	2,695.00



EX55.4.00NBB

Lanyard Rope / Pull-wire

Developed to meet the Australian and New Zealand safety standards, these ropes are specially tested to work in conjunction with the NHP / Austrol NTW series pull-wire switches. Two types are available; PVC covered galvanised trip-wire and NHP Tufflex fibre lanyard rope. Individual maximum lengths of lanyard must not exceed 100m when using NHP Tufflex rope or 60m when using PVC coated galvanised trip wire.

Lanyard

NHP Tufflex Pull-wire



55.1.53RLR

Item Description	Item Type	Catalogue No.	\$AU
NHP/Tufflex, Liquid Crystal Polymer fibre rope, (per metre)		55.1.53RLRPM	14.00
NHP/Tufflex, Liquid Crystal Polymer fibre rope, 105m roll		55.1.53RLR	1,510.00

PVC Coated Galvanised Steel Lanyard



55.1.33P

Item Description	Item Type	Catalogue No.	\$AU
Trip Wire Galvanised Rope 3-4mm Red PVC Coated (\$ per meter)		55.1.33P	7.90
Trip Wire Galvanised Rope 4-6mm Red PVC Coated (\$ per meter)		55.1.53	8.35
Trip Wire Galvanised Rope 5-7mm Red PVC Coated (\$ per meter)		55.1.53P	12.00
Trip Wire Stainless-Steel Rope 5-7mm Red PVC Coated (\$ per meter)	I	55.1.53PSS	48.00

Accessories

Lanyard Installation Accessories



55.1.51

Item Description	Item Type	Catalogue No.	\$AU
U" bolt 5mm wire clamp/shackle, suitable for pull-wire switches		55.1.52	15.00
5mm wire thimble, suitable for pull-wire switches		55.1.51	16.00
5mm stainless steel wire clamp/shackle, suitable for pull-wire switches		55.1.52SS	33.00
D Shackle 6mm, for pull-wire switches		55.2.18	33.00
5mm Stainless steel wire thimble, suitable for pull-wire switches		55.1.51SS	36.00
Wire support bracket, 5mm for NTW switch		55.1.50	47.00
Hook and eye turnbuckle 10mm, for pull-wire switches		55.1.64	51.00
Stainless steel D shackle, for pull-wire switches		55.2.19	59.00
Wire support bracket, 6mm stainless steel for NTW switch		55.1.50SS	93.00
Hook and eye turnbuckle 10mm Stainless Steel, for pull-wire switches		55.1.64SS	99.00
Trip wire switch tension spring, for pull-wire switches		55.2.46	126.00
Stainless Steel trip wire switch tension spring, for NTW switch		55.1.46SS	290.00
Trip wire switch tension spring stainless steel, for pull-wire switches		55.2.46SS	311.00

Spare Parts

Item Description	Item Type	Catalogue No.	\$AU
Shaft bellow for pull-wire switches		55.2.37	37.00
PVC lid gasket		55.2.17	45.00
NTW Trip Wire Switch, Glass Window Spare Cover		55.2.16GW	706.00

Safety Enabling Switches

Enabling Switches

- Three-position switches can allow safe working on a machine
- Lightweight and ergonomic for easy handling
- Optional jog and e-stop functions for additional safety and application flexibility

Three position enabling switches can be used as part of the conditions required to allow safe working inside a machine guard, such as set-up and maintenance. The enabling switches are available with optional jog and emergency stop functions. Mounting brackets for use with MT-GD2, Trojan T15, Trojan 5 or Trojan 6 safety interlock switches are also available.



Enabling Switches

Item Description	Item Type	Catalogue No.	\$AU
Grip Switch with Jog Pushbutton, 2 N.C. Main Contacts, 2 N.O. Monitoring Contacts, 1 N.O. Jog Contact, 8 Point Terminal Chamber with M20 Conduit & Cable Strain Relief		440J-N21TNPM-NP	935.00



440J-N21TNPM-NP

7

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

This page intentionally left blank

Automation Systems

Micro Programmable Controllers and Smart Relays

Smart Relays	488
Micro PLCs	489

Modular Programmable Controllers

Compact PLC Systems	499
Allen-Bradley Bulletin 1769 CompactLogix™	Index 499
ProSoft® In-Chassis CompactLogix™ Communication Modules	505
Allen-Bradley Bulletin 5069 CompactLogix™	Index 507
Large PLC Systems	512
Allen-Bradley ControlLogix®	Index 512
ProSoft® In-Chassis ControlLogix® Communication Modules	519

Distributed I/O and Signal Converters

Fieldbus I/O Systems	521
Allen-Bradley FLEX 5000 I/O Device	Index 521
Allen-Bradley FLEX™ I/O	Index 526
ProSoft® FLEX™ I/O Modules	531
Allen-Bradley Point I/O™	Index 532
ProSoft® Point I/O Modules	536
Allen-Bradley On Machine Distributed I/O	537
Allen-Bradley® Ex I/O	Index 540
Analogue Signal Converters	545

Gateways and Networks

Remote Access	547
Gateways	553
Network Switching and Routing	557
Network Media	565

Operator Panels and Industrial Computers

Micro Operator Panels	567
Operator Panels	568
Industrial Computers	573

Engineering, Visualisation and Reporting Software

Information Software	584
Visualisation Software	Index 600
Engineering Software	Index 614
Innovation Suite	625

Motion Systems

Servo Drives Selection Guide	626
Servo Drives	627
Servo Motors and Cables	632
Gearboxes and Mechanical	639

Smart Relays

Allen-Bradley® Micro810® Controllers



- Flexible power supply options available (12V DC, 24V DC and 240V AC)
- 4A and 8A outputs eliminate the need for external relays
- Four inputs can be configured as 0-10V DC analogue inputs (DC Models only)
- Program download via USB programming port (2080-USB-ADAPTER required)
- Optional 1.5" local LCD for monitoring / modifying application data
- Optional LCD display also functions as a backup memory module
- Configure and run core smart relay function blocks without software (2080-LCD screen required)

With an extra-small footprint and high-current relay outputs, the Allen-Bradley Micro810® Programmable Controller is a simple yet powerful smart relay. However the advanced logic capabilities are unlocked when paired with the programming software and changes this smart relay into an impressively capable Micro PLC. As part of the Micro800® family, the Micro810® controllers utilise the advanced capabilities of Connected Components Workbench design and configuration software.



2080-LC10-12QWB

Micro810® Controllers

Inputs	Config I/O	Outputs	Item Type	Catalogue No.	\$AU
8x120/240V AC	4xDI / AI [12/24V AC/DC Snk/Src OR 0-10V DC]	4xRelays		2080-LC10-12AWA	202.23
4x12/24V DC Snk/Src	4xDI / AI [12/24V AC/DC Snk/Src OR 0-10V DC]	4xRelays		2080-LC10-12DWD	202.23
4x12/24V DC Snk/Src	4xDI / AI [12/24V AC/DC Snk/Src OR 0-10V DC]	4x12/24V DC Source		2080-LC10-12QBB	202.23
4x12/24V DC Snk/Src	4xDI / AI [12/24V AC/DC Snk/Src OR 0-10V DC]	4xRelays		2080-LC10-12QWB	202.23

Micro 810® Accessories

Item Description	Item Type	Catalogue No.	\$AU
Micro810 USB Adapter, Provides USB Port for Software Programming		2080-USBADAPTER	69.76
1.5 Inch Plug-In LCD for Micro810 only, Display with Keypad, Smart Relay Configuration		2080-LCD	97.82



2080-LCD

Micro PLCs

Allen-Bradley® Micro820®, Micro830®, Micro850® and Micro870® Controllers

The Allen-Bradley Micro800™ controllers are designed for low-cost, standalone machines. These economical small-size PLCs are available in different form factors based on the number of I/O points embedded in the base, with a range of features intended to suit any small-scale automation application. The Micro800 family share a common programming environment, as well as common accessories and plug-ins that allow Automation system designers to personalise the controller for specific capabilities.



Micro820® Controllers

The Micro820™ 20-pt controller is specifically designed for smaller standalone machines and remote automation projects, with features such as embedded Ethernet and Serial ports, as well as a microSD™ slot for data logging and recipe management.

- EtherNet/IP for RTU applications, HMI connectivity, or programming via Connected Components Workbench software
- Embedded support for 4 thermistor temperature inputs
- Models with 24VDC Outputs offer 5kHz PWM output for controlling solenoids and valves
- Built-in Real Time Clock (RTC) with no battery required
- microSD™ card slot for program transfer, data logging and recipe management
- Models available with removable terminal blocks for easier wiring and installation (Cat. No ends with "R")
- Expand controller capabilities with support for up to two Micro800® plug-in modules
- Remote 3.5inch LCD display (2080-REMLCD) available as easy and convenient text-only HMI for Micro820 Controllers

Inputs	Config I/O	Outputs	Expansion (qty)	Item Type	Catalogue No.	\$AU
8x24V DC Snk/Src	4xDI / AI [12/24V DC Sink OR 0-10V DC]	6x24V DC Source AND 1x0-10V DC AND [1xFast 24V DC Source OR 1xPWM]	2 Plug-in		2080-LC20-20QBB	508.75
8x24V DC Snk/Src	4xDI / AI [12/24V DC Sink OR 0-10V DC]	7xRelays AND 1x0-10V DC	2 Plug-in		2080-LC20-20QWB	508.75
8x24V DC Snk/Src	4xDI / AI [12/24V DC Sink OR 0-10V DC]	6x24V DC Source AND 1x0-10V DC AND [1xFast 24V DC Source OR 1xPWM]	2 Plug-in		2080-LC20-20QBRR	523.00
8x24V DC Snk/Src	4xDI / AI [12/24V DC Sink OR 0-10V DC]	7xRelays AND 1x0-10V DC	2 Plug-in		2080-LC20-20QWBR	523.00



2080-LC20-20QBB

Micro830® Controllers

Micro830® programmable controllers are designed with flexibility to address a wide range of standalone machine control applications. With support for up to 5 plug-in modules, the Micro830® range includes 10, 16, 24 and 48 point controllers that can satisfy advanced industrial input and output requirements, including applications requiring simple motion control.

Inputs	Outputs	Expansion (qty)	Item Type	Catalogue No.	\$AU
6x12/24V DC Snk/Src AND [4xFast 24V AC/DC Snk/Src OR 2x2-wire HSC]	4x24V DC Sink AND [2xFast 24V DC Sink OR 1xPTO/PWM]	2 Plug-in	I	2080-LC30-16QVB	430.04
6x12/24V DC Snk/Src AND [4xFast 24V AC/DC Snk/Src OR 2x2-wire HSC]	6xRelays	2 Plug-in		2080-LC30-16QWB	488.00
6x12/24V DC Snk/Src AND [8xFast 24V AC/DC Snk/Src OR 4x2-wire HSC]	8x24V DC Source AND [2xFast 24V DC Source OR 2xPTO/PWM]	3 Plug-in		2080-LC30-24QBB	567.00
6x12/24V DC Snk/Src AND [8xFast 24V AC/DC Snk/Src OR 4x2-wire HSC]	10xRelays	3 Plug-in		2080-LC30-24QWB	567.00
16x12/24V DC Snk/Src AND [12xFast 24V AC/DC Snk/Src OR 6x2-wire HSC]	16x24V DC Source AND [4xFast 24V DC Source OR 3xPTO/PWM]	5 Plug-in	I	2080-LC30-48QBB	898.00
16x12/24V DC Snk/Src AND [12xFast 24V AC/DC Snk/Src OR 6x2-wire HSC]	20xRelays	5 Plug-in		2080-LC30-48QWB	898.00



2080-LC30-16QWB

Micro850® Controllers

The Micro850® controller is equipped with the same form factor, plug-in support, instruction / data size and motion capabilities as the Micro830® controller – yet it offers embedded EtherNet/IP communications which can be used to interface to PCs, PanelView™800 HMI's, Kinetix Drives, PowerFlex Drives and other EtherNet I/P devices. With support for both standard Micro800® plug-in modules and specialised Micro850® side-mount expansion modules, the Micro850® is also perfect for larger stand-alone machine applications that require a high I/O count or higher performance analogue I/O.



2080-LC50-24QWB

Inputs	Outputs	Expansion (qty)	Item Type	Catalogue No.	\$AU
6x12/24V DC Snk/Src AND [8xFast 24V DC Snk/Src OR 4x2-wire HSC]	10xRelays	3 Plug-in 4 Side Mount		2080-LC50-24QWB	820.00
6x12/24V DC Snk/Src AND [8xFast 24V DC Snk/Src OR 4x2-wire HSC]	8x24V DC Source AND [2xFast 24V DC Source OR 2xPTO/PWM]	3 Plug-in 4 Side Mount		2080-LC50-24QBB	892.58
16x12/24V DC Snk/Src AND [12xFast 24V AC/DC Snk/Src OR 6x2-wire HSC]	16x24V DC Source AND [4xFast 24V DC Source OR 3xPTO/PWM]	5 Plug-in 4 Side Mount		2080-LC50-48QBB	1,200.00
16x12/24V DC Snk/Src AND [12xFast 24V AC/DC Snk/Src OR 6x2-wire HSC]	20xRelays	5 Plug-in 4 Side Mount		2080-LC50-48QWB	1,307.68

Micro870® Controllers

The Micro870 controller is designed for larger standalone machine control applications which require greater I/O capabilities and flexible communications. The Micro870 provides great memory capacity to enable more modular programs and the use of user defined function blocks for higher scalability, flexibility, and customization. As well as this, the Micro870 controller is capable of communication with and control of various devices such as other controllers, drives, and HMI's through the Ethernet/IP, Serial, and USB ports. Embedded motion capabilities are also included with support of up to two axes of motion with precise accuracy. With great expansion capability, the Micro870 is excellent for control of large machine applications with large I/O count and high performance analogue I/O requirements.

- High memory capability, with 280KB of memory with support for up to 128KB user data and up to 20,000 program steps
- Excellent expansion capabilities; eight expansion modules and three plug in modules provide for up to 304 digital I/O points and other speciality I/O requirements
- Inbuilt 100kHz high speed counter inputs on 24V DC models allow for communication with fast switching devices
- Embedded communications capabilities through inbuilt USB programming port, non-isolated serial port, and Ethernet port
- Integrated motion capabilities through support of up to two axes via Pulse Train Output
- Seamless communication, control, and programming of connected devices through Ethernet/IP



2080-LC70-24QBB

Inputs	Outputs	Expansion (qty)	Item Type	Catalogue No.	\$AU
6x24V DC Snk/Src AND [8xFast 24V DC Snk/Src OR 4x2-wire HSC]	8x24V DC Source AND [2xFast 24V DC Source OR 2xPTO/PWM]	3 Plug-in 8 Side Mount		2080-LC70-24QBB	1,629.07
6x24V DC Snk/Src AND [8xFast 24V DC Snk/Src OR 4x2-wire HSC]	10xRelays	3 Plug-in 8 Side Mount		2080-LC70-24QWB	1,629.07

Micro800® Plug-in Modules

The Micro800® Plug-in Modules allows you to adapt your base unit controller to fit your application needs. Extend the functionality of embedded I/O without increasing the footprint of your controller. Increase the system capabilities through memory and clock modules.

- Available for additional I/O, communications, backup memory and speciality capabilities
- Snaps easily into controller without expanding the footprint
- Operates in -20 to 65 degrees celcius temperatures

Micro800® Digital I/O Plug-In Modules**Micro800® Digital DC Input Plug-In Modules**

2080-IQ4

Digital In (qty)	Digital In (type)	Digital In (range)	Item Type	Catalogue No.	\$AU
4	12/24V DC Snk/Src	9 ... 30V DC		2080-IQ4	114.95

Micro800® Digital DC Output Plug-In Modules

2080-OB4

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Item Type	Catalogue No.	\$AU
4	12/24V DC Source	10 ... 30V DC		2080-OB4	114.95

Micro800® Relay Output Plug-In Modules

Relay Out (qty)	Relay Out (type)	Relay Out (range)	Item Type	Catalogue No.	\$AU
4	NO AC/DC	10...240V AC / 5...125V DC		2080-OW4I	161.72



Micro800® Digital Combination Plug-In Modules

Digital In (type x qty)	Digital In (range)	Digital Out (type x qty)	Digital Out (range)	Item Type	Catalogue No.	\$AU
4 x 12/24V DC Snk/Src	9 ... 30V DC	4 x 12/24V DC Source	10 ... 30V DC		2080-IQ4OB4	185.22



Micro800® Analogue I/O Plug-In Modules

Micro800® Analogue Input Plug-In Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Item Type	Catalogue No.	\$AU
2	Current / Voltage: Single-Ended	0 ... 10V DC 0 ... 20mA	12 bit (unsigned / unipolar)		2080-IF2	208.73
4	Current / Voltage: Single-Ended	0 ... 10V DC 4 ... 20mA 0 ... 20mA	12 bit (unsigned / unipolar)		2080-IF4	349.34



Micro800® Analogue Output Plug-In Modules

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	Item Type	Catalogue No.	\$AU
2	Current / Voltage: Single-Ended	0 ... 10V DC 0 ... 20mA 4 ... 20mA	12 bit (unsigned / unipolar)		2080-OF2	208.73



Micro800® RTD and Thermocouple Plug-In Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Item Type	Catalogue No.	\$AU
2	RTD	100Ω Pt 385 1kΩ Pt 385 500Ω Pt 392 120Ω Ni 672 200Ω Pt 385 100Ω Pt 392 1kΩ Pt 392 604Ω NiFe 519 500Ω Pt 385 200Ω Pt 392 10Ω Cu 427	14 bit (signed)		2080-RTD2	254.44
2	Thermocouple / mV	Type B Type E Type J Type K Type N Type R Type S Type T	14 bit (signed)	I	2080-TC2	254.44



Micro800® Speciality Plug-In Modules

Item Description	Item Type	Catalogue No.	\$AU
Micro800 Plug-In Module, Program Data and Recipe Storage, High Accuracy Real Time Clock		2080-MEMBAK-RTC	232.88
Micro800 Plug-In Module, High Speed Counter, 4 Inputs With Line Driver 250kHz		2080-MOT-HSC	232.88





2080-SERIALISOL

Micro800® Communication Modules

Item Description	Item Type	Catalogue No.	\$AU
Micro800 Plug-In Module, RS232/485 Isolated Serial Port		2080-SERIALISOL	161.72

Micro850/Micro870 Expansion Modules

Bulletin 2085 Expansion Modules further extend the capabilities of the Micro850® and the Micro870® controller by maximising flexibility of the I/O count and configuration. The Bulletin 2085 expansion modules connect firmly to the right side of the Micro850® or Micro870® controller and support both DIN rail mount and panel mount options. Bulletin 2085 expansion modules feature high-density digital and analogue I/O to greatly increase I/O count without sacrificing much panel space.

Each Micro850® controller can support up to four Bulletin 2085 Expansion Modules. One end cap (Cat. Number 2085-ECR) is required when one or more expansion modules are added to a Micro850 controller.

The Micro870® can support up to eight Bulletin 2085 Expansion Modules. One end cap (Cat. Number 2085-ECR) is required when one or more expansion modules are added to a Micro870 controller.

Micro850®/Micro870® Digital I/O Modules

Micro850®/Micro870® Digital DC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Item Type	Catalogue No.	\$AU
16	12V DC or 24V AC/DC Snk/Src	21.6...26.4V AC / 10...30V DC		2085-IQ16	285.06
32	12V DC or 24V AC/DC Snk/Src	21.6...26.4V AC / 10...30V DC		2085-IQ32T	470.17



2085-IQ16

Micro850®/Micro870® Digital AC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Item Type	Catalogue No.	\$AU
8	240V AC	159 ... 240V AC	I	2085-IM8	223.98



2085-IM8

Micro850®/Micro870® Digital DC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Item Type	Catalogue No.	\$AU
16	12/24V DC Source	10 ... 30V DC		2085-OB16	357.24



2085-OB16

Micro850®/Micro870® Digital AC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Item Type	Catalogue No.	\$AU
8	120/240V AC	85 ... 240V AC	I	2085-OA8	285.06



2085-OA8

Micro850®/Micro870® Relay Output Modules

Relay Out (qty)	Relay Out (type)	Relay Out (range)	Item Type	Catalogue No.	\$AU
8	NO AC/DC	10...240V AC / 5...125V DC		2085-OW8	235.07
16	NO AC/DC	10...240V AC / 5...125V DC		2085-OW16	348.00



2085-OW8

Micro850®/Micro870® Analogue I/O Modules

Micro850®/Micro870® Analogue Input Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Item Type	Catalogue No.	\$AU
4	Current / Voltage: Single-Ended, Isolated	-10 +10V DC 0 ... 20mA	14 bit (signed)		2085-IF4	451.65
8	Current / Voltage: Single-Ended, Isolated	-10 +10V DC 0 ... 20mA	14 bit (signed)		2085-IF8	779.29



2085-IF8

Micro850®/Micro870® Analogue Output Modules

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	Item Type	Catalogue No.	\$AU
4	Current / Voltage: Single-Ended	-10 +10V DC 0 ... 20mA 4 ... 20mA	12 bit (unsigned / unipolar)		2085-OF4	451.65



2085-OF4

Micro850®/Micro870® RTD and Thermocouple Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Item Type	Catalogue No.	\$AU
4	RTD / Resistance / Thermocouple / mV, Isolated	0 ... 100mV DC 0 ... 500Ω Type B Type C Type E Type J Type TXK / XK Type N Type R Type S Type T Type K 100Ω Pt 385 100Ω Pt 392 200Ω Pt 385 200Ω Pt 392 100Ω Ni 618 200Ω Ni 618 120Ω Ni 672 10Ω Cu 427	16 bit (signed)		2085-IRT4	694.13



2085-IRT4

Micro850®/Micro870® Specialty Modules

Item Description	Item Type	Catalogue No.	\$AU
Micro850/Micro870 End Cap Bus Terminator, For Use With 2085 Expansion I/O		2085-ECR	30.91



2085-ECR

Micro800® Accessories

Item Description	Item Type	Catalogue No.	\$AU
Micro800 Programming Cable USB-A to USB-B, Male To Male		2080-USBPRGCAB	41.00
Micro800 Power Supply, 120/240V AC to 24V DC, 1.6A		2080-PS120-240VAC	114.31
3.5 Inch Remote LCD for Micro820 only, Text Display with Keypad		2080-REMLCD	297.54



2080-REMLCD

Micro PLCs

Spectrum Controls Micro800® Modules



- Integrate into your system using existing Connected Components Workbench programming software.
- All Encompass Partner products are supported under the Rockwell Automation TechConnect technical support program.

Spectrum Controls use licensed backplane technology to offer various modules for the Allen-Bradley® Micro800® platform. Available modules includes a BACnet slave module, configurable analogue input modules and a high-current relay output module.



2080SC-OW2IHC

Spectrum Micro800® Digital I/O Modules

Item Description	Item Type	Catalogue No.	\$AU
Spectrum Controls Micro800 Module, 2 x High Current Relay (10A)	I	2080SC-OW2IHC	187.00
Spectrum Controls Micro800 Module, Plug-in Memory Module with RTC		2080-SDMEMRTC-SC	260.00
Spectrum Controls Micro800 Module, BACnet MS/TP or BACnet IP Slave		2080SC-BAC	439.00
Spectrum Controls Micro800 Module, 4 Analogue In Configurable (V/C/TC/RTD)	I	2080SC-IF4U	439.00
Spectrum Controls Micro800 Module, 4 Channel Thermistor In	I	2080SC-NTC	439.00
Spectrum Controls Micro800 Module, 4 Analog I/O Voltage Current Combo	I	2085-IF4XOF4-SC	907.00
Spectrum Controls Micro800 Module, 32 Channel 12/24V DI Sink	I	2085-OV32-SC	907.00
Spectrum Controls Micro800 Module, Eight Channel Analog Output (Voltage or Current)	I	2085SC-OF8	981.00
Spectrum Controls Micro800 Module, 8 Channel Analog Input RTD	I	2085-IR8-SC	992.00
Spectrum Controls Micro800 Module, 8 Channel Analog Input Thermocouple	I	2085-IT8-SC	992.00
Spectrum Controls Micro800 Module, Eight Channel Universal Analog Input	I	2085SC-IF8U	1,045.00
Spectrum Controls Micro800 Module, 32 Channel 12/24V DI Source	I	2085-OB32-SC	1,086.00
Spectrum Controls Micro800 Module, Sixteen Channel Current Input	I	2085SC-IF16C	1,189.00
Spectrum Controls Micro800 Module, Sixteen Channel Voltage Input	I	2085SC-IF16V	1,189.00
Spectrum Controls Micro800 Module, 16 Channel Analog Input Thermocouple	I	2085-IT16-SC	1,486.00

Micro PLCs

Allen-Bradley® MicroLogix™

- Three models available, providing a wide variety of features to suit most applications
- Offers similar functionality as traditional SLCs and PLCs, in a smaller form factor
- Compatible with PanelView™ 800 graphic terminals
- Programming via RSLogix500 software, providing an instruction set common to both the MicroLogix™ and SLC500 controller families

For a proven, small programmable logic controller solution, look to the Allen-Bradley® MicroLogix™ family. The MicroLogix™ 1400 controllers increase the application coverage with enhanced network communications at an affordable price.



MicroLogix™ 1400

The Allen-Bradley® MicroLogix™ 1400 Controllers further build upon the features of the MicroLogix™ 1100. These controllers feature a higher I/O count, faster high-speed counter, pulse train output, enhanced network capabilities and backlit LCD. Controllers without embedded analogue I/O points provide 32 digital I/O points, while analogue versions offer 32 digital I/O and 6 analogue I/O.

- Ethernet port provides Web server capability, email capability and support for DNP3 protocol
- Built-in LCD with backlight lets you view controller and I/O status, messaging, data monitoring and manipulation
- As many as six embedded 100kHz high-speed counters (DC input models only)
- Dual serial ports supporting DF1, DH-485, Modbus RTU, DNP3 and ASCII protocols
- 10KB user program memory, 10KB user data memory
- Up to 128KB for data logging and 64KB for recipe storage
- Compatible with Bulletin 1762 MicroLogix™ Expansion I/O Modules (up to seven modules per controller)
- Expands up to 256 I/O points

MicroLogix™ 1400 Controllers

Inputs	Outputs	Power Supply	Item Type	Catalogue No.	\$AU
20x120V AC	12xRelays	120V AC / 240V AC		1766-L32AWA	1,721.16
8x24V DC Snk/Src AND [12xFast 12/24V DC Snk/Src OR 6x2-wire HSC]	12xRelays	120V AC / 240V AC		1766-L32BWA	1,721.16
8x24V DC Snk/Src AND [12xFast 12/24V DC Snk/Src OR 6x2-wire HSC]	6xRelays AND [3xFast 24V DC Source OR 3xPTO/PWM]	24V DC		1766-L32BXB	1,721.16
8x24V DC Snk/Src AND 4x0-10V DC AND [12xFast 12/24V DC Snk/Src OR 6x2-wire HSC]	12xRelays AND 2x0-10V DC	120V AC / 240V AC		1766-L32BWAA	2,144.75
8x24V DC Snk/Src AND 4x0-10V DC AND [12xFast 12/24V DC Snk/Src OR 6x2-wire HSC]	6xRelays AND 2x0-10V DC AND [3xFast 24V DC Source OR 3xPTO/PWM]	24V DC		1766-L32BXBA	2,144.75



1766-L32BWAA

MicroLogix™ 1400 Accessories

Item Description	Item Type	Catalogue No.	\$AU
MicroLogix 1400 Memory Module		1766-MM1	412.85

MicroLogix™ Expansion I/O Modules

Bulletin 1762 MicroLogix™ Expansion I/O modules extend the capabilities of the MicroLogix™ 1100, 1200, and 1400 controllers by maximising flexibility of the I/O count and type. The modular, rackless design enhances cost savings and reduces replacement parts inventory. As with the Controller, expansion modules can be either DIN rail or panel mounted.

- Feature-rich functionality addresses a wide range of application
- Software keying prevents incorrect positioning within the system
- Finger-safe terminal blocks for I/O wiring
- Small footprint reduces panel space

MicroLogix™ Digital I/O Modules

MicroLogix™ Digital DC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Item Type	Catalogue No.	\$AU
8	24V DC Sinking/Sourcing	10 ... 26.4V DC		1762-IQ8	347.57
16	24V DC Sinking/Sourcing	10 ... 26.4V DC		1762-IQ16	433.56
32	24V DC Sinking/Sourcing	10 ... 26.4V DC		1762-IQ32T	707.13



1762-IQ8



1762-OB8

MicroLogix™ Digital DC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Item Type	Catalogue No.	\$AU
8	24V DC Sourcing (NPN)	20 ... 26.4V DC		1762-OB8	366.41
16	24V DC Sourcing (NPN)	20 ... 26.4V DC		1762-OB16	525.65
32	24V DC Sourcing (NPN)	10.2 ... 26.4V DC		1762-OB32T	857.80



1762-OW8

MicroLogix™ Relay Output Modules

Relay Out (qty)	Relay Out (type)	Relay Out (range)	Item Type	Catalogue No.	\$AU
8	NO AC/DC	5...264V AC / 5...125V DC		1762-OW8	364.69
6	CO AC/DC, Isolated	5...264V AC / 5...125V DC	I	1762-OW6I	371.54
16	NO AC/DC	5...264V AC / 5...125V DC		1762-OW16	525.65



1762-IQ8OW6

MicroLogix™ Digital Combination Modules

Digital In (qty x type)	Digital In (range)	Digital Out (qty x type)	Digital Out (range)	Item Type	Catalogue No.	\$AU
8 x 24V DC Sinking/Sourcing	10 ... 26.4V DC	6 x AC/DC NO Contact	5...264V AC / 5...125V DC		1762-IQ8OW6	611.26

8

MicroLogix™ Analogue I/O Modules

MicroLogix™ Analogue Input Modules



1762-IF4

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Item Type	Catalogue No.	\$AU
4	Current / Voltage: Differential	-10 +10V DC 4 ... 20mA	16 bit (signed)		1762-IF4	725.98

MicroLogix™ Analogue Output Modules



1762-OF4

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	Item Type	Catalogue No.	\$AU
4	Current / Voltage: Single-Ended	0 ... 10V DC 4 ... 20mA	12 bit (unsigned / unipolar)		1762-OF4	684.87

MicroLogix™ Analogue Combination Modules



1762-IF2OF2

Analogue In (type x qty)	Analogue In (range)	Analogue Out (type x qty)	Analogue Out (range)	Item Type	Catalogue No.	\$AU
2 x Current / Voltage: Differential	0 ... 10V DC 4 ... 20mA	2 x Current / Voltage: Single-Ended	0 ... 10V DC 4 ... 20mA		1762-IF2OF2	725.98

MicroLogix™ RTD and Thermocouple Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Item Type	Catalogue No.	\$AU
4	RTD / Resistance	100Ω Cu 427 120Ω Ni 618 120Ω Ni 672 604Ω NiFe 519 1000Ω Pt 385 2000Ω Pt 385 5000Ω Pt 385 1kΩ Pt 385 1000Ω Pt 392 2000Ω Pt 392 5000Ω Pt 392 1kΩ Pt 392 0 ... 150Ω 0 ... 500Ω 0 ... 1kΩ 0 ... 3kΩ	5 ... 13 bit (signed, configurable)		1762-IR4	1,010.21
4	Thermocouple / mV	Type J Type K Type T Type E Type R Type S Type B Type N Type C -50 ... 50mV DC -100 ... 100mV DC	16 bit (signed)		1762-IT4	1,010.21



1762-IT4


MicroLogix™ Accessories

MicroLogix™ Cables

Item Description	Item Type	Catalogue No.	\$AU
Cable RS232 Operating 8-Pin Mini DIN To 9-Pin D Shell 0.5M		1761-CBL-AP00	89.30
Cable RS232 Operating/Programming 8-Pin Mini DIN To 9-Pin D-Shell 2M		1761-CBL-PM02	140.15
Cable RS232 Operating/Programming 8-Pin Mini DIN to 8-Pin Mini DIN 2M		1761-CBL-HM02	142.44
Cable SLC 5/01, 5/02, 5/03 DH-485 RJ45 to 6-Pin Phoenix 3M	I	1761-CBL-AS03	152.68



1761-CBL-AP00



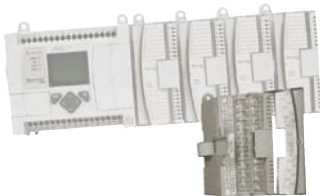
Looking for pre-wired cables and interface modules?

See the Pre-Wired Cables and Connection Systems range in the [TERMINATION AND WIRING SYSTEMS](#) section.

N3201D_dADVE-S01

Micro PLCs

Spectrum MicroLogix™ Modules



- Integrate into your system using existing RSLogix™500 programming software
- All Encompass Partner products are supported under the Rockwell Automation TechConnect technical support program

Spectrum Controls use licensed backplane technology to offer various modules for the Allen-Bradley® MicroLogix™ platform. Available modules include a combination input / output module, configurable analogue input module and a high-density analogue output module.



1762SC-IF4OF4

Spectrum MicroLogix™ Modules

Item Description	Item Type	Catalogue No.	\$AU
Spectrum Controls MicroLogix Module 4 Analogue In, (V/C/TC), 4 Analogue Out, (V/C)		1762SC-IF4OF4	1,305.00
Spectrum Controls MicroLogix Module 8 Universal Analog Input (V/C/TC/RTD/Ω)		1762SC-IF8U	1,305.00
Spectrum Controls MicroLogix Module 8 Analogue Output Module (V/C)		1762SC-OF8	1,305.00

Compact PLC Systems

Allen-Bradley Bulletin 1769 CompactLogix™

CompactLogix™ Controllers	Page 499
CompactLogix™ Power Supplies	Page 500
CompactLogix™ Communication Modules	Page 500
CompactLogix™ Accessories	Page 501
CompactLogix™ I/O Modules	Page 501
CompactLogix™ Specialty Modules	Page 503

- High functionality in an economical platform
- DIN rail or panel mount for flexible installation options
- L1 and L2 controllers offer embedded I/O to lower costs, save panel space and simplify configuration
- Integrated Motion and Safety control (selected models) saves time and money on third-party hardware and integration
- Analogue, digital and specialty I/O modules cover a wide range of applications
- Advanced system integration via EtherNet/IP™ to plant-wide networks

Bulletin 1769 CompactLogix™ and Compact GuardLogix® 5370 Controllers provide powerful mid-range application control in a compact, rackless design. This family of controllers includes options for integrated safety and/or integrated motion, and uses the same programming software, network protocol, and information capabilities as all Logix controllers providing a common development environment for all control disciplines. Consistent tools and features help users to lower engineering investment costs, facilitate easy diagnostics and troubleshooting, and speed up time to market for small to mid-size applications.



CompactLogix™ Controllers

CompactLogix™ 5370 L1 Controllers

Bulletin 1769 CompactLogix™ 5370 L1 Controllers are ideal for small machines, harnessing the benefits of Integrated Architecture™ to keep build time and cost low. These controllers expand on the scalability of the Logix family and share features with other CompactLogix™ 5370 controllers, including support for Device Level Ring (DLR) for enhanced network resiliency.

- Device Level Ring (DLR) for enhanced network resiliency
- Local I/O expansion with Bulletin 1734 POINT I/O™ modules increases local control capability
- Distributed I/O via EtherNet/IP offers additional flexibility in I/O options
- Open socket capability for devices such as printers, barcode readers, and servers
- Embedded USB port provides easy access for firmware downloads and programming

Controller (memory)	Input (qty)	Output (qty)	Expansion (qty local)	EtherNet/IP (nodes, max)	CIP Motion (axes)	Item Type	Catalogue No.	\$AU
384 kB	16 x DI	16 x DO	6 x 1734 POINT I/O	4			1769-L16ER-BB1B	2,521.85
512 kB	16 x DI	16 x DO	8 x 1734 POINT I/O	8			1769-L18ER-BB1B	3,093.43
1 MB	16 x DI	16 x DO	8 x 1734 POINT I/O	8			1769-L19ER-BB1B	3,371.98
512 kB	16 x DI	16 x DO	8 x 1734 POINT I/O	8	2		1769-L18ERM-BB1B	4,456.94



1769-L16ER-BB1B

CompactLogix™ 5370 L2 Controllers

Bulletin 1769 CompactLogix™ 5370 L2 Controllers are ideal for small to mid-size machines, harnessing the benefits of Integrated Architecture™ to keep build time and cost low. These controllers expand on the scalability of the Logix family and share features with other CompactLogix™ 5370 controllers, including support for Device Level Ring (DLR) for enhanced network resiliency.

- Device Level Ring (DLR) for enhanced network resiliency
- Local I/O expansion with Bulletin 1769 CompactLogix I/O™ modules increases local control capability
- Distributed I/O via EtherNet/IP offers additional flexibility in I/O options
- Open socket capability for devices such as printers, barcode readers, and servers
- Embedded USB port provides easy access for firmware downloads and programming

Controller (memory)	Input (qty)	Output (qty)	Expansion (qty local)	EtherNet/IP (nodes, max)	CIP Motion (axes)	Item Type	Catalogue No.	\$AU
750 kB	16 Total: 16 x DI	16 Total: 16 x DO	4 x 1769 Compact I/O	8			1769-L24ER-QB1B	3,283.39
750 kB	24 Total: 16 x DI, 4 x HSC in, 4 x AI	22 Total: 16 x DO, 4 x HSC out, 2 x AO	4 x 1769 Compact I/O	8			1769-L24ER-QBFC1B	4,588.84
1 MB	24 Total: 16 x DI, 4 x HSC in, 4 x AI	22 Total: 16 x DO, 4 x HSC out, 2 x AO	4 x 1769 Compact I/O	16	4		1769-L27ERM-QBFC1B	6,172.21



1769-L24ER-QB1B

CompactLogix™ 5370 L3 Controllers

Bulletin 1769 CompactLogix™ 5370 L3 Controllers are ideal for mid-size machines, harnessing the benefits of Integrated Architecture™ to keep build time and cost low. These controllers expand on the scalability of the Logix family and share common features with other CompactLogix™ 5370 controllers, including support for Integrated Motion on EtherNet/IP™ and Device Level Ring (DLR) for enhanced network resiliency.

- Supports Integrated Motion on EtherNet/IP™ (selected models)
- Device Level Ring (DLR) for enhanced network resiliency
- Capability for localised control added with Bulletin 1769 CompactLogix™ I/O modules
- Distributed I/O via EtherNet/IP offers additional flexibility in I/O options
- Open socket capability for devices such as printers, barcode readers, and servers
- Embedded USB port provides easy access for firmware downloads and programming



1769-L30ER

Controller (memory)	Expansion (qty local)	EtherNet/IP (nodes, max)	CIP Motion (axes)	Item Type	Catalogue No.	\$AU
1 MB	8	16			1769-L30ER	4,116.40
1 MB	8	16		I	1769-L30ER-NSE	5,267.61
1 MB	8	16	4		1769-L30ERM	5,285.05
2 MB	16	32			1769-L33ER	5,878.09
2 MB	16	32	8		1769-L33ERM	7,430.46
3 MB	30	48	16		1769-L36ERM	10,011.95



**Click here for the
Rockwell Automation Training Schedule**

Compact GuardLogix™ 5370 L3 Safety Controllers

The Compact GuardLogix® 5370 controller broadens the Midrange Architecture to include Integrated Safety and Integrated Motion (via EtherNet/IP™) in a single controller. It utilises Studio 5000® software, the same configuration, networking and visualisation environment as large-scale ControlLogix® systems. The 5370 controller provides scalable integrated safety and motion options for a wider range of machines, providing a total solution for machine builders.

- Supports Integrated Safety and up to 16 axes of Integrated Motion on EtherNet/IP™
- Device Level Ring (DLR) Ethernet for enhanced network resiliency
- Capability for localised control added with Bulletin 1769 CompactLogix™ I/O modules
- Use standard and safety I/O in the same distributed I/O Rack
- Integrated safety control up to SIL 3 / PLE / CAT 4, via certified safety instructions and 1oo2 hardware structure
- Status indicators provide instantaneous information regarding the health of all aspects of the system



1769-L30ERMS

Controller (memory)	Safety (memory)	Expansion (qty local)	EtherNet/IP (nodes, max)	CIP Motion (axes)	Item Type	Catalogue No.	\$AU
1 MB	0.5 MB	8	16	4		1769-L30ERMS	7,686.87
2 MB	1 MB	16	32	8		1769-L33ERMS	9,394.48
3 MB	1.5 MB	30	48	16		1769-L36ERMS	12,080.62

CompactLogix™ Power Supplies

- AC or DC power options for CompactLogix™ controllers and distributed Compact I/O architecture



1769-PB2

Item Description	Item Type	Catalogue No.	\$AU
CompactLogix Power Supply 120/240V AC Input, 2A @ 5V DC Output		1769-PA2	543.10
CompactLogix Power Supply 24V DC Input, 2A @ 5V DC Output		1769-PB2	543.10
CompactLogix Power Supply 120/240V AC Input, 4A @ 5V DC Output		1769-PA4	889.30
CompactLogix Power Supply 24V DC Input, 4A @ 5V DC Output		1769-PB4	899.14

CompactLogix™ Communication Modules

1769-SM2

Item Description	Item Type	Catalogue No.	\$AU
CompactLogix DSI/Modbus Communications Module	I	1769-SM2	1,459.07
CompactLogix DeviceNet Scanner (63 Nodes)		1769-SDN	1,722.82
CompactLogix EtherNet/IP Adapter, Dual Port for DLR		1769-AENTR	1,837.66

CompactLogix™ Accessories

End Caps

Item Description	Item Type	Catalogue No.	\$AU
CompactLogix End Cap / Bus Terminator, Right Hand Side		1769-ECR	67.61
CompactLogix End Cap / Bus Terminator, Left Hand Side		1769-ECL	87.30



1769-ECL

Bus Expansion Cables

Item Description	Item Type	Catalogue No.	\$AU
CompactLogix Bus Expansion Cable, Right to Right, 30cm Length		1769-CRR1	331.44
CompactLogix Bus Expansion Cable, Right to Left, 30cm Length	I	1769-CRL1	342.92
CompactLogix Bus Expansion Cable, Right to Right, 1m Length		1769-CRR3	356.05
CompactLogix Bus Expansion Cable, Right to Left, 1m Length		1769-CRL3	364.25



1769-CRR1

Batteries

Item Description	Item Type	Catalogue No.	\$AU
CompactLogix Replacement Battery for Previous Series L2 and L3 Controllers		1769-BA	105.18



1769-BA

CompactLogix™ I/O Modules

Bulletin 1769 Compact I/O™ modules can be used as local or distributed I/O for a CompactLogix™ or Compact GuardLogix® controller. Rack-type features in a rackless design and built-in removable terminal blocks provide easy connections to field devices.

- Provides flexibility with DIN rail or panel mounting options
- Includes individual point diagnostic status indicators to ease troubleshooting
- Prevents incorrect positioning of module with software keying
- Connects as many as three banks of Compact I/O™ to a controller
- Distributed I/O architecture via a communication adapter module and power supply

CompactLogix™ Digital I/O Modules

- AC and DC modules available
- I/O density from 8 to 32 points per module
- Solid state and relay contact output modules available
- High speed input modules
- Input filtering is standard
- Optical isolation available

CompactLogix™ Digital DC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	24V DC Snk/Src	10 ... 26.4V DC	1769RTBN18		1769-IQ16	474.18
16	24V DC Snk/Src, High Speed	10 ... 26.4V DC	1769RTBN18		1769-IQ16F	570.99
32	24V DC Snk/Src	20.4 ... 26.4V DC	1746N3		1769-IQ32T	817.10
32	24V DC Snk/Src	10 ... 26.4V DC	1769RTBN18		1769-IQ32	833.51



1769-IQ16

CompactLogix™ Digital AC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
12	200/240V AC	159 ... 265V AC	1769RTBN18		1769-IM12	513.56
16	100/120V AC	79 ... 132V AC	1769RTBN18		1769-IA16	562.79



1769-IM12



1769-OB16

CompactLogix™ Digital DC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	24V DC Source	20.4 ... 26.4V DC	1769RTBN18		1769-OB8	500.44
16	24V DC Source	20.4 ... 26.4V DC	1769RTBN18		1769-OB16	623.50
16	24V DC Source, Protected	20.4 ... 26.4V DC	1769RTBN18		1769-OB16P	762.96
32	24V DC Source	10.2 ... 26.4V DC	1746N3		1769-OB32T	951.65
32	24V DC Source	20.4 ... 26.4V DC	1769RTBN18		1769-OB32	1,023.85



1769-OA16

CompactLogix™ Digital AC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	100/240V AC	85 ... 265V AC	1769RTBN18		1769-OA16	861.40



1769-OW8

CompactLogix™ Relay Output Modules

Relay Out (qty)	Relay Out (type)	Relay Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	NO AC/DC	5...265V AC / 5...125V DC	1769RTBN10		1769-OW8	429.88
8	NO AC/DC, Isolated	5...265V AC / 5...125V DC	1769RTBN18		1769-OW8I	580.84
16	NO AC/DC	5...265V AC / 5...125V DC	1769RTBN18		1769-OW16	795.77



1769-IQ6XOW4

CompactLogix™ Digital Combination Modules

Digital In (qty x type)	Digital In (range)	Digital Out (qty x type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
6 x 24V DC Snk/Src	10 ... 26.4V DC	4 x NO AC/DC	5...265V AC / 5...125V DC	1769RTBN18		1769-IQ6XOW4	479.10

CompactLogix™ Analogue I/O Modules

- Current, voltage, thermocouple and RTD modules available
- Over-range and under-range detection
- Selectable response to a input sensor fault
- Optional ability to direct output device operation during an abnormal condition
- Individually configurable channels

CompactLogix™ Analogue Input Modules



1769-IF8

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	Current / Voltage: Single-Ended / Differential	0 ... 20mA 4 ... 20mA -10 +10V DC 0 ... 10V DC 0 ... 5V DC 1 ... 5V DC	15 bit (signed)	1769RTBN18		1769-IF4	964.78
8	Current / Voltage: Single-Ended / Differential	0 ... 20mA 4 ... 20mA -10 +10V DC 0 ... 10V DC 0 ... 5V DC 1 ... 5V DC	16 bit (signed)	1769RTBN18		1769-IF8	1,547.26
4	Current / Voltage: Single-Ended / Differential, Isolated	0 ... 20mA 4 ... 20mA -10 +10V DC 0 ... 10V DC 0 ... 5V DC 1 ... 5V DC	16 bit (signed)	1769RTBN18		1769-IF4I	1,837.66
16	Current: Single-Ended	0 ... 20mA 0 ... 21mA	16 bit (signed)	1769RTBN18		1769-IF16C	2,247.86

CompactLogix™ Analogue Output Modules

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
2	Current / Voltage: Single-Ended	-10 +10V DC 0 ... 10V DC 0 ... 5V DC 1 ... 5V DC 0 ... 20mA 4 ... 20mA	14 bit (signed)	1769RTBN18		1769-OF2	969.69
4	Current / Voltage: Single-Ended	-10 +10V DC 0 ... 10V DC 1 ... 5V DC 0 ... 5V DC 0 ... 20mA 4 ... 20mA	16 bit (signed)	1769RTBN18		1769-OF4	1,498.02
4	Current: Single-Ended, Isolated	0 ... 20mA 4 ... 20mA	16 bit (signed)	1769RTBN18		1769-OF4CI	2,182.23
4	Voltage: Single-Ended, Isolated	-10 +10V DC 0 ... 10V DC 1 ... 5V DC 0 ... 5V DC	16 bit (signed)	1769RTBN18	I	1769-OF4VI	2,231.47
8	Current: Single-Ended	0 ... 20mA 4 ... 20mA	16 bit (signed)	1769RTBN18		1769-OF8C	2,887.77
8	Voltage: Single-Ended	-10 +10V DC 0 ... 10V DC 0 ... 5V DC 1 ... 5V DC	16 bit (signed)	1769RTBN18		1769-OF8V	2,904.18



1769-OF2

CompactLogix™ Analogue Combination Modules

Analogue In (qty x type)	Analogue In (range)	Analogue Out (qty x type)	Analogue Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4 x Current / Voltage: Single-Ended / Differential	0 ... 20mA 0 ... 10V DC	2 x Current / Voltage: Single-Ended	0 ... 20mA 0 ... 10V DC	1769RTBN18		1769-IF4XOF2	1,166.60
4 x Current / Voltage: Single-Ended / Differential, High Speed	0 ... 20mA 4 ... 20mA -10 +10V DC 0 ... 10V DC 1 ... 5V DC 0 ... 5V DC	2 x Current / Voltage: Single-Ended, High Speed	-10 +10V DC 0 ... 10V DC 0 ... 5V DC 1 ... 5V DC 0 ... 20mA 4 ... 20mA	1769RTBN18		1769-IF4FXOF2F	1,968.93



1769-IF4XOF2

CompactLogix™ RTD and Thermocouple Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
6	Thermocouple / mV	-50 ... 50mV DC -100 ... 100mV DC Type B Type C Type E Type J Type K Type N Type R Type S Type T	Configuration Dependent	1769RTBN18		1769-IT6	1,968.93
6	RTD / Resistance	0 ... 150Ω 0 ... 500Ω 0 ... 1kΩ 0 ... 3kΩ 100Ω Pt 385 100Ω Pt 392 200Ω Pt 385 200Ω Pt 392 500Ω Pt 385 500Ω Pt 392 1kΩ Pt 385 1kΩ Pt 392 120Ω Ni 618 120Ω Ni 672 10Ω NiFe 519	Configuration Dependent	1769RTBN18		1769-IR6	2,083.78



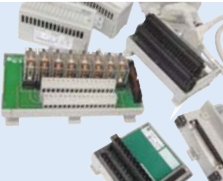
1769-IT6

CompactLogix™ Specialty Modules

Item Description	Item Type	Catalogue No.	\$AU
CompactLogix Address Reserve Module, 1 slot		1769-ARM	275.66
CompactLogix 2 Channel ASCII Module, Configurable RS232/RS485/RS422		1769-ASCII	1,396.31
CompactLogix High Speed Counter / Encoder Module, 2/4 Channel		1769-HSC	1,772.04



1769-ASCII



Looking for pre-wired cables and interface modules?

See the [Pre-Wired Cables and Connection Systems](#) range in the **TERMINATION AND WIRING SYSTEMS** section.

N3201D_dADVE-S01

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Compact PLC Systems

ProSoft® In-Chassis CompactLogix™ Communication Modules

- Integrate into your system using existing Studio5000® programming software
- All Encompass Partner products are supported under the Rockwell Automation TechConnect technical support program

ProSoft® Technology use licensed backplane technology to offer various modules for the Allen-Bradley® CompactLogix™ 5370 platform. Available protocols include Modbus RTU, Modbus TCP/IP, HART, PROFIBUS, ASCII and IEC 60870 among many others.



ProSoft® Modbus Communication Modules

Enhanced Modules

Protocol	Role	Total (ports)	Data (memory)	Commands (per Port)	Item Type	Catalogue No.	\$AU
Modbus RTU (Serial)	Master / Slave	2	10,000 words	250		MVI69E-MBS	3,342.00
Modbus TCP (Ethernet)	Client / Server	1	10,000 words	320		MVI69E-MBTCP	3,375.00



MVI69E-MBTCP

Lite Modules

Protocol	Role	Total (ports)	Data (memory)	Commands (per Port)	Item Type	Catalogue No.	\$AU
Modbus RTU (Serial)	Master / Slave	1	240 words	30		MVI69L-MBS	2,014.00
Modbus TCP (Ethernet)	Client / Server	1	240 words	160	I	MVI69L-MBTCP	2,110.00



MVI69L-MBTCP

Migration Platform

Protocol	Role	Total (ports)	Data (memory)	Commands (per Port)	Item Type	Catalogue No.	\$AU
Modbus RTU (Serial)	Master / Slave	1	240 words	30	I	MVI69-MCM	3,733.00



MVI69-MCM

ProSoft® IEC 60870-5 Communication Modules

Item Description	Item Type	Catalogue No.	\$AU
CompactLogix inRAX IEC 60870-5-104 EtherNet Server Communication Module	I	MVI69-104S	4,139.00

ProSoft® Profibus Communication Modules

Protocol (Protocol)	Role (Role)	Total (Ports)	Slaves (qty Max)	Input (memory)	Output (memory)	Item Type	Catalogue No.	\$AU
Profibus DP	Master	1	125	5712 B	5760 B	I	ILX69-PBM	4,010.00
Profibus DP	Slave	1	1	244 B	244 B	I	ILX69-PBS	4,583.00



ILX69-PBS

ProSoft® Flow Computer Module

Item Description	Item Type	Catalogue No.	\$AU
The Liquid and Gas Enhanced Flow Computer Module as an integrated component for CompactLogix systems	I	MVI69E-AFC	4,847.00



MVI69-DFNT

ProSoft® Proprietary Protocols Communication Modules

Item Description	Item Type	Catalogue No.	\$AU
CompactLogix inRAX Ethernet/Ip Client/Server Communication Module	I	MVI69-DFNT	3,479.00



MVI69-DNP

ProSoft® DNP3 Communication Modules

Protocol	Role	Ports	Slaves (qty max)	Commands (per Port)	Item Type	Catalogue No.	\$AU
DNP 3.0 (Serial)	Master / Slave	2 Total 1x Master/Slave 1x Slave Only	40	300	I	MVI69-DNP	4,105.00
DNP 3.0 (Ethernet)	Server	1 Total			I	MVI69-DNPSNET	4,105.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Compact PLC Systems

Allen-Bradley Bulletin 5069 CompactLogix™

5380 CompactLogix™ Controllers
5480 CompactLogix™ Controllers
Compact I/O™ Network Adapters
Compact I/O™ Modules
5380 CompactLogix™ Accessories

Page 507
Page 508
Page 509
Page 509
Page 511

- Embedded power supply with field power to I/O modules
- Support for up to 31 local bulletin 5069 I/O modules
- High-speed backplane for faster transfer rates
- Scrolling display provides enhanced diagnostics for information about system health
- Embedded 1Gb switch technology for DLR/Linear topology, or with individual IP addresses for network segregation

The CompactLogix™ system continues to expand performance capabilities with the 5380 CompactLogix™ controller and Bulletin 5069 Compact I/O platform. This combination is the ideal solution for users with a requirement for high-speed communications, faster code execution and improved screw-to-screw I/O performance. The 5380 CompactLogix™ system helps to future-proof your installation while unlocking the power of shared data via The Connected Enterprise. Now more than ever, machine builders can bring added value to their customers through a single, unified architecture, using EtherNet/IP™ for increased overall productivity.



5380 CompactLogix™ Controllers

The 5380 CompactLogix® controller helps enable faster performance, capacity, productivity and security to help meet the growing demands of smart machines and equipment for manufacturing when a compact solution is needed. With enhanced performance and troubleshooting capabilities, added security measures and many improved hardware features, the 5380 CompactLogix offers an option when a project demands fast code execution time, high motion axis count and compact control panel dimensions at a lower initial investment.

- 14 Models available to suit any high-performance midrange automation application
- Dual 1 Gigabit embedded Ethernet ports supports high speed transmission of I/O signals and motion commands
- Ethernet ports can be configured for DLR/Linear topology, or with individual IP addresses for network segregation
- Options available that support up to 32 axes of motion, and up to 80 EtherNet/IP™ nodes for large-scale machine applications

All 5380 CompactLogix™ Controllers are supplied without Removable Terminal Blocks, so the user can select the style that best suits their needs and preferences. The controller requires one 6-pin and one 4-pin terminal for supply and field power, please select either 5069-RTB64 kit in either Spring or Screw-type termination.

Standard Controllers

- Ideal for small to large applications that require low axis motion and I/O point counts
- Enable high-speed I/O, motion control, Device Level Ring and Linear topologies
- Offer a 1 gigabit (Gb) embedded EtherNet/IP port that enables CIP safety connections, I/O and safety devices
- Include dual configurable ports that support Dual-IP address
- Provide enhanced diagnostics and troubleshooting with controller status and fault display
- Offer controller functions optimized for maximum system performance
- Offer enhanced security features that include controller-based change detection, logging, encrypted firmware
- and role-based access control to routines and Add-On Instructions
- Support up to 31 local Compact 5000™ I/O modules
- Offer integrated motion on EtherNet/IP up to 32 axes
- Offer a wide range of memory options from 0.6...10 MB

Controller (memory)	Expansion (qty local)	EtherNet/IP (nodes, max)	CIP Motion (axes)	Item Type	Catalogue No.	\$AU
0.6 MB	8	16			5069-L306ER	2,338.93
0.6 MB	8	16	2		5069-L306ERM	3,124.66
1 MB	8	24	4	I	5069-L310ERM	6,157.94
1 MB	8	24			5069-L310ER	5,006.77
2 MB	16	40			5069-L320ER	6,998.51
2 MB	16	40	8		5069-L320ERM	8,661.34
3 MB	31	50			5069-L330ER	10,232.79
3 MB	31	50	16	I	5069-L330ERM	12,553.44
4 MB	31	55			5069-L340ER	14,654.83
4 MB	31	55	20	I	5069-L340ERM	17,121.66
5 MB	31	60	24	I	5069-L350ERM	21,379.23
8 MB	31	70	28	I	5069-L380ERM	24,120.17
10 MB	31	180	32	I	5069-L3100ERM	27,409.27



5069-L306ER

Safety Controllers

- Achieve up to SIL 2/PLD with 1oo1 architecture or up to SIL 3/PLD with 1oo2 architecture
- Offer standard memory options from 0.6...10 MB
- Offer safety memory options from 0.3...5 MB
- Offer 1 gigabit (Gb) embedded Ethernet port
- Support communication options for up to 180 EtherNet/IP nodes
- Offer conformal coated options for harsh environments
- Provide single controller/software/network for standard and safety control
- Ability to mix and match safety and standard I/O
- Provide integrated safety functions with drives and motion

5380 Safety SIL2 Controllers

5069-L306ERS2

Controller (memory)	Safety (memory)	Expansion (qty local)	EtherNet/IP (nodes, max)	CIP Motion (axes)	Item Type	Catalogue No.	\$AU
0.6 MB	0.3 MB	8	16			5069-L306ERS2	2,576.47
0.6 MB	0.3 MB	8	16	2		5069-L306ERSM2	3,325.67
1 MB	0.5 MB	8	24			5069-L310ERS2	5,262.81
1 MB	0.5 MB	8	24	4	I	5069-L310ERSM2	6,760.95
2 MB	1 MB	16	40			5069-L320ERS2	7,345.69
2 MB	1 MB	16	40	8		5069-L320ERSM2	9,447.05
3 MB	1.5 MB	31	60			5069-L330ERS2	11,457.08
3 MB	1.5 MB	31	60	16		5069-L330ERSM2	13,503.64
4 MB	2 MB	31	90		I	5069-L340ERS2	15,385.75
4 MB	2 MB	31	90	20	I	5069-L340ERSM2	18,274.61
5 MB	2.5 MB	31	120		I	5069-L350ERS2	19,372.51
5 MB	2.5 MB	31	120	24	I	5069-L350ERSM2	22,657.34
8 MB	4 MB	31	150		I	5069-L380ERS2	22,475.60
8 MB	4 MB	31	150	28	I	5069-L380ERSM2	25,579.15
10 MB	5 MB	31	180		I	5069-L3100ERS2	26,314.03
10 MB	5 MB	31	180	32	I	5069-L3100ERSM2	29,235.84

5380 Safety SIL3 Controllers

5069-L306ERMS3

Controller (memory)	Safety (memory)	Expansion (qty local)	EtherNet/IP (nodes, max)	CIP Motion (axes)	Item Type	Catalogue No.	\$AU
0.6 MB	0.3 MB	8	16	2		5069-L306ERMS3	3,959.72
1 MB	0.5 MB	8	24	4	I	5069-L310ERMS3	7,550.34
2 MB	1 MB	16	40	8	I	5069-L320ERMS3	10,258.38
3 MB	1.5 MB	31	60	16	I	5069-L330ERMS3	14,395.35
4 MB	2 MB	31	90	20	I	5069-L340ERMS3	19,615.91
5 MB	2.5 MB	31	120	24	I	5069-L350ERMS3	24,878.48
8 MB	4 MB	31	150	28	I	5069-L380ERMS3	27,025.54
10 MB	5 MB	31	180	32	I	5069-L3100ERMS3	30,797.05

5480 CompactLogix™ Controllers

The Bulletin 5069 CompactLogix™ 5480 controllers are real-time controllers with Windows 10 IoT Enterprise running in parallel to the Logix control engine. Our CompactLogix 5480 uses the same re-architected control engine deployed in the ControlLogix® 5580 and CompactLogix 5380 controllers. This line of Logix controllers supports embedded Windows applications, such as analytics, data gathering, and predictive computations. The ability to collect data and make decisions at the machine level helps to support the Connected Enterprise and benefits both end users and OEMs

- Provides a Logix-based real-time controller that runs an instance of Windows 10 IoT Enterprise
- Supported in Studio 5000 Logix Designer® version 32
- Is ideal for mid-size to large applications requiring high performance control and data throughput
- Enables high-speed I/O, motion control, and Device Level Ring/Linear topologies
- Includes three GbE Ethernet/IP ports that enable high-speed communications, I/O, and motion control (two are configurable, and support Dual IP address or Device Level Ring)
- Includes one GbE Ethernet port as a dedicated commercial OS network interface
- Supports up to 31 local Bulletin 5069 Compact I/O™ modules
- Offers enhanced security features that include digitally-signed controller firmware, controller-based change detection, and a log of role-based access control to routines and Add-On instructions
- Allows users to deploy Windows 10 based off the shelf and/or custom applications while tightly integrated with real time Logix control
- Includes integrated DisplayPort for high definition industrial monitor connectivity
- Includes two USB 3.0 ports for OS peripheral and expanded data storage capability



5069-L430ERMW

Controller (memory)	Expansion (qty local)	EtherNet/IP (nodes, max)	CIP Motion (axes)	Item Type	Catalogue No.	\$AU
3 MB	31	60	16	I	5069-L430ERMW	13,202.13
5 MB	31	120	24	I	5069-L450ERMW	22,475.60
10 MB	31	180	32	I	5069-L4100ERMW	29,008.15
20 MB	31	250	150	I	5069-L4200ERMW	32,754.09

Compact I/O™ Network Adapters

The Compact I/O™ Network Adapter allows the 5069 Compact I/O™ modules to function as distributed I/O as part of a larger control system. This series of I/O can be used as a high-performance distributed I/O platform for both the 5380 CompactLogix™ system (5069-L3) and the 5580 ControlLogix® system (1756-L8).

The Compact I/O™ Network Adapter is supplied without Removable Terminal Blocks, so the user can select the style that best suits their needs and preferences. The adapter requires one 6-pin and one 4-pin terminal for supply and field power, please select the 5069-RTB64 kit in either Spring or Screw-type termination.

Item Description	Item Type	Catalogue No.	\$AU
Compact I/O Slim EtherNet/IP Communications Adapter, Dual Port		5069-AENTR	1,617.15



5069-AENTR

Compact I/O™ Modules

- Low footprint modules (22mm wide) allow a higher density of I/O in a smaller footprint
- High speed backplane facilitates packet transfer rate of 4.4us
- Enhanced module functions include Simple counting, Events, Scheduled output, Time stamping
- Specialty modules available, including Field Power Distributor, Address Reserve Module and Motion I/O module

All Bulletin 5069 I/O Modules are supplied without Removable Terminal Blocks, so the user can select the style that best suits their needs and preferences. Compatible terminal blocks are listed for each I/O module, and further selection information appears at the end of this section.

Compact I/O™ Digital I/O Modules**Compact I/O™ Digital DC Input Modules**

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	12/24V DC Sink	10 ... 32V DC	5069RTB18SCREW 5069RTB18SPRING		5069-IB16	480.58
16	12/24V DC Sink, High Speed	10 ... 32V DC	5069RTB18SCREW 5069RTB18SPRING		5069-IB16F	533.57
6	12/24V DC Sink, High Speed, 3-wire	10 ... 32V DC	5069RTB18SCREW 5069RTB18SPRING	I	5069-IB6F-3W	959.32



5069-IB16F

Compact I/O™ Digital AC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	120/240V AC	79 ... 265V AC	5069RTB18SCREW 5069RTB18SPRING		5069-IA16	690.72



5069-IA16

Compact I/O™ Digital DC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	12/24V DC Source	10 ... 32V DC	5069RTB18SCREW 5069RTB18SPRING		5069-OB8	542.69
16	12/24V DC Source	10 ... 32V DC	5069RTB18SCREW 5069RTB18SPRING		5069-OB16	621.28
16	12/24V DC Source, High Speed	10 ... 32V DC	5069RTB18SCREW 5069RTB18SPRING		5069-OB16F	1,189.58



5069-OB16F

Compact I/O™ Digital AC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	120/240V AC	85 ... 264V AC	5069RTB18SCREW 5069RTB18SPRING	I	5069-OA16	1,244.37



5069-OA16



5069-OW4I

Compact I/O™ Relay Output Modules

Relay Out (qty)	Relay Out (type)	Relay Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	NO AC/DC	5...264V AC / 5...125V DC	5069RTB18SCREW 5069RTB18SPRING	I	5069-OW4I	539.05
4	CO AC/DC	5...264V AC / 5...125V DC	5069RTB18SCREW 5069RTB18SPRING		5069-OW4I	816.79
16	NO AC/DC	5...264V AC / 5...125V DC	5069RTB18SCREW 5069RTB18SPRING		5069-OW16	1,279.10

Compact I/O™ Analogue I/O Modules

Compact I/O™ Analogue Input Modules



5069-IF8

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	V / mA, Differential	-10 +10V DC 0 ... 10V DC 0 ... 5V DC 0 ... 20mA 4 ... 20mA	16 bit (signed)	5069RTB18SCREW 5069RTB18SPRING		5069-IF8	1,584.26

Compact I/O™ Analogue Output Modules



5069-OF8

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	V / mA, Differential	-10 +10V DC 0 ... 10V DC 0 ... 5V DC 0 ... 20mA 4 ... 20mA	16 bit (signed)	5069RTB18SCREW 5069RTB18SPRING		5069-OF4	1,505.68
8	V / mA, Differential	-10 +10V DC 0 ... 10V DC 0 ... 5V DC 0 ... 20mA 4 ... 20mA	16 bit (signed)	5069RTB18SCREW 5069RTB18SPRING		5069-OF8	2,777.48

Compact I/O™ RTD and Thermocouple Modules



5069-IY4

Analogue In (qty)	Analogue In (type)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	V / mV / mA / Ω / RTD / TC, Differential	16 bit (signed)	5069RTB18SCREW 5069RTB18SPRING 5069RTB14CJSCREW 5069RTB14CJCSRING		5069-IY4	942.88

Compact I/O™ Specialty Modules

- Field Potential Distributor module available to split or change power supply to field devices mid-backplane
- Address Reserve Module allows a user to retain a node address for later insertion of an alternative I/O card
- High Speed Counter Module for 2-axis encoder feedback, with 4-channel sourcing digital output



5069-FPD

Item Description	Item Type	Catalogue No.	\$AU
Compact I/O Field Potential Distributor		5069-FPD	286.88
Compact I/O Address Reserve Module	I	5069-ARM	310.63
Compact I/O 2-Channel High Speed Counter and 4 Digital Out 24VDC Module		5069-HSC2XOB4	1,790.74

Looking for pre-wired cables and interface modules?

See the **Pre-Wired Cables and Connection Systems** range in the **TERMINATION AND WIRING SYSTEMS** section.

N3201D_dADVE-S01

Compact I/O™ Safety Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	12/24V DC Source	18 ... 32V DC	5069RTB18SPRING 5069RTB18SCREW		5069-IB8S	1,092.72



5069-IB8S

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	24V DC Sink	18 ... 32V DC	5069RTB18SPRING 5069RTB18SCREW		5069-OBV8S	1,403.36



5069-OBV8S

5380 CompactLogix™ Accessories

Item Description	Item Type	Catalogue No.	\$AU
5069 CompactLogix/Compact GuardLogix End Cap (Comes with Adapter)		5069-ECR	44.93

Terminal Blocks

Compact I/O™ Terminal Blocks are available in either spring or screw termination method. The 5380 CompactLogix Controllers and the Compact I/O Network Adapter requires one 6-pin and one 4-pin terminal, which are provided in the RTB64 kit. As can be seen in the I/O selection tables, the 18-pin terminals are the most common configuration across the range, however 14-pin alternatives are available with built-in CJC sensors for thermocouple applications. The Compact I/O Field Power Distributor (5069-FPD) requires a 6-pin terminal only.

Item Description	Item Type	Catalogue No.	\$AU
Compact I/O Terminal Block 5Pin Screw Type (Qty 1)		5069-RTB5-SCREW	31.06
Compact I/O Terminal Block 5Pin Spring Type (Qty 1)		5069-RTB5-SPRING	31.06
Compact I/O Terminal Block 6Pin Screw Type (Qty 1)		5069-RTB6-SCREW	37.45
Compact I/O Terminal Block 6Pin Spring Type (Qty 1)	I	5069-RTB6-SPRING	37.45
Compact I/O Terminal Block 6Pin & 4Pin Screw Type (1 Set)		5069-RTB64-SCREW	61.77
Compact I/O Terminal Block 6Pin & 4Pin Spring Type (1 Set)		5069-RTB64-SPRING	61.77
Compact I/O Terminal Block 14Pin, Built-in CJC Sensors Screw Type (Qty 1)		5069-RTB14CJC-SCREW	112.92
Compact I/O Terminal Block 14Pin, Built-in CJC Sensors Spring Type (Qty 1)	I	5069-RTB14CJC-SPRING	112.92
Compact I/O Terminal Block 18Pin Screw Type (Qty 1)		5069-RTB18-SCREW	112.92
Compact I/O Terminal Block 18Pin Spring Type (Qty 1)		5069-RTB18-SPRING	112.92



5069-RTB64-SPRING

Large PLC Systems

Allen-Bradley ControlLogix®

ControlLogix® Chassis	Page 512
ControlLogix® Power Supplies	Page 512
ControlLogix® and GuardLogix® Controllers	Page 513
ControlLogix® Communication Modules	Page 514
ControlLogix® I/O Modules	Page 514
ControlLogix® Specialty Modules	Page 518
ControlLogix® Redundancy	Page 518
ControlLogix® Accessories	Page 518



- High performance in an easy-to-use environment
- Tight integration between the programming software, controller, and I/O modules reduces development time and cost at commissioning and during normal operation
- Perform standard and safety control in the same chassis for a truly integrated system
- Leverage the high-availability and extreme environment capabilities to meet your application needs

ControlLogix® and GuardLogix® systems use a common control engine with a common development environment to provide high performance in an easy-to-use environment. Tight integration between the programming software, controller, and I/O modules reduces development time and cost at commissioning and during normal operation. You can perform standard and safety control in the same chassis for a truly integrated system. Leverage the high-availability and extreme environment capabilities to meet your application needs.

ControlLogix® Chassis

Modular ControlLogix® and GuardLogix® systems require a 1756 chassis designed for horizontal-only, back-panel mounting, any module may be placed in any slot. The backplane provides a high-speed communication path between modules and chassis are available in standard and extreme environment models.

- Distributes power to each of the modules in the chassis via the backplane
- Slot guides and snap-in retention for easy and secure fit for any type of 1756 module
- Slot fillers specifically designed for the standard or extreme environment chassis (optional)
- Accommodates direct mounting for any 1756 power supply
- Conformal coated options are available - contact NHP for further information



1756-A7

Item Description	Item Type	Catalogue No.	\$AU
ControlLogix Chassis 4 Slot		1756-A4	623.22
ControlLogix Chassis 7 Slot		1756-A7	954.37
ControlLogix Chassis 10 Slot		1756-A10	1,162.13
ControlLogix Chassis 13 Slot		1756-A13	1,396.94
ControlLogix Chassis 17 Slot		1756-A17	1,640.81

ControlLogix® Power Supplies

1756 ControlLogix® Power Supplies are to be used with the 1756 ControlLogix® chassis to provide 1.2 V, 3.3 V, 5 V and 24 V DC power directly to the chassis backplane. These power supplies are available in standard, redundant and extreme environment models.

- All regulated voltages necessary for any ControlLogix® module to operate in the chassis
- Limited hold-up time for fluctuations in incoming line power
- Enables orderly system shutdown by signaling modules in the chassis of imminent voltage failure
- conformal coated options are available - contact NHP for further information



1756-PB72

Item Description	Item Type	Catalogue No.	\$AU
ControlLogix Power Supply Redundant Chassis Adapter Module		1756-PSCA2	370.31
ControlLogix Slim Line Power Supply 85-265V AC (8A @ 5V)		1756-PA50	1,701.03
ControlLogix Slim Line Power Supply 18-32V DC (8A @ 5V)		1756-PB50	1,701.03
ControlLogix Power Supply 85-265V AC (10 Amp @ 5V)		1756-PA72	1,716.09
ControlLogix Power Supply 19-32V DC (10 Amp @ 5V)		1756-PB72	1,716.09
ControlLogix Power Supply 85-265V AC (13 Amp @ 5V)		1756-PA75	2,092.42
ControlLogix Power Supply 19-32V DC (13 Amp @ 5V)		1756-PB75	2,092.42
ControlLogix Power Supply 30-60V DC (13 Amp @ 5V)	I	1756-PC75	2,092.42
ControlLogix Power Supply 90-143V DC 13A	I	1756-PH75	2,092.42
ControlLogix Power Supply Redundant 85-265V AC		1756-PA75R	2,273.05
ControlLogix Power Supply Redundant 19-32V DC		1756-PB75R	2,273.05
ControlLogix Power Supply Redundant Kit 85-265V AC 13A	K	1756-PAR2	5,223.50
ControlLogix Power Supply Kit Redundant 19-32V DC 13A	K	1756-PBR2	5,223.50



Click here for the
Rockwell Automation Training Schedule

ControlLogix® and GuardLogix® Controllers

The 1756 ControlLogix® Standard and GuardLogix® Safety Controllers use common network protocols via EtherNet/IP™, ControlNet™ and DeviceNet™ networks. As part of the Rockwell Automation® Integrated Architecture™ system, these controllers use Studio 5000® (formerly RSLogix™ 5000) environment. These high-performance controllers provide a common control engine with a common development environment for all control disciplines. Consider these controllers for sophisticated machines and for connectivity to business systems.

- Support removal and insertion under power (RIUP)
- Support Integrated Motion on EtherNet/IP™
- Let you program using relay ladder logic, structured text, function block, and SFC languages
- Offer flexible user memory options
- Safety and Standard Controllers communicates via EtherNet/IP, ControlNet, DeviceNet networks

ControlLogix® L8x Controllers

Our ControlLogix® 5580 Controllers provide increased performance, capacity, productivity, and security to help meet the growing demands of smart machines and equipment for manufacturing. The ControlLogix® 5580 controllers use the Studio 5000® Automation Engineering & Design Environment™ application as a common design environment and Integrated Motion over EtherNet/IP™ for high-speed motion applications. These controllers are ideal for applications requiring high-performance communications, I/O, and motion control for up to 256 axes, and provide increased capacity of up to 45%.

- Provides up to 45% more capacity over previous controller generations
- Embedded gigabit EtherNet/IP™ port enables high-speed I/O and motion control
- Controller functions optimized for maximum system performance
- Display provides enhanced diagnostics and troubleshooting
- Energy storage module removes the need for a battery
- Controller-based change detection and logging enables added security
- Digitally-signed controller firmware adds another layer of security
- Provides role-based access control to routines and Add-On Instructions

Item Description	Item Type	Catalogue No.	\$AU
ControlLogix 5580 Processor 3 MB User Memory, USB Port, 1GB embedded Ethernet port, 60 EtherNet/IP Devices, 4 Character Alpha/Numeric Display		1756-L81E	11,731.52
ControlLogix 5580 NSE processor 3MB		1756-L81E-NSE	12,900.24
ControlLogix 5580 Processor 5 MB User Memory, USB Port, 1GB embedded Ethernet port, 80 EtherNet/IP Devices, 4 Character Alpha/Numeric Display		1756-L82E	16,973.08
ControlLogix 5580 NSE processor 5MB	I	1756-L82E-NSE	18,664.19
ControlLogix 5580 Processor 10 MB User Memory, USB Port, 1GB embedded Ethernet port, 100 EtherNet/IP Devices, 4 Character Alpha/Numeric Display		1756-L83E	24,304.18
ControlLogix 5580 NSE processor 10MB	I	1756-L83E-NSE	26,739.03
ControlLogix 5580 Processor 20 MB User Memory, USB Port, 1GB embedded Ethernet port, 150 EtherNet/IP Devices, 4 Character Alpha/Numeric Display		1756-L84E	30,333.74
ControlLogix 5580 NSE processor 20MB	I	1756-L84E-NSE	33,361.80
ControlLogix 5580 Processor 40 MB User Memory, USB Port, 1GB embedded Ethernet port, 300 EtherNet/IP Devices, 4 Character Alpha/Numeric Display		1756-L85E	35,266.62
ControlLogix 5580 NSE processor 40MB	I	1756-L85E-NSE	44,018.46



1756-L81E

GuardLogix® L8x Safety Controllers

Item Description	Item Type	Catalogue No.	\$AU
GuardLogix 5580, Safety Partner Controller		1756-L8SP	2,080.68
GuardLogix 5580 Processor 3 MB User Memory, USB Port, 1GB embedded Ethernet port, 100 EtherNet/IP Devices, 4 Character Alpha/Numeric Display		1756-L81ES	12,944.52
GuardLogix 5580 Processor 5 MB User Memory, USB Port, 1GB embedded Ethernet port, 175 EtherNet/IP Devices, 4 Character Alpha/Numeric Display		1756-L82ES	18,540.24
GuardLogix 5580 Processor 10 MB User Memory, USB Port, 1GB embedded Ethernet port, 250 EtherNet/IP Devices, 4 Character Alpha/Numeric Display		1756-L83ES	26,517.68
GuardLogix 5580 Processor 20 MB User Memory, USB Port, 1GB embedded Ethernet port, 250 EtherNet/IP Devices, 4 Character Alpha/Numeric Display		1756-L84ES	32,432.14



1756-L84ES

ControlLogix® L7x Controllers

Our ControlLogix® 5570 Controllers are available in standard, safety, extreme temperature, and On-Machine models suitable for process, motion, discrete, and high-availability applications. As part of our Integrated Architecture™ system, these controllers use the Studio 5000® Automation Engineering & Design Environment™ and common network protocols. These high-performance controllers provide a common control engine with a common development environment for all control disciplines.

- Offer flexible user memory options
- Communicates via EtherNet/IP™, ControlNet™, DeviceNet™, Data Highway Plus™, Remote I/O, SynchLink, and third-party process and device networks
- Includes conformal coating on products that include a "K" in the catalogue number, to help protect in harsh environments



1756-L72

Item Description	Item Type	Catalogue No.	\$AU
ControlLogix 5571 Processor 2MB		1756-L71	9,561.61
ControlLogix 5572 Processor 4MB		1756-L72	13,851.48
ControlLogix 5573 Processor 8MB		1756-L73	19,787.84
ControlLogix 5574 Processor 16MB		1756-L74	24,772.56
ControlLogix 5575 Processor 32MB		1756-L75	32,627.27

GuardLogix® L7x Safety Controllers

- Provides safety and integrated motion in the same chassis
- Offer TUV certification for SIL 3 functional safety (controller and safety partner required)
- Simplifies machine architecture and reduce system footprint with the Armor GuardLogix® controller
- Can operate in environments with -25 to 70°C (-13 to 158°F) when used independently
- Can operate in environments with -20 to 70°C (-4 to 158°F) when used with FLEX™ I/O-XT modules



1756-L7SP

Item Description	Item Type	Catalogue No.	\$AU
GuardLogix 557xS Safety Partner Processor For 1756-L7xS Processors		1756-L7SP	2,005.45
GuardLogix Integrated Safety PAC 2MB Standard Memory And 1MB Safety Memory	I	1756-L71S	10,286.31
GuardLogix Integrated Safety PAC 4MB Standard Memory And 2MB Safety Memory		1756-L72S	15,135.96

ControlLogix® Communication Modules

Separate communication modules are available for different networks. Install multiple communication modules into the ControlLogix® backplane to bridge or route control and information data between different networks. You can route a message through a maximum of four chassis (eight communication hops). You do not need a ControlLogix® controller in the chassis.

- Conformal coated options are available – contact NHP for further information



1756-EN2T

Item Description	Item Type	Catalogue No.	\$AU
ControlLogix DeviceNet Bridge/Scanner Module		1756-DNB	2,296.53
ControlLogix ControlNet Interface Module (100 Connections)		1756-CN2	4,456.59
ControlLogix Ethernet 10-100M Interface Module (Supports 128 TCP/IP Connections)		1756-EN2T	4,921.11
EtherNet/IP communication module, PRP dual port, 10/100M twisted pair, 128 TCP connections	I	1756-EN2TP	5,323.75
ControlLogix Ethernet Dual Port 10-100M Interface Module (Supports 128 TCP/IP Connections, Up To 8 Axis), Ring And Linear Topologies		1756-EN2TR	5,323.75
ControlLogix ControlNet Redundant Interface Module (100 Connections)	I	1756-CN2R	5,582.14
ControlLogix Ethernet Module Fiber High Capacity	I	1756-EN2F	5,756.22
EtherNet/IP communication module, dual port, 10M/100M/1G twisted pair, 512 TCP connections, 256 axes	I	1756-EN4TR	6,129.03
ControlLogix Ethernet Bridge Module 2-10/100 Mbps CIP		1756-EN3TR	6,859.73

ControlLogix® I/O Modules

1756 ControlLogix® I/O modules provide a full range of digital, diagnostic digital, analogue and motion control I/O to meet your application needs. You can use any of the I/O modules in the local chassis of a ControlLogix® controller or in a chassis linked to a ControlLogix® controller across ControlNet™ or EtherNet/IP™ networks. Each ControlLogix® I/O module requires either a removable terminal block (RTB) or a 1492 interface module (IFM) to connect all field-side wiring. RTBs and IFMs are not included with I/O modules and must be ordered separately.

- Mounts in a ControlLogix® chassis
- Requires either a removable terminal block (RTB) or a Bulletin 1492 wiring interface module (IFM) to connect all field-side wiring
- Inherent time-stamping capabilities for sequence of events (SOE) applications
- Comprehensive I/O diagnostics for detection of both system and field-side failures
- Removal and insertion under power (RIUP) for ease of maintenance
- Electronic keying to help prevent replacement errors
- I/O wizards in the Studio 5000® Logix Designer application enable quick and easy module configuration
- Conformal coated options are available - contact NHP for further information

ControlLogix® Digital I/O Modules

- Variety of voltages
- 8 to 32 points per module
- Isolated and nonisolated module types
- Point-level output fault states
- Direct-connect or rack-optimized communication
- Field-side diagnostics on select modules

ControlLogix® Digital DC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	12V DC Sinking (PNP) 24V DC Sinking (PNP)	10 ... 31.2V DC	1756TBNH 1756TBSH		1756-IB16	677.41
32	12/24V DC Sink	10 ... 31.2V DC	1756TBCH 1756TBS6H		1756-IB32	891.15
32	24V DC Sourcing (NPN) 12V DC Sourcing (NPN)	10 ... 30V DC	1756TBCH 1756TBS6H	I	1756-IV32	891.15
16	12/24V DC Sinking/Sourcing	10 ... 30V DC	1756TBCH 1756TBS6H	I	1756-IB16IF	930.29
16	12/24V DC Sinking/Sourcing	10 ... 30V DC	1756TBCH 1756TBS6H		1756-IB16I	1,047.71
16	48V DC Sinking (PNP)	30 ... 60V DC	1756TBNH 1756TBSH		1756-IC16	1,068.79
16	12V DC Sinking (PNP) 24V DC Sinking (PNP)	10 ... 30V DC	1756TBCH 1756TBS6H	I	1756-IB16D	1,144.04



1756-IC16

ControlLogix® Digital AC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	120V AC	74 ... 132V AC	1756TBNH 1756TBSH		1756-IA16	868.58
16	120V AC	74 ... 132V AC	1756TBCH 1756TBS6H	I	1756-IA16I	1,094.38
16	24V AC	10 ... 30V AC	1756TBNH 1756TBSH		1756-IN16	1,010.00
16	240V AC	159 ... 265V AC	1756TBCH 1756TBS6H	I	1756-IM16I	1,133.51
32	120V AC	74 ... 132V AC	1756TBCH 1756TBS6H	I	1756-IA32	1,625.75



1756-IA16

ControlLogix® Relay Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	NO / NC Relay, Isolated	10...240V AC / 5...125V DC	1756TBCH 1756TBS6H	I	1756-OX8I	842.98
16	NO Relay, Isolated	10...240V AC / 5...125V DC	1756TBCH 1756TBS6H		1756-OW16I	1,180.19



1756-OW16I

ControlLogix® Digital DC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	12/24V DC Sourcing	10 ... 30V DC	1756TBNH 1756TBSH	I	1756-OB8	882.13
16	12/24V DC Sourcing	10 ... 31.2V DC	1756TBNH 1756TBSH		1756-OB16E	1,040.18
16	24V DC Sinking / Sourcing	10 ... 30V DC	1756TBCH 1756TBS6H	I	1756-OB16IEF	1,187.72
32	12/24V DC Sourcing	10 ... 31.2V DC	1756TBCH 1756TBS6H		1756-OB32	1,262.97
16	12/24V DC Sinking / Sourcing	10 ... 30V DC	1756TBCH 1756TBS6H		1756-OB16I	1,368.36
16	24V DC Sourcing (NPN)	19.2 ... 30V DC	1756TBCH 1756TBS6H		1756-OB16D	1,535.44



1756-OB16E

ControlLogix® Digital AC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	120 / 240V AC	74 ... 265V AC	1756TBNH 1756TBSH		1756-OA16	1,228.35
16	120 / 240V AC Isolated	74 ... 265V AC	1756TBCH 1756TBS6H		1756-OA16I	1,535.44



1756-OA16

ControlLogix® Analogue I/O Modules

- Input, output, and combination modules
- Thermocouple and RTD modules
- On-board data alarming
- Scaling to engineering units
- Real-time channel sampling
- Electronic module keying, software configurable
- Mechanical RTB keying, user-defined

ControlLogix® Analogue Input Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	Current / Voltage: Single-Ended / Differential, High Speed	-10 +10V DC 0 ... 5V DC 0 ... 10V DC 0 ... 20mA	16 bit (signed)	1756TBCH 1756TBS6H		1756-IF8	2,002.09
8	Current / Voltage: Differential	-10 +10V DC 0 ... 5V DC 0 ... 10V DC 1 ... 5V DC 0 ... 20mA 4 ... 20mA	16 ... 21 bit (signed)	1756TBCH 1756TBS6H		1756-IF8H	2,559.07
16	Current / Voltage: Single-Ended / Differential, High Speed	-10 +10V DC 0 ... 5V DC 0 ... 10V DC 0 ... 20mA	16 bit (signed)	1756TBCH 1756TBS6H		1756-IF16	2,890.25
16	HART - Current: Differential	0 ... 20mA 4 ... 20mA	16 ... 21 bit (signed)	1756TBCH 1756TBS6H		1756-IF16H	3,838.62
8	Current / Voltage: Single-Ended, Isolated	-10 +10V DC 0 ... 5V DC 0 ... 10V DC 0 ... 20mA	16 bit (signed)	1756TBCH 1756TBS6H		1756-IF8I	4,109.56
16	HART - Current: Differential	0 ... 20mA 4 ... 20mA	16 ... 21 bit (signed)	1756TBCH 1756TBS6H		1756-IF16IH	7,421.30

ControlLogix® Analogue Output Modules

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	Current / Voltage: Single-Ended	-10 +10V DC 0 ... 20mA	15 bit (signed)	1756TBNH 1756TBSH		1756-OF4	2,273.05
8	Current / Voltage: Single-Ended	-10 +10V DC 0 ... 20mA	15 bit (signed)	1756TBNH 1756TBSH		1756-OF8	3,763.34
8	HART - Current / Voltage: Single-Ended, Isolated	-10 +10V DC 0 ... 20mA 4 ... 20mA	15 bit (signed)	1756TBNH 1756TBSH		1756-OF8H	4,711.70
8	Current / Voltage: Single-Ended, Isolated	-10 +10V DC 0 ... 5V DC 0 ... 10V DC 0 ... 20mA	16 bit (signed)	1756TBCH 1756TBS6H		1756-OF8I	4,892.34
8	HART - Current: Single-Ended, Isolated	0 ... 20mA 4 ... 20mA	15 bit (signed)	1756TBCH 1756TBS6H		1756-OF8IH	5,855.75

ControlLogix® Analogue Combination Modules

Analogue In (type x qty)	Analogue In (range)	Analogue Out (type x qty)	Analogue Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4 x Current / Voltage: Differential	-10 +10V DC 0 ... 5V DC 0 ... 10V DC 0 ... 20mA	2 x Current / Voltage: Single-Ended, High Speed	-10 +10V DC 0 ... 20mA	1756TBCH 1756TBS6H		1756-IF4FXOF2F	4,365.47



1756-IF8H



1756-OF8IH



1756-IF4FXOF2F

ControlLogix® RTD and Thermocouple Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	RTD / Resistance / Thermocouple / mV, Isolated	1 ... 500Ω	24 bit (signed)	1756TBCH 1756TBS6H		1756-IRT8I	4,546.11
		2 ... 1kΩ					
		4 ... 2kΩ					
		8 ... 4kΩ					
		-100 ... 100mV DC					
		100Ω Pt 385					
		200Ω Pt 385					
		500Ω Pt 385					
		1kΩ Pt 385					
		100Ω Pt 392					
		200Ω Pt 392					
		500Ω Pt 392					
		1kΩ Pt 392					
		10Ω Cu 427					
		120Ω Ni 672					
		100Ω Ni 618					
		120Ω Ni 618					
		200Ω Ni 618					
		500Ω Ni 618					
		Type B					
		Type D					
		Type C					
		Type E					
		Type J					
		Type K					
		Type N					
		Type R					
		Type S					
		Type T					
		Type TXK / XK					
		Type L					



1756-IRT8I

Looking for pre-wired cables and interface modules?

See the **Pre-Wired Cables and Connection Systems** range in the **TERMINATION AND WIRING SYSTEMS** section.

N3201D_dADVE-S01

ControlLogix® Safety I/O Modules

- Variety of voltages
- 8 to 32 points per module
- Isolated and nonisolated module types
- Point-level output fault states
- Direct-connect or rack-optimized communication
- Field-side diagnostics on select modules

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	12/24V DC Sink	10 ... 31.2V DC	1756TBNH 1756TBSH	I	1756-IB16S	1,306.63



1756-IB16S

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	24V DC Sourcing (NPN)	18 ... 32V DC	1756TBNHS 1756TBSHS		1756-OBV8S	1,576.09



1756-OBV8S

ControlLogix® Specialty Modules

1756 ControlLogix® I/O modules provide a range of specialty I/O to meet your application needs. You can use any of the I/O modules in the local chassis of a ControlLogix controller or in a chassis linked to a ControlLogix controller across ControlNet™ or EtherNet/IP™ networks.

- Mounts in a ControlLogix® chassis
- Requires either a removable terminal block (RTB) or a Bulletin 1492 wiring interface module (IFM) to connect all field-side wiring
- Inherent time-stamping capabilities for sequence of events (SOE) applications
- Comprehensive I/O diagnostics for detection of both system and field-side failures
- Removal and insertion under power (RIUP) for ease of maintenance
- Electronic keying to help prevent replacement errors
- I/O wizards in the Studio 5000® (formerly called RSLogix™ 5000) Logix Designer application enable quick and easy module configuration
- Configurable flow meter modules
- High-speed counter modules
- Programmable limit switch modules
- Conformal coated options are available – contact NHP for further information
- More specialty modules are available on ab.com – contact NHP for further information



1756-HSC

Item Description	Item Type	Catalogue No.	\$AU
ControlLogix 2 Channel / 4 Output High Speed Counter (36 Pin)	I	1756-HSC	2,002.09
ControlLogix Compute Module Linux 32-bit Dual-Core 32GB SSD	I	1756-CMS1C1	5,481.86
ControlLogix Compute Module Windows 10 IoT 64-bit Dual-Core 32GB SSD	I	1756-CMS1B1	5,938.68

ControlLogix® Redundancy

1756-RM2

Item Description	Item Type	Catalogue No.	\$AU
ControlLogix Fiber Cable For 1756-RM redundancy module, 1 Meter		1756-RMC1	310.70
ControlLogix Redundancy Enhanced Module		1756-RM2	9,032.17

ControlLogix® Accessories

More accessories are available on ab.com. Contact NHP for further information.



1756-CPR2

Item Description	Item Type	Catalogue No.	\$AU
ControlLogix Slot Filler For Standard ControlLogix Chassis		1756-N2	53.43
ControlLogix Terminal Block Housing Extended Depth		1756-TBE	65.94
ControlLogix Terminal Block 20 Pin Screw Clamp		1756-TBNH	130.35
ControlLogix Terminal Block 20 Pin Spring Clamp		1756-TBSH	130.35
ControlLogix Secure Digital (SD) Card For 5570 Processor, 1GB		1784-SD1	144.42
ControlLogix Terminal Block 36 Pin Screw Clamp		1756-TBCH	161.07
ControlLogix Terminal Block 36 Pin Spring Clamp		1756-TBS6H	161.07
ControlLogix Jumper Bars (Qty 25)		1756-JMPR	167.08
ControlLogix Cable Straight Connector For Redundant Power Supply To 1756-PCSA2 Chassis Adapter, 0.91m		1756-CPR2	182.14
ControlLogix Secure Digital (SD) Card For 5570 Processor, 2GB		1784-SD2	182.35
ControlLogix Energy Storage Module No Stored Energy For 5570 Processor		1756-ESMNSE	283.00
ControlLogix Energy Storage Module Capacitor For 5570 Processor		1756-ESMCAP	263.00

Large PLC Systems

ProSoft® In-Chassis ControlLogix® Communication Modules

- Choose from various communication modules for the ControlLogix® platform
- ProSoft® communication module use Allen-Bradley® licensed backplane technology
- Integrate into your system using existing Studio 5000® (formerly RSLogix™ 5000) programming software

ProSoft® Technology provides hundreds of modules for the Allen-Bradley® ControlLogix® platform. Protocols include Modbus, Modbus TCP/IP, HART, PROFIBUS, ASCII and IEC 60870 among many others. More communication cards are available. Contact NHP for further information.



ProSoft® Modbus Communication Modules

Item Description	Item Type	Catalogue No.	\$AU
Prosoft ControlLogix inRAx Modbus Master/Slave Enhanced Communication Module	I	MVI56E-MCM	5,253.00
Prosoft ControlLogix inRAx Modbus Master/Slave Enhanced Communication Module For Remote Chassis	I	MVI56E-MCMR	5,253.00
Prosoft ControlLogix inRAx Modbus TCP/IP Client/Server Enhanced Communication Module	I	MVI56E-MNET	5,978.00
Prosoft ControlLogix inRAx Modbus TCP/IP Multi-Client Enhanced Communication Module For Remote Chassis	I	MVI56E-MNETC	5,978.00
ProSoft Technology Modbus TCP/IP Enhanced Communication Module in Remote Chassis - Client Only	I	MVI56E-MNETCR	6,094.00
Prosoft ControlLogix inRAx Modbus TCP/IP Client/Server Enhanced Communication Module For Remote Chassis	I	MVI56E-MNETR	6,094.00
ProSoft Technology Modbus Master/Slave Serial Enhanced Communication Module, eXTreme Temp	I	MVI56E-MCMXT	8,458.00



MVI56E-MNETCR

ProSoft® DNP3 Communication Modules

Item Description	Item Type	Catalogue No.	\$AU
Prosoft ControlLogix inRAx DNP3.0 Master/Slave Communication Module	I	MVI56E-DNP	5,565.00
Prosoft ControlLogix inRAx Enhanced DNP3.0 Ethernet Server/Client Interface Module	I	MVI56E-DNPNET	6,544.00



MVI56E-DNP

ProSoft® Profibus Communication Modules

Item Description	Item Type	Catalogue No.	\$AU
Prosoft ControlLogix inRAx Profibus DP Slave Communication Module	I	MVI56-PDPS	5,306.00
Prosoft ControlLogix inRAx Profibus DPV1 Slave Communication Module	I	ILX56-PBS	5,932.00
Prosoft ControlLogix inRAx Profibus Master DPV1 Communication Module	I	ILX56-PBM	6,616.00

ProSoft® IEC 60870-5 Communication Modules

Item Description	Item Type	Catalogue No.	\$AU
Prosoft ControlLogix inRAx IEC 60870-5-104 Server Communication Module	I	MVI56-104S	9,970.00



MVI56-104S

IEC 61850 Server Communication Modules

Item Description	Item Type	Catalogue No.	\$AU
ProSoft ControlLogix Inrax IEC 61850 Server Communication	I	MVI56E-61850S	7,214.00
ProSoft ControlLogix Inrax IEC 61850 Server Communication	I	MVI56E61850C	11,529.00



MVI56E61850C

ProSoft® Generic ASCII Communication Modules

Item Description	Item Type	Catalogue No.	\$AU
Prosoft ControlLogix inRAx Generic ASCII Serial Enhanced Communication Module	I	MVI56E-GSC	4,782.00



MVI56-EGD

ProSoft® Specialty Protocols Communication Modules

Item Description	Item Type	Catalogue No.	\$AU
Prosoft ControlLogix inRAx GE Ethernet Global Data Communication Module	I	MVI56-EGD	7,065.00

ProSoft® Flow Computer Module

Item Description	Item Type	Catalogue No.	\$AU
Prosoft Technology Enhanced Gas & Liquid Flow Computer for ControlLogix	I	MVI56E-AFC	7,623.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Fieldbus I/O Systems

Allen-Bradley FLEX 5000 I/O Device

Allen-Bradley FLEX™ 5000 I/O Modules	Page 521
Allen-Bradley FLEX™ 5000 I/O Communication Adapters	Page 523
Allen-Bradley FLEX™ 5000 I/O Mounting Bases and RTB	Page 523
Allen-Bradley FLEX™ 5000 I/O Accessories	Page 523
Allen-Bradley FLEX™ 5000 I/O Safety	Page 524
Allen-Bradley FLEX™ 5000 I/O XT	Page 524

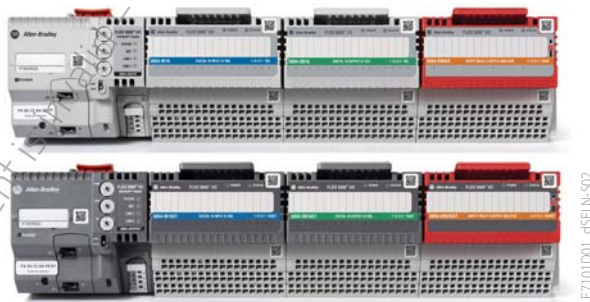
- Offers true integrated safety with discrete fail-safe I/O modules, TÜV certified up to SIL 3/PLe/Cat. 4
- Enhances communication with 1 Gb EtherNet/IP connectivity through copper or fiber, with SFP adapters
- Supports a wide range of network topologies: DLR, Star, Linear and PRP
- Supports flexible installation with horizontal or vertical mounting
- Allows users to replace modules while system is in operation with easy snap-on installation via Removal and Insertion Under Power (RIUP)
- Offers flexible and modular capability to support up to 32-channel digital and 8-channel analog input/output
- Operates in -40...70 °C (-40...158 °F) temperatures and in hazardous areas in Class I, Division 2, Zone 2; Groups A, B, C, D
- Allows for use in extreme environments with XT version up to G3 with conformal coating
- Functions as remote I/O modules with ControlLogix® 5580, CompactLogix™ 5380 and CompactLogix 5480 controllers
- Includes configuration with Studio 5000 Logix Designer® application

FLEX 5000™ I/O modules are a rugged and flexible distributed I/O solution, which allows you to choose your I/O to meet your operational needs. FLEX 5000 I/O enhances communication with 1 Gb EtherNet/IP™ connectivity, which offers higher speed and increased bandwidth. To provide flexibility in your network architecture, these modules includes 2 copper or 2 fiber ports (SFP) and support for DLR, Star, Linear, and PRP topologies

Allen-Bradley FLEX™ 5000 I/O Modules

FLEX 5000 I/O offers flexibility for your application with digital or analogue modules and the flexibility to connect a maximum of 8 or 16 I/O modules in an assembly. Each FLEX I/O modules requires a terminal base.

- Removal and Insertion Under Power (RIUP) lets you replace modules and make cable connections while the system is in operation
- Each I/O module requires a terminal base for connection points for I/O wiring
- Wire directly from sensor to terminal base of the Flex 5000 I/O module and eliminate the terminal strip
- Sensor actuator (SA) power diagnostics
- SA reverse polarity protection
- SA voltage input range 10-32V DC
- Module power input range 10-32V DC
- I/O point level diagnostics and light-emitting diodes (LEDs)
- CIP Sync or PTP support
- 250V (continuous), basic insulation system to field



Digital I/O Modules

Digital DC Input Module

Digital In (qty)	Digital Input Type(s) (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	12/24V DC Sink	10 ... 32V DC	5094TB3 5094TB3S		5094-IB16	561.34
32	12/24V DC Sink	10 ... 32V DC	5094TB32V 5094TB32VS		5094-IB32	972.17



5094-IB16



5094-OB16

Digital DC Output Module

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	24V DC	18 ... 32V DC	5094TB3 5094TB3S	I	5094-OB8	701.24
16	120 / 240V AC	85 ... 264V AC	5094TB3AC 5094TB3ACS		5094-OA16	860.61
16	24V DC	18 ... 32V DC	5094TB3 5094TB3S		5094-OB16	816.34
32	24V DC	18 ... 32V DC	5094TB32C 5094TB32CS		5094-OB32	1,099.66

Digital AC Input Module

Digital In (qty)	Digital Input Type(s) (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	240V AC	159 ... 264V AC	5094TB3AC 5094TB3ACS	I	5094-IM8	591.45
16	120V AC	74 ... 132V AC	5094TB3AC 5094TB3ACS	I	5094-IA16	759.67



5094-OW81

Digital Relay Output

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	NO Relay, Isolated	5...240V AC / 5...125V DC	5094TB3W 5094TB3WS		5094-OW81	679.99

Analogue I/O Modules

Analogue Input Module



5094-IF8

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	Current / Voltage: Single-Ended	0 ... 20mA 4 ... 20mA 0 ... 10V DC 0 ... 5V DC -10 +10V DC	16 bit (signed)	5094TB3 5094TB3S		5094-IF8	1,811.52
8	Current/Voltage/Thermocouple/RTD	Universal	16 bit (signed)	5094TB3T 5094TB3TS		5094-IY8	3,102.43
8	Current/Voltage/HART isolated	-10 +10V DC 0 ... 10V DC 0 ... 5V DC 0 ... 20mA 4 ... 20mA	16 bit (signed)	5094TB3I 5094TB3IS		5094-IF8IH	2,889.95

Analogue Output Module



5094-OF8

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	Current/Voltage/HART isolated	0 ... 10mA 4 ... 20mA -10 +10V DC 0 ... 10V DC 0 ... 5V DC	16 bit (signed)	5094TB3 5094TB3S		5094-OF8	3,012.13
8	Current/Voltage/HART isolated	0 ... 20mA 4 ... 20mA -10 +10V DC 0 ... 10V DC 0 ... 5V DC	16 bit (signed)	5094TB3I 5094TB3IS		5094-OF8IH	3,810.75

Speciality I/O Modules



5094-HSC

Analogue Out (qty)	Analogue Out (type)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	High Speed Counter	5094TB3 5094TB3S		5094-HSC	2,100.17

Allen-Bradley FLEX™ 5000 I/O Communication Adapters

FLEX 5000™ I/O modules are a rugged and flexible distributed I/O solution, which allows you to choose your I/O to meet your operational needs. FLEX 5000 I/O enhances communication with 1 Gb EtherNet/IP™ connectivity, which offers higher speed and increased bandwidth. To provide flexibility in your network architecture, these modules includes 2 copper or 2 fiber ports (SFP) and support for DLR, Star, Linear, and PRP topologies.

- Supports 1 Gb EtherNet/IP for Device Level Ring (DLR), Linear, Star and Parallel Redundancy Protocol (PRP) topologies
- Easy access ports in copper/SFP options
- Wide range of architecture options with network support for two copper or two fiber small form factor pluggable (SFP) transceiver ports
- 1-Gb backplane for performance and functionality
- Support 8 or 16 I/O modules
- Secured embedded web server
- Input power and temperature diagnostics
- Removable power terminals for ease of wiring and maintenance
- XT option available

Item Description	Item Type	Catalogue No.	\$AU
EtherNet/IP Adapter with 2 SFP Slots, Supports up to 8 FLEX 5000 I/O Modules		5094-AENSFPR	1,395.38
EtherNet/IP Adapter with 2 RJ45 Ports, Supports up to 8 FLEX 5000 I/O Modules		5094-AENTR	1,395.38
EtherNet/IP Adapter with 2 SFP Slots, Supports up to 16 FLEX 5000 I/O Modules		5094-AEN2SFPR	2,091.32
EtherNet/IP Adapter with 2 RJ45 Ports, Supports up to 16 FLEX 5000 I/O Modules		5094-AEN2TR	2,091.32



5094-AENTR

Allen-Bradley FLEX™ 5000 I/O Mounting Bases and RTB

Each FLEX 5000 I/O module requires a mounting base and removable terminal block. This terminal base assembly provides terminal connection points for the I/O wiring and plug together to form the backplane. They are available with screw or spring terminations.

Item Description	Item Type	Catalogue No.	\$AU
FLEX 5000 Mounting Base		5094-MB	106.25
FLEX 5000 Removable Terminal Block Screw		5094-RTB3	141.67
FLEX 5000 Removable Terminal Block Spring		5094-RTB3S	141.67
FLEX 5000 Removable CJC Terminal Block Screw		5094-RTB3T	194.78
FLEX 5000 Removable CJC Terminal Block Spring	I	5094-RTB3TS	194.78
FLEX 5000 Removable Relay Terminal Block Screw		5094-RTB3W	148.75
FLEX 5000 Removable Relay Terminal Block Spring	I	5094-RTB3WS	148.75
FLEX 5000 Removable Isolated Terminal Block Screw		5094-RTB3I	159.37
FLEX 5000 Removable Isolated Terminal Block Spring	I	5094-RTB3IS	151.00
FLEX 5000 RTB AC Screw	I	5094-RTB3AC	159.37
FLEX 5000 RTB AC Spring	I	5094-RTB3ACS	159.37
FLEX 5000 RTB 32 Output Screw		5094-RTB32C	159.37
FLEX 5000 RTB 32 Output Spring	I	5094-RTB32CS	159.37
FLEX 5000 RTB 32 Input Screw		5094-RTB32V	159.37
FLEX 5000 RTB 32 Input Spring		5094-RTB32VS	159.37
FLEX 5000 Adapter RTB Screw (Qty 5)	I	5094-AENRTB-QTY5	21.26
FLEX 5000 Adapter RTB Spring (Qty 5)		5094-AENRTBS-QTY5	21.26



5094-MB

Allen-Bradley FLEX™ 5000 I/O Accessories

Item Description	Item Type	Catalogue No.	\$AU
FLEX 5000 Shield RTB Screw (Qty 5)		5094-STB-QTY5	212.50
FLEX 5000 SA Power Jumper Screw (Qty 10)		5094-SAJMPR-QTY10	177.08
FLEX 5000 Filler Module		5094-N2	53.12
FLEX 5000 End Cap (Qty 5)		5094-ECR-QTY5	88.53
FLEX 5000 Interconnect Cable 3M		5094-CE30	548.95
FLEX 5000 Interconnect Cable 1M		5094-CE10	486.97
FLEX 5000 Interconnect Cable 0.5M	I	5094-CE05	442.71
FLEX 5000 Serial Module	I	5094-SERIAL	1,168.73



5094-STB-QTY5

Allen-Bradley FLEX™ 5000 I/O Safety

FLEX 5000 I/O modules are safety-rated I/O modules designed to fit into the Flex 5000 I/O system, offering automation and safety functionality in a maximum density I/O solution. Flex 5000 Safety I/O communicates by using the CIP safety protocol over EtherNet/IP™ for GuardLogix™ or Compact GuardLogix™ controllers.

- 24V DC I/O circuits
- 16 inputs or 16 outputs

Safety Digital Input

Digital In (qty)	Digital Input Type(s) (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	12/24V DC Sink	10 ... 32V DC	5094TB3I 5094TB3IS		5094-IB16S	1,347.58



5094-IB16S

Safety Digital Output

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	24V DC	18 ... 32V DC	5094TB3I 5094TB3IS		5094-OB16S	1,958.50



5094-OB16S

Safety Relay

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	NO Relay	5...240V AC / 5...125V DC	5094TB3W 5094TB3WS		5094-OW4IS	1,160.00

Allen-Bradley FLEX™ 5000 I/O XT

The FLEX 5000 I/O XT modules are built for use under extreme environmental conditions. XT variants are available for all standard items.

- Class G1, G2 and G3 Conformal coating for Extreme environment
- Operating temperature: -40 °C...+70 °C (-40 °F...+158 °F)
- Hazardous environments: Class I, Div. 2 Zone 2 Groups A, B, C, D

FLEX™ 5000 I/O XT Adapters

Item Description	Item Type	Catalogue No.	\$AU
EtherNet/IP Adapter with 2 SFP Slots, Supports up to 8 FLEX 5000 I/O XT Modules*	I	5094-AENSFPRXT	1,673.40
EtherNet/IP Adapter with 2 RJ45 Ports, Supports up to 8 FLEX 5000 I/O XT Modules	I	5094-AENRXT	1,673.40
EtherNet/IP Adapter with 2 SFP Slots, Supports up to 16 FLEX 5000 I/O XT Modules*	I	5094-AEN2SFPRXT	2,509.22
EtherNet/IP Adapter with 2 RJ45 Ports, Supports up to 16 FLEX 5000 I/O XT Modules	I	5094-AEN2TRXT	2,509.22



5094-AENSFPRXT

FLEX™ 5000 I/O XT Modules

Digital Input Module

Digital In (qty)	Digital Input Type(s) (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	12/24V DC Sink	10 ... 32V DC	5094TB3XT 5094TB3SXT		5094-IB16XT	674.68



5094-IB16XT

Digital Output Module

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
16	24V DC	18 ... 32V DC	5094TB3XT 5094TB3SXT	I	5094-OB16XT	979.25



5094-OB16XT

Analogue Input Module

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	Current/Voltage/Thermocouple/RTD	Universal	16 bit (signed)	5094TB3TXT 5094TB3TSXT	I	5094-IY8XT	3,723.98
8	Current/Voltage	0 ... 20mA 4 ... 20mA -10 +10V DC 0 ... 10V DC 0 ... 5V DC	16 bit (signed)	5094TB3XT 5094TB3SXT	I	5094-IF8XT	2,172.77



5094-IY8XT

Analogue Output Module

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	Current/Voltage	0 ... 20mA 4 ... 20mA -10 +10V DC 0 ... 10V DC 0 ... 5V DC	16 bit (signed)	5094TB3XT 5094TB3SXT	I	5094-OF8XT	3,614.19



5094-OF8XT

Relay Module

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	NO Relay	5...240V AC / 5...125V DC	5094TB3WXT 5094TB3WSXT	I	5094-OW8IXT	816.34



5094-OW8IXT

Speciality Modules

Analogue Out (qty)	Analogue Out (type)	Item Type	Catalogue No.	\$AU
4	High Speed Counter	I	5094-HSCXT	2,519.84



5094-HSCXT

FLEX™ 5000 I/O XT Mounting Bases and RTB

Item Description	Item Type	Catalogue No.	\$AU
Removable Relay Terminal Block Spring XT	I	5094-RTB3WSXT	182.39
Removable Relay Terminal Block Screw XT	I	5094-RTB3WXT	182.39
Removable Terminal Block Screw XT	I	5094-RTB3XT	173.55
XT Mounting Base	I	5094-MBXT	123.96
Removable Isolated Terminal Block Spring XT	I	5094-RTB3ISXT	185.00
Removable Isolated Terminal Block Screw XT	I	5094-RTB3IXT	194.78
Removable Terminal Block Spring XT	I	5094-RTB3SXT	173.55
Removable CJC Terminal Block Spring XT	I	5094-RTB3TSXT	237.28
Removable CJC Terminal Block Screw XT	I	5094-RTB3TXT	237.28



5094-RTB3WSXT

FLEX™ 5000 I/O XT Safety Modules

Item Description	Item Type	Catalogue No.	\$AU
Safety Digital 16 Input 24V DC XT Modules	I	5094-IB16SXT	1,530.00
Safety Digital 16 Output 24V DC XT Modules	I	5094-OB16SXT	2,230.00



5094-IB16SXT

Fieldbus I/O Systems

Allen-Bradley FLEX™ I/O

FLEX™ I/O Modules	Page 526
FLEX™ I/O Communication Adapters	Page 529
FLEX™ I/O Power Supplies	Page 529
FLEX™ I/O Specialty Modules	Page 530
FLEX™ I/O Accessories	Page 530

- Reduced Space: Wire direct from sensor to terminal base and eliminate terminal strip
- Functionality: 4- to 32-point modules offer functions of larger rack-based I/O
- Increased Productivity: Easy configuration and setup of I/O modules using wizards speeds engineering and installation
- Reduced Downtime: Removal and Insertion Under Power (RIUP) and diagnostics
- Exceptional Choices: Over 90 catalogue numbers and a breadth of specialty modules meet the needs of a wide variety of applications
- Operation in Harsh Environments: Conformal coated and extreme environment rated modules are available. Contact NHP for further information.
- Network Flexibility: Communicates on EtherNet/IP™, ControlNet™, DeviceNet™ or PROFIBUS DP
- Improved Plant Operations: HART analog modules pass through HART data to asset management software or controller for improved plant operations

FLEX I/O is a Distributed I/O System that connects to several Networks including EtherNet/IP, ControlNet and DeviceNet. Flexible, low-cost, modular I/O for distributed applications. FLEX I/O offers all the functions of larger, rack-based I/O without the space requirements.

FLEX™ I/O Modules

1794 FLEX™ I/O offers flexibility for your application with 4 to 32 digital points per module or 4 to 12 analogue channels per module and the flexibility to connect a maximum of eight I/O modules in an assembly. Each FLEX™ I/O modules requires a terminal base.

- Cover a wide electrical range
- Densities range from 8...32 points
- Isolated inputs or outputs, protected outputs, electronic fusing, or diagnostics available on some modules
- Removal and Insertion Under Power (RIUP) lets you replace modules and make cable connections while the system is in operation
- FLEX-I/O XT™ extreme environment modules are rated for -20...70 °C (-4...185 °F) and are compatible with the ControlLogix-XT™ extreme environment system. Contact NHP for further information.
- Each I/O module requires a terminal base for connection points for I/O wiring
- Wire directly from sensor to terminal base of the Flex™ I/O module and eliminate the terminal strip
- Conformally coated modules are available, please contact NHP for further details

FLEX™ I/O Digital DC Input Modules



1794-IB8

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	24V DC Sinking (PNP)	10 ... 31.2V DC	1794TB3 1794TB3S		1794-IB8	357.28
16	24V DC Sinking (PNP)	10 ... 31.2V DC	1794TB3 1794TB3S		1794-IB16	646.84
16	24V DC Sourcing (NPN)	10 ... 31.2V DC	1794TB2 1794TB3 1794TB3S	I	1794-IV16	646.84
16	5V DC TTL sourcing	-0.2 ... 0.8V DC	1734TB3 1734TB3S	I	1794-IG16	773.95
16	48V DC Sinking (PNP)	30 ... 60V DC	1794TB3 1794TB3S	I	1794-IC16	779.29
32	24V DC Sinking (PNP)	19.2 ... 31.2V DC	1794TB32 1794TB32S		1794-IB32	1,044.77
32	24V DC Sourcing (NPN)	19.2 ... 31.2V DC	1794TB32 1794TB32S	I	1794-IV32	1,063.39

FLEX™ I/O Digital AC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	120V AC	65 ... 132V AC	1794TBN 1794TB2 1794TB3 1794TB3S 1794TBKD	I	1794-IA8	560.47
8	120V AC, isolated	65 ... 132V AC	1794TB2 1794TB3 1794TB3S 1794TBN 1794TBKD	I	1794-IA8I	646.84
16	120V AC	74 ... 132V AC	1794TB3 1794TB3S 1794TBN		1794-IA16	816.17
16	240V AC	159 ... 264V AC	1794TBN	I	1794-IM16	829.72



1794-IA8

FLEX™ I/O Relay Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	NO Relay, Isolated	5...230V AC / 5...125V DC	1794TB2 1794TB3 1794TB3S 1794TBN 1794TBNF		1794-OW8	743.37



1794-OW8

FLEX™ I/O Digital DC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	24V DC Sourcing (NPN)	10 ... 31.2V DC	1794TB2 1794TB3 1794TB3S 1794TBKD		1794-OB8	375.90
8	24V DC Sourcing (NPN)	19.2 ... 31.2V DC	1794TB2 1794TB3 1794TB3S 1794TBN 1794TBKD		1794-OB8EP	751.83
16	24V DC Sourcing (NPN)	10 ... 31.2V DC	1794TB2 1794TB3 1794TB3S 1794TBKD		1794-OB16	919.46
16	24V DC Sourcing (NPN) Electronically Protected	10 ... 31.2V DC	1794TB2 1794TB3 1794TB3S 1794TBKD		1794-OB16P	956.70
32	24V DC Sourcing (NPN)	10 ... 31.2V DC	1794TB32 1794TB32S		1794-OB32P	1,181.93



1794-OB32P

FLEX™ I/O Digital AC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	120V AC	85 ... 132V AC	1794TBNF 1794TB2 1794TB3 1794TB3S 1794TBN 1794TBKD	I	1794-OA8I	768.76
16	120V AC	85 ... 132V AC	1794TB3 1794TB2 1794TB3S 1794TBN 1794TBKD		1794-OA16	924.54



1794-OA8I

FLEX™ I/O Digital Combination Modules

Digital In (type x qty)	Digital In (range)	Digital Out (type x qty)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
10 x 24V DC Sinking (PNP)	10 ... 31.2V DC	6 x 24V DC Sourcing (NPN)	10 ... 31.2V DC	1794TB2 1794TB3 1794TB3S		1794-IB10XOB6	687.49
16 x 24V DC Sinking (PNP)	10 ... 31.2V DC	16 x 24V DC Sourcing (NPN)	10 ... 31.2V DC	1794TB32 1794TB32S	I	1794-IB16XOB16P	1,280.14



1794-IB10XOB6

FLEX™ I/O Analogue Input Modules



1794-IE8

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	Current / Voltage: Single-Ended	-10 +10V DC 0 ... 10V DC 0 ... 20mA 4 ... 20mA	12 bit (unsigned / unipolar)	1794TB2 1794TB3 1794TB3S 1794TB3T 1794TB3TS		1794-IE8	2,048.90
4	Current / Voltage: Single-Ended / Differential, Isolated	0 ... 20mA 4 ... 20mA -20 ... 20mA -10 +10V DC -5 ... 5V DC 0 ... 10V DC 0 ... 5V DC	16 bit (signed)	1794TB2 1794TB3 1794TB3S 1794TB3T 1794TB3TS 1794TBN		1794-IF4I	2,099.69
12	Current: Single-Ended	0 ... 20mA 4 ... 20mA	16 bit (signed)	1794TB3G 1794TB3GS		1794-IE12	2,506.09
8	HART - Current: Single-Ended, Isolated	0 ... 20mA 4 ... 20mA	16 bit (signed)	1794TB3 1794TB3S		1794-IF8IH	3,234.20
8	HART - Current: Single-Ended	4 ... 20mA	16 bit (signed)	1794TB3G 1794TB3GS		1794-IE8H	3,281.23

FLEX™ I/O Analogue Output Modules



1794-OE4

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	Current / Voltage: Single-Ended	0 ... 20mA 4 ... 20mA -10 +10V DC 0 ... 10V DC	12 bit (unsigned / unipolar)	1794TB2 1794TB3 1794TB3S 1794TB3T 1794TB3TS 1794TBN		1794-OE4	1,845.70
4	Current / Voltage: Single-Ended / Differential	-10 +10V DC -5 ... 5V DC 0 ... 10V DC 0 ... 5V DC 0 ... 20mA 4 ... 20mA	16 bit (signed)	1794TBN 1794TB2 1794TB3 1794TB3S 1794TB3T 1794TB3TS		1794-OF4I	2,743.15
12	Current: Single-Ended	0 ... 20mA 4 ... 20mA	12 bit (signed)	1794TB3G 1794TB3GS		1794-OE12	4,199.40
8	HART - Current: Single-Ended, Isolated	0 ... 20mA 4 ... 20mA	16 bit (unsigned)	1794TB3 1794TB3S		1794-OF8IH	4,300.99

FLEX™ I/O Analogue Combination Modules



1794-IE4XOE2

Analogue In (type x qty)	Analogue In (range)	Analogue Out (type x qty)	Analogue Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4 x Current / Voltage: Single-Ended	-10 +10V DC 0 ... 10V DC 0 ... 20mA 4 ... 20mA	2 x Current / Voltage: Single-Ended	0 ... 20mA 4 ... 20mA -10 +10V DC 0 ... 10V DC	1794TB2 1794TB3 1794TB3S 1794TB3T 1794TB3TS		1794-IE4XOE2	1,998.09
2 x Current / Voltage: Single-Ended / Differential, Isolated	0 ... 20mA 4 ... 20mA -20 ... 20mA -10 +10V DC 0 ... 10V DC -5 ... 5V DC 0 ... 5V DC	2 x Current / Voltage: Single-Ended, Isolated	-10 +10V DC -5 ... 5V DC 0 ... 10V DC 0 ... 20mA 4 ... 20mA -20 ... 20mA	1794TB2 1794TB3 1794TB3S 1794TB3T 1794TB3TS 1794TBN		1794-IF2XOF2I	2,269.02
8 x Current: Single-Ended	0 ... 20mA 4 ... 20mA	4 x Current: Single-Ended	0 ... 20mA 4 ... 20mA	1794TB3G 1794TB3GS	I	1794-IE8XOE4	3,132.60

FLEX™ I/O RTD and Thermocouple Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8	RTD / Resistance	1 ... 433Ω 100Ω Pt 385 100Ω Pt 392 200Ω Pt 385 500Ω Pt 385 100Ω Ni 618 120Ω Ni 672 200Ω Ni 618 500Ω Ni 618 10Ω Cu 427	16 bit (signed)	1794TB2 1794TB3 1794TB3S 1794TB3T 1794TB3TS 1794TBKD	I	1794-IR8	3,217.27
8	Thermocouple / mV	-76.5 ... 76.5mV DC Type B Type C Type E Type J Type K Type N Type R Type S Type T Type TXK / XK	16 bit (signed)	1794TB3T 1794TB2 1794TB3 1794TB3S 1794TB3TS	I	1794-IT8	3,217.27
8	RTD / Resistance / Thermocouple / mV	1 ... 327Ω -40 ... 100mV DC 100Ω Pt 385 100Ω Pt 392 200Ω Pt 385 200Ω Pt 392 100Ω Ni 618 120Ω Ni 672 200Ω Ni 618 10Ω Cu 427 Type B Type E Type J Type K Type TXK / XK Type N Type R Type S Type T	14 bit (signed)	1794TB3G 1794TB3GS	I	1794-IRT8	3,505.13



FLEX™ I/O Communication Adapters

The FLEX™ I/O system can communicate on EtherNet/IP™, ControlNet™, DeviceNet™, and many other open networks including, but not limited to, Remote I/O, PROFIBUS DP, and Interbus-S. You can independently select the I/O, termination style, and network to meet your application needs.

FLEX™ I/O Communication Adapters

Item Description	Item Type	Catalogue No.	\$AU
Flex I/O Profibus DP V1 Adapter	I	1794-APBDPV1	2,211.27
Flex I/O ControlNet Adapter Module		1794-ACN15	1,943.79
Flex I/O ControlNet Adapter Module, Redundant		1794-ACNR15	3,085.08
Flex I/O DeviceNet Adapter Module		1794-ADN	1,184.10
Flex I/O EtherNet/IP 10/100 Mbit Adapter Module (10Base-T)		1794-AENT	1,493.49
Flex I/O Ethernet Adapter Dual Port		1794-AENTR	1,554.45



FLEX™ I/O Power Supplies

The I/O modules are interfaced to the I/O link through an I/O adapter module with a built-in 24V DC input power supply. The I/O modules receive power from the adapter / power supply through the backplane. The 120V AC to 24V DC power supply (1794-PS13 or 1794-PS3) is also available for powering the adapter. When providing power for the 1794-FLA extended-local I/O FlexLogix adapter, treat the adapter as a communication adapter, not as an I/O module.

FLEX™ I/O Power Supplies

Item Description	Item Type	Catalogue No.	\$AU
Flex I/O Power Supply 85-264V AC 1.3A		1794-PS13	440.26
Flex I/O Power Supply 120/230V AC 3A		1794-PS3	711.19



FLEX™ I/O Specialty Modules

- Frequency modules
- Very High Speed Counter (VHSC) module
- Pulse counter modules
- Each Flex™ I/O Specialty module requires a terminal base



1794-ID2

Item Description	Item Type	Catalogue No.	\$AU
Flex I/O 2 Channel Incremental Encoder Module		1794-ID2	2,065.83
Flex I/O 2 Channel High Resolution Frequency Module	I	1794-IJ2	2,116.63
Flex I/O 2 Channel 1MHz Very High Speed Counter	I	1794-VHSC	2,523.02
Flex I/O 4 Channel 12/24V DC Pulse Counter Module		1794-IP4	2,878.62

FLEX™ I/O Accessories

Each FLEX™ I/O module requires a terminal base unit that snaps onto the DIN rail to the right of the I/O adapter. The terminal base provides terminal connection points for the I/O wiring and plug together to form the backplane. They are available with screw, clamp, or spring terminations.



1794-TB32S

Item Description	Item Type	Catalogue No.	\$AU
Flex I/O Terminal Base 2 Wire Cage Clamp		1794-TB2	223.52
Flex I/O Terminal Base Nema Screw Clamp	I	1794-TBN	333.59
Flex I/O 1 ft Extender Local I/O Cable (0.3 M)		1794-CE1	335.27
Flex I/O Terminal Base 3 Wire Cage Clamp		1794-TB3	408.09
Flex I/O Terminal Base 3 Wire Spring Clamp		1794-TB3S	408.09
Flex I/O Terminal Base For 32 Point Module Cage Clamp		1794-TB32	419.94
Flex I/O Terminal Base For 32 Point Module Spring Clamp	I	1794-TB32S	419.94
Flex I/O Terminal Base 3 Wire Grounded Screw Clamp		1794-TB3G	419.94
Flex I/O Terminal Base 3 Wire Grounded Spring Clamp	I	1794-TB3GS	419.94
Flex I/O Terminal Base Fused Nema Screw Clamp		1794-TBNF	419.94
Flex I/O 3 ft Extender Local I/O Cable (0.9 M)		1794-CE3	472.42
Flex I/O Terminal Base 3 Wire Cage Clamp CC		1794-TB3K	594.35

Fieldbus I/O Systems

ProSoft® FLEX™ I/O Modules

- Choose from various communication modules for FLEX™ I/O platform
- ProSoft communication module use Allen-Bradley licensed backplane technology
- Integrate into your system using existing Studio5000® (formerly RSLogix5000™) programming software

The ProSoft® MV194 Modules allow Rockwell Automation FLEX™ I/O processors to interface between various automation products. Protocols include serial communication protocol such as Modbus and ASCII among many others.



ProSoft® Flex™ Adapters

Item Description	Item Type	Catalogue No.	\$AU
FLEX I/O INRAX PROFIBUS-DP V0 SLAVE INTERFACE	I	3170-PDP	2,557.00
FLEX I/O INRAX MODBUS RTU SLAVE ADAPTER	I	3170-MBS	2,987.00



3170-PDP

Fieldbus I/O Systems

Allen-Bradley Point I/O™

POINT I/O™ Communication Adapters	Page 532
POINT I/O™ Modules	Page 532
POINT Guard I/O™ Safety Modules	Page 535
POINT I/O™ Terminal Bases and Accessories	Page 535



- Modular design lets you independently select the I/O, termination style and network interface
- Modules slide together for easy install and uninstall for easier maintenance
- Removable wiring system saves time and money during installation and troubleshooting
- Diagnostic and configurable features makes POINT I/O™ easy to apply
- Removal and Insertion Under Power (RIUP) lets you replace modules while the system is in operation
- Mount horizontally or vertically, with no de-rating required
- Auto Device Replacement (ADR) reduces downtime
- Add-On-Profiles in the Studio 5000® (formerly RS Logix™ 5000) Logix designer application provide smooth integration into Integrated Architecture systems

1734 POINT I/O™ is ideal for applications requiring flexibility and low cost of ownership. Granularity of one to eight points lets you buy only the I/O you need. The compact design makes installation easier in limited panel space. The family includes POINT Guard I/O™ safety-rated I/O modules that can be used side-by-side in a standard POINT I/O™ system. Communication options include ControlNet™, DeviceNet™, EtherNet/IP™, and other open networks.

POINT I/O™ Communication Adapters

- Built-in power supply powers the I/O modules through the backplane
- Up to 63 I/O modules per assembly, for up to 504 points on a single network node
- Provide the interface between the POINT I/O™ modules and backplane, and the desired network
- Snap directly onto the DIN rail



1734-PDN

Item Description	Item Type	Catalogue No.	\$AU
Point I/O DeviceNet Interface Module	I	1734-PDN	411.23
Point I/O DeviceNet 24V DC Adapter		1734-ADN	783.64
Point I/O EtherNet/IP Twisted Pair Media Adapter		1734-AENT	1,017.50
Point I/O EtherNet/IP 2-Port Adapter Module		1734-AENTR	1,209.56
Point I/O ControlNet 24V DC Adapter	I	1734-ACNR	1,223.12

POINT I/O™ Modules

POINT I/O™ Digital I/O Modules

1734 POINT I/O™ offers Digital I/O with one to eight points per module. It is possible to mix standard and safety I/O in the same system. Comprehensive diagnostics and configurable features make Point I/O easy to apply. Each POINT I/O™ module requires a terminal base.

- Input, output, and relay output modules
- Wide variety of voltages
- Point-level output fault states for short-circuit and wire-off diagnostics
- Field-side diagnostics on select modules
- Choice of direct-connect or rack-optimised communications
- POINT Guard I/O™ modules for safety applications
- Configurable modules - each point can be configured as a DC input or output
- DeviceLogix™ technology available

POINT I/O™ Digital DC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	24V DC Sinking (PNP)	10 ... 28.8V DC	1734TB 1734TBS 1734TOP 1734TOPS		1734-IB4	138.09
8	24V DC Sourcing (NPN)	10 ... 28.8V DC	1734TB 1734TBS 1734TOP 1734TOPS	I	1734-IV8	226.68
8	24V DC Sinking (PNP)	10 ... 28.8V DC	1734TB 1734TBS 1734TOP 1734TOPS		1734-IB8	230.14

POINT I/O™ Digital AC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	120V AC	65 ... 132V AC	1734TB 1734TBS 1734TOP 1734TOPS	I	1734-IA4	271.67

POINT I/O™ Relay Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
2	NO Relay	5 ... 240V DC	1734TB 1734TBS		1734-OW2	209.37
4	NO Relay	5 ... 240V DC	1734TB 1734TBS		1734-OW4	333.98



1734-OW2

POINT I/O™ Digital DC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	24V DC Sourcing (NPN)	10 ... 28.8V DC	1734TB 1734TBS		1734-OB4	159.03
2	24V DC Sourcing (NPN)	10 ... 28.8V DC	1734TB 1734TBS	I	1734-OB2EP	170.79
4	24V DC Sourcing (NPN)	10 ... 28.8V DC	1734TB 1734TBS		1734-OB4E	197.28
8	24V DC Sourcing (NPN)	10 ... 28.8V DC	1734TB 1734TBS		1734-OB8	259.58
8	24V DC Sourcing (NPN) Electronically Protected	10 ... 28.8V DC	1734TB 1734TBS		1734-OB8E	339.15



1734-OB2EP

POINT I/O™ Digital AC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
4	120 / 220V AC	74 ... 264V AC	1734TB 1734TBS 1734TOP 1734TOPS	I	1734-OA4	346.08



1734-OA4

POINT I/O™ Digital Combination Modules

Configurable I/O (qty x type)	Digital In (type x qty)	Digital In (range)	Digital Out (type x qty)	Digital Out (Digital Out)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8 x DI / DO	24V DC Sinking/Sourcing	11 ... 28.8V DC	24V DC Sinking / Sourcing	10 ... 28.8V DC	1734TB 1734TBS 1734TOP 1734TOPS	I	1734-8CFGDLX	425.69




1734-8CFGDLX

POINT I/O™ Analogue I/O Modules

1734 POINT I/O™ offers analogue I/O with one to eight points per module. It is possible to mix standard and safety I/O in the same system. Comprehensive diagnostics and configurable features make POINT I/O™ easy to apply. Each POINT I/O™ module requires a terminal base.


- Up to 8 single-ended inputs or outputs per module
- Thermocouple and RTD modules available
- Individually configurable channels
- On-board scaling
- Selectable input filters
- Over-range and under-range detection

POINT I/O™ Analogue Input Modules




Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
2	Voltage: Single-Ended	-10 ... +10V DC 0 ... 10V DC	16 bit (signed)	1734TB 1734TBS		1734-IE2V	579.70
2	Current: Single-Ended	0 ... 20mA 4 ... 20mA	16 bit (signed)	1734TB 1734TBS		1734-IE2C	607.39
4	Current: Single-Ended	0 ... 20mA 4 ... 20mA	16 bit (signed)	1734TB 1734TBS		1734-IE4C	963.85
8	Current: Single-Ended	0 ... 20mA 4 ... 20mA	16 bit (signed)	1734TB 1734TBS		1734-IE8C	1,816.95

POINT I/O™ Analogue Output Modules



Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
2	Voltage: Single-Ended	0 ... 10V DC -10 ... +10V DC	14 bit (signed)	1734TB 1734TBS		1734-OE2V	603.91
2	Current: Single-Ended	0 ... 20mA 4 ... 20mA	13 bit (signed)	1734TB 1734TBS		1734-OE2C	624.69
4	Current: Single-Ended	0 ... 20mA 4 ... 20mA	13 bit (signed)	1734TB 1734TBS		1734-OE4C	1,104.00

POINT I/O™ RTD and Thermocouple Modules



Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
2	RTD / Resistance	0 ... 600Ω 100Ω Pt 385 100Ω Pt 392 200Ω Pt 385 200Ω Pt 392 10Ω Cu 427 100Ω Ni 618 120Ω Ni 618 120Ω Ni 672	16 bit (signed)	1734TB 1734TBS 1734TOP 1734TOPS		1734-IR2	622.93
2	RTD / Resistance	0 ... 200Ω 100Ω Pt 385	16 bit (signed)	1734TB 1734TBS 1734TOP 1734TOPS		1734-IR2E	645.46
2	Thermocouple / mV	-75 ... 75mV DC Type B Type C Type E Type J Type K Type N Type R Type S Type T	16 bit (signed)	1734TBCJC		1734-IT2I	661.03

POINT I/O™ Specialty Modules

- Counter and encoder modules
- Synchronous Serial Interface (SSI) absolute encoder module
- Serial interface modules (RS-232, RS-485 / RS-422)
- Address Reserve Module (ARM)
- IO-Link master module
- Each Point I/O™ specialty module requires a terminal base

Item Description	Item Type	Catalogue No.	\$AU
Point I/O Common Terminal Module Single-Slot 12mm Wide		1734-CTM	63.15
Point I/O Voltage Terminal Module. Single-Slot 12mm Wide Voltage Terminal Modules		1734-VTM	67.31
Point I/O Address Reserve Module		1734-ARM	84.27
Point I/O 24 V DC Incremental Encoder Module		1734-IK	545.08
Point I/O RS232 ASCII Interface	I	1734-232ASC	593.53
Point I/O SSI Absolute Encoder Interface		1734-SSI	619.49
Point I/O 4 Channels IO-Link Master	I	1734-4IOL	641.99
Point I/O 24 V DC Very High Speed Counter With Source Outputs		1734-VHSC24	673.13
Point I/O RS485/422 ASCII Interface	I	1734-485ASC	681.78



1734-IK

POINT Guard I/O™ Safety Modules

POINT Guard I/O™ modules are safety-rated I/O modules designed to fit into the standard POINT I/O™ system, offering automation and safety functionality in a maximum density I/O solution. POINT Guard I/O™ communicates by using the CIP™ safety protocol over EtherNet/IP™ for GuardLogix™ controllers or DeviceNet™ for SmartGuard™ 600 controllers.

Note that each Point Guard I/O™ safety module requires 2 terminal bases.

- 24V DC I/O circuits
- 8 inputs or 8 outputs

Safety In (qty)	Safety In (type)	Safety Out (qty)	Safety Out (type)	PulseTest Out (qty)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
8 x Digital	24V DC Sinking (PNP)			4	1734TB 1734TBS 1734TOP 1734TOPS 1734TOP3 1734TOP3S		1734-IB8S	958.66
		8 x Digital	24V DC Sourcing (NPN)		1734TB 1734TBS 1734TOP 1734TOP3 1734TOP3S 1734TOPS		1734-OB8S	1,114.38
4 x Analogue	Current / Voltage: Single-Ended				1734TB 1734TBS 1734TOP 1734TOPS 1734TOP3 1734TOP3S		1734-IE4S	2,474.51



1734-IB8S

POINT I/O™ Terminal Bases and Accessories

Each POINT I/O™ module requires a terminal base unit that snaps onto the DIN rail to the right of the I/O adapter. The terminal bases provide terminal connection points for the I/O wiring and plug together to form the backplane. They are available with screw, clamp, or spring terminations.

Item Description	Item Type	Catalogue No.	\$AU
Point I/O Replacement IEC Screw Terminal Block		1734-RTB	23.00
Point I/O 8-Terminal Screw-Clamp RTB		1734-RTBS	23.00
Point I/O One-Piece Terminal Base With Screw Clamp, 8 Terminations		1734-TOP	34.61
Point I/O Terminal Base Single Piece 8Point Spring		1734-TOPS	34.61
Point I/O Module Bases W/ Removable IEC Screw Terminals		1734-TB	44.83
Point I/O Module Bases W/ Removable IEC Spring Terminals		1734-TBS	44.83
Point I/O Terminal Base Single Piece 12 Point Screw		1734-TOP3	46.89
Point I/O 12-Position IP20 Screw Terminal Bases (Qty 10)		1734-TB3	59.70
Point I/O Terminal Base W/ Terminal Block 12Point Spring (Qty 10)		1734-TB3S	59.70
Point I/O 1 Meter bus extension cable	I	1734-EXT1	105.56
Point I/O Field Potential Distributor		1734-FPD	212.85
Point I/O 24V DC Power/Bus Extension Module		1734-EP24DC	377.22



1734-EXT1

Fieldbus I/O Systems

ProSoft® Point I/O Modules



- Choose from various communication modules for POINT™ I/O platform
- ProSoft® communication module use Allen-Bradley licensed backplane technology
- Integrate into your system using existing Studio 5000® (formerly RSLogix™ 5000) programming software

ProSoft®Technology POINT I/O™ modules are ideal to connect point-to-point or multiple devices up to 4,000 feet (1,219 meters) from your processor. These include SCADA and field device interface applications. The modules can be used with CompactLogix™ L1 processors or distributed Bulletin 1734 POINT I/O™ systems. In addition, the modules can be configured as a Master or Slave.

Prosoft Point I/O Modules

Item Description	Item Type	Catalogue No.	\$AU
Prosoft POINT I/O inRAX Modbus RTU Master/Slave RS-232	I	ILX34-MBS232	1,022.00
Prosoft POINT I/O inRAX Modbus RTU Master/Slave RS-485		ILX34-MBS485	1,022.00

Pricing in this document is invalid – for pricing and availability please access the NHP Customer portal under 'My Account'

Fieldbus I/O Systems

Allen-Bradley On Machine Distributed I/O

- On-Machine (IP67/69K) distributed I/O can be mounted directly on a machine rather than in a remote, central cabinet, reducing wiring costs and allowing for easier maintenance
- On-Machine Block I/O products provide a complete assembly of sensor and actuator interface points, and each includes a network adapter reducing wiring and maintenance cost
- Choose from a wide range of analog, digital, and specialty I/O, as well as on-machine I/O for safety systems to cover off your complete I/O requirements
- 1738 ArmorPoint® I/O and 1799 Embedded I/O ranges are available on ab.com. Contact NHP for further information

On-Machine (IP67/69K) distributed I/O can be mounted directly on a machine rather than in a remote, central cabinet, reducing wiring costs and allowing for easier maintenance. Our On-Machine I/O solutions provide a complete assembly of sensor and actuator interface points and our modular range offers additional flexibility by allowing you to select the exact mix of I/O interfaces and communication adapters to fit your needs.

ArmorBlock® I/O

1732D and 1732E ArmorBlock® I/O provides low-cost, hardened, digital I/O suitable for on-machine use. Mount it anywhere on a machine for automotive, material handling, and semiconductor applications, or when diagnostics and local control are not needed. ArmorBlock® I/O is available for DeviceNet™ and EtherNet/IP™ networks. In addition, Armor WeldBlock I/O is suited for use in typical welding applications and is ideal for end-of-arm robot applications.

- Available with water and corrosion-proof plastic and nickel-plated aluminium sealed housing
- Offers rating for IP69K and NEMA 4X (when marked) for use without an enclosure
- Includes built-in communication adapter
- Offers as many as sixteen 24V DC points which can be addressed per node
- Includes self-configuring blocks with both input and output functionality
- Includes industry-standard connectors which lower installation costs and let you replace blocks without rewiring
- Offers electronic fusing on specific blocks which provides protection for output load devices
- Includes Add-On Profiles in the Studio 5000® (formerly RS Logix™ 5000) Logix Designer application
- The 1732D DeviceNet™ ArmorBlock® I/O range is available on ab.com. Contact NHP for further information
- The DeviceNet™ ArmorBlock® Guard I/O™ range is available on ab.com. Contact NHP for further information

EtherNet/IP™ ArmorBlock® I/O

- Includes built-in EtherNet/IP™ communication adapter and power supply
- Offers 8 or 16 points per block
- Available with CIP Sync on some blocks
- Includes dual-port version with embedded switch technology which supports Device Level Ring (DLR) topology
- Includes quick connect terminations
- Provides analog I/O blocks

EtherNet/IP™ ArmorBlock® Digital DC Input Modules

Digital In (qty)	Digital In (type)	Digital In (range)	DLR (Y / N)	Item Type	Catalogue No.	\$AU
16	DC NPN (Sink)	11 ... 30V DC	Yes	I	1732E-IB16M12R	1,098.06
16	DC NPN (Sink), Diagnostic	11 ... 30V DC	Yes	I	1732E-IB16M12DR	1,150.42
8	DC NPN (Sink), SOE	11 ... 30V DC	Yes	I	1732E-IB8M8SOER	1,235.12



1732E-IB16M12R

EtherNet/IP™ ArmorBlock® Digital DC Output Modules

Digital Out (qty)	Digital Out (type)	Digital Out (range)	DLR (Y / N)	Item Type	Catalogue No.	\$AU
16	DC PNP (Source), Electronically Protected	12 ... 30V DC	Yes	I	1732E-OB16M12R	1,150.42
16	DC PNP (Source), Diagnostic, Electronically Protected	12 ... 30V DC	Yes	I	1732E-OB16M12DR	1,204.34
8	DC PNP (Source)	12 ... 30V DC	Yes	I	1732E-OB8M8SR	1,235.12



1732E-OB16M12R



1732E-12X4M12P5QCDR

EtherNet/IP™ ArmorBlock® Digital Combination Modules

Configurable I/O (qty x type)	Dedicated DI (qty)	Dedicated DO (qty)	Digital In (type, range)	Digital Out (type, range)	DLR (Y / N)	Item Type	Catalogue No.	\$AU
	12	12	DC NPN (Sink), Diagnostic, 12 ... 30V DC	DC PNP (Source), Diagnostic, Electronically Protected, 12 ... 30V DC	Yes	I	1732E-12X4M12P5QCDR	POA
8 x DI / DO			DC NPN (Sink), 11 ... 30V DC	DC PNP (Source), 11 ... 30V DC	Yes		1732E-8CFG8R	1,162.75
	8	8	DC NPN (Sink), Diagnostic, 11 ... 30V DC	DC PNP (Source), Diagnostic, Electronically Protected, 11 ... 30V DC	Yes		1732E-8X8M12DR	1,222.81
16 x DI / DO			DC NPN (Sink), 11 ... 30V DC	DC PNP (Source), Electronically Protected, 11 ... 30V DC	Yes		1732E-16CFG12R	1,285.95
16 x DI / DO			DC NPN (Sink), 12 ... 30V DC	DC PNP (Source), Electronically Protected, 12 ... 30V DC	Yes		1732E-16CFG12QCR	1,395.29



1732E-IF4M12R

EtherNet/IP™ ArmorBlock® Analogue Input Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	DLR (Y / N)	Item Type	Catalogue No.	\$AU
4	Current / Voltage: Single-Ended	-10 ... +10V DC -5 ... 5V DC 0 ... 10V DC 0 ... 5V DC 0 ... 20mA 4 ... 20mA	16 bit (signed)	Yes	I	1732E-IF4M12R	2,494.90



1732E-OF4M12R

EtherNet/IP™ ArmorBlock® Analogue Output Modules

Analogue Out (qty)	Analogue Out (type)	Analogue Out (range)	Analogue Out (resolution)	DLR (Y / N)	Item Type	Catalogue No.	\$AU
4	Current / Voltage: Single-Ended	0 ... 20mA 4 ... 20mA -10 ... +10V DC	16 bit (signed)	Yes	I	1732E-OF4M12R	2,494.90



1732E-IR4IM12R

EtherNet/IP™ ArmorBlock® RTD and Thermocouple Modules

Analogue In (qty)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	DLR (Y / N)	Item Type	Catalogue No.	\$AU
4	RTD / Resistance, Isolated	100Ω Pt 385 100Ω Pt 392 200Ω Pt 385 200Ω Pt 392 10Ω Cu 427 100Ω Ni 618 120Ω Ni 618 120Ω Ni 672 0 ... 674.06Ω	16 bit (signed)	Yes	I	1732E-IR4IM12R	2,494.90
4	Thermocouple / mV, Isolated	-78 ... 78mV DC Type B Type C Type E Type J Type K Type N Type R Type S Type T	16 bit (signed)	Yes	I	1732E-IT4IM12R	2,494.90

EtherNet/IP™ ArmorBlock® Specialty Modules

Item Description	Item Type	Catalogue No.	\$AU
ArmorBlock 8 channel IO-Link Dual Port EtherNet/IP 24V DC module	I	1732E-8IOLM12R	1,529.97

EtherNet/IP™ ArmorBlock® Guard I/O™

ArmorBlock Guard I/O provides all the advantages of traditional distributed I/O for safety systems, but has an IP 64, IP 65, or IP 67 package that can be mounted directly on your machine.

- Used only with GuardLogix, Compact GuardLogix, and Armor GuardLogix, configurable with a module-specific profile in Studio 5000 Logix Designer® software
- Provides PLd-rated, single channel safety inputs and PLe-rated, dual channel, safety inputs; safety outputs rated up to PLe
- Available in bipolar and sourcing safety output configurations
- Supports Device Level Ring (DLR) and Linear topologies via an EtherNet/IP embedded switch
- Provides rotary switches to set the IP address
- Mounts on the machine with an IP65-rated package for wash-down protection
- Provides standardised M12 connectors to wire your field devices

EtherNet/IP™ ArmorBlock® Guard I/O™ Safety Digital Combination Modules

Safety In (qty)	Safety In (type)	Safety Out (qty)	Safety Out (type)	PulseTest Out (qty)	Item Type	Catalogue No.	\$AU
12 x Digital	24V DC Sinking (PNP)	4 x Digital	24V DC Sourcing (NPN)	12	I	1732ES-IB12XOB4	POA



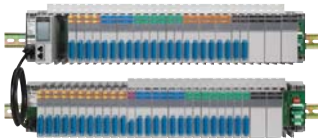
1732ES-IB12XOB4

Fieldbus I/O Systems

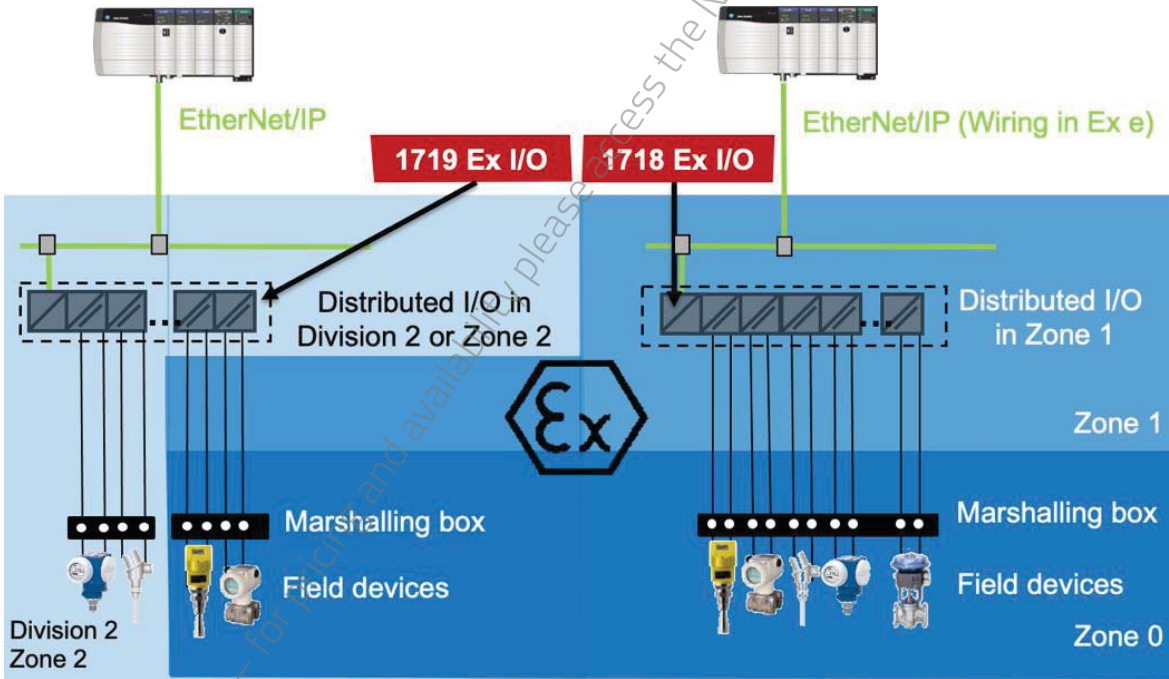
Allen-Bradley® Ex I/O

1718 EX I/O
1719 EX I/O

Page 540
Page 542



- Distributed I/O solution mounted in hazardous areas to connect directly to field devices in Div. 1 or Zones 0/1 areas
- Provides intrinsically safe I/O to satisfy application requirements, certified for:
 - Zone 2 or Class I, Div 2 mounting with 1719 Ex I/O
 - Zone 1 (in certified enclosure) with 1718 Ex I/O
- Integrates with the Integrated Architecture system for easy configuration
- Connects on EtherNet/IP
- Supports in RSLogix 5000 v24 and above with Add-on Profile
- Offers compact, chassis-based I/O design where power supply is contained on the chassis
- Includes DLR adapter and optional power supply redundancy
- Offers HART 7 support that is standard on all analog modules



E7118D03_dCHRT-S01

1718 EX I/O

The Allen-Bradley Bulletin 1718 Ex I/O modules are an intrinsically safe distributed I/O platform designed for Zone 1 hazardous areas, when placed in certified enclosures. This platform integrated field devices via EtherNet/IP in a compact, chassis-based I/O design. The form factor provides maximum efficiency and reduces the need for additional hardware and wiring.

Ex I/O Communications Module

The EtherNet/IP adapter forms the interface between the I/O modules on the chassis and the process control system. Through this interface signals from NAMUR sensors, mechanical contacts, High-power solenoid drivers, power relays, sounders, and alarm LEDs are transported to the higher-level bus system.

- Communications through EtherNet/IP
- Installation in suitable enclosures in Zone 1
- HART communication through EtherNet/IP
- Interface between the I/O modules and the PC5/PLC

Item Description	Item Type	Catalogue No.	\$AU
Ex I/O EtherNet/IP Adapter	I	1718-AENTR	3,010.35

Pricing in this document is valid for information only and available on the NHP customer portal under 'My Account'

Ex I/O Chassis

Chassis are used to hold adapters, power supplies, and I/O modules. Fixed slots are reserved on the chassis for adapters and power supplies. Slots for I/O modules have equal status; functions can be arranged in any sequence, as required.

- Redundancy (power supply)
- Installation in suitable enclosures in Zone 1

Item Description	Item Type	Catalogue No.	\$AU
Ex I/O Base Chassis 10 Slot	I	1718-A10	3,541.59
Ex I/O Base Chassis 20 Slot	I	1718-A20	4,958.23

Ex I/O Power Supply

The power supply provides power for the I/O modules and adapters that are mounted on the chassis. Power supplied can be connected in parallel to achieve redundancy. Input supply and output supply are galvanically isolated from each other.

- Power supply for 24V DC
- Suitable for supplying 1 adapter and up to 20 I/O modules, depending on individual power consumption of the modules
- Installation in suitable enclosures in Zone 1
- Module can be removed and inserted under power (RIUP)
- Use two power supplies for redundancy

Item Description	Item Type	Catalogue No.	\$AU
Ex I/O Power Supply DC	I	1718-PSDC	1,593.71

EX I/O Modules**Ex I/O Digital DC Input**

Item Description	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
Ex I/O 8 Point Digital Input NAMUR	NAMUR	0 ... 8V DC	1719TB8X2SA	I	1718-IBN8	973.94
Ex I/O 8 Point Digital Input NAMUR Wide	NAMUR Compatible NO Relay	0 ... 8V DC	1719TB8X2F	I	1718-IBN8B	973.94
Ex I/O Frequency Counter	High-Speed Counter / Encoder	0 ... 8V DC	1719TB6F	I	1718-IJ	1,042.29



1718-IBN8

Ex I/O Digital DC Output

Item Description	Application (type)	Voltage (open loop)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
Ex I/O 2 Digital Output 23V	LEDs Sounder VSD Solenoids	23	1719TB8F	I	1718-OB2	885.40
EX I/O 2 Digital Output 16.5V	LEDs Sounder VSD Solenoids	16.5	1719TB8F	I	1718-OB2L	885.40

Ex I/O Analogue Input

Item Description	Protocol (Comms)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
Ex I/O 4 Channel HART Analog Input Wide	HART	Configurable - Analogue Input or Analogue Output	4 ... 20mA	12 bit (unsigned / unipolar)	1719TB8X2F	I	1718-IF4HB	1,655.70

Ex I/O Analogue Configurable

Item Description	Analogue (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
Ex I/O 4 Channel HART Analog Configurable	Configurable	4 ... 20mA	12 bit (unsigned / unipolar)	1719TB8F	I	1718-CF4H	1,947.88

Ex I/O RTD and Thermocouple

Item Description	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
Ex I/O 4 Channel RTD Input	RTD	100Ω Pt 385 100Ω Ni 618 1kΩ Ni 618 1kΩ Pt 385 200Ω Pt 385 500Ω Pt 385 500Ω Ni 618	12 bit (unsigned / unipolar)	1719TB8X2F	I	1718-IR4B	1,593.71
Ex I/O 4 Channel Thermocouple Input	Thermocouple, Diagnostic			1719TB8X2F	I	1718-IT4B	1,593.71

Ex I/O Accessories

Item Description	Item Type	Catalogue No.	\$AU
Ex I/O M12-RJ45 ETHERNET/IP CABLE 2M	I	1718-E4UBJM-2	177.08
Ex I/O M12-M12 ETHERNET/IP CABLE 1M	I	1718-E4UBDE-1	194.78
Ex I/O Empty Slot Cover	I	1718-ARM	196.98
Ex I/O Chassis Extension Cable, 3M	I	1718-CBL3	354.15
Ex I/O M12-RJ45 ETHERNET/IP CABLE 20M	I	1718-E4UBJM-20	513.54
Ex I/O M12-M12 ETHERNET/IP CABLE 20M	I	1718-E4UBDE-20	531.24
Ex I/O M12-RJ45 ETHERNET/IP CABLE 40M	I	1718-E4UBJM-40	867.69
Ex I/O M12-M12 ETHERNET/IP CABLE 40M	I	1718-E4UBDE-40	885.40
Ex I/O M12-RJ45 ETHERNET/IP CABLE 100M	I	1718-E4UBJM-100	1,947.88
Ex I/O M12-M12 ETHERNET/IP CABLE 100M	I	1718-E4UBDE-100	2,124.95

1719 EX I/O

The 1719 EX I/O modules are an intrinsically safe distributed I/O platform that can be mounted in Zone 2 or Class I, Div 2. This platform integrates devices in hazardous areas via Ethernet/IP in a chassis-based I/O design that provides maximum efficiency in a small space.

- Communication via EtherNet/IP™
- HART communication via EtherNet/IP™
- An adapter can control up to 45 I/O modules
- Interface between the I/O modules and the PCS / PLC
- Installation in Zone 2 or Class I, Div. 2 or safe area
- Configuration via FDT 1.2 DTM
- Non-volatile memory for configuration and parameter settings
- Permanently self-monitoring

Ex I/O Communications Module

The Ethernet/IP adapter forms the interface between the I/O modules on the backplane and the process control system. It supports all single width and dual width I/O modules. Thereby signals from NAMUR sensors, mechanical contacts, high-power solenoid drivers, power relays, sounders, and alarm LEDs are transported to the higher-level bus system. The adapter can be configured via DTM and supports HART.

- Communication via EtherNet/IP
- HART communication via EtherNet/IP
- An adapter can control up to 45 I/O modules
- Interface between the I/O modules and the PC5/PLC
- Installation in zone 2 or class I, Div. 2 or safe area
- Configuration via FDT 1.2 DTM
- Non-volatile memory for configuration and parameter settings
- Permanently self-monitoring



1719-AENTR

Item Description	Item Type	Catalogue No.	\$AU
Ex I/O EtherNet/IP Adapter		1719-AENTR	3,055.38

Ex I/O Chassis

Backplanes are used to hold adapters, power supplies, and I/O modules. Fixed slots are reserved on the backplane for adapters and power supplies. Slots for I/O modules have equal status, functions can be arranged in any sequence, as required.

Item Description	Item Type	Catalogue No.	\$AU
Ex I/O Chassis 8 Slot	I	1719-A8	1,253.48
Ex I/O Chassis 22 Slot	I	1719-A22	1,532.39
Ex I/O Chassis 24 Slot	I	1719-A24	1,613.86

Ex I/O Power Supply

The power supply provides power for the I/O modules and adapters mounted on the backplane. Power supplies can be connected in parallel to achieve redundancy. Two power supplies may be needed, depending on the number and power consumption of the modules used. A third power supply then handles redundancy, input supply and output supply are galvanically isolated from each other (EN 61010-1).

- Power Supply 24V DC
- Permits vertical or horizontal mounting in Zone 2
- Installation in Zone 2 or Class I, Div. 2 or safe area
- Use up to three 1719-PSDC power supplied for N+1 redundancy
- Power supply of I/O modules and adapters
- Module can be exchanged under voltage when the area is non-hazardous

Item Description	Item Type	Catalogue No.	\$AU
Ex I/O Power Supply DC		1719-PSDC	1,389.80



1719-PSDC

Ex I/O Modules**Ex I/O Digital DC Input**

Item Description	Digital In (type)	Digital In (range)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
Ex I/O Frequency Counter	High-Speed Counter / Encoder	0 ... 8V DC	1719TB6S 1719TB6	I	1719-IJ	882.15
Ex I/O 8 Digital Input NAMUR Wide	NAMUR Compatible NO Relay	0 ... 8V DC	1719TB8X2 1719TB8SX2	I	1719-IBN8B	1,048.23

Ex I/O Digital DC Output

Item Description	Application (type)	Voltage (open loop)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
Ex I/O 2 Digital Output 23V	LEDs Sounder VSD Solenoids	23	1719TB8 1719TB8S	I	1719-OB2	838.26
EX I/O 2 Digital Output 16.5V	LEDs Sounder VSD Solenoids	16.5	1719TB8 1719TB8S	I	1719-OB2L	838.26



1719-OB2

Ex I/O Analogue Input

Item Description	Protocol (Comms)	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
Ex I/O 4 Channel HART Analog Input Wide	HART	Configurable - Analogue Input or Analogue Output	4 ... 20mA	12 bit (unsigned / unipolar)	1719TB8X2 1719TB8SX2	I	1719-IF4HB	1,786.21



1719-IF4HB

Ex I/O Analogue Configurable

Item Description	Protocol (Comms)	Analogue (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
Ex I/O 4 Channel HART Analog Configurable	HART	Configurable	4 ... 20mA	12 bit (unsigned / unipolar)	1719TB8 1719TB8S	I	1719-CF4H	2,099.59

Ex I/O RTD and Thermocouple

Item Description	Analogue In (type)	Analogue In (range)	Analogue In (resolution)	Terminal Block(s) (compatible)	Item Type	Catalogue No.	\$AU
Ex I/O 4 Channel RTD Input	RTD	100Ω Pt 385 200Ω Pt 385 500Ω Pt 385 1kΩ Pt 385 100Ω Ni 618 500Ω Ni 618 1kΩ Ni 618	12 bit (unsigned / unipolar)	1719TB8X2 1719TB8SX2	I	1719-IR4B	1,723.54
Ex I/O 4 Channel Thermocouple Input	Thermocouple, Diagnostic	Type U Type B Type E Type T Type K Type S Type R Type L Type J Type N	12 bit (unsigned / unipolar)	1719TB8X2 1719TB8SX2	I	1719-IT4B	1,723.54

Ex I/O Accessories

Item Description	Item Type	Catalogue No.	\$AU
Ex I/O 6 Pole Screw Terminal	I	1719-TB6	23.82
Ex I/O 6 Pole Spring Terminal	I	1719-TB6S	23.82
Ex I/O 8 Pole Screw Terminal	I	1719-TB8	28.35
Ex I/O 8 Pole Spring Terminal	I	1719-TB8S	28.35
Ex I/O 2x8 Pole Spring Terminal	I	1719-TB8SX2	50.30
Ex I/O 2x8 Pole Screw Terminal	I	1719-TB8X2	50.30
Ex I/O Chassis Extension Cable, 1m	I	1719-CBL	50.76
Ex I/O Empty Slot Cover	I	1719-ARM	166.08

Analogue Signal Converters

Allen-Bradley Signal Converters

- A complete range of high density, universal and standard signal converters
- A diverse range of signal configurations simplifies project design phase
- Small footprint saves panel space
- Easily configured using DIP switches
- Bulletin 1492 jumpers easily distribute power between signal conditioners

Rockwell Automation analog signal conditioners are designed to isolate, transmit, convert, split, and amplify analog signals in harsh industrial environments in order to improve the reliability of your process. These signal conditioners save panel space, provide isolation via galvanic isolation, solve mismatched signal issues, standardize on a signal type, reduce wiring with loop powered units, and improve troubleshooting.



931N Signal Conditioners

The Allen-Bradley Bulletin 931N Nano signal conditioners provide a full range of options to isolate, convert, split, linearize, and amplify a broad range of signal types. These products help protect your expensive control system from transient and noise while eliminating ground loop/noise-induced errors in process measurements through galvanic isolation. There are products with dual channels, input and output loop powered options. These products offer excellent performance in terms of galvanic isolation, accuracy, response time, and power dissipation.

- Offers the following Signal Types: Analog, Bipolar, Thermocouple, RTD, Linear Resistance, Potentiometer
- Offers time savings from power DIN rail option that reduces the need for power supply wiring for each device. One feed module powers up to 75 devices
- Offers high galvanic isolation, 2.5kV AC
- Includes angled connection terminals which allow for easy wiring
- Features DIP switches for easy configuration
- Offers low power consumption for greater energy efficiency
- Provides high accuracy (0.05%) for optional system performance
- Offers fast response time (less than 5/7 ms for analog signal and less than 30 ms for temperature measurements) lowering downtime
- Simplifies troubleshooting by onboard sensor and signal error indication
- Provides NAMUR 43 functional range, 0...23mA enabling sensor/signal error detection

Input Signal	Output Signal	Power	Channels	Item Type	Catalogue No.	\$AU
PT100	4...20mA;20...4mA	Output Loop	1		931N-R161	241.57
PT100	0/4...20mA;0/1/2...5/10V	24V DC	1		931N-R221	270.64
Thermocouple J, K; PT100	4...20mA;20...4mA	Output Loop	1	I	931N-N161	301.80
0/4...20mA;0/1/2...5/10V	0/4...20mA;0/1/2...5/10V	24V DC	1		931N-A221	303.73
0...23mA	0...23mA	Input Loop	1	I	931N-C141	310.45
Thermocouple J/K	0/4...20mA;0/1/2...5/10V	24V DC	1		931N-T221	343.78
+10/+20 mA ;+10V	0/4...20mA;0/1/2...5/10V	24V DC	1		931N-X221	367.33
0...23mA	0...23mA	Output Loop	1	I	931N-C161	368.21
0...23mA	0...23mA	24V DC	1	I	931N-C121	405.21
0...23mA	0...23mA	Output Loop	2	I	931N-C164	424.92
0...23mA	0...23mA	24V DC	Splitter	I	931N-C122	465.32
0...23mA	0...23mA	Input Loop	2	I	931N-C144	471.28
0/4...20mA;0/1/2...5/10V	0/4...20mA;0/1/2...5/10V	24V DC	Splitter		931N-A222	519.16
Universal	Universal	24V DC	1		931N-U221	528.69
+10/+20 mA ;+10V	0/4...20mA;0/1/2...5/10V	24V DC	Splitter		931N-X422	533.26



931N-R161

931 Accessories

Power Bus DIN System

Kit Contains:

- 1 bus circuit layer insert
- 1 support section
- 1 cover
- 1 end left plate
- 1 end right plate
- Eliminates the need to wire devices to power supply
- Provides up to 2.5 A
- One feed module powers up to 75 signal conditioners
- Redundant power can be achieved with two feeds at opposite ends

DIN Size	Length	Item Type	Catalogue No.	\$AU
35 x 7.5 mm	250 mm		931A-CS	177.58
35 x 7.5 mm	500 mm		931A-FS	200.47
35 x 15 mm	250 mm		931A-CL	221.78
35 x 15 mm	500 mm		931A-FL	264.11

Configuration Cable

Assists in the configuration of devices with DTM files

Item Description	Item Type	Catalogue No.	\$AU
USB INTERFACE CABLE		931A-CB	277.62

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Remote Access

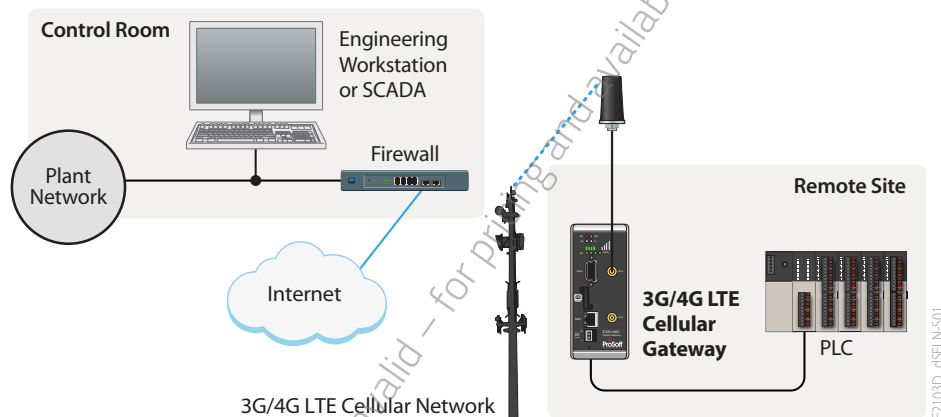
ProSoft Remote Access Devices

ProSoft® remote access devices are the ideal communication solution for system integrators and OEMs that have to monitor devices that are in hard-to-reach spots. With these devices customers can monitor and troubleshoot from anywhere in the world over 4G LTE cellular connections, with fallback to 3G. This ensures clear communications and longevity for the application. An EtherNet/IP™ controller can send a message to the gateway, and read diagnostic data like signal strength, data usage, and more, allowing the user to avoid time-consuming and costly site visits. The industrial cellular gateway can also be monitored through ProSoft® Connect, ProSoft® Technology's secure, cloud-native platform for the Industrial Internet of Things (IIOT). This service can be accessed anywhere in the world, offering the user an intuitive web interface from which they can monitor their automation devices in real time.

Industrial Cellular Gateway

The ICX35-HWC Industrial Cellular Gateway from ProSoft Technology is the ideal communication solution for system integrators and OEMs that have to monitor devices that are in hard-to-reach spots. With the gateway, they can monitor and troubleshoot their devices from anywhere in the world over 4G LTE cellular connections, with fallback to 3G. This ensures clear communications and longevity for the application. An EtherNet/IP™ controller can send a message to the gateway, and read diagnostic data like signal strength, data usage, and more, allowing the user to avoid time-consuming and costly site visits. The Industrial Cellular Gateway can also be monitored through ProSoft Connect™, ProSoft Technology's secure, cloud-native platform for the Industrial Internet of Things. This service can be accessed anywhere in the world, offering the user an intuitive Web interface from which they can monitor their automation devices in real time.

- Supports OpenVPN and IPsec
- EtherNet/IP object support: Your PAC/PLC can easily read diagnostic data from the gateway
- Integrates with ProSoft Connect™, ProSoft Technology's secure, cloud-native platform for the Industrial Internet of Things
- Port forwarding – 10 entries maximum
- Supports SMS messaging with EtherNet/IP controller
- Secure VPN connections over Internet and cellular links for remote site access to corporate networks (VPN Client Mode)
- Can act as an NTP client and/or server
- Built-in web server for local/remote configuration, monitoring, and wireless network diagnostics
- The ICX35-HWC firmware version 1.5.65 and above supports WAN connection.



Item Description	Item Type	Catalogue No.	\$AU
Prosoft Industrial Gateway Cellular CDMA EDVO GSM LTE		ICX35-HWC	1,855.00
Prosoft Industrial Gateway Cellular CDMA EDVO GSM LTE with Basic Antenna	K	ICX35-HWCA	1,929.00



ICX35-HWC

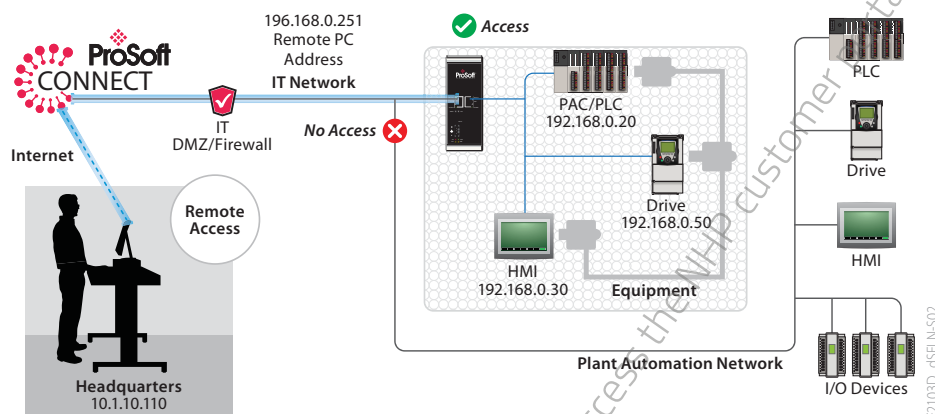
Prosoft Cellular Antenna

Item Description	Item Type	Catalogue No.	\$AU
Prosoft Antenna Omni Magnetic 4dBi 4M COAX 824-960 MHz 1710-1990 MHz		A081904-OM	130.00
Prosoft Antenna Omni 3 dBi N BH J 806-960/1710		A082503-80-OBH	293.00
Prosoft Antenna Omni Colinear 6/7 dBi 698-2700 MHz	I	A072706NJ-OC	998.00

Industrial Network Bridge

ProSoft Technology has added the PLX35-NB2 Network Bridge to its slate of Secure Remote Access solutions. This wired solution can help system integrators, machine builders, or anyone that wants to cut down on unnecessary travel time for minor fixes by allowing them to troubleshoot their remote equipment from anywhere in the world. The module's remote connections are handled through ProSoft Connect, a secure, cloud-native platform designed to help users realize benefits from the Industrial Internet of Things.

- Enable / Disable remote access locally via an EtherNet/IP™ message
- Remote Connectivity lets you access a remote network without leaving your office
- The network bridge does not support routing. This secures communication is only established to the target LAN
- Integrates with ProSoft Connect, ProSoft Technology's secure, cloud-native platform for the Industrial Internet of Things
- EasyBridge™ secure remote access provides the easiest way to connect PLC software to remote PLCs
- Does not require additional software, increasing network security



Item Description	Item Type	Catalogue No.	\$AU
Prosoft Remote Access Network Bridge		PLX35-NB2	1,573.00



PLX35-NB2

Prosoft Power User Plan

Remote Access Plan

Standard	Power User Plan 3x3	Power User Plan 6x6
1 GB EasyBridge Data	3 GB EasyBridge Data	6 GB EasyBridge Data
2 Standard Projects	10 Standard Projects	10 Standard Projects
2 Concurrent EasyBridge Connections (to Different Gateways)	3 Concurrent EasyBridge Connections (to Same or Different Gateways)	6 Concurrent EasyBridge Connections (to Same or Different Gateways)
Standard Two-Factor user Authentication (Email based)	Two-Factor user Authentication (Email and App based)	Two-Factor user Authentication (Email and App based)
	Lockout, Tagout (vLOTO)	Lockout, Tagout (vLOTO)
	Enhanced Customers Management Capabilities	Enhanced Customers Management Capabilities

E2103D03_dCHRT-S01

Item Description	Item Type	Catalogue No.	\$AU
Prosoft Remote Access Power User Plan 3x3 12 Months	S	PSC-PUP-MED-12	782.00
Prosoft Remote Access Power User Plan 6x6 12 Months	S	PSC-PUP-LRG-12	1,364.00
Prosoft Remote Access Power User Plan 3x3 24 Months	S	PSC-PUP-MED-24	1,364.00
Prosoft Remote Access Power User Plan 6x6 24 Months	S	PSC-PUP-LRG-24	2,335.00

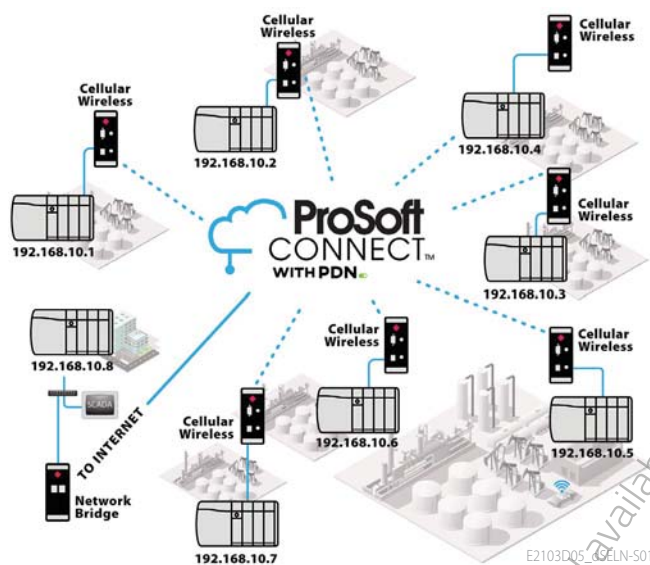
ProSoft Persistent Data Network (PDN)

Persistent Data Network (PDN) is an application on ProSoft Connect, ProSoft Technology's secure, cloud-native service optimized for high reliability and availability. PDN is a simple, secure, and managed infrastructure network designed to enable remote communications between automation devices that are geographically dispersed. PDN is intuitive and easy to set up, without the need to configure complicated communication settings or manage security certificates. An activity log provides detailed account activity information.

PDN users can establish safe and secure remote communications with their machines anywhere in the world. Using Connect's unique EasyBridge™ technology, automation programming tools Studio 5000 can talk directly to the automation devices.

What is included with a PDN Subscription?

- Up to 50 PDN projects and 100 sites (gateways) per project.
- 2GB per month per site for PDN data usage
- 1 GB per gateway per month for on-demand Secure Remote Access usage (in addition to PDN data limit)
- Advanced Two-Factor Authentication (2FA)
- Concurrent tunneling (for Secure Remote Access)
- Activity log for 30 days
- Alarm Notification



Item Description	Item Type	Catalogue No.	\$AU
One time activation of the PDN service for the ProSoft	S	PSC-PDN-ACT	POA
PDN subscription for 1 site/ 1 year	S	PSC-PDN-SITE-1Y	POA
PDN subscription for 1 site/ 2 year	S	PSC-PDN-SITE-2Y	POA
PDN subscription for 1 site/ 3 year	S	PSC-PDN-SITE-3Y	POA

Remote Access

Remote Access Devices



- Web-based Configuration
- Secure VPN Remote Access
- Data Acquisition
- Data Services
- Alarm Management and Notification
- Data Logging and Retrieval
- Firewall Friendly

Equipment that provides real time and readily available data is key to this and thanks to the range of NHP industrial remote access devices, this is now easier than ever before.

With the capability to identify and troubleshoot performance issues, and in many cases, before they occur, the NHP remote access range greatly reduces downtime and increases productivity.

In partnership with the Talk2M cloud-based connectivity service, these remote access devices can be the difference between success and failure for your customers. The remote diagnostic capability eliminates the need for major travel to fix minor issues.

Cosy Range

The Cosy (COMMunication made eaSY) is an industrial VPN router designed to offer easy remote access, across the internet, to machines and installations on customer sites or in the field. With the Cosy you can troubleshoot machines remotely without going on site, drastically reducing support costs.

Item Description	Item Type	Catalogue No.	\$AU
Cosy 131 Remote Access Device 4G		COSY131N4	1,478.00

Flexy Range

The Flexy is an industrial modular machine-to-machine (M2M) router and data gateway designed for data monitoring, alarming (SMS and email) and data collection. The Flexy provides the capability to communicate universally with the most varied field equipment, regardless of the protocol used. This is increasingly important in an environment where communication technologies are constantly changing.

Remote Access Devices

The Flexy is a modular industrial M2M router designed to provide a low-cost solution for large deployments. The Flexy includes routing and gateway capabilities between WAN, LAN and RS232 / 422 / 485 fieldbus. The Flexy also provides data monitoring, alarming (SMS and email) and data collection.

- Web-based configuration
- Secure vpn remote access
- Data acquisition
- Data services
- Alarm management and notification
- Data logging and retrieval
- Firewall friendly
- High security
- Modular router



FLEXY205N

Item Description	Item Type	Catalogue No.	\$AU
Flexy 202 Base 4 Slots 1 x 10/100 MB ENET 1 x RS232/422/485	I	FLEXY202N	1,182.00
Flexy 203 Base 1 x 10/100 MB Enet 1XMP1	I	FLEXY203N	1,355.00
Flexy 201 Router Function 4 x 10/100 MB Ethernet	I	FLEXY201N	1,429.00
Flexy 205 Base Unit 2 Extension Card Slots 4 x 10/100 MB Ethernet Ports		FLEXY205N	1,602.00

Extension Cards

The Flexy is equipped with extensions cards allowing you to keep up with the evolution of communication technologies while protecting your investment in the device. The Flexy concept allows you to upgrade easily to new technology and is able to connect to a wide range of industrial devices. The available extension cards allows a wide range of field interfaces (RS232, RS485, RS422, Ethernet, 3G cellular gateway) supporting numerous industrial protocols.



FLB3202N

Item Description	Item Type	Catalogue No.	\$AU
Flexy Card X Type 8 x 24V DC Digital Inputs 2 x Relay Outputs 4 x 0 - 10V DC Analogue Inputs	I	FLX3402N	416.00
Flexy Card X Type WAN 10/100MB Ethernet	I	FLX3101N	489.00
Flexy Card B Type 3G Penta Band Modem		FLB3202N	589.00

Antennae

Item Description	Item Type	Catalogue No.	\$AU
Antenna 3G 5dBi SMA Magnetic Base 824-2170MHz		HSP-ANT01-3M	62.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Remote Access

InterceL Communications



- Remotely control a machine or automated system via SMS
- Receive alarm and status notifications to one or more mobile phones
- Supplied with a mini-magnetic external low-gain antenna
- Interfacing with Micro800 PLCs made simple with free sample code
- Starter kit available with all required hardware (contact NHP)

InterceL is a leading manufacturer of cellular modems, suitable for a wide range of applications such as remote meter reading, industrial monitoring, automation, security and environmental monitoring. These easy-to-use 4G modems integrate seamlessly with NHP's range of Micro PLC controllers. For areas where signal strength is weak, a range of high gain antennae are available to ensure the integrity of your connection.

4G Modems

These modems are primarily used to send and receive SMS messages via the 4G cellular network. This solution provides a cost-effective and secure method to remotely interface with machines and automation systems, as well as to establish machine-to-machine communications. 4G modems are commonly used for applications including remote pump control and remote alarming. 4G antenna sold separately.



ASSSMRTS4QR3

Item Description	Item Type	Catalogue No.	\$AU
4G LTE Modem, External Antenna, Serial RS232	I	ASSSMRTS4QR3	427.00
4G LTE Modem, Internal & External Antenna, Serial RS232	I	ASSSMRTS4T	427.00
4G LTE Modem, Internal & External Antenna, USB	I	ASSSMRTS4TUSB	427.00

Accessories

Antennae

There is an InterceL antenna available to suit the requirements of any application where reception or signal strength may be weak. There are multiple mounting methods available, each providing a different amount of signal gain. Each antenna is supplied with a 4-metre coaxial cable, terminated in a FME socket.

Item Description	Item Type	Catalogue No.	\$AU
4G Antenna, Magnetic Mount, 3dBi, FME Connector, 4.3m Cable	I	ANT4GMAG	40.00
4G Antenna, Roof Mount, 3dBi, FME Connector, 4.3m Cable	I	ANT4GROOF	40.00
4G Antenna, Patch, 2dBi, FME Connector, 4m Cable	I	ANTLTMULTIPATCH	44.00
4G Antenna, Omni-Directional, 2-5dBi, FME Connector, 2m Cable	I	ANTLTE2F	73.00

Cables

When the required distance between the antenna and your modem is greater than the cable bundled with the antenna, use these extension cables to bridge the gap while maintaining signal strength.

Item Description	Item Type	Catalogue No.	\$AU
Antenna Extension Cable, FME To FME, 3M	I	CABCOAXEXT3	86.00
Antenna Extension Cable, FME To FME, 7M	I	CABCOAXEXT7	157.00

Connectors

Adapter devices help provide a method of connecting the FME socket external antenna cable to the appropriate jack on the 3G modem.

Item Description	Item Type	Catalogue No.	\$AU
Antenna Connector, FME to SMB, Straight	I	CONSMBFME	POA
Antenna Connector, FME to SMA, Straight	I	CONSMAFME	15.00
Antenna Connector, FME to SMB, Right Angle	I	CONSMBFMERA	15.00

Gateways

ProSoft® Gateways

- Communication between several of the leading industrial protocols
- Multiple I/O connections
- Bi-Directional data transfer
- Remote Configuration and Diagnostics
- DIN-Rail mounted
- Other gateways variants are available. Please contact NHP for further information.



ProSoft® offers a comprehensive range of stand-alone protocol gateways which provide communication between several of the leading industrial protocols: Serial, Ethernet, EtherNet/IP™, Modbus Plus, Modbus TCP/IP, PROFIBUS, A-B Remote I/O, HART, Honeywell DE, Metasys, LONworks, BACnet MS/TP or BACnet IP. The ProSoft® gateways allow extracting or importing data from devices by converting one protocol to another. These gateways are especially useful when there is no possibility of using a protocol interface module in a processor due to network or space constraints.

ProSoft® EtherNet/IP™ Gateways

ProLinx® EtherNet/IP™ gateways provide the ability to connect systems and devices that do not normally support the EtherNet/IP™ protocol to an EtherNet/IP™ network. The gateways are configurable and support a wide range of networks and protocols. The EtherNet/IP™ gateway is a powerful module designed with both Client and Server support, enabling easy connection to Rockwell Automation® Programmable Logic Controllers.

PLX31 Range

- Data prioritization: Multiple I/O connections allow you to set RPIs for status and/or control data, optimizing Ethernet bandwidth.
- Includes an embedded EDS Add-On Profile, allowing for simplified integration and reduced commissioning time.
- Includes a SD card slot (SD card optional) for storing configuration files. This can be used for disaster recovery.
- ProSoft Discovery Service: This utility allows your PC to see the gateway and change its default IP address without being on the same subnet.
- Secure module configuration via module switch (v1.04 and greater).
- Up to 10,000 16-bit registers can be used to exchange large amounts of data.

Item Description	Item Type	Catalogue No.	\$AU
Gateway EtherNet/IP To ASCII		PLX31-EIP-ASCII	1,796.00
Gateway EtherNet/IP To Serial Modbus		PLX31-EIP-MBS	1,796.00
Gateway EtherNet/IP To Modbus TCP Gateway		PLX31-EIP-MBTCP	1,796.00
Gateway EtherNet/IP To Profinet IO Slave		PLX31-EIP-PND	1,796.00
Gateway EtherNet/IP To Siemens Industrial Ethernet	I	PLX31-EIP-SIE	2,495.00
Gateway EtherNet/IP To ASCII 4 Serial Ports	I	PLX31-EIP-ASCII4	3,435.00
Gateway EtherNet/IP To 4 Port Serial Modbus		PLX31-EIP-MBS4	3,435.00



PLX31-EIP-MBTCP

PLX32 Range

- Same as PLX31, plus...
- Two separate Ethernet ports allow each protocol to reside on separate subnets. This allows you to pass data between the two subnets without changing each device's IP address to be on the same subnet.

Item Description	Item Type	Catalogue No.	\$AU
Gateway EtherNet/IP To Modbus TCP Dual Subnets		PLX32-EIP-MBTCP	2,495.00
Gateway EtherNet/IP To Profinet Dual Subnets		PLX32-EIP-PND	2,495.00
Gateway EtherNet/IP To Siemens Industrial Ethernet Dual Subnets	I	PLX32-EIP-SIE	2,957.00
Gateway EtherNet/IP to IEC 60870-5-104	I	PLX32-EIP-104	3,357.00
Gateway EtherNet/IP to Modbus TCP to OPC UA	I	PLX32-EIP-MBTCP-UA	3,831.00



PLX32-EIP-MBTCP-UA

PLX82 Range

- Multiple I/O connections allow for high-speed control for large PROFINET I/O systems
- Isolated Ethernet ports allow devices on different protocols to be on different subnets
- ODVA-approved
- PROFINET v2 certification with PROFINET class A compliance
- Field-tested with multiple PROFINET devices from multiple vendors
- Remotely view and diagnose EtherNet/IP and PROFINET networks
- Embedded EDS AOP provided to allow for seamless integration to Studio 5000 and RSLogix™ 5000
- Using EtherNet/IP I/O connections, no ladder programming is required

Item Description	Item Type	Catalogue No.	\$AU
Gateway Ethernet/IP to Profinet Controller	I	PLX82-EIP-PNC	4,404.00
Gateway EtherNet/IP To IEC 61850 Client 2 Port		PLX82-EIP-61850	6,411.00



PLX82-EIP-PNC

ANX2 Range

Designed to help customers initiate a phased migration. It features built in web server for configuration and diagnostics data.

- Configures through a web browser (No special configuration software required)
- Customizable configuration files provide additional flexibility
- Supports offline configuration through a .CSV file
- Monitor mode enables testing and verification of PAC logic before controlling physical I/O, reducing the risk of production loss due to programming errors
- View diagnostics with a web browser enabling remote monitoring and troubleshooting

Item Description	Item Type	Catalogue No.	\$AU
Gateway EtherNet/IP To DH+ Or RIO		AN-X2-AB-DHRIO	4,965.00
GATEWAY ETHERNET/IP TO GE GENIUS I/O NETWORK	I	AN-X2-GENI	5,478.00
Gateway Ethernet/IP to Modicon S908	I	AN-X2-MOD	6,451.00
Gateway EtherNet/IP to Square D Remote I/O scanner	I	AN-X2-SQD	7,409.00

ProSoft® Modbus TCP/IP Gateways

PLX31 Range

- Supports up to 20 simultaneous client & server connections, allowing for faster communication between devices such as HMI's, SCADA systems, power monitors and flow computers, among others.
- Includes a SD card slot (SD card optional) for storing configuration files. This can be used for disaster recovery.
- ProSoft Discovery Service: This utility allows your PC to see the gateway and change its default IP address without being on the same subnet.
- Secure module configuration via module switch (v1.04 and greater).
- Up to 10,000 16-bit registers can be used to exchange large amounts of data.

Item Description	Item Type	Catalogue No.	\$AU
Gateway Modbus TCP/IP Client Server To Profinet	I	PLX31-MBTCP-PND	1,593.00
Gateway Modbus TCP To Modbus Serial	I	PLX31-MBTCP-MBS	1,796.00
Gateway Modbus TCP/IP To Siemens Industrial Ethernet	I	PLX31-MBTCP-SIE	2,495.00
Gateway Modbus TCP To Modbus Serial 4 Port	I	PLX31-MBTCP-MBS4	3,435.00

PLX32 Range

- PROFINET v2 certification with PROFINET class A compliance
- Field-tested with multiple Modbus TCP/IP devices, and PROFINET controllers from multiple vendors
- Remotely view and diagnose Modbus TCP/IP and PROFINET networks
- Remote configuration via the free, intuitive, ProSoft Configuration Builder (PCB) software
- Multiple, simultaneous Modbus TCP/IP client and/or server connections to allow for increased throughput
- Secure module configuration via module switch (v1.04 and greater)
- Up to 10,000 16-bit registers can be used to exchange large amounts of data

Item Description	Item Type	Catalogue No.	\$AU
Gateway Modbus TCP/IP Client/Server To Profinet Dual Subnets	I	PLX32-MBTCP-PND	2,495.00
Gateway Modbus TCP To Siemens Industrial Ethernet Dual Subnets	I	PLX32-MBTCP-SIE	2,957.00

PLX82 Range

- Configuration Utility Integrates Tightly with Unity Pro
- Configuration Archive and Diagnostics
- Import Configured IED files
- Modbus TCP/IP Client/Server support

Item Description	Item Type	Catalogue No.	\$AU
Gateway Modbus TCP/IP to Profinet Controller	I	PLX82-MBTCP-PNC	4,404.00
Gateway Modbus TCP/IP To IEC 61850 Client 2 Port	I	PLX82-MNET-61850	6,411.00

8



PLX31-MBTCP-MBS



PLX82-MBTCP-PNC

ProSoft® DNP3 Gateways

The PLX51 DNP3 gateways provide intelligent routing between DNP3 (Distributed Network Protocol) and either EtherNet/IP™ or Modbus® protocols. The gateways support Ethernet and Serial communications.

- Supports DNP3 Secure v5
- Supports EtherNet/IP, Modbus Master and slave protocols (TCP/IP and RTU)
- Supports DLR for EtherNet/IP or a two port switch
- Stores 900 000 DNP3 Events
- MicroSD card for disaster recovery
- DNP3 traffic analyser to assist fault finding

Item Description	Item Type	Catalogue No.	\$AU
Gateway Ethernet IP or ModBus to DNP3 Slave		PLX51-DNP-S	2,225.00
Gateway Ethernet IP or ModBus to DNP3 Master	I	PLX51-DNP-M	3,599.00

ProSoft® DF1 Master/Slave Gateways

Item Description	Item Type	Catalogue No.	\$AU
Gateway DF1 Master/Slave to Ethernet/IP Messenger	I	PLX51-DF1-MSG	4,124.00
Router DF1 Master/Slave to Ethernet/IP		PLX51-DF1-ENI	4,204.00

ProSoft® HART Gateways

The PLX51-HART-4O allows users to easily connect their existing HART-compatible field devices to EtherNet/IP™, Modbus® TCP/IP, and DNP3 Ethernet networks.

The module can be used to connect HART Output devices such as valve positioners into an Ethernet network. The PLX51-HART-4O supports up to 4 channels of HART communication, as well as Analog 4-20 mA signals for real-time process variables to/from the HART-compatible device.

Item Description	Item Type	Catalogue No.	\$AU
4 Channel HART Output Module	I	PLX51-HART-4O	3,921.00
4 Channel HART Input Module	I	HDWD05539	4,118.00

ProSoft® Profibus Gateways

Item Description	Item Type	Catalogue No.	\$AU
Gateway Slim line EIP Profibus master gateway with DLR support	I	PLX51-PBM	2,359.00
Gateway Slim line EIP Profibus slave gateway with DLR support	I	PLX51-PBS	1,907.00



PLX51-PBM

ProSoft® Data Logger

The PLX51-DL-232 Data Logger is ideal for remote sites with limited communications that need to log data. OEMs can log their machine's data to identify operational problems or efficiency improvements. The PLX51-DL-232 can read and store data from EtherNet/IP PLCs, DF1 Serial PLCs and devices, or Modbus® PLCs and devices. The PLX51-DL-232 has the capacity to store over 16 million records in its solid-state non-volatile memory. Each stored record includes a Date Time stamp, Tag Name, Data Type, and Value.

- Data can be manually downloaded to a CSV file using the PLX50 Configuration Utility
- A built-in webserver provides detailed diagnostics of system configuration and operation
- Two logging modes: Data stored until memory is full or oldest data overwritten when memory full, first in, last out

Item Description	Item Type	Catalogue No.	\$AU
Prosoft Data Logger	I	PLX51-DL-232	2,503.00
Prosoft Data Logger Plus	I	PLX51-DLPLUS-232	4,461.00



PLX51-DL-232

Gateways

Aparian Gateways



- DNP3 Master or DNP3 Outstation operation in ControlLogix & CompactLogix Controllers
- DNP3 Outstation for Micro M850 Controller
- Direct-To-Tag mapping to Logix
- Supports 100,000 events per event group type
- Supports DNP3 Secure Authentication
- Supports Report-by-Exception (unsolicited responses)
- Formats complex DNP3 variants to Logix UDTs
- Easy implementation of all DNP3 Command functions

Aparian specialises in providing commercially-off-the-shelf (COTS) as well as end-to-end custom automation and control solutions for various industrial and commercial applications.
 Aparian provides additional communication modules. Contact NHP for further information.

Aparian Routers

Item Description	Item Type	Catalogue No.	\$AU
Aparian Router DeviceNet Module	I	A-DNTR	5,422.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Network Switching and Routing

Allen-Bradley Stratix Ethernet Switches

- Operate in temperature range of -40...60 °C, perfect for the toughest industrial applications
- Include predefined Logix tags provide premium diagnostics and allows for better network analysis
- Provide FactoryTalk View faceplates for status monitoring and alarming provides plant staff with all the information required to make informed decisions.
- Add-On Profiles provide premier integration into Rockwell's Integrated Architecture for quick configuration and deployment

For real-time control and information flow throughout the manufacturing and IT enterprise, Rockwell Automation offers a full portfolio of industrial Ethernet switches and media, featuring a line of managed switches integrated with Cisco technology. The portfolio contains many popular features that are in use today by IT and Controls organisations that deploy standard, unmodified Ethernet with settings optimised for use in EtherNet/IP applications.

Stratix® 2000 Unmanaged Ethernet Switches

Stratix 2000™ industrial-grade unmanaged Ethernet switches require no configuration, and are ideal for small, isolated networks.

- Expanded Operating Temperatures of -20 to 70 °C (-4 to 158 °F) and added gigabit copper ports to meet a wider variety of applications
- Compact design provides a low cost solution for your operating needs
- Simple "Plug and Play" configuration to easily install and use the device
- Other Stratix 2000™ variants are available. Please contact NHP for further information.

Stratix 2000 Switch (5-Port)

FE = Fast Ethernet

GE = Gigabit Ethernet

Total (ports)	Copper (ports)	Fibre (ports)	SFP (ports)	Item Type	Catalogue No.	\$AU
5	5	0	-		1783-US5T	205.07
5	4	1	1 FE multimode		1783-US4T1F	368.04
5	4	1	1 FE singlemode		1783-US4T1H	859.64



1783-US5T

Stratix 2000 Switch (8-Port)

FE = Fast Ethernet

GE = Gigabit Ethernet

Total (ports)	Copper (ports)	Fibre (ports)	SFP (ports)	Item Type	Catalogue No.	\$AU
8	8	0	-		1783-US8T	247.73
8	6	2	2 FE multimode		1783-US6T2F	737.41
8	7	1	1 FE multimode		1783-US7T1F	513.34



1783-US8T

Stratix 2000 Switch (16-Port)

FE = Fast Ethernet

GE = Gigabit Ethernet

Total (ports)	Copper (ports)	Fibre (ports)	SFP (ports)	Item Type	Catalogue No.	\$AU
16	16	0	-		1783-US16T	878.65



1783-US16T

FactoryTalk Network Manager

FactoryTalk® Network Manager software helps give you increased network visibility, real-time troubleshooting and simplified configuration and deployment.

Get insight into the performance of your network in context of your automation assets by leveraging information available via the Stratix® managed switch. It allows you to view your network topology and manage switch-level alarms as they happen for more improved decision-making.

Experience a new tool that helps you monitor the health of your network.

Available on the Rockwell Automation eCommerce Portal

- Generates an overall topology and a device-centric view of plant floor assets for increased network visibility
- Identifies plant floor assets using SNMP, PROFINET and CIP™ protocols for automatic inventory discovery
- Captures managed switch level alarms and events in real-time for more precise troubleshooting
- Provides historical data retention for analysis and more informed decision-making
- Offers configuration templates and plug and play support of Stratix managed switches for simplified deployment and maintenance

Visibility into the Performance of Network Operations



Get a Better View of What is Happening in Your Facility

FactoryTalk Network Manager software helps to achieve increased network visibility, easier troubleshooting, and simplified configuration and maintenance. Get insight into your network operations by getting a closer look at your devices connected in your manufacturing environment.

Increased Network Visibility

Ethernet networks have become a critical part in automation control systems where plant floor staff is often tasked with the network operations and maintenance. FactoryTalk Network Manager provides the information these control engineers need to achieve increased reliability and high performance of the network.



Easier Troubleshooting

Having the right tools that can collect diagnostic data from devices and generate reports that can be easily understood and analysed is becoming more critical in automation networks. FactoryTalk Network Manager consolidates network status in a single place, increasing insight and greatly simplifying troubleshooting in fault conditions.

Simple Configuration and Maintenance

FactoryTalk Network Manager can help you simplify network maintenance and support, increasing productivity and reducing downtime. This software provides easy to use tools to archive, compare and restore switch configurations and performs firmware upgrades from a centralized location allowing for efficient management of network devices.



E2301D14_dCHRT-SC

Item Description	Item Type	Catalogue No.	\$AU
FT Network Manager Standard 1YSUB 8X5 Support ELEC	S	9313C-NMMS01T11	78.02
FT Network Manager Standard 1YSUB 24X7 Support ELEC	S	9313C-NMMS01T12	98.31

Stratix® 2500 Lightly Managed Switches

The Stratix® 2500 Lightly Managed Switches enable network connectivity in applications where traditional unmanaged switches lack the ability to provide diagnostics and security. This connectivity helps you achieve higher productivity and network reliability.

- Offers 5 and 8 10/100 Mbps fast Ethernet copper port versions
- Allows for logical segmentation in a single switch, which reduces total number of switches needed
- Enables network link redundancy and fast link recover with STP
- Supports SNMP, alarm relay, and syslog allowing you to uncover errors before the network stops
- Secures networks using Port Security to disable ports, or control end device connectivity based on MAC address
- Provides secure connectivity with SSH and HTTPS

Item Description	Item Type	Catalogue No.	\$AU
Stratix 2500 Lightly Managed Switch 5x10/100BaseT		1783-LMS5	747.28
Stratix 2500 Lightly Managed Switch 8x10/100BaseT		1783-LMS8	1,200.60

Stratix® 5700 Managed Industrial Ethernet Switches

Rockwell Automation Stratix 5700™ Managed Industrial Ethernet Switches use the current Cisco® Catalyst® switch architecture and feature set. They are designed to meet your switching capability needs, from smaller applications to IT-ready integration with plant wide infrastructure. Configuration and monitoring tools are available for IT and manufacturing professionals, providing secure integration to the enterprise network, while allowing for easy setup and diagnostics from Rockwell Automation Integrated Architecture.

- Available in three base configurations: 6-, 10-, or 20-port, choose just the right switch for you application
- Provide dual power inputs, input and output alarms, console port, and as many as 4 fiber-ready SFP slots in each base
- Operate in temperature range of -40...60°C (-40...140°F), perfect for the toughest industrial applications
- Include predefined Logix tags provide premium diagnostics and allows for better network analysis
- Provide FactoryTalk View faceplates for status monitoring and alarming provides plant staff with all the information required to make informed decisions
- Add-On Profiles provide premier integration into Rockwell's Integrated Architecture for quick configuration and deployment
- "On-Machine" technology available rated IP67 for dust and wash-down protection – contact NHP for further information

6-Port

FE = Fast Ethernet

GE = Gigabit Ethernet

Copper (ports)	SFP (ports)	SW TYPE	IEEE-1588 (PTP / CIP Sync)	NAT / DLR (Y / N)	Item Type	Catalogue No.	\$AU
4 FE	2 FE	Lite	No / No	No / No		1783-BMS06SL	1,425.94
6 FE	0	Lite	No / No	No / No		1783-BMS06TL	1,425.94
4 FE	2 GE	Full	No / No	No / No		1783-BMS4S2SGA	2,159.28
		Full	/	/		1783-BMS06SA	1,792.62
		Full	No / No	No / No		1783-BMS06TA	1,779.03



1783-BMS06SL

10-Port

FE = Fast Ethernet

GE = Gigabit Ethernet

Copper (ports)	Combo (ports)	SFP (ports)	SW TYPE	IEEE-1588 (PTP / CIP Sync)	NAT / DLR (Y / N)	Item Type	Catalogue No.	\$AU
8 FE	2 FE	0	Lite	No / No	No / No		1783-BMS10CL	2,009.90
8 FE	2 FE	0	Full	No / No	No / No		1783-BMS10CA	2,580.27
8 FE	2 GE	0	Lite	No / No	No / No		1783-BMS10CGL	2,430.89
8 FE	2 GE	0	Full	No / No	No / No		1783-BMS10CGA	3,014.85
8 FE	2 GE	0	Full	Yes / Yes	No / Yes		1783-BMS10CGP	3,272.88
8 FE	2 GE	0	Full	Yes / Yes	Yes / Yes		1783-BMS10CGN	4,019.79



1783-BMS10CA

20-Port

FE = Fast Ethernet

GE = Gigabit Ethernet

Copper (ports)	Combo (ports)	SFP (ports)	SW TYPE	IEEE-1588 (PTP / CIP Sync)	NAT / DLR (Y / N)	Item Type	Catalogue No.	\$AU
16 FE	2 FE	2 FE	Lite	No / No	No / Yes		1783-BMS20CL	3,218.55
16 FE	2 FE	2 FE	Full	No / No	No / Yes		1783-BMS20CA	4,318.57
16 FE	2 GE	2 FE	Lite	No / No	No / Yes		1783-BMS20CGL	3,653.13
16 FE	2 GE	2 FE	Full	Yes / Yes	No / Yes		1783-BMS20CGP	4,902.53
16 FE	2 GE	2 FE	Full	Yes / Yes	Yes / Yes		1783-BMS20CGN	5,988.96



1783-BMS20CL

Stratix® 5400 Managed Industrial Ethernet Switches

The Stratix 5400™ Industrial Ethernet Managed Switches support layer 2 switching and layer 3 routing with additional Gigabit (GE) Power over Ethernet (PoE), and GE fiber ports. This switch can help increase network speed, and it can provide flexibility in the design of network architectures.

FE = Fast Ethernet

GE = Gigabit Ethernet

- Supports layer 2 access switching and layer 3 routing for flexibility to create multiple network configurations
- Offers an all-Gigabit (GE) platform for high performance network support
- Supports dual gig ring configurations for high performance network resiliency
- Uses Studio 5000® (formerly RSLogix™ 5000) Add-on Profiles (AOPs) to enable premier integration into the Rockwell Automation Integrated Architecture® system
- Includes embedded Cisco technology to help enable integration with the enterprise network
- Provides Integrated Network Address Translation (NAT) for 1:1 IP address mapping which helps to reduce commissioning time
- Other Stratix 5400™ variants are available. Please contact NHP for further information.

Total (ports)	Copper (ports)	Combo (ports)	SFP (ports)	PoE / PoE+ (ports)	Layer	Item Type	Catalogue No.	\$AU
12	8 FE	4 GE	0	0	2		1783-HMS8T4CGN	4,630.92
20	16 FE	4 GE	0	0	2		1783-HMS16T4CGN	6,192.67
20	16 GE	4 GE	0	0	2		1783-HMS16TG4CGN	9,805.06
12				0	2		1783-HMS8TG4CGN	6,613.66



1783-HMS8T4CGN

Stratix® 5410 Industrial Distribution Switches

Our Stratix 5410™ Industrial Distribution Switches offer a 19" rack mount design for increased port density. These switches offer four 10 Gigabit Ethernet (GE) ports and Network Address Translation (NAT) capabilities for networks where high performance is critical. The Stratix 5410 switches offer a rugged exterior design which makes them an ideal solution for applications with harsh environments.

- Offers an all Gigabit platform with four 10-Gigabit uplinks and 24-gigabit downlinks for high performance network requirements
- Provides access switching and distribution layer routing capabilities for flexibility in designing network architectures
- Supports multiple high performance network resiliency protocols
- Uses Studio 5000® (formerly RSLogix™ 5000) Add-on Profiles to enable premier integration into the Rockwell Automation Integrated Architecture® system
- Includes embedded Cisco® technology to help enable integration with the enterprise network

28 Port Switches

GE = Gigabit Ethernet

TEN = 10 Gigabit Ethernet



1783-IMS28GNAC

POE Copper Ports (ports)	SFP (ports)	Layer	IEEE-1588 (PTP / CIP Sync)	NAT (Y / N)	Supply	Item Type	Catalogue No.	\$AU
12 GE	16 GE	2	Yes / Yes	Yes	24-60V DC	I	1783-IMS28GNDC	15,617.47
12 GE	16 GE	2	Yes / Yes	Yes	100-240V AC / 100-250V DC	I	1783-IMS28GNAC	15,617.47
12 GE	16 GE	3	Yes / Yes	Yes	24-60V DC	I	1783-IMS28GRDC	18,740.96
12 GE	16 GE	3	Yes / Yes	Yes	100-240V AC / 100-250V DC	I	1783-IMS28GRAC	18,740.96
12 GE	12 GE + 4 TEN	2	Yes / Yes	Yes	24-60V DC	I	1783-IMS28NDC	23,086.69
12 GE	12 GE + 4 TEN	2	Yes / Yes	Yes	100-240V AC / 100-250V DC	I	1783-IMS28NAC	23,086.69
12 GE	12 GE + 4 TEN	3	Yes / Yes	Yes	24-60V DC	I	1783-IMS28RDC	26,345.99
12 GE	12 GE + 4 TEN	3	Yes / Yes	Yes	100-240V AC / 100-250V DC	I	1783-IMS28RAC	26,345.99

Additional Power Supplies



1783-IMXDC

Item Description	Item Type	Catalogue No.	\$AU
Stratix 5410 Power Supply AC/High DC		1783-IMXAC	1,095.94
Stratix 5410 Power Supply Low DC	I	1783-IMXDC	1,095.94

SFP Transceivers

Allen-Bradley supplies SFP (Small Form-factor Pluggable) Transceivers to be compatible with specific Stratix 8000™/8300™ and 5700™ Ethernet Switches. SFP are available in single and multi-mode versions and support both 1 GB and 100 MB.

- single and multimode SFP's available to cover your fibre requirements
- Duplex LC optical connector for quick on site fibre connections
- Compatible in Both Stratix 5700™ and 8000™ Series Switches



1783-SFP100FX

Item Description	Item Type	Catalogue No.	\$AU
Stratix Fiber SFP, 100 Mbit connectivity over multi-mode fiber		1783-SFP100FX	419.01
Stratix Fiber SFP, 100 Mbit connectivity over single-mode fiber		1783-SFP100LX	664.63
Stratix Fiber SFP, 1000 Mbit connectivity over multi-mode fiber		1783-SFP1GSX	832.59
Stratix Fiber SFP, 1000 Mbit connectivity over single-mode fiber		1783-SFP1GLX	1,656.16
Stratix Fiber SFP, 1 Gbit connectivity over single-mode LC fiber 40 meter cable	I	1783-SFP1GEXE	3,016.11
Stratix Fiber SFP, 1 Gbit connectivity over single-mode ZX fiber	I	1783-SFP1GZX	6,646.29

Stratix® 5950 Security Appliance

The Stratix® 5950 security appliance combines several enhanced security functions into a single appliance to help protect your industrial automation infrastructure. As part of our security offering, this product builds on common network security technologies. These technologies help provide enhanced access control, threat detection, and application visibility in your industrial control system (ICS).

- Includes enhanced security capabilities like deep packet inspection (DPI) technology, to help detect, prevent, and/or respond to potentially malicious traffic between devices
- Provides informed decision-making on the plant floor with Cisco ASA and FirePOWER technologies for threat detection and prevention capabilities based on configured security policies
- Offers a subscription license that provides a term-based solution for threat and application control updates with TechConnectSM support
- Provides an industrially-hardened, DIN-rail mountable platform to meet the environmental demands of the plant floor

Security Appliance

Ports (Copper / SFP)	ASA (with Fire- POWER)	SSL (VPN / Client- less)	IPSec	K9	3DES / AES (support)	Item Type	Catalogue No.	\$AU
4 (Gb) / 0	Yes			Yes	Yes / Yes	I	1783-SAD4T0SBK9	6,250.10
2 (Gb) / 2	Yes			Yes	Yes / Yes	I	1783-SAD2T2SBK9	7,355.48
4 (Gb) / 0	Yes	Yes / Yes	Yes	Yes	Yes / Yes	I	1783-SAD4T0SPK9	7,355.48
2 (Gb) / 2	Yes	Yes / Yes	Yes	Yes	Yes / Yes	I	1783-SAD2T2SPK9	8,488.14

EtherNet/IP Taps (ETAP) Devices

The Embedded Switch Technology embeds Ethernet switch features into your hardware to support high performance applications. For single port devices to connect to a ring or linear topology use a 1783-ETAP.

- Enables greater topology configuration choices for EtherNet/IP applications, such as linear and device-level ring (DLR)
- Allows for a high-performance ring capability (make/break < 3 ms), complete with diagnostics and fast recovery to lower downtime
- Supports IEEE 1588 precision time protocol (PTP) for precise time synchronization and Quality of Service (QoS) to help prioritize data transmission
- Includes open standard technology which is available to 3rd party vendors and allows EtherNet/IP interoperability

Item Description	Item Type	Catalogue No.	\$AU
EtherNet/IP Tap3 Copper Ports		1783-ETAP	648.62
EtherNet/IP Tap2 Copper Ports, 1 Fiber Port		1783-ETAP1F	974.51
EtherNet/IP Tap1 Copper Port, 2 Fiber Ports		1783-ETAP2F	1,192.32



1783-ETAP1F

Network Address Translation (NAT) Devices

Our Network Address Translation (NAT) Devices help you to configure multiple machines on a single line to have identical network settings, allowing easy remote support through VPN connection. The NAT Devices adapt your machines to specific network configurations without requiring complicated, costly, and time-consuming changes. As a result, your control systems with identical settings communicate over Ethernet networks without reconfiguring settings.

- Use simple 1:1 Network Address Translation (NAT) to map IP addresses on the machine subnet to IP addresses on the control network (support for up to 32 translation mappings)
- Support both Linear and Device Level Ring (DLR) topologies on the machine network
- Configurable via web page or Electronic Data Sheet (EDS) Add-on Profile (AOP)
- Provide simplified device backup and restore via SD card storing configuration
- Enable redirection of selected protocols, such as CIP, ICMP, HTTP, DNS for stable network connection

Item Description	Item Type	Catalogue No.	\$AU
Network Address Translator DLR		1783-NATR	1,812.30



1783-NATR

Network Switching and Routing

ProSoft® Radio Network



- Up to 300Mbps RF data rate at up to 48km with line-of-sight (LOS)
- SmartSwitch technology provides true peer-to-peer connectivity and optimizes performance
- Serial device support via serial-to-serial tunneling or serial TCP/UDP encapsulation
- Longer wavelength of unlicensed 900MHz for superior wireless signal propagation
- Industrial hotspot supporting IEEE 802.11a,b,g,n
- Up to one watt transmit power for long distance
- Metal enclosure, industrial operating temperatures, vibration and shock resistant
- Proprietary frequency hopping algorithms (not detectable by Wi-Fi scanners)
- 128bit AES encryption
- Graphical representation of network for configuration and diagnostics
- Advanced diagnostics including temperature and signal quality
- Includes OPC Server for HMI-based RF network diagnostics

ProSoft® Technology offers a complete range of telemetry application solutions. Whatever your wireless network designs may be, ProSoft® Technology provides a full line of industrial wireless products and accessories. Experience market leading frequency hopping, industrial hotspot radios and intelligent cellular communications.

ProSoft® Industrial Radios

ProSoft® Technology provides the right wireless product to solve communications requirements. Industrial Hotspots create a wireless infrastructure for industrial device and mobile worker connectivity or enable long-range, high speed Ethernet SCADA. For long range and tough paths, ProSoft® offers 900MHz and 2.4GHz Industrial Frequency Hopping radios over Ethernet networks.

ProSoft® Industrial Hotspot Radios

The ProSoft® Industrial Hotspot is a cost-effective industrial-grade wireless Ethernet solution with Power over Ethernet (PoE) and Serial Encapsulation. Designed for global installations, the Prosoft Industrial Hotspot offers robust Industrial features including Fast Roaming, Personality Module (microSD card included) for quick field replacement, IGMP Snooping, repeater mode for extending distance, remote management software, OPC server diagnostics, extended temperature range, high vibration/shock resistance, and DIN-rail mounting.

- Single unit repeater functionality
- Powerful transmitter with amplifier option for long range outdoor applications
- Redundant master radios
- WPA encryption, 802.1x and MAC ID authentication
- Built-in web server for browser-based configuration and remote diagnostics
- Fast data throughput
- Compatible with any device that supports EtherNet/IP, Modbus TCP/IP, or any 802.3 compliant Ethernet protocol



RLX2-IHNF-A

Item Description	Item Type	Catalogue No.	\$AU
Radio Industrial Hotspot 802.11g High Power Ext Temp W/ 2dBi Stub 2.4 GHz Antenna	I	RLX2-IHG-A	2,972.00
Radio Industrial Hotspot 802.11a High Power Ext Temp W/2dBi Stub 5 GHz Antenna	I	RLX2-IHA-A	3,217.00
Radio Industrial Hotspot 802.11abgn Fast W/ 2dBi Stub Antenna		RLX2-IHNF-A	3,767.00

ProSoft® Radio Antenna

ProSoft® offers various types of antenna including omni-directional, panel directional, yagi and parabolic antennae. All antennae have been tested for compatibility with RadioLinX products. Other antennae variants are available. Please contact NHP for further information.

2.4GHz Antennas

Item Description	Item Type	Catalogue No.	\$AU
Antenna Patch Panel 19dBi N Jack W/ Mount Hw 2.4GHz	I	A2419NJ-DP	366.00
Antenna Omni 6 dBi N Jack Collinear With Mounting Hardware 2.4Ghz, Black	I	A2406NJ-OC-B	487.00
Antenna Directional 15 dBi N Jack Yagi With Mounting Hardware 2.4Ghz	I	A2415NJ-DY	541.00

2.4GHz/5GHz Multi-Band Antennas

Item Description	Item Type	Catalogue No.	\$AU
Antenna Omni 2dBi Articulating 2.4/5 GHz	I	A2502S-OA	67.00
Antenna Omni 6/8dBi N Jack Collinear W/ Mount Hardware 2.4/5GHz	I	A2506NJ-OC	341.00
Antenna Omni 7dBi Directional Panel 2.4/5GHz	I	A2507NP-DP	463.00



A2506NJ-OC

5GHz Antennas

Item Description	Item Type	Catalogue No.	\$AU
Antenna Directional 19dBi N Jack Panel W/ Mount Hardware 5GHz	I	A5019NJ-DP	280.00
Antenna Directional 17dBi N Jack Panel W/ Mount Hardware 5GHz		A5017NJ3-DP	949.00



A5019NJ-DP

802.11n MIMO Antennas

Item Description	Item Type	Catalogue No.	\$AU
ANTENNA OMNI MIMO 4dBi W/ 15 FT PIGTAIL 2.4/5GHz	I	A250453-O	823.00
Antenna MIMO Panel 12dBi 2.4/5 GHz		A2512NJ3-DP	1,201.00
Antenna Omni MIMO Single 6dBi N Jack W/ 3 ft Pigtail 2.4/5GHz		A2506NJ3-O	1,320.00



A2506NJ3-O

ProSoft® Radio Cables

The ProSoft® LMR 195, 400 and 600 cables are designed to provide the lowest attenuation and are pre-cut and assembled with connectors at the factory to ensure ultimate reliability and customer satisfaction.

Series LMR 195

LMR 195 Type Cables are ideal for jumper assemblies in wireless communication systems and short antenna feed runs. With a 0.5" minimum bend radius, the LMR195 cable is substantially more flexible than RG142 and very comparable to RG58.

- **Flexible:** With a 0.5-inch minimum bend radius, the LMR-195 cable is substantially more flexible than RG-142 and very comparable to RG-58. The LMR 195 cable affords lower loss, greater shielding, and lower cost.
- **Low Loss:** LMR 195 boasts lower loss than other RG58/RG142 type cables. This is achieved through the use of a high velocity gas-injected closed cell foam dielectric, and bonded aluminium tape outer conductor.
- **Weatherproof:** The UV-protected black polyethylene jacket makes the cables rugged and resistant to the full range of outdoor environments. Various jacket materials are available to address other indoor and outdoor requirements.
- **RF Shielding:** The bonded aluminium tape outer conductor is overlapped to provide 100% coverage, resulting in >90dB RF shielding (>180dB crosstalk) and excellent interference immunity (ingress and egress); a substantial improvement from RG58's 40dB and RG142's 60dB performance level
- **Phase Stability:** The intimately bonded structure and foam dielectric of LMR cables provide excellent phase stability over temperature and with bending. The high velocity dielectric results in superior phase stability as compared with RG58 and RG142 solid dielectric cables.
- Other LMR 195 cables variants are available. Please contact NHP for further information.

Conversion Cables, RP-SMA Plug to N Jack

Item Description	Item Type	Catalogue No.	\$AU
Cable 2 ft LMRA 195 RA RP-SMA To N Plug		C19M10-80-002	106.00
Cable 5ft LMRA 195 RA RP-SMA To N Jack	I	C19M10-80-005	120.00

Conversion Cables, RP-SMA Plug to N Plug

Item Description	Item Type	Catalogue No.	\$AU
Cable 2 ft LMRA 195 RA RP-SMA To N Plug		C19M10-40-002	107.00
Cable 5 ft LMRA 195 RA RP-SMA To N Plug		C19M10-40-005	120.00
Cable 20 ft LMRA 195 RA RP-SMA To N Plug	I	C19M10-40-020	174.00



C19M10-40-002

Series LMR 400

LMR 400 Type Cables are ideal for jumper assemblies in wireless communication systems and antenna feed runs less than one hundred feet. With a 1 inch minimum bend radius, LMR 400 cable can be easily routed into and through tight spaces without kinking.

- **Flexible:** With a 1 inch minimum bend radius, LMR 400 cable can be easily routed into and through tight spaces without kinking
- **Low Loss:** LMR 400 has the lowest loss of any RG8 / RG13 type cable. This is achieved through the use of a high velocity gas-injected closed cell foam dielectric, and bonded aluminium tape outer conductor
- **Weatherproof:** The UV protected black polyethylene jacket makes the cable rugged and resistant to the full range of outdoor environments. The DB version of the cable includes a water blocking material within the braid to protect the cable from moisture ingress and eliminates any potential for corrosion in harsh environments or should the jacket become damaged
- **RF Shielding:** The bonded aluminium tape outer conductor is overlapped to provide 100% coverage, resulting in >90dB RF shielding (>180dB crosstalk) and excellent interference immunity (ingress and egress)
- **Phase Stability:** The intimately bonded structure and foam dielectric of LMR cables provide excellent phase stability over temperature and with bending. The high velocity dielectric results in superior phase stability as compared with solid and air-spaced dielectric cables
- Other LMR 400 cables variants are available. Please contact NHP for further information

Item Description	Item Type	Catalogue No.	\$AU
Cable 5 ft LMRA 400 N Plug To N Plug		C40M40-40-005	147.00
Cable 10 ft LMRA 400 N Plug To N Plug		C40M40-40-010	163.00
Cable 15 ft LMRA 400 N Plug To N Plug		C40M40-40-015	190.00
Cable 20 ft LMRA 400 N Plug To N Plug		C40M40-40-020	200.00
CABLE 25 FT LMRA 400 N PLUG TO N PLUG	I	C40M40-40-025	228.00

ProSoft® Lightning Protectors

The ProSoft® Lightning Protection LP series is designed to provide direct current (DC) voltage-blocking lightning protection for 900 MHz, 2.4 GHz and 5 GHz wireless systems.

- LP-24002 lightning protection is designed for use inside an enclosure with the bulkhead fitting protruding through the enclosure. The connectors are standard N jack connector to standard N jack BH connector. The bulkhead fitting can be connected to any standard N type connector extension cable.
- LP-24003 lightning protection is designed for use inside an enclosure with the bulkhead fitting protruding through the enclosure and connecting to a N plug barrel adapter. This can then connect to any antenna with a standard N type connector.

Item Description	Item Type	Catalogue No.	\$AU
Lightning Protector N Jack To N Bulkhead	I	LP-24002	251.00
Lightning Protector Weather Proof N Jack To N BH Jack		LP-25001	440.00



LP-25001

ProSoft® Power Over Ethernet Kits

The ProSoft® Power over Ethernet (PoE) Kit is made up of an advanced Injector / Splitter. The Injector is auto-ranging on the input and has a regulated voltage output. The PoE Kit has overload and short circuit protection in addition to Ethernet surge suppression built-in, which will shut down power immediately when a short circuit is detected without any damage to the equipment. The PoE Kit is not a proprietary unit and will function with any equipment which is compliant with the IEEE 802.3af PoE standards.

Item Description	Item Type	Catalogue No.	\$AU
Injector Power over Ethernet (PoE) AC	I	POE-48I-AC	194.00
Injector Power over Ethernet (PoE) 9 TO 36 VDC Input Voltage		POE-48I-DC-DC	194.00

ProSoft® Power Divider

The ProSoft® Power Divider range is weather-proof and can be installed indoors or outdoors. The power dividers can be used with amplified systems to pass DC power to all ports.

Item Description	Item Type	Catalogue No.	\$AU
2-Way Power Divider 2.4Ghz, N Jack	I	PD24-2	291.00



PD24-2

ProSoft® Radios Miscellaneous

Item Description	Item Type	Catalogue No.	\$AU
Adapter N Jack -N Jack (Use To Joint Cables (4))	I	RLX-AD50-50	52.00
Prosoft Adapter N Jack To TNC Plug	I	RLX-AD50-90	64.00
ProSoft Adapter N Plug to N Plug	I	RLX-AD40-40	66.00
ProSoft Adapter SMA Plug to N Plug	I	RLX-AD50-22	66.00
RF Connector Weather Proofing Kit		RLX-WPK001	128.00

Network Media

Allen-Bradley Ethernet Media

- 600V PVC Cable is designed to support high-voltage applications
- On-Machine™ rated cable for use in a cable tray shared with high-voltage power cables
- Field attachable connectors available for quick and simple installations
- On-Machine™ (M12 and Variant 1) cables are IP67 rated and come in high flex variants to provides better performance in applications with noise and vibration
- Red cable jackets are available to identify safety applications

Complete industrial Ethernet cabling solution that provides seamless connectivity for your Integrated Architecture and components. From raw cable and field-attachable connectors to RJ45 and M12 patchcords, Ethernet media solutions enhance flexibility while ensuring network integrity and performance.



Ethernet RJ45 Media

Patchcords

Connector A (type)	Connector B (type)	Conductor (qty)	Cable (type)	Cable Jacket (material, colour)	Cable (m)	Item Type	Catalogue No.	\$AU
RJ45 Connector, Straight Through, Male	RJ45 Connector, Straight Through, Male	8	Patchcord	TPE (Thermoplastic Elastomer), Teal	1		1585J-M8TBJM-1	57.52
RJ45 Connector, Straight Through, Male	RJ45 Connector, Straight Through, Male	4	Patchcord	TPE (Thermoplastic Elastomer), Teal	2		1585J-M4TBJM-2	64.93
RJ45 Connector, Straight Through, Male	RJ45 Connector, Straight Through, Male	8	Patchcord	TPE High Flex, Teal	2		1585J-M8TBJM-2	65.43
RJ45 Connector, Straight Through, Male	RJ45 Connector, Straight Through, Male	8	Patchcord	PVC riser, Teal	2		1585J-M8CBJM-2	68.88
RJ45 Connector, Straight Through, Male	RJ45 Connector, Straight Through, Male	8	Patchcord	PVC 600V, Teal	2		1585J-M8HBJM-2	84.64
RJ45 Connector, Straight Through, Male	RJ45 Connector, Straight Through, Male	4	Patchcord	TPE (Thermoplastic Elastomer), Teal	5		1585J-M4TBJM-5	87.92
RJ45 Connector, Straight Through, Male	RJ45 Connector, Straight Through, Male	8	Patchcord	TPE (Thermoplastic Elastomer), Teal	5		1585J-M8TBJM-5	89.15



1585J-M8TBJM-1

8

Cordsets

Connector A (type)	Connector B (type)	Conductor (qty)	Cable (type)	Cable Jacket (material, colour)	Cable (m)	Item Type	Catalogue No.	\$AU
RJ45 Connector, Straight Through, Male	Flying leads (no connector)	4	Cordset	TPE (Thermoplastic Elastomer), Teal	2	I	1585J-M4TB-2	40.56

Connectors

Connector (type)	Item Type	Catalogue No.	\$AU
RJ45 Connector		1585J-M8CC-H	60.78



1585J-M8CC-H

Ethernet M12 Media

Patchcords



1585D-M4TBJM-2

Connector A (type)	Connector B (type)	#Conductors (qty)	Cable (type)	Cable Jacket (material, colour)	Cable (m)	Item Type	Catalogue No.	\$AU
M12 x 1, DC Micro, 4-pin, Straight Through, Male	RJ45 Connector, Straight Through, Male	4	Patchcord	TPE (Thermoplastic Elastomer), Teal	2		1585D-M4TBJM-2	101.38
M12 x 1, DC Micro, 4-pin, Straight Through, Male	RJ45 Connector, Straight Through, Male	4	Patchcord	TPE (Thermoplastic Elastomer), Teal	5		1585D-M4TBJM-5	124.36
M12 x 1, DC Micro, 4-pin, Straight Through, Male	M12 x 1, DC Micro, 4-pin, Straight Through, Male	4	Patchcord	TPE (Thermoplastic Elastomer), Teal	10		1585D-M4TBDM-10	152.33

Connectors



1585D-M4DC-SH

Connector (type)	#Pins	Material	ØCable (mm, min - max)	Item Type	Catalogue No.	\$AU
M12 x 1, DC Micro, 4-pin, Straight Through, Male	4	Zinc, Die-Cast	5.5 - 7.2		1585D-M4DC-SH	93.62

Ethernet M12 Media



1585A-DD4JD

Item Description	Item Type	Catalogue No.	\$AU
Female M12 Receptacle IP20 to RJ45 Female Adaptor IP67, Right Angled		1585A-DD4JD	94.31

Micro Operator Panels

Allen-Bradley® PanelView™ 800 Graphic Terminals

- Optimized for compatibility with Micro800® and MicroLogix™ controllers
- Includes high-resolution display with LED backlight supporting 65K colours
- Offers flexible application modes in landscape and portrait
- Includes high performance 800MHz processor with 128MB / 256MB memory
- Includes USB host port and microSD™ support file transfer or updating firmware
- Alerts operators with alarm messages that include embedded variables
- Provides ability to upload and download groups of data or parameter settings with recipe capability

The new 2711R PanelView™ 800 series Graphic Terminals are panel-mount display devices offering keypad or touch screen options for operator input. These graphic terminals are available in 4...10 in. display sizes. They include 800 MHz CPU processors, high-resolution displays with LED backlight supporting 65K colors, and high flash memory and dynamic memory. The built-in Ethernet and serial communication ports support a variety of networks.



Terminals

Item Description	Item Type	Catalogue No.	\$AU
PanelView 800 4.3 inch HMI, Touch Screen Serial and Ethernet ports		2711R-T4T	659.81
PanelView 800 7 inch HMI, Touch Screen Serial and Ethernet ports		2711R-T7T	1,264.77
PanelView 800 10.4 inch HMI, Touch Screen Serial and Ethernet ports		2711R-T10T	3,038.81



2711R-T4T

Accessories

Mounting Accessories

Item Description	Item Type	Catalogue No.	\$AU
Adapter Plate Kit, PanelView Component 6 inch to PanelView 800 7 inch		2711R-APK7	228.32
Adapter Plate Kit, PanelView Component 10 inch to PanelView 800 10 inch	I	2711R-APK10	273.69

Operator Panels

Allen-Bradley PanelView 5000



- Offers display sizes from 7...19 in. with wide screen, touch, and keypad options
- Logix-based alarms are automatically available on the PanelView™ 5510 – removing additional configuration needs
- High-speed HMI buttons provide quick response and feedback for machine jogging applications
- Logix tag extended property support to help develop richer context
- Features a modern design with a slim, aluminium bezel
- Intuitive navigation menu reduces configuration time and provides navigation button display alarms, diagnostic, and setting information
- Scalable vector graphics automatically adjust objects and screens to any terminal size
- Advanced graphic animation capabilities provide a more efficient design without the need for complicated programmatic development
- Provides ability to automatically share tags, alarms, and other data using Studio 5000 View Designer™
- Power Supply: 24V DC nominal (18...30V DC)

The PanelView™ 5000 Graphic Terminals offer an intuitive, modern design and provides enhanced Logix integration using Studio 5000 View Designer™ software. This integration allows engineers to enter configuration information once and use it for the entire automation design. It also helps you build modern applications with high-speed HMI buttons for jogging applications, scalable vector graphics, and a pre-configured system banner that provides diagnostic information.

Product Selection

To help you optimise productivity, Rockwell Automation has expanded its portfolio with the PanelView™ 5310 and PanelView™ 5510 operator interface and Studio 5000 View Designer™ which is included as part of the Studio 5000® Automation Engineering and Design Environment, allowing engineers to enter configuration information only once and leverage it across the entire automation design system. The PanelView™ 5310 and PanelView™ 5510 uses the Studio 5000 View Designer™ environment to build modern applications more easily and make data-driven decisions faster.

Allen-Bradley PanelView 5310



2713P-T6CD1

Display Size (Inch)	Display Resolution (Pixels)	Widescreen (Yes/No)	Operator Input Method(s)	Item Type	Catalogue No.	\$AU
5.7	640x480	No	Touch	I	2713P-T6CD1	2,089.87
7	800x480	Yes	Touch	I	2713P-T7WD1	2,474.85
9	800x480	Yes	Touch	I	2713P-T9WD1	3,996.43
10.4	800x600	No	Touch	I	2713P-T10CD1	4,179.74
12.1	1280x800	Yes	Touch	I	2713P-T12WD1	5,609.65

Allen-Bradley PanelView 5510



2715P-B7CD

Display Size (Inch)	Display Resolution (Pixels)	Widescreen (Yes/No)	Operator Input Method(s)	Item Type	Catalogue No.	\$AU
7	800x480	Yes	Touch	I	2715P-T7WD	3,134.81
6.5	640x480	No	Touch	I	2715P-T7CD	3,299.80
6.5	640x480	No	Touch/Keypad	I	2715P-B7CD	3,776.44
9	800x480	Yes	Touch	I	2715P-T9WD	5,389.67
10.4	800x600	No	Touch	I	2715P-T10CD	5,994.62
10.4	800x600	No	Touch/Keypad	I	2715P-B10CD	6,434.60
12.1	1200x800	Yes	Touch	I	2715P-T12WD	7,497.85
15	1024x768	No	Touch	I	2715P-T15CD	9,001.10
15	1024x768	No	Touch/Keypad	I	2715P-B15CD	9,441.08
19	1280x1024	No	Touch	I	2715P-T19CD	10,339.35

Operator Panels

PanelView™ Plus 7 Graphic Terminals

- Uses Windows CE 6.0 standard features and colour TFT LCD, 18-bit colour graphics
- Monitors applications from a remote location with VNC connectivity
- Uses an SD card to copy and restore the operator interface quickly
- Includes email and texting notification capabilities

The PanelView™ Plus 7 operator interfaces form a comprehensive portfolio, with standard and performance models that provide operators at the machine level a view into the control system. The use of FactoryTalk® View Machine Edition helps simplify configuration and strengthen your Integrated Architecture solution. The operator terminals are ideal for applications that require monitoring, controlling and displaying information in dynamic ways, where operators must quickly understand machine status and make better decisions. The PanelView Plus 7 terminals are available in a variety of display sizes, including widescreen, enabling you to select exactly what is required for your application.



PanelView™ Plus 7 Standard Terminals

With sizes ranging from 4" to 15", the PanelView Plus 7 Standard terminals provide basic features, ideal for small and mid-size machine applications. Features of the standard terminals include connectivity to one controller, up to 25 screens and 200 alarm messages.

- Offers display sizes from 4 to 15" with wide screen and keypad options
- Offers one controller and up to 25 displays and 200 alarm messages
- Offers Ethernet 1 x RJ45 10/100 Mb Auto-MDI/MDI-X with IEEE 1588 support
- Features single or DLR Ethernet ports for network connectivity

Item Description	Item Type	Catalogue No.	\$AU
PanelView Plus 7 Standard, Touch, 4 inch Widescreen, Dual Port Ethernet, 24V DC		2711P-T4W22D8S	1,584.38
PanelView Plus 7 Standard, Touch, 6 inch, Ethernet, 24V DC		2711P-T6C21D8S	2,757.93
PanelView Plus 7 Standard, Touch, 6 inch, Dual Port Ethernet, 24V DC		2711P-T6C22D8S	2,965.37
PanelView Plus 7 Standard, Touch, 7 inch, Ethernet, 24V DC		2711P-T7C21D8S	3,235.86
PanelView Plus 7 Standard, Touch, 7 inch, Dual Port Ethernet, 24V DC		2711P-T7C22D8S	3,441.28
PanelView Plus 7 Standard, Touch, 9 inch Widescreen, Dual Port Ethernet, 24V DC		2711P-T9W21D8S	5,227.01
PanelView Plus 7 Standard, Touch, 9 inch, Widescreen, Dual Port Ethernet, 24V DC		2711P-T9W22D8S	5,434.48
PanelView Plus 7 Standard, Touch, 10 inch, Ethernet 24V DC		2711P-T10C21D8S	5,501.59
PanelView Plus 7 Standard, Touch, 10 inch, Dual Port Ethernet, 24V DC	I	2711P-T10C22D8S	5,707.00
PanelView Plus 7 Standard, Touch, 12 inch Widescreen, Ethernet 24V DC		2711P-T12W21D8S	7,352.40
PanelView Plus 7 Standard, Touch, 12 inch Widescreen, Dual Port Ethernet, 24V DC		2711P-T12W22D8S	7,559.84
PanelView Plus 7 Standard, Touch, 15 inch Widescreen, Ethernet, 24V DC		2711P-T15C21D8S	8,822.86
PanelView Plus 7 Standard, Touch, 15 inch Widescreen, Dual Port Ethernet, 24V DC	I	2711P-T15C22D8S	9,028.29



2711P-T9W21D8S

8

PanelView™ Plus 7 Performance Terminals

Offered in six sizes from 7" to 19", the PanelView Plus 7 Performance is designed for all applications, ranging from small to large, complex machines. These premier terminals include high performing processors, increased memory options and embedded Ethernet ports that support device-level ring (DLR), linear, or star network topologies. Additionally, the PanelView Plus 7 Performance models include enhanced features including an RDP client that creates a thin client terminal and web browser active functionality to embed HTML pages inside the application. Additional features include 1GB RAM and 512MB storage and video playback support which provides advanced user help capabilities.

- Offers display sizes from 7 to 19" with wide screen and keypad options
- Includes video playback support which provides advanced user help capabilities
- Includes RDP client feature to create thin client terminals
- Features Ethernet ports that support DLR, linear, or star network topologies

Item Description	Item Type	Catalogue No.	\$AU
PanelView Plus 7 Performance, Touch, 7 inch, Dual Port Ethernet, 24V DC		2711P-T7C22D9P	4,620.93
PanelView Plus 7 Performance, Keypad/Touch, 7 inch, Dual Port Ethernet, 24V DC		2711P-B7C22D9P	5,778.19
PanelView Plus 7 Performance, Touch, 9 inch Widescreen, Dual Port Ethernet, 24V DC	I	2711P-T9W22D9P	7,596.47
PanelView Plus 7 Performance, Touch, 10 inch, Dual Port Ethernet, 24V DC		2711P-T10C22D9P	8,442.55
PanelView Plus 7 Performance, Touch, 12 inch Widescreen, Dual Port Ethernet, 24V DC		2711P-T12W22D9P	10,551.66
PanelView Plus 7 Performance, Touch, 15 inch, Dual Port Ethernet, 24V DC		2711P-T15C22D9P	12,660.77
PanelView Plus 7 Performance, Touch, 19 inch, Dual Port Ethernet, 24V DC	I	2711P-T19C22D9P	14,560.39



2711P-T15C22D9P

PanelView™ Plus Accessories and Spares

PanelView™ Plus Terminals Power Supply and Terminal Blocks

Item Description	Item Type	Catalogue No.	\$AU
PanelView Plus 7 Performance / PanelView 5500 3-pin DC Power Terminal Block (Pack of 10)	I	2711P-RTBDSP	73.10

Antiglare Overlays for PanelView™ Plus Terminals

Quantity: 3 per pack.



2711P-RGT9SP

Item Description	Item Type	Catalogue No.	\$AU
PanelView Plus 7 Performance / PanelView 5500 Protective Overlay 6.5 inch Touch Screen (Pack of 3)		2711P-RGT7SP	246.69
PanelView Plus 7 Performance / PanelView 5500 Protective Overlay 9 inch Wide Touch Screen (Pack of 3)	I	2711P-RGT9SP	283.22
PanelView Plus 7 Performance / PanelView 5500 Protective Overlay 10 inch Touch Screen (Pack of 3)	I	2711P-RGT10SP	303.33

PanelView™ Plus Mounting Hardware

Item Description	Item Type	Catalogue No.	\$AU
PanelView Plus 7 Performance / PanelView 5500 Mounting Levers (Pack of 16)	I	2711P-RMCP	142.53

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Operator Panels

RFIDEAS HMI Accessories

- Improves organizational workflow
- Eliminates errors associated with individual identification
- Eliminates manual entry to streamline process steps
- Customizable to work with any card solution for any size corporation
- Protect and secure sensitive information
- Meets various industry compliance requirements (when used with appropriate application solution)
- Instant adaptability due to employee familiarity with existing badges
- Supports nearly all card type technologies worldwide
- Enhances investment of single badges
- Expands application selections



RF IDEAS pcProx Plus is a dual frequency programmable card reader that provides the advantages of reading both proximity and contactless smart cards in one reader. This reader allows users to leverage their employee ID badges, or any 125 kHz or 13.56 MHz tags or labels, for other forms of secure authentication and identification throughout the workplace.

RFIDEAS HMI Accessories

Item Description	Item Type	Catalogue No.	\$AU
IP67 Kit for Panel Mount Reader	I	KT-IP67	140.00
pcProx Sonar USB Presense Detector	I	BSE-PCPRX-SNR	193.00
pcProx Plus 82 Series V2 Black USB Virtual COM Reader	I	RDR-80582AK0	331.00
pcProx Plus 82 Series V2 Surface Mount Black USB Reader	I	RDR-805W2AKU	331.00
pcProx Plus Reader; Desktop; Black; USB; Rockwell Automation	I	RDR-80581AKU-RA	575.00
pcProx Plus Reader; Panel Mount; Black; USB; Rockwell Automation	I	RDR-805W1AKU-RA	575.00
pcProx Plus Reader; Panel Mount; Gray; USB; Rockwell Automation	I	RDR-805W1AGU-RA	652.00
pcProx Plus Reader; Panel Mount; Gray; USB; IP67; Rockwell Automation	I	KT-805W1AGU-RA-IP67	740.00
pcProx Plus Reader; Panel Mount; Black; USB; IP67; Rockwell Automation	I	KT-805W1AKU-RA-IP67	740.00
Desktop; Ethernet Industrial Protocol; Black	I	RDR-80581AKB-P	1,099.00
Panel Mount; Ethernet Industrial Protocol; Black	I	RDR-805W1AKB-P	1,099.00
pcProx Plus Enroll w/ iCLASS ID Surface Mount Black Ethernet POE Reader	I	RDR-800W1AKE-P	1,116.00
pcProx Plus Enroll w/ iCLASS ID Black EtherNet/IP POE Reader	I	RDR-80081AKB-P	1,150.00
Panel Mount; Ethernet Industrial Protocol; Black; IP67 Rated	I	KT-805W1AKB-P-IP67	1,266.00

Operator Panels

Spectrum Controls InView Industrial Message Displays



- Preferred compatibility to Rockwell Automation controllers and networks, including EtherNet/IP, ControlNet and DeviceNet
- Fully licensed Rockwell Automation technology, with TechConnect support included with your purchase
- Proven display technology with red or tri-color messages visible up to 137m away, depending on model
- Dynamic messaging, with the use of variables, for real-time information

Spectrum Controls InView displays are used to convey real-time information on factory floors or other industrial environments, with messages viewable up to 137m away, depending on the model. InView message displays are available in a variety of sizes and offer varying display lines, character sizes, message colours, fonts and messaging effects. The displays can be integrated with existing communication networks including EtherNet/IP, ControlNet and DeviceNet. Messages can be triggered via programmable logic controllers and programmable automation controllers.

InView Marquee Display

Item Description	Item Type	Catalogue No.	\$AU
InView Message Display Red Led 2 Line Display		2706-P22RSC	2,131.00
InVew 1 to 2 Line Red LED Display 12 to 20 Characters	I	2706-P42RSC	6,959.00
InVew 1 to 2 Line Tricolour LED Display 12 to 20 Characters	I	2706-P42CSC	8,529.00
InVew 1 to 4 Line Tricolour LED Display 12 to 20 Characters	I	2706-P72CN2SC	11,606.00
InVew 1 to 2 Line Red LED Display 24 to 40 Characters	I	2706-P44RSC	11,872.00
InVew 1 to 2 Line Tricolour LED Display 24 to 40 Characters	I	2706-P44CSC	14,258.00
InVew 1 to 4 Line Tricolour LED Display 20 to 40 Characters SST Enclosure	I	2706-P72CN1SC	15,824.00
InVew 1 to 4 Line Tricolour LED Display 20 to 40 Characters	I	2706-P74CN1SC	22,936.00

InView Communications Modules

Item Description	Item Type	Catalogue No.	\$AU
InView Module EtherNet/IP For 2706P22R 24V DC Din Rail Mount	I	2706-PENETP2-SC	2,404.00

InView Accessories

Item Description	Item Type	Catalogue No.	\$AU
InView Program/Download Cable	I	2706-PCABLE1SC	242.00
InView RS-232 Operating Cable, 9-pin D Shell, 3m (10ft)	I	2706-NC13SC	389.00

Pricing in this document is invalid – for pricing and availability please access the NHP Industrial User Account

Industrial Computers

Allen-Bradley® Industrial Computers

- Industrial Environment Computers offer solutions for the physical limitations and requirements of your environment.
- Non-display Computers provide a variety of options in form factors, RAM, storage, performance, operating temperatures and optical drives.
- Integrated Display Computers are available in different screen sizes, storage options, performance packages, and models with built-in keypads.

The Allen-Bradley® Visualisation products provide windows into critical production and process information and enterprise data. Across every type of industry, application and manufacturing environment, these products accelerate development and enhance operation.



Stainless Steel Integrated Display Computers

The integrated display computers serve as the foundation for visualization control of processes and machinery by using information displays to repair, maintain, or start a process. This platform comes with a continuous-duty, hard-disk drive or a mission-critical, solid-state drive that is free of moving parts. A fanless design with increased temperature ratings and low-voltage processors add to its ruggedness. Plus, you can choose a standard or performance package to get the computing power you need. The integrated display computers provide seamless integration with the full suite of Rockwell Software solutions, including the Integrated Architecture platform and FactoryTalk View software.

15" Touchscreen Display

Intel Core i3 Dual-Core CPU

Item Description	Item Type	Catalogue No.	\$AU
15" Integrated Display Industrial Computer, Stainless Steel 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 100-240V AC Power	I	6181P-15C2MW71AC	6,321.70
15" Integrated Display Industrial Computer, Stainless Steel 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-15C2MW71DC	6,321.70
15" Integrated Display Industrial Computer, Stainless Steel 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-15C2MWX1AC	6,321.70
15" Integrated Display Industrial Computer, Stainless Steel 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-15C2MWX1DC	6,321.70



6181P-15C2MW71DC

17" Touchscreen Display

Intel Core i3 Dual-Core CPU

Item Description	Item Type	Catalogue No.	\$AU
17" Integrated Display Industrial Computer, Stainless Steel 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-17C2MW71DC	6,825.60
17" Integrated Display Industrial Computer, Stainless Steel 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-17C2MWX1AC	6,825.60
17" Integrated Display Industrial Computer, Stainless Steel 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-17C2MWX1DC	6,825.60



6181P-17C2MW71DC

19" Touchscreen Display

Intel Core i3 Dual-Core CPU

Item Description	Item Type	Catalogue No.	\$AU
19" Integrated Display Industrial Computer, Stainless Steel 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 100-240V AC Power	I	6181P-19C2MW71AC	7,318.05
19" Integrated Display Industrial Computer, Stainless Steel 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-19C2MW71DC	7,318.05
19" Integrated Display Industrial Computer, Stainless Steel 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-19C2MWX1AC	7,318.05
19" Integrated Display Industrial Computer, Stainless Steel 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-19C2MWX1DC	7,318.05



6181P-19C2MWX1DC

Non-Display Industrial Computers

The Allen-Bradley® non-display industrial computers offer solutions for the physical limitations and requirements of your environment. These non-display computers provide a variety of options in form factors, RAM, storage and performance.

6181P Non-Display Computers

Intel Core i3 Dual-Core CPU



6181P-00N2MW71AC

Item Description	Item Type	Catalogue No.	\$AU
Non-display Industrial Computer, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 100-240V AC Power	I	6181P-00N2MW71AC	4,626.75
Non-display Industrial Computer, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-00N2MWX1AC	4,626.75
Non-display Industrial Computer, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-00N2MWX1DC	4,626.75

Intel Core i7 Quad-Core CPU



6181P-00N3MW71DC

Item Description	Item Type	Catalogue No.	\$AU
Non-display Industrial Computer, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 100-240V AC Power	I	6181P-00N3MW71AC	5,451.33
Non-display Industrial Computer, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-00N3MW71DC	5,451.33
Non-display Industrial Computer, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-00N3MWX1AC	5,451.33
Non-display Industrial Computer, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-00N3MWX1DC	5,451.33
Non-display Industrial Computer, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows Server 2008 R2, 100-240V AC Power	I	6181P-00N3MS81AC	6,447.67
Non-display Industrial Computer, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows Server 2008 R2, 18-32 V DC Power	I	6181P-00N3MS81DC	6,447.67

Rack Mount

6177R Non-display Computers (1450R) leverage the Intel second-generation Core processors to provide extremely powerful, highly reliable platforms that are suitable for industrial environments in rugged rack-mounts. They offer powerful remote management, onboard backup/restore, and integrated diagnostic capabilities.

Win 10 IOT

Item Description	Item Type	Catalogue No.	\$AU
IPC No Display 750R Win 10 IOT Enterprise 64Bit 500 GB HDD 4GB RAM AC	I	6177R-MMPWX	4,342.30

Integrated Display Computers

The integrated display computers serve as the foundation for visualization control of processes and machinery by using information displays to repair, maintain, or start a process. This platform comes with a continuous-duty, hard-disk drive or a mission-critical, solid-state drive that is free of moving parts. A fanless design with increased temperature ratings and low-voltage processors add to its ruggedness. Plus, you can choose a standard or performance package to get the computing power you need. The integrated display computers provide seamless integration with the full suite of Rockwell Software solutions, including the Integrated Architecture platform and FactoryTalk View software.

12" Touchscreen Display

Intel Core i3 Dual-Core CPU



6181P-12A2MWX1DC

Item Description	Item Type	Catalogue No.	\$AU
12" Integrated Display Industrial Computer, Aluminium 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-12A2MW71DC	5,451.33
12" Integrated Display Industrial Computer, Aluminium 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-12A2MWX1AC	5,451.33
12" Integrated Display Industrial Computer, Aluminium 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-12A2MWX1DC	5,451.33

15" Touchscreen Display

Intel Core i3 Dual-Core CPU

Item Description	Item Type	Catalogue No.	\$AU
15" Integrated Display Industrial Computer, Aluminium 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 100-240V AC Power	I	6181P-15A2MW71AC	5,634.56
15" Integrated Display Industrial Computer, Aluminium 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-15A2MW71DC	5,634.56
15" Integrated Display Industrial Computer, Aluminium 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-15A2MWX1AC	5,634.56
15" Integrated Display Industrial Computer, Aluminium 4:3 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-15A2MWX1DC	5,634.56



6181P-15A2MWX1AC

Intel Core i7 Quad-Core CPU

Item Description	Item Type	Catalogue No.	\$AU
15" Integrated Display Industrial Computer, Aluminium 4:3 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-15A3MW71DC	6,882.86
15" Integrated Display Industrial Computer, Aluminium 4:3 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-15A3MWX1AC	6,882.86
15" Integrated Display Industrial Computer, Aluminium 4:3 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-15A3MWX1DC	6,882.86
15" Integrated Display Industrial Computer, Aluminium 16:9 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-15B3MW71DC	8,302.95
15" Integrated Display Industrial Computer, Aluminium 16:9 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-15B3MWX1AC	8,302.95
15" Integrated Display Industrial Computer, Aluminium 16:9 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-15B3MWX1DC	8,302.95
Integrated 15 inch Display Industrial Computer, Aluminium 16:9 Bezel, i7 CPU 8GB RAM, 32GB SSD, Windows 7 Pro, DC Power	I	6181P-15B3SW71DC	8,669.43



6181P-15A3MW71DC

17" Touchscreen Display

Intel Core i3 Dual-Core CPU

Item Description	Item Type	Catalogue No.	\$AU
17" Integrated Display Industrial Computer, Aluminium 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-17A2MW71DC	6,138.46
17" Integrated Display Industrial Computer, Aluminium 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-17A2MWX1DC	6,138.46
Integrated 17 inch Display Industrial Computer, Aluminium 5:4 Bezel, i3 CPU 4 GB RAM, 32GB SSD, Windows 7 Pro, DC Power	I	6181P-17A2SW71DC	6,447.67



6181P-17A2MW71DC

Intel Core i7 Quad-Core CPU

Item Description	Item Type	Catalogue No.	\$AU
17" Integrated Display Industrial Computer, Aluminium 5:4 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-17A3MW71DC	7,386.76



6181P-17A3MW71DC

19" Touchscreen Display

Intel Core i3 Dual-Core CPU

Item Description	Item Type	Catalogue No.	\$AU
19" Integrated Display Industrial Computer, Aluminium 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 100-240V AC Power	I	6181P-19A2MW71DC	6,630.91
19" Integrated Display Industrial Computer, Aluminium 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-19A2MWX1AC	6,630.91
19" Integrated Display Industrial Computer, Aluminium 5:4 Bezel, i3 CPU, 4 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-19A2MWX1DC	6,630.91



6181P-19A2MW71DC



6181P-19A3MW71DC

Intel Core i7 Quad-Core CPU

Item Description	Item Type	Catalogue No.	\$AU
19" Integrated Display Industrial Computer, Aluminium 5:4 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-19A3MW71DC	7,879.21
19" Integrated Display Industrial Computer, Aluminium 5:4 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-19A3MWX1AC	7,879.21
19" Integrated Display Industrial Computer, Aluminium 5:4 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-19A3MWX1DC	7,879.21
19" Integrated Display Industrial Computer, Aluminium 16:9 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 7 Pro 64-Bit, 18-32 V DC Power	I	6181P-19B3MW71DC	8,669.43
19" Integrated Display Industrial Computer, Aluminium 16:9 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 100-240V AC Power	I	6181P-19B3MWX1AC	8,669.43
19" Integrated Display Industrial Computer, Aluminium 16:9 Bezel, i7 CPU, 8 GB RAM, 256 GB MLC SSD, Windows 10 IOT 64-Bit, 18-32 V DC Power	I	6181P-19B3MWX1DC	8,669.43

Hazardous Area Integrated Display Computers with SSD

Item Description	Item Type	Catalogue No.	\$AU
IPC 1200XT Win10 lot 12.1In PCAP Touch 128G Ssd 8G RAM 24VDC	I	6181X-12P2SWX1DC	10,020.82

Industrial Monitors

The Allen-Bradley® Industrial Monitors deliver the latest in LCD flat panel technology for rugged industrial environments. Bulletin 6186M Industrial Monitors are better suited for special purpose environments such as Class 1 Division 2, and food and beverage areas. Bulletin 6176M Industrial Monitors are designed for environments that are less demanding but still must maintain endurance to temperature, shock and vibration.

6176M Industrial Standard Monitors

6176M Standard Monitors are flat panel industrial colour monitors for use in less demanding environments. All Standard Monitors have USB and RS232 touch screen inputs, DVI and VGA video inputs, and an On Screen Display (OSD) that enables image rotation, colour pallet changes, and pushbutton auto reset.



6176M-19VN

Item Description	Item Type	Catalogue No.	\$AU
1550M STANDARD MONITOR 15in VESA MOUNT	I	6176M-15VN	1,389.19
1550M Standard Monitor 15in Panel Mount	I	6176M-15PN	1,704.92
Standard Monitor, 15-inch Flat Panel Monitor, Vesa mount, plastic bezel, resistive touch screen; includes required cables and power supply	I	6176M-15VT	1,704.92
1750M STANDARD MONITOR 17in VESA MOUNT	I	6176M-17VN	1,831.21
Standard 15-inch Panel Monitor, 90-264 V AC, 1024x768 Resolution, RS232 & 2 x USB, Resistive Touch Screen, VGA or DVI-I Input, IP66	I	6176M-15PT	1,970.12
1750M STANDARD MONITOR 17in PANEL MOUNT	I	6176M-17PN	2,247.96
1750M STANDARD MONITOR 17in TOUCH VESA MOUNT	I	6176M-17VT	2,247.96
1950M STANDARD MONITOR 19in VESA MOUNT	I	6176M-19VN	2,386.89
Standard 17-inch Panel Monitor, 90-264 V AC, 1280x1024 Resolution, RS232 & 2 x USB, Resistive Touch Screen, VGA or DVI-I Input, IP66	I	6176M-17PT	2,652.09
1950M STANDARD MONITOR 19in TOUCH VESA MOUNT	I	6176M-19VT	3,094.11
1950M STANDARD MONITOR 19in PANEL MOUNT	I	6176M-19PN	3,157.26
Standard 19-inch Panel Monitor, 90-264 V AC, 1280x1024 Resolution, RS232 & 2 x USB, Resistive Touch Screen, VGA or DVI-I Input, IP66	I	6176M-19PT	3,788.70

6186M Industrial Performance Monitors



6186M-17PT

Item Description	Item Type	Catalogue No.	\$AU
Performance 12-inch Panel Monitor, 90-264 V AC, 800 x 600 Resolution, RS232 & 2 x USB, Resistive Touch Screen, Aluminium Bezel, VGA or DVI-I Input, IP66	I	6186M-12PT	3,601.42
Performance 15-inch Panel Monitor, 90-264 V AC, 1024 x 768 Resolution, RS232 & 2 x USB, Resistive Touch Screen, Aluminium Bezel, VGA or DVI-I Input, IP66	I	6186M-15PT	4,415.13
Performance Monitor, 100...240 V AC, 9...36 V DC, 1024x768 resolution, Serial/USB Resistive Touchscreen, Analog (VGA) and Digital (DVI-I) Video Input, Luminance=450 cd/m², NEMA/UL 50 Type 1, 4, 4X, 12, and IEC IP66	I	6186M-15PNSS	4,716.50
Performance 17-inch Panel Monitor, 90-264 V AC, 1280x1024 Resolution, RS232 & 2 x USB, Resistive Touch Screen, Aluminium Bezel, VGA or DVI-I Input, IP66	I	6186M-17PT	5,228.83
1700M PERFORMANCE MONITOR 17in SS BEZEL	I	6186M-17PNSS	5,334.31
1700M PERFORMANCE MONITOR 17in TOUCH SS BEZEL	I	6186M-17PTSS	5,741.17
1900M PERFORMANCE MONITOR 19in SS BEZEL	I	6186M-19PNSS	6,374.05
Performance 19-inch Panel Monitor, 90-264 V AC, 1280x1024 Resolution, RS232 & 2 x USB, Resistive Touch Screen, Aluminium Bezel, VGA or DVI-I Input, IP66	I	6186M-19PT	6,554.87
1900M PERFORMANCE MONITOR 19in TOUCH SS BEZEL	I	6186M-19PTSS	7,037.08

Industrial Keyboards and Pointing Devices

The Industrial keyboards and pointing devices are designed to resist harsh environments and are ideal for plant floor applications using Rockwell Automation industrial computers. EMI/RFI shielding and a rugged design help protect the industrial keyboards from substances around demanding processes. The pointing devices are impervious to liquids, gases, and other contaminants due to their industrial silicone rubber pads and stainless steel cases.

Item Description	Item Type	Catalogue No.	\$AU
Panel Mount Mouse, Stainless Steel, 3-Button, PS/2	I	6189V-HPMOUSEP	433.58
Industrial USB Panel Mount Mouse	I	6189V-HPMOUSEPU	433.58
Desktop Keyboard/Mouse, Polycarbonate, 116 Key, USB		6189V-KBDEPC1U	850.48
Desktop Keyboard/Mouse, Stainless Steel, 116 Key, PS/2	I	6189V-KBDEPS1	1,191.15
Panel Mount Keyboard/Mouse, Stainless Steel, 116 Key, PS/2	I	6189V-KBPEPS1	1,191.15



6189V-KBPEPS1

Industrial Computers

VersaView 5000 Industrial Computers



- Modern operating system support ensures easy integration with multiple software options
- Maintenance free and fanless operation reduces machine downtime, allowing greater production at the floor level
- Non-display computers provide increased flexibility of machine placement due to reduced footprint and multiple mounting options, ensuring hardware can be placed where it is most needed
- Thin client options allow for distributed control applications, with centralized control and reporting of plant variables. The VersaView range can also be seamlessly integrated with Rockwell Thinmanager, providing for greater PC management with no loss of data and easy replacement of damaged screens
- Multi-touch, all glass screens are able to be used with gloves for easy use by operators and allow for easy, quick cleaning
- Industrial grade computers and displays are suited for harsh environments ensuring durability and long life

The Allen-Bradley® VersaView® 5000 portfolio is a complete line of open architecture industrial PCs, thin clients, and monitors. Offerings include integrated modern edge-to-edge all-glass displays and compact non-display models. The VersaView 5000 platform can be used for both standalone machine level and distributed HMI applications. The VersaView 5000 range supports modern operating systems and various software applications, and is ideal to use with FactoryTalk® View SE software for distributed applications. The line is completely fanless and maintenance free to reduce costly machine downtime.

VersaView 5400 Industrial Computers

Non-Display

Item Description	Item Type	Catalogue No.	\$AU
VersaView Industrial Computer Non Display Enterprise OS	I	6200P-NS3C1	3,546.90
VersaView Industrial Computer Non Display 7Pro OS	I	6200P-NS3A1	3,835.55
VersaView Industrial Computer Non Display FactoryTalk Analytics OS	I	6200P-NS3C6	4,010.00



6200P-NS3C1

12" Screens

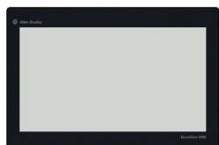
Item Description	Item Type	Catalogue No.	\$AU
VersaView Industrial Computer Display 7Pro OS 12.1 Inch	I	6200P-12WS3A1	6,718.40



6200P-12WS3A1

15" Screens

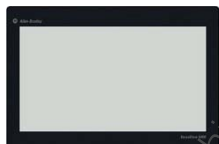
Item Description	Item Type	Catalogue No.	\$AU
VersaView Industrial Computer Display 7Pro OS 15.6 Inch	I	6200P-15WS3A1	7,295.68



6200P-15WS3A1

19" Screens

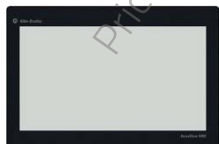
Item Description	Item Type	Catalogue No.	\$AU
VersaView Industrial Computer Display 7Pro OS 18.5In	I	6200P-19WS3A1	7,679.94



6200P-19WS3A1

22" Screens

Item Description	Item Type	Catalogue No.	\$AU
VersaView Industrial Computer Display 7Pro OS 21.5 Inch	I	6200P-22WS3A1	7,872.96



6200P-22WS3A1

VersaView 5200 Thin Clients

Non-Display

Item Description	Item Type	Catalogue No.	\$AU
VersaView Thin Client Non Display Single Core Single Port Ethernet	I	6200T-BA	1,767.26
VersaView Thin Client Non Display Single Core Dual port Ethernet		6200T-NA	2,114.33
VersaView Thin Client Non Display Quad Core Three 4K Output		6200T-RC	4,993.65
VersaView Thin Client Non Display Quad Core Seven 4K Output		6200T-RE	6,410.28



6200T-BA

Display

Item Description	Item Type	Catalogue No.	\$AU
VersaView Thin Client Display 12.1 Inch Single Core	I	6200T-12WA	5,374.37
VersaView Thin Client Display 15.6 Inch Single Core	I	6200T-15WA	5,661.23
VersaView Thin Client Display 18.5 Inch Single Core	I	6200T-19WA	5,949.88
VersaView Thin Client Display 21.5 Inch Single Core		6200T-22WA	6,334.14



6200T-12WA

VersaView 5100 Monitors

Item Description	Item Type	Catalogue No.	\$AU
VersaView 12.1 Inch Monitor	I	6200M-12WBN	3,653.16
VersaView 15.6 Inch Monitor	I	6200M-15WBN	3,844.39
VersaView 18.5 Inch Monitor	I	6200M-19WBN	4,228.66
VersaView 21.5 Inch Monitor	I	6200M-22WBN	4,805.95

VersaView 5000 Accessories

Item Description	Item Type	Catalogue No.	\$AU
VersaView Box PC/Thin Client Machine Mounting Kit		6200V-BXMACH	90.84
Item Description	Item Type	Catalogue No.	\$AU
VersaView DC Power Connector Dual 4K DC Assembly Kit	I	6200V-DCCONN2	36.12
VersaView AC to DC Power Adaptor	I	6200V-MPS4	217.81

Industrial Computers

Allen-Bradley VersaView 6300 Box PC

Intel Atom Class Box PC and Thin Client

- Intel Apollo Lake Atom processor
- Available with Microsoft® Windows10 IoT Enterprise 2019 LTSC
- DisplayPort supports up to 4K high resolution
- 2 x Ethernet and 2 x USB 3.0 (Type A) ports
- Offers M.2 SSD up to 240 GB (PC Only)
- 4 GB or 8 GB DDR4 RAM
- Fanless, book mount construction, 24V DC
- 0 to 50°C operating temperature
- ThinManager ready and Thin Manager compatible options

Intel Core i Class Box PC and Thin Client

- Core™ i3 and i7 dual and quad core 7th generation 64 bit processors
- Available with Microsoft Windows10 IoT Enterprise 2019 LTSC
- No OS version, supports Linux
- 4 x Ethernet, 3 x USB 3.0 (Type A), 2 x USB 2.0 (Type A), 1 x RS-232 (DB9M), 1 x DVI-D
- M.2/mSATA and 2.5" SSD up to 1 TB SATA III SSD
- Up to 32 GB DDR4 SODIMM modules
- Up to 3 PCIe expansion slots
- Fanless design with book mount, wallmount, 24V DC
- Fan cooled unit with wall mount, 100V/230V AC
- Up to +50°C operating temperature (0°C to +45°C for i7 processors 6300B-PBC* and 6300B-BMB*)

VersaView 6300B Box PC and 6300T Box Thin Client Allen-Bradley® VersaView® 6300B Box PCs are available in multiple formfactors and processors to match your application.

Book mounting units have a fanless design making them optimal for applications requiring low maintenance.

The most compact units in this family feature Apollo Lake Atom processors, making them ideal for human machine interface (HMI), IIoT gateway and data logging applications.

Atom class units are also available as ThinManager® ready thin clients and are not equipped with an operating system or solid-state drive (SSD).

Box PC with Atom processor

Item Description	Item Type	Catalogue No.	\$AU
VersaView 6300 Box PC Book Mount No Fan 24VDC ATOM 4GB RAM 128GB SSD OS W10	I	6300BBMADNAB8AAN	2,512.77
VersaView 6300 Box PC Book Mount No Fan 24VDC ATOM 8GB RAM 240GB SSD OS W10	I	6300BBMADNAC9AAN	3,166.19
VersaView 6300 Box PC Book Mount No Fan 24VDC ATOM 8GB RAM 480GB SSD OS W10	I	6300BBMADNAC0ABN	3,634.74

Box PC with Intel Core processor

Item Description	Item Type	Catalogue No.	\$AU
VersaView 6300 Box PC Wall Mount No Fan 24VDC i3 8GB RAM 256GB SSD OS/STORE 256GB SSD1 W10	I	6300BBMBDNH3CBCBB	8,134.32
VersaView 6300 Box PC Wall Mount No Fan 24VDC i7 4GB RAM NO SSD NO OS 2 PCIe x4 expansion	I	6300BBMBDNH7BNCAN	8,578.44
VersaView 6300 Box PC Wall Mount No Fan 24VDC i5 16GB RAM 512GB SSD1 OS/STORE W10	I	6300BBMBDNH5DCCBC	9,817.30
VersaView 6300 Box PC Wall Mount No Fan 24VDC i7 32GB RAM 1TB SSD OS/STORE W10 2 PCIe x4 expansion	I	6300BBMBDNH7EDCBD	13,487.09

Industrial Computers

Allen-Bradley VersaView 6300 Panel PC

- Available in display sizes from 12.1" to 24"
- Resolutions include FHD / HD / SVGA / SXGA / XGA / WXGA
- Available in both Standard or Low Profile bezels
- Standard Aluminium bezel units support various resolutions including high-definition displays
- Features Low Profile units in standard definition and full high definition displays with the following bezel variants:
 - Aluminium
 - Aluminium Glass True Flat
- Analog resistive and projected capacitive (for multitouch operation)
- Four Ethernet 10/100/1000 Mbps ports
- Supports "Jumbo Frame" and "Wakeon LAN" network standards
- Available with Microsoft Windows 10 IoT Enterprise 2019 LTSC
- Variations available with long distance support for up to two additional displays
- Mass storage types up to 1 TB that include mSATA, SSD SATA III, CFAST (up to 128 GB)
- Up to 32 GB of SODIMM DDR4 RAM
- USB variations of 1x USB 2.0 (Type A) front and rear and up to 3x USB 3.0 rear (Type-A)
- 1 RS-232 (DB9M) serial port
- 1 x DVI-D video output
- IP65 / IP66 (model dependent)
- Fanless construction
- Additional options in TPM, PCI Expansion Slots, additional communications
- 24V DC (18V to 32V DC) isolated power
- Operating temperature 0°C to +50°C
- CE, c-UL-us LISTED (61010), RCM approvals

The VersaView 6300P Panel PC is based on the seventh generation Core i3, i5 and i7 of the Intel Kaby Lake H platform and Intel Celeron of the Skylake allowing it to handle complex industrial applications.

Touch screen technologies, which enhance ease of use, include analog resistive and projected capacitive (for multitouch operation).

This Panel PC is available in a variety of display sizes and resolutions.

There are options of either Standard or Low Profile bezel units. Both have resolutions up to full high definition

12" Screens

Item Description	Item Type	Catalogue No.	\$AU
VersaView 6300 Panel PC 12.1in SST CEL 8GB RAM 128GB SSD OS/STORE W10	I	6300P121FASXDACCAABA	6,311.13
VersaView 6300 Panel PC 12.1in SST i3 4GB RAM 128GB SSD OS/STORE W10	I	6300P121BASXDB3BABBA	6,942.23
VersaView 6300 Panel PC 12.1in SST i5 8GB RAM 512GB SSD OS/STORE W10	I	6300P121BASXDB5CCBBC	8,379.77
VersaView 6300 Panel PC 12.1in SST i7 16GB RAM 1TB SSD OS/STORE W10	I	6300P121BASXDB7DDBBD	11,230.39

15" Screens

Item Description	Item Type	Catalogue No.	\$AU
VersaView 6300 Panel PC 15in SST CEL 8GB RAM 128GB SSD OS/STORE W10	I	6300P150FASXDACCAABA	6,380.17
VersaView 6300 Panel PC 15in SST i7 16GB RAM 1TB SSD OS/STORE W10	I	6300P150BASXDB7DDBBD	11,302.99
VersaView 6300 Panel PC 15.6in SST i7 16GB RAM 1TB SSD OS/STORE W10	I	6300P156AASFDB7DDBBD	11,768.71

17" Screens

Item Description	Item Type	Catalogue No.	\$AU
VersaView 6300 Panel PC 17in SST CEL 8GB RAM 128GB SSD OS/STORE W10	I	6300P170FASTDACCAABA	6,778.61
VersaView 6300 Panel PC 17in SST i3 8GB RAM 256GB SSD OS/STORE W10	I	6300P170BASTDDB3CBBBB	7,982.75
VersaView 6300 Panel PC 17in SST i7 8GB RAM 256GB SSD OS/STORE W10	I	6300P170BASTDDB7CBBBB	9,817.30

18.5" Screens

Item Description	Item Type	Catalogue No.	\$AU
VersaView 6300 Panel PC 18.5in SST i7 16GB RAM 1TB SSD OS/STORE W10	I	6300P185AASFDB7DDBBD	12,236.20

19" Screens

Item Description	Item Type	Catalogue No.	\$AU
VersaView 6300 Panel PC 19in SST CEL 8GB RAM 128GB SSD OS/STORE W10	I	6300P190FASTDACCAABA	7,315.16
VersaView 6300 Panel PC 19in SST i3 8GB RAM 256GB SSD OS/STORE W10	I	6300P190BASTDDB3CBBBB	8,519.30
VersaView 6300 Panel PC 19in SST i7 16GB RAM 1TB SSD OS/STORE W10	I	6300P190BASTDDB7DDBBD	12,236.20

21.5" Screens

Item Description	Item Type	Catalogue No.	\$AU
VersaView 6300 Panel PC 21.5in MT CEL 4GB RAM 128GB SSD OS/STORE W10	I	6300P215ECMFDACBAABA	8,940.75
VersaView 6300 Panel PC 21.5in SST i3 8GB RAM 256GB SSD OS/STORE W10	I	6300P215AASFDB3CB BBB	9,045.23
VersaView 6300 Panel PC 21.5in MT CEL 8GB RAM 128GB SSD OS/STORE W10	I	6300P215ECMFDACCAABA	9,349.80
VersaView 6300 Panel PC 21.5in SST i7 16GB RAM 1TB SSD OS/STORE W10	I	6300P215AASFDB7DDBBD	12,762.13

24" Screens

Item Description	Item Type	Catalogue No.	\$AU
VersaView 6300 Panel PC 24in SST i7 16GB RAM 1TB SSD OS/STORE W10	I	6300P240AASFDB7DDBBD	13,417.32

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'my account'

Industrial Computers

Allen-Bradley VersaView 6300 Thin Clients

Item Description	Item Type	Catalogue No.	\$AU
VersaView 6300 Thin Client ATOM 4GB RAM NO SSD ONE 4K DISP		6300TBA	2,032.87

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Information Software

Rockwell Software Information



- Useful dashboards and Key Performance Indicators provide a more detail focus on relevant plant floor information, providing greater visibility into plant operations.
- Manufacturing Intelligence solutions provide actionable information that can help improve plant productivity and Overall Equipment Effectiveness to save time and money
- SCADA reports help in connecting plant and business database systems offering increased profit and productivity.

Information from your control system in context and on demand gives you an advantage: analyse production, improve equipment performance and product quality. Rockwell Software Information include Manufacturing Intelligence strategies that leverage a suite of reporting and analysis tools, interfaces and dashboards designed to deliver contextual, localised, role-based information to help you improve your system or process.

Sequence Manager

SequenceManager™ software significantly reduces engineering time for system integrators and process equipment builders while providing key controller-based batch management capabilities for end users

- Enables distributed sequence execution
- Fast and excellent reliability of sequence execution native to controller
- Efficient sequence development and monitoring in core product
- Integrated control and HMI solution for intuitive operation
- Reduced infrastructure costs for small systems
- Provides data necessary for sequence reporting

Item Description	Item Type	Catalogue No.	\$AU
Sequencemanager Event Client License 1 Controller Elec	S	9358-SQM01ENE	POA
Sequencemanager Event Client License 3 Controller Elec	S	9358-SQM03ENE	POA
Sequencemanager Event Client License 10 Controller Elec	S	9358-SQM10ENE	POA

Pricing in this document is invalid – for pricing and availability please contact the NHP customer portal under 'My Account'

Information Software

Rockwell FactoryTalk® Edge Gateway

FactoryTalk Edge Gateway hosts intelligent connectivity of OT data with IT systems. The information modeling capabilities provide a new way to efficiently contextualize and synchronize collection of disparate data sources. Integration of information models empowers IT professionals with high speed data resolution and the automated tag mapping reduces design and life cycle costs associated with digital transformation.



FactoryTalk® Edge Gateway - Subscription - (Rockwell Automation)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT Edge Gateway 100 Tags 1Ysub 8X5 Support Elec	S	95055C-EDGEGWT11	POA
FT Edge Gateway 100 Tags 1Ysub 24X7 Support Elec	S	95055C-EDGEGWT12	POA
FT Edge Gateway 500 Tags 1Ysub 8X5 Support Elec	S	95055C-EDGEGWT21	POA
FT Edge Gateway 500 Tags 1Ysub 24X7 Support Elec	S	95055C-EDGEGWT22	POA
FT Edge Gateway 2500 Tags 1Ysub 8X5 Support Elec	S	95055C-EDGEGWT31	POA
FT Edge Gateway 2500 Tags 1Ysub 24X7 Support Elec	S	95055C-EDGEGWT32	POA
FT Edge Gateway 10000 Tags 1Ysub 8X5 Support Elec	S	95055C-EDGEGWT41	POA
FT Edge Gateway 10000 Tags 1Ysub 24X7 Support Elec	S	95055C-EDGEGWT42	POA

Information Software

Rockwell FactoryTalk® Transaction Manager



Features

- Helps safeguard data integrity, including the ability to send notifications of failures
- Provides the ability to restore service connection
- Caches transactions before they reach the enterprise system
- Supports bi-directional transactions
- Data collection continues while adding new or modifying existing transactions
- Connects to various enterprise systems

Benefits

- Create custom interactions between factory control systems and enterprise database
- One-way transactions allow for custom production data logging
- Two-way interactions allow for data downloads to the control system, such as work orders, recipes and set points
- Preferred connectivity to FactoryTalk Integrated Architecture™

FactoryTalk® Transaction Manager is a valuable tool designed to help you better manage your manufacturing processes by integrating the critical data in your shop floor control systems with enterprise IT and other manufacturing applications. This is achieved by creating a true end-to-end link between control systems to database systems, allowing two-way exchange of data between applications, a database, and the control system. FactoryTalk® Transaction Manager provides you with the ideal platform on which to integrate and build the solutions you need to run your enterprise.

FactoryTalk® Transaction Manager - Perpetual with Maintenance - (Rockwell Automation)

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT Transaction Manager 150 Tags Perpetual Self Support Elec	S	9356M-FTTMT10	POA
FT Transaction Manager 150 Tags Perpetual 8X5 Support Elec	S	9356M-FTTMT11	POA
FT Transaction Manager 150 Tags Perpetual 24X7 Support Elec	S	9356M-FTTMT12	POA
FT Transaction Manager 300 Tags Perpetual Self Support Elec	S	9356M-FTTMT20	POA
FT Transaction Manager 300 Tags Perpetual 8X5 Support Elec	S	9356M-FTTMT21	POA
FT Transaction Manager 300 Tags Perpetual 24X7 Support Elec	S	9356M-FTTMT22	POA
Ft Transaction Manager 1500 Tags Perpetual Self Support Elec	S	9356M-FTTMT30	POA
Ft Transaction Manager 1500 Tags Perpetual 8X5 Support Elec	S	9356M-FTTMT31	POA
Ft Transaction Manager 1500 Tags Perpetual 24X7 Support Elec	S	9356M-FTTMT32	POA
Ft Transaction Manager 5000 Tags Perpetual Self Support Elec	S	9356M-FTTMT40	POA
Ft Transaction Manager 5000 Tags Perpetual 8X5 Support Elec	S	9356M-FTTMT41	POA
Ft Transaction Manager 5000 Tags Perpetual 24X7 Support Elec	S	9356M-FTTMT42	POA
Ft Transaction Manager 32K Tags Perpetual Self Support Elec	S	9356M-FTTMT50	POA
Ft Transaction Manager 32K Tags Perpetual 8X5 Support Elec	S	9356M-FTTMT51	POA
Ft Transaction Manager 32K Tags Perpetual 24X7 Support Elec	S	9356M-FTTMT52	POA
Ft Transaction Manager 70K Tags Perpetual Self Support Elec	S	9356M-FTTMT60	POA
Ft Transaction Manager 70K Tags Perpetual 8X5 Support Elec	S	9356M-FTTMT61	POA
Ft Transaction Manager 70K Tags Perpetual 24X7 Support Elec	S	9356M-FTTMT62	POA

FactoryTalk® Transaction Manager - Subscription - (Rockwell Automation)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

Item Description	Item Type	Catalogue No.	\$AU
Ft Transaction Manager 150 Tags 1Ysub 8X5 Support Elec	S	9356C-FTTMT11	POA
Ft Transaction Manager 150 Tags 1Ysub 24X7 Support Elec	S	9356C-FTTMT12	POA
Ft Transaction Manager 300 Tags 1Ysub 8X5 Support Elec	S	9356C-FTTMT21	POA
Ft Transaction Manager 300 Tags 1Ysub 24X7 Support Elec	S	9356C-FTTMT22	POA
Ft Transaction Manager 1500 Tags 1Ysub 8X5 Support Elec	S	9356C-FTTMT31	POA
Ft Transaction Manager 1500 Tags 1Ysub 24X7 Support Elec	S	9356C-FTTMT32	POA
Ft Transaction Manager 5000 Tags 1Ysub 8X5 Support Elec	S	9356C-FTTMT41	POA
Ft Transaction Manager 5000 Tags 1Ysub 24X7 Support Elec	S	9356C-FTTMT42	POA
Ft Transaction Manager 32000 Tags 1Ysub 8X5 Support Elec	S	9356C-FTTMT51	POA
Ft Transaction Manager 32000 Tags 1Ysub 24X7 Support Elec	S	9356C-FTTMT52	POA
Ft Transaction Manager 70000 Tags 1Ysub 8X5 Support Elec	S	9356C-FTTMT61	POA
Ft Transaction Manager 70000 Tags 1Ysub 24X7 Support Elec	S	9356C-FTTMT62	POA

Information Software

Rockwell FactoryTalk® Linx

FactoryTalk® Linx Gateway
FactoryTalk® Linx Data Bridge Standard
KepServer Enterprise

Page 587

Page 589

Page 589



FactoryTalk® Linx Gateway

The FactoryTalk Linx Gateway adds a Classic OPC DA and OPC UA server interface to deliver information collected by FactoryTalk Linx from Logix5000™ and other Allen-Bradley® controllers to external OPC clients, permitting third-party software to coexist with FactoryTalk® software

FactoryTalk Linx Gateway is an OPC UA / DA Server interface for FactoryTalk Linx. Scalable for both tag capacity and server architecture.

FactoryTalk Linx Gateway enables 3rd party software to share data with FactoryTalk software.

- Highest capacity and performance
- Logix data server for Rockwell Automation software (delivered with FactoryTalk Service Platform)

FactoryTalk® Linx Gateway - Perpetual with Maintenance - (Rockwell Automation eCommerce Portal) - Standard

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

FactoryTalk® Linx Gateway Basic

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Basic Perpetual Self Support Elec	S	9355M-FTLNKGWT10	POA
FT Linx Gateway Basic Perpetual 8X5 Support Elec	S	9355M-FTLNKGWT11	POA
FT Linx Gateway Basic Perpetual 24X7 Support Elec	S	9355M-FTLNKGWT12	POA

FactoryTalk® Linx Gateway Standard

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Std Perpetual Self Support Elec	S	9355M-FTLNKGWT20	POA
FT Linx Gateway Std Perpetual 8X5 Support Elec	S	9355M-FTLNKGWT21	POA
FT Linx Gateway Std Perpetual 24X7 Support Elec	S	9355M-FTLNKGWT22	POA

FactoryTalk® Linx Gateway Extended

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Extended Perpetual Self Support Elec	S	9355M-FTLNKGWT50	POA
FT Linx Gateway Extended Perpetual 8X5 Support Elec	S	9355M-FTLNKGWT51	POA
FT Linx Gateway Extended Perpetual 24X7 Support Elec	S	9355M-FTLNKGWT52	POA

FactoryTalk® Linx Gateway Distributed

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Distributed Perpetual Self Support Elec	S	9355M-FTLNKGWT30	POA
FT Linx Gateway Distributed Perpetual 8X5 Support Elec	S	9355M-FTLNKGWT31	POA
FT Linx Gateway Distributed Perpetual 24X7 Support Elec	S	9355M-FTLNKGWT32	POA

FactoryTalk® Linx Gateway Professional

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Pro Perpetual Self Support Elec	S	9355M-FTLNKGWT40	POA
FT Linx Gateway Pro Perpetual 8X5 Support Elec	S	9355M-FTLNKGWT41	POA
FT Linx Gateway Pro Perpetual 24X7 Support Elec	S	9355M-FTLNKGWT42	POA

FactoryTalk® Linx Gateway Embedded

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Embedded Perpetual Self Support Elec	S	9355M-FTLNKGWT60	POA
FT Linx Gateway Embedded Perpetual 8X5 Support Elec	S	9355M-FTLNKGWT61	POA
FT Linx Gateway Embedded Perpetual 24X7 Support Elec	S	9355M-FTLNKGWT62	POA

FactoryTalk® Linx Gateway - Subscription - (Rockwell Automation eCommerce Portal)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

FactoryTalk® Linx Gateway Basic

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Basic 1YSub 8X5 Support Elec	S	9355C-FTLNKGWT11	POA
FT Linx Gateway Basic 1YSub 24X7 Support Elec	S	9355C-FTLNKGWT12	POA

FactoryTalk® Linx Gateway Standard

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Std 1YSub 8X5 Support Elec	S	9355C-FTLNKGWT21	POA
FT Linx Gateway Std 1YSub 24X7 Support Elec	S	9355C-FTLNKGWT22	POA

FactoryTalk® Linx Gateway Extended

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Extended 1YSub 8X5 Support Elec	S	9355C-FTLNKGWT51	POA
FT Linx Gateway Extended 1YSub 24X7 Support Elec	S	9355C-FTLNKGWT52	POA

FactoryTalk® Linx Gateway Distributed

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Distributed 1YSub 8X5 Support Elec	S	9355C-FTLNKGWT31	POA
FT Linx Gateway Distributed 1YSub 24X7 Support Elec	S	9355C-FTLNKGWT32	POA

FactoryTalk® Linx Gateway Professional

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Pro 1YSub 8X5 Support Elec	S	9355C-FTLNKGWT41	POA
FT Linx Gateway Pro 1YSub 24X7 Support Elec	S	9355C-FTLNKGWT42	POA

FactoryTalk® Linx Gateway Embedded

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Gateway Embedded 1YSub 8X5 Support Elec	S	9355C-FTLNKGWT61	POA
FT Linx Gateway Embedded 1YSub 24X7 Support Elec	S	9355C-FTLNKGWT62	POA

FactoryTalk® Linx Data Bridge Standard

The FactoryTalk Linx Data Bridge provides a centrally managed service to move data between automation system source including controllers, OPC DA servers or OPC UA connected servers and hardware. The Data Bridge facilitates data concentration applications or can enable Logix controllers to indirectly interface with OPC UA connected equipment. The Standard edition supports smaller configurations with up to 2,000 tags.

NOTE: If more than 2,000 tags are needed, FactoryTalk Linx Data Bridge is included with up to 200,000 tags with FactoryTalk Linx Professional.

FactoryTalk® Linx Data Bridge Standard - Perpetual with Maintenance - (Rockwell Automation)

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Data Bridge Perpetual Self Support Elec	S	9355M-FTLNxDBT70	POA
FT Linx Data Bridge Perpetual 8X5 Support Elec	S	9355M-FTLNxDBT71	POA
FT Linx Data Bridge Perpetual 24X7 Support Elec	S	9355M-FTLNxDBT72	POA

FactoryTalk® Linx Data Bridge Standard - Subscription - (Rockwell Automation eCommerce Portal)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT Linx Data Bridge 1YSub 8X5 Support Elec	S	9355C-FTLNxDBT71	POA
FT Linx Data Bridge 1YSub 24X7 Support Elec	S	9355C-FTLNxDBT72	POA



**Click here to access the
Rockwell Automation E-Commerce portal**

E1_dADVE-S02

KepServer Enterprise

KEPServer Enterprise provides serial and Ethernet OPC servers that allow communication between many third-party industrial devices and RSView32, FactoryTalk® View Site Edition, FactoryTalk® View Machine Edition. All drivers are supported by Rockwell Software.

Item Description	Item Type	Catalogue No.	\$AU
KepServer Enterprise, OPC Server/Client Multiple Drivers Elec	I	9301-OPCSRVE	3,850.69

Information Software

Rockwell FactoryTalk® Historian

FactoryTalk® Historian - Subscription - (Rockwell Automation)

Page 590



- Improve processes through the ability to analyse complex process data easily
- Reduce variability by verifying production parameters versus targets / norms
- Decrease overhead costs by saving time in collecting data and preparing reports
- Enable full use of the collected data by utilising the various capabilities to calculate and aggregate the data collected from the data sources
- Utilise a single, rich thin-client platform for all information and reporting requirements such as Microsoft Excel reports, powerful trends, dashboards and portal access

FactoryTalk® Historian establishes a reliable foundation for capturing the data you need to improve operations. This suite of software products will meet your requirements for a single machine (FactoryTalk Historian Machine Edition) to a plant-wide system (FactoryTalk Historian Site Edition). It can also extend across your global enterprise using Rockwell's Global Enterprise Historian Strategy. Powerful reporting and trending tools provide critical insight into performance parameters and are available at high speed and full resolution for any control system or human-machine interface (HMI) software.

FactoryTalk® Historian - Subscription - (Rockwell Automation)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

- FactoryTalk Historian SE Tags provided in 1000 Tag allotments creating greater flexibility for your requirement
- FactoryTalk Historian SE Advance server option provides data access to the Historian server (OLEDB/ODBC, OPC DA/HAD, and Web Services API) for 3rd party client applications.

FactoryTalk® Historian Site Edition - Recommended Products

FactoryTalk® Historian Site Edition, 2K 3rd Party Tag Add On Subscription

Item Description	Item Type	Catalogue No.	\$AU
FT Historian SE 2K 3rd Party Tag Add On 1Ysub 8X5 Support Elec	S	9518C-HSEAORT51	POA
FT Historian SE 2K 3rd Party Tag Add On 1Ysub 24X7 Support Elec	S	9518C-HSEAORT52	POA
FT Historian SE 5K 3rd Party Tag Add On 1Ysub 8X5 Support Elec	S	9518C-HSERT31	POA
FT Historian SE 5K 3rd Party Tag Add On 1Ysub 24X7 Support Elec	S	9518C-HSERT32	POA

FactoryTalk® Historian Site Edition, BatchView Client Subscription

Item Description	Item Type	Catalogue No.	\$AU
FT Historian SE Batchview Client 1Ysub 8X5 Support Elec	S	9518C-HSEAORT11	POA
FT Historian SE Batchview Client 1Ysub 24X7 Support Elec	S	9518C-HSEAORT12	POA

FactoryTalk® Historian Site Edition, OPC DA Interface Subscription

Item Description	Item Type	Catalogue No.	\$AU
FT Historian SE OPC DA Interface 1Ysub 8X5 Support Elec	S	9518C-HSEAORT71	POA
FT Historian SE OPC DA Interface 1Ysub 24X7 Support Elec	S	9518C-HSEAORT72	POA

FactoryTalk® Historian Site Edition, 5 Named User CAL Add On Subscription

Item Description	Item Type	Catalogue No.	\$AU
FT Historian SE 5 Named User Cal Add On 1Ysub 8X5 Support Elec	S	9518C-HSERT51	POA
FT Historian SE 5 Named User Cal Add On 1Ysub 24X7 Support Elec	S	9518C-HSERT52	POA

Pricing in this document is for informational purposes only. For pricing, please contact your NHP account manager or visit our portal under 'My Account'.

Information Software

Rockwell FactoryTalk® Asset Centre

FactoryTalk® AssetCentre - Perpetual with Maintenance - (Rockwell Automation)
 FactoryTalk® AssetCentre - Subscription - (Rockwell Automation)

Page 591

Page 592

FactoryTalk AssetCentre provides you the ability to;

- Secure access to the system
- Track detailed users' actions
- Automatically track firmware versions
- Manage historical versioning of any electronic file
- Provide automatic backup and compare operations on supported devices
- Add backup and compare plug-ins for 3rd party vendor devices
- Configure process instrumentation
- Manage instrumentation calibration schedules and certificates
- Asset Inventory Agent can connect with the Product Compatibility and Download Centre to show the latest life cycle status of your assets
- Adoption of Rockwell Automation system security strategy
- Extended support for Rockwell Automation assets
- Improved support for 3rd party assets
- Lifecycle status for I/O
- Disaster recovery for FactoryTalk View SE applications



FactoryTalk AssetCentre provides customers secured version control and archiving for their automation assets and documents.

Integrated audit and event logging provides granular details on changes within your automation system. FactoryTalk AssetCentre provides support for both Rockwell Automation and 3rd party assets making FactoryTalk AssetCentre a centralized management solution.

In addition, FactoryTalk AssetCentre can collect an asset list from your network and provides integrated life cycle management for those discovered Rockwell Automation assets.

FactoryTalk® AssetCentre - Perpetual with Maintenance - (Rockwell Automation)

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

FactoryTalk® AssetCentre Standard Edition

FactoryTalk AssetCentre Standard provides asset management and Disaster Recovery for both Rockwell and 3rd party automation assets. This package Includes a FactoryTalk AssetCentre server, Disaster Recovery for Rockwell Automation and 100 assets. Additional Add Ons can be purchased in the Recommended Products section. Microsoft SQL Server is required but not included. SQL Server media and license must be provided separately.

Item Description	Item Type	Catalogue No.	\$AU
FT Assetcentre Standard Perpetual Self Support Elec	S	9515M-FTACT10	POA
FT Assetcentre Standard Perpetual 8X5 Support Elec	S	9515M-FTACT11	POA
FT Assetcentre Standard Perpetual 24X7 Support Elec	S	9515M-FTACT12	POA

FactoryTalk® AssetCentre Base Edition

FactoryTalk AssetCentre Base provides base capabilities of Version Control, Security and audit logs. Additional capability can be added by purchasing from the Recommended Products section.

This package Includes a FactoryTalk AssetCentre server with 10 assets.

Microsoft SQL Server is required but not included. SQL Server media and license must be provided separately.

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Base Perpetual Self Support Elec	S	9515M-FTACT20	POA
FT AssetCentre Base Perpetual 8X5 Support Elec	S	9515M-FTACT21	POA
FT AssetCentre Base Perpetual 24X7 Support Elec	S	9515M-FTACT22	POA

FactoryTalk® AssetCentre - Recommended Products

FactoryTalk® AssetCentre, Assets Add On

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre 25 Assets Add On Perp Self Sup Elec	S	9515M-FTACRT90	POA
FT AssetCentre 25 Assets Add On Perp 8X5 Sup Elec	S	9515M-FTACRT91	POA
FT AssetCentre 25 Assets Add On Perp 24X7 Sup Elec	S	9515M-FTACRT92	POA
FT AssetCentre 100 Assets Add On Perp Self Sup Elec	S	9515M-FTACRT10	POA
FT AssetCentre 100 Assets Add On Perpetual 24X7 Support Elec	S	9515M-FTACRT11	POA
FT AssetCentre 100 Assets Add On Perpetual 8X5 Support Elec	S	9515M-FTACRT12	POA

FactoryTalk® AssetCentre, Inventory Agent

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Inventory Agent Perp Self Sup Elec	S	9515M-FTACRT70	POA
FT AssetCentre Inventory Agent Perp 8X5 Sup Elec	S	9515M-FTACRT71	POA
FT AssetCentre Inventory Agent Perp 24X7 Sup Elec	S	9515M-FTACRT72	POA

FactoryTalk® AssetCentre, 4 Additional Agent Groups

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre 4 Additional Agent Groups Perp Self Sup Elec	S	9515M-FTACRT80	POA
FT AssetCentre 4 Additional Agent Groups Perp 8X5 Sup Elec	S	9515M-FTACRT81	POA
FT AssetCentre 4 Additional Agent Groups Perp 24X7 Sup Elec	S	9515M-FTACRT82	POA

FactoryTalk® AssetCentre, Archive Management of Change

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Archive Management Of Change Perp Self Sup Elec	S	9515M-FTAC1RT10	POA
FT AssetCentre Archive Management Of Change Perp 8X5 Sup Elec	S	9515M-FTAC1RT11	POA
FT AssetCentre Archive Management Of Change Perp 24X7 Sup Elec	S	9515M-FTAC1RT12	POA

FactoryTalk® AssetCentre, Disaster Recovery - Rockwell Automation

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Disaster Recovery Rockwell Perp Self Sup Elec	S	9515M-FTACRT100	POA
FT AssetCentre Disaster Recovery Rockwell Perp 8X5 Sup Elec	S	9515M-FTACRT101	POA
FT AssetCentre Disaster Recovery Rockwell Perp 24X7 Sup Elec	S	9515M-FTACRT102	POA

FactoryTalk® AssetCentre, Disaster Recovery - Custom Plugin

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Disaster Recovery Custom Plugin Perp Self Sup Elec	S	9515M-FTACRT60	POA
FT AssetCentre Disaster Recovery Custom Plugin Perp 8X5 Sup Elec	S	9515M-FTACRT61	POA
FT AssetCentre Disaster Recovery Custom Plugin Perp 24X7 Sup Elec	S	9515M-FTACRT62	POA

FactoryTalk® AssetCentre, Disaster Recovery - Remote Computers

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Disaster Recovery Remote Comp Perp Self Sup Elec	S	9515M-FTACRT20	POA
FT AssetCentre Disaster Recovery Remote Comp Perp 8X5 Sup Elec	S	9515M-FTACRT21	POA
FT AssetCentre Disaster Recovery Remote Comp Perp 24X7 Sup Elec	S	9515M-FTACRT22	POA

FactoryTalk® AssetCentre - Subscription - (Rockwell Automation)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

FactoryTalk® AssetCentre Standard Edition

FactoryTalk AssetCentre Standard provides asset management and Disaster Recovery for both Rockwell and 3rd party automation assets. This package Includes a FactoryTalk AssetCentre server, Disaster Recovery for Rockwell Automation and 100 assets. Additional Add Ons can be purchased in the Recommended Products section. Microsoft SQL Server is required but not included. SQL Server media and license must be provided separately.

Item Description	Item Type	Catalogue No.	\$AU
FT Assetcentre Standard Edition 1Ysub 8X5 Support Elec	S	9515C-FTACT11	POA
FT Assetcentre Standard Edition 1Ysub 24X7 Support Elec	S	9515C-FTACT12	POA

FactoryTalk® AssetCentre Base Edition

FactoryTalk AssetCentre Base provides base capabilities of Version Control, Security and audit logs. Additional capability can be added by purchasing from the Recommended Products section.

This package Includes a FactoryTalk AssetCentre server with 10 assets.

Microsoft SQL Server is required but not included. SQL Server media and license must be provided separately.

FT AssetCentre Base Edition 1Ysub 8X5 Support Elec

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Base Edition 1Ysub 8X5 Support Elec	S	9515CFTACT21	POA
FT AssetCentre Base Edition 1Ysub 24X7 Support Elec	S	9515CFTACT22	POA

FactoryTalk® AssetCentre - Recommended Products

FactoryTalk® AssetCentre, Assets Add On

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre 25 Assets Add On 1Ysub 8X5 Sup Elec	S	9515C-FTACRT91	POA
FT AssetCentre 25 Assets Add On 1Ysub 24X7 Sup Elec	S	9515C-FTACRT92	POA
FT AssetCentre 100 Assets 1Ysub 8X5 Support Elec	S	9515C-FTACRT11	POA
FT AssetCentre 100 Assets Add On 1Ysub 24X7 Sup Elec	S	9515C-FTACRT12	POA

FactoryTalk® AssetCentre, Inventory Agent

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Inventory Agent 1Ysub 8X5 Sup Elec	S	9515C-FTACRT71	POA
FT AssetCentre Inventory Agent 1Ysub 24X7 Sup Elec	S	9515C-FTACRT72	POA

FactoryTalk® AssetCentre, 4 Additional Agent Groups

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre 4 Additional Agent Groups 1Ysub 8X5 Sup Elec	S	9515C-FTACRT81	POA
FT AssetCentre 4 Additional Agent Groups 1Ysub 24X7 Sup Elec	S	9515C-FTACRT82	POA

FactoryTalk® AssetCentre, Archive Management of Change

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Archive Management Of Change 1Ysub 8X5 Sup Elec	S	9515C-FTAC1RT11	POA
FT AssetCentre Archive Management Of Change 1Ysub 24X7 Sup Elec	S	9515C-FTAC1RT12	POA

FactoryTalk® AssetCentre, Disaster Recovery - Rockwell Automation

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Disaster Recovery Rockwell 1Ysub 8X5 Sup Elec	S	9515C-FTACRT101	POA
FT AssetCentre Disaster Recovery Rockwell 1Ysub 24X7 Sup Elec	S	9515C-FTACRT102	POA

FactoryTalk® AssetCentre, Disaster Recovery - Custom Plugin

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Disaster Recovery Custom Plugin 1Ysub 8X5 Sup Elec	S	9515C-FTACRT61	POA
FT AssetCentre Disaster Recovery Custom Plugin 1Ysub 24X7 Sup Elec	S	9515C-FTACRT62	POA

FactoryTalk® AssetCentre, Disaster Recovery - Remote Computers

Item Description	Item Type	Catalogue No.	\$AU
FT AssetCentre Disaster Recovery Remote Comp 1Ysub 8X5 Sup Elec	S	9515C-FTACRT21	POA
FT AssetCentre Disaster Recovery Remote Comp 1Ysub 24X7 Sup Elec	S	9515C-FTACRT22	POA

Information Software

Rockwell FactoryTalk® Metrics

FactoryTalk® Metrics - Perpetual with Maintenance - (Rockwell Automation)

Page 594

FactoryTalk® Metrics - Subscription - (Rockwell Automation)

Page 594



- **Increase production capacity** - More product, revenue, and profit in the same amount of time
- **Decrease manufacturing costs** - Less overtime, reduced labor costs, lower per-unit costs
- **Defer capital expenditures** - Make your current equipment produce more
- **Decrease overhead costs** - Eliminate manual data collection and report preparation
- **Empower continuous improvement** - Automatic data collection more focused on improvement

FactoryTalk® Metrics monitors plant-floor equipment and provides accurate, timely, granular, and specific information both on current machine performance, as well as providing detailed workcell/line/area/site historical data for long-term analysis. This data is the basis for understanding the real causes of inefficiency, waste, and lost capacity, and empowers plant personnel to make informed decisions around optimising assets within a production facility or across a manufacturing enterprise.

FactoryTalk® Metrics - Perpetual with Maintenance - (Rockwell Automation)

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

FactoryTalk® Metrics 5 Workcell

License for configuring up to 5 workcells. Includes one named user Authoring Client for system configuration and unlimited runtime clients. Microsoft SQL Server 2012 or 2016 and SQL Server Reporting Services is required but not included. SQL Server media and license must be provided separately.

Item Description	Item Type	Catalogue No.	\$AU
FT Metrics 5 Workcell Perpetual Self Support Elec	S	9358M-FTMT10	POA
FT Metrics 5 Workcell Perpetual 8X5 Support Elec	S	9358M-FTMT11	POA
FT Metrics 5 Workcell Perpetual 24X7 Support Elec	S	9358M-FTMT12	POA

FactoryTalk® Metrics 5 Workcell Add Ons

Add workcell capacity in increments of 5 to base FactoryTalk Metrics package. Quantity discount applies. Does not include Authoring Client.

Item Description	Item Type	Catalogue No.	\$AU
FT Metrics 5 Workcell Add On Perpetual Self Support Elec	S	9358M-FTMRT10	POA
FT Metrics 5 Workcell Add On Perpetual 8X5 Support Elec	S	9358M-FTMRT11	POA
FT Metrics 5 Workcell Add On Perpetual 24X7 Support Elec	S	9358M-FTMRT12	POA

FactoryTalk® Metrics Authoring Client Add On

One additional named user Authoring Client license for system configuration.

Item Description	Item Type	Catalogue No.	\$AU
FT Metrics Authoring Client Addon Perpetual Self Support Elec	S	9358M-FTMRT20	POA
FT Metrics Authoring Client Addon Perpetual 8X5 Support Elec	S	9358M-FTMRT21	POA
FT Metrics Authoring Client Addon Perpetual 24X7 Support Elec	S	9358M-FTMRT22	POA

FactoryTalk® Metrics - Subscription - (Rockwell Automation)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

FactoryTalk® Metrics Workcell

License for configuring up to 5 workcells. Includes one named user Authoring Client for system configuration and unlimited runtime clients. Microsoft SQL Server 2012 or 2016 and SQL Server Reporting Services is required but not included. SQL Server media and license must be provided separately.

Item Description	Item Type	Catalogue No.	\$AU
Ft Metrics 5 Workcell 1Ysub 8X5 Support Elec	S	9358C-FTMT11	POA
Ft Metrics 5 Workcell 1Ysub 24X7 Support Elec	S	9358C-FTMT12	POA

FactoryTalk® Metrics Add Ons

Add workcell capacity in increments of 5 to base FactoryTalk Metrics package. Quantity discount applies. Does not include Authoring Client.

Item Description	Item Type	Catalogue No.	\$AU
Ft Metrics 5 Workcell Add On 1Ysub 8X5 Support Elec	S	9358C-FTMRT11	POA
Ft Metrics 5 Workcell Add On 1Ysub 24X7 Support Elec	S	9358C-FTMRT12	POA

FactoryTalk® Metrics Authoring Client Add On

One additional named user Authoring Client license for system configuration.

Item Description	Item Type	Catalogue No.	\$AU
FT Metrics Authoring Client Add On 1Ysub 8X5 Support Elec	S	9358C-FTMRT21	POA
FT Metrics Authoring Client Add On 1Ysub 24X7 Support Elec	S	9358C-FTMRT22	POA

Information Software

Rockwell FactoryTalk® Batch

FactoryTalk® Batch - Perpetual with Maintenance - (Rockwell Automation)

Page 596

FactoryTalk® Batch - Subscription - (Rockwell Automation)

Page 597



- Sharing resources, maximizing use of expensive equipment or quickly switching equipment in the case of a failure.
- Visualizing and developing complex recipe structures in a graphical sequential function chart format using the recipe editor.
- Reducing the number of recipes required by using class-based recipes.
- Automatically recording all actions that FactoryTalk Batch monitors and controls, allowing full recovery and system redundancy in the event of a control system failure.
- Supporting 21 CFR Part 11 compliance with comprehensive electronic signatures.
- Streamlining electronic signature setup and maintenance through signature templates.

FactoryTalk® Batch provides efficient, predictable batch processing, consistency between batches, and generation of event information during batch runs. FactoryTalk® Batch process management lets you reuse code, recipes, phases, and logic between processes with similar procedures. FactoryTalk® Batch brings all facets of batch automation and process management together, providing the most comprehensive batch management software available.

FactoryTalk® Batch - Perpetual with Maintenance - (Rockwell Automation)

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

FactoryTalk® Batch Server

FactoryTalk Batch activations for FactoryTalk Batch Server, FactoryTalk eProcedure Server, and FactoryTalk MaterialTrack server.

Licenses for additional units are available.

Unit licenses are cumulative

Item Description	Item Type	Catalogue No.	\$AU
Ft Batch Server 1 Unit Perpetual Self Support Elec	S	9358M-FTBT10	POA
Ft Batch Server 1 Unit Perpetual 8X5 Support Elec	S	9358M-FTBT11	POA
Ft Batch Server 1 Unit Perpetual 24X7 Support Elec	S	9358M-FTBT12	POA
Ft Batch Server 3 Unit Perpetual Self Support Elec	S	9358M-FTBT50	POA
Ft Batch Server 3 Unit Perpetual 8X5 Support Elec	S	9358M-FTBT51	POA
Ft Batch Server 3 Unit Perpetual 24X7 Support Elec	S	9358M-FTBT52	POA
Ft Batch Server 10 Unit Perpetual Self Support Elec	S	9358M-FTBT20	POA
Ft Batch Server 10 Unit Perpetual 8X5 Support Elec	S	9358M-FTBT21	POA
Ft Batch Server 10 Unit Perpetual 24X7 Support Elec	S	9358M-FTBT22	POA
Ft Batch Server 30 Unit Perpetual Self Support Elec	S	9358M-FTBT60	POA
Ft Batch Server 30 Unit Perpetual 8X5 Support Elec	S	9358M-FTBT61	POA
Ft Batch Server 30 Unit Perpetual 24X7 Support Elec	S	9358M-FTBT62	POA
Ft Batch Server 60 Unit Perpetual Self Support Elec	S	9358M-FTBT30	POA
Ft Batch Server 60 Unit Perpetual 8X5 Support Elec	S	9358M-FTBT31	POA
Ft Batch Server 60 Unit Perpetual 24X7 Support Elec	S	9358M-FTBT32	POA

FactoryTalk® Batch View Standard

FactoryTalk Batch View mobility license enables users to access and control FactoryTalk Batch recipes from any device.

Each license enables one concurrent user to access FactoryTalk Batch from a remote browser.

User licenses are cumulative and one license is required for each concurrent user accessing the system.

Item Description	Item Type	Catalogue No.	\$AU
Ft Batch View Standard Perpetual Self Support Elec	S	9358M-FTBT40	POA
Ft Batch View Standard Perpetual 8X5 Support Elec	S	9358M-FTBT41	POA
Ft Batch View Standard Perpetual 24X7 Support Elec	S	9358M-FTBT42	POA

FactoryTalk® Batch eProcedure

FactoryTalk Batch eProcedure, activations for FactoryTalk eProcedure Server.
 Licenses for additional units are available. Unit licenses are cumulative.

Item Description	Item Type	Catalogue No.	\$AU
FT Batch eProcedure, 3 unit Perp Self Support Elec	S	9358M-FTBEPT10	POA
FT Batch eProcedure, 3 unit Perp 8X5 Support Elec	S	9358M-FTBEPT11	POA
FT Batch eProcedure, 3 unit Perp 24X7 Support Elec	S	9358M-FTBEPT12	POA
FT Batch eProcedure, 10 unit Perp Self Support Elec	S	9358M-FTBEPT20	POA
FT Batch eProcedure, 10 unit Perp 8X5 Support Elec	S	9358M-FTBEPT21	POA
FT Batch eProcedure, 10 unit Perp 24X7 Support Elec	S	9358M-FTBEPT22	POA
FT Batch eProcedure, 30 unit Perp Self Support Elec	S	9358M-FTBEPT30	POA
FT Batch eProcedure, 30 unit Perp 8X5 Support Elec	S	9358M-FTBEPT31	POA
FT Batch eProcedure, 30 unit Perp 24X7 Support Elec	S	9358M-FTBEPT32	POA
FT Batch eProcedure, 60 unit Perp Self Support Elec	S	9358M-FTBEPT40	POA
FT Batch eProcedure, 60 unit Perp 8X5 Support Elec	S	9358M-FTBEPT41	POA
FT Batch eProcedure, 60 unit Perp 24X7 Support Elec	S	9358M-FTBEPT42	POA

FactoryTalk® Batch, Backup Key

The Batch Back-up key allows a backup server to be configured as a warm backup to a primary batch server. (Unit count must match)

Item Description	Item Type	Catalogue No.	\$AU
FT Batch Backup Key 1 Unit Perpetual Self Support Elec	S	9358M-FTBRT10	POA
FT Batch Backup Key 1 Unit Perpetual 8X5 Support Elec	S	9358M-FTBRT11	POA
FT Batch Backup Key 1 Unit Perpetual 24X7 Support Elec	S	9358M-FTBRT12	POA
FT Batch Backup Key 3 Unit Perpetual Self Support Elec	S	9358M-FTBRT40	POA
FT Batch Backup Key 3 Unit Perpetual 8X5 Support Elec	S	9358M-FTBRT41	POA
FT Batch Backup Key 3 Unit Perpetual 24X7 Support Elec	S	9358M-FTBRT42	POA
FT Batch Backup Key 10 Unit Perpetual Self Support Elec	S	9358M-FTBRT20	POA
FT Batch Backup Key 10 Unit Perpetual 8X5 Support Elec	S	9358M-FTBRT21	POA
FT Batch Backup Key 10 Unit Perpetual 24X7 Support Elec	S	9358M-FTBRT22	POA
FT Batch Backup Key 30 Unit Perpetual Self Support Elec	S	9358M-FTBRT50	POA
FT Batch Backup Key 30 Unit Perpetual 8X5 Support Elec	S	9358M-FTBRT51	POA
FT Batch Backup Key 30 Unit Perpetual 24X7 Support Elec	S	9358M-FTBRT52	POA
FT Batch Backup Key 60 Unit Perpetual Self Support Elec	S	9358M-FTBRT30	POA
FT Batch Backup Key 60 Unit Perpetual 8X5 Support Elec	S	9358M-FTBRT31	POA
FT Batch Backup Key 60 Unit Perpetual 24X7 Support Elec	S	9358M-FTBRT32	POA

FactoryTalk® Batch - Subscription - (Rockwell Automation)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

FactoryTalk® Batch Server

FactoryTalk Batch activations for FactoryTalk Batch Server, FactoryTalk eProcedure Server, and FactoryTalk MaterialTrack server.
 Licenses for additional units are available.
 Unit licenses are cumulative

Item Description	Item Type	Catalogue No.	\$AU
Ft Batch Server 1 Unit 1Ysub 8X5 Support Elec	S	9358C-FTBT11	POA
Ft Batch Server 1 Unit 1Ysub 24X7 Support Elec	S	9358C-FTBT12	POA
Ft Batch Server 10 Unit 1Ysub 8X5 Support Elec	S	9358C-FTBT21	POA
Ft Batch Server 10 Unit 1Ysub 24X7 Support Elec	S	9358C-FTBT22	POA
Ft Batch Server 60 Unit 1Ysub 8X5 Support Elec	S	9358C-FTBT31	POA
Ft Batch Server 60 Unit 1Ysub 24X7 Support Elec	S	9358C-FTBT32	POA

FactoryTalk® Batch View Standard

FactoryTalk Batch View mobility license enables users to access and control FactoryTalk Batch recipes from any device.
 Each license enables one concurrent user to access FactoryTalk Batch from a remote browser.
 User licenses are cumulative and one license is required for each concurrent user accessing the system.

Item Description	Item Type	Catalogue No.	\$AU
Ft Batch View Standard 1Ysub 8X5 Support Elec	S	9358C-FTBT41	POA
Ft Batch View Standard 1Ysub 24X7 Support Elec	S	9358C-FTBT42	POA

FactoryTalk® Batch eProcedure

FactoryTalk Batch eProcedure, activations for FactoryTalk eProcedure Server.
 Licenses for additional units are available. Unit licenses are cumulative.

Item Description	Item Type	Catalogue No.	\$AU
FT Batch eProcedure, 3 unit 1YSub 8X5 Support Elec	S	9358C-FTBEPT11	POA
FT Batch eProcedure, 3 unit 1YSub 24X7 Support Elec	S	9358C-FTBEPT12	POA
FT Batch eProcedure, 10 unit 1YSub 8X5 Support Elec	S	9358C-FTBEPT21	POA
FT Batch eProcedure, 10 unit 1YSub 24X7 Support Elec	S	9358C-FTBEPT22	POA
FT Batch eProcedure, 30 unit 1YSub 8X5 Support Elec	S	9358C-FTBEPT31	POA
FT Batch eProcedure, 30 unit 1YSub 24X7 Support Elec	S	9358C-FTBEPT32	POA
FT Batch eProcedure, 60 unit 1YSub 8X5 Support Elec	S	9358C-FTBEPT41	POA
FT Batch eProcedure, 60 unit 1YSub 24X7 Support Elec	S	9358C-FTBEPT42	POA

FactoryTalk® Batch, Backup Key

The Batch Back-up key allows a backup server to be configured as a warm backup to a primary batch server (Unit count must match)

Item Description	Item Type	Catalogue No.	\$AU
FT Batch Backup Key 1 Unit 1Ysub 8X5 Support Elec	S	9358C-FTBRT11	POA
FT Batch Backup Key 1 Unit 1Ysub 24X7 Support Elec	S	9358C-FTBRT12	POA
FT Batch Backup Key 3 Unit 1Ysub 8X5 Support Elec	S	9358C-FTBRT41	POA
FT Batch Backup Key 3 Unit 1Ysub 24X7 Support Elec	S	9358C-FTBRT42	POA
FT Batch Backup Key 10 Unit 1Ysub 8X5 Support Elec	S	9358C-FTBRT21	POA
FT Batch Backup Key 10 Unit 1Ysub 24X7 Support Elec	S	9358C-FTBRT22	POA
FT Batch Backup Key 30 Unit 1Ysub 8X5 Support Elec	S	9358C-FTBRT51	POA
FT Batch Backup Key 30 Unit 1Ysub 24X7 Support Elec	S	9358C-FTBRT52	POA
FT Batch Backup Key 60 Unit 1Ysub 8X5 Support Elec	S	9358C-FTBRT31	POA
FT Batch Backup Key 60 Unit 1Ysub 24X7 Support Elec	S	9358C-FTBRT32	POA

Pricing in this document is invalid – for pricing and availability please access the NHP Customer portal under 'My Account'

Information Software

Rockwell FactoryTalk® Craft Brew - (Rockwell Automation eCommerce Portal)

- Access real-time data on the brewing processes
- Compare performance across plants
- Manage energy consumption
- Scale production quickly

FactoryTalk Brew - Craft System provides a complete automation system for craft brewers. It is designed to meet craft brewers' needs. Easily configurable brewhouse automation system includes Milling, Mash, Lauter, Kettle, Liquor System, Filtration, Maturation/Conditioning, Storage, and Fermentation. Provides access critical brewing process information from any location and can be adapted to changing production requirements.



FactoryTalk® Craft Brew - Subscription - (Rockwell Automation)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

FactoryTalk® Craft Brew Standard Subscription

FactoryTalk Brew - Craft Brew is a Standard application for Brewhouse and Cellar which supports standard process units such as Mash Tuns, Lauter Tuns, Brew Kettles, and Whirlpools as well as combination units such as MashLauters, KettleWhirlpools, MashKettles, MashWhirlpools, MashKettleWhirlpools.

This flexibility allows support for any 4 tank, 3 tank, or 2 tank brewhouses.

Item Description	Item Type	Catalogue No.	\$AU
Ft Craft Brew Standard 1Ysub 8X5 Support Elec	S	9528C-FTCBT11	POA

Visualisation Software

Rockwell Visualisation Software

FactoryTalk® View Studio Enterprise	Page 600
FactoryTalk® View Site Edition (SE)	Page 601
FactoryTalk® View Machine Edition (ME)	Page 604



- Scalable Architecture from single station HMI to multi-client / multi-server system
- Built-in library of over 5000 pre-designed graphical symbols
- Reduce design and commissioning time by defining tags and graphics displays once and reference them throughout the application
- FactoryTalk ViewPoint extends a FactoryTalk View HMI application to a web-browser interface for access from home, on the road, in the air—wherever you can get an internet connection
- Support for both ActiveX® and OPC technologies
- Optimise plant communication with FactoryTalk Live Data and premier connectivity to Rockwell Automation controllers, this will allow you to share data and integrate seamlessly with other FactoryTalk enabled products for quicker system deployment
- Streamline HMI development with a common editor for FactoryTalk View ME (Machine Edition) and SE (Site Edition)
- Define tags and graphics displays once and reference them throughout the application

FactoryTalk View provides robust and reliable functionality in an HMI solution that scales from a stand-alone, machine-level HMI to a distributed visualisation solution. With FactoryTalk View, HMI challenges in process, batch and discrete applications are managed in a single software package that extends beyond the walls of your facility to deliver critical visibility on demand, improving the productivity of users at every level of your organisation.

Product Selection

- FactoryTalk View Studio - configuration software for developing and testing HMI applications
- FactoryTalk View ME Station - a traditional "stand-alone" HMI solution that provides an integrated operator interface that runs the same HMI application on PanelView™ Plus 7, PanelView™ Plus 6, MobileView™ terminal, and Rockwell Automation Industrial Computers

FactoryTalk® View Studio Enterprise

FactoryTalk® View Studio is configuration software for developing and testing supervisory-level and machine-level human-machine interface (HMI) applications.

FactoryTalk® View Studio ME and SE have been specifically designed with a common look, feel, and navigation to help speed HMI application development and training time. FactoryTalk® View is part of the scalable and unified suite of monitoring and control solutions designed to span stand-alone machine-level applications up through supervisory-level HMI applications across a network.

This suite offers you a common development environment, application reuse, and architecture so you can increase productivity, reduce operation costs, and improve quality machine-level human-machine interface (HMI) applications.

- Scalable Architecture from single station HMI to multi-client/multi-server system
- Define tags once in the Logix controller, then access them throughout your system
- Fast and reliable access to data in the Logix family of controllers
- Common development environment provides application framework for managing / editing machine-level up to distributed applications
- Reduce the overall maintenance effort and the probability of introducing errors with global objects, pre-engineered faceplates, and tagless HMI servers
- Extended visualisation and real-time decision capabilities to web-enabled users

FactoryTalk® View Studio for Machine Edition

Configuration software for machine level HMI applications running on PanelView Plus 6/7 or FactoryTalk View ME Station.

FactoryTalk® View Studio for ME – Perpetual – (Rockwell Automation Ecommerce Portal)

Item Description	Item Type	Catalogue No.	\$AU
FT View Studio for ME Perpetual Self Support Elec	S	9701M-VWSTNMRT10	POA
FT View Studio for ME Perpetual 8x5 Elec	S	9701M-VWSTNMRT11	POA
FT View Studio for ME Perpetual 24x7 Elec	S	9701M-VWSTNMRT12	POA

FactoryTalk® View Studio for ME – Subscription – (Rockwell Automation Ecommerce Portal)

Item Description	Item Type	Catalogue No.	\$AU
FT View Studio for ME 1ysub 8x5 Support Elec	S	9701C-VWSTNMRT11	POA
FT View Studio for ME 1ysub 24x7 Support Elec	S	9701C-VWSTNMRT12	POA



**Click here to access the
Rockwell Automation E-Commerce portal**

E1_dADVE-S02

FactoryTalk® View Studio Enterprise

Configuration software for developing and testing both FactoryTalk View SE and FactoryTalk View ME HMI applications.

FactoryTalk® View Studio Enterprise – Perpetual – (Rockwell Automation Ecommerce Portal)

Item Description	Item Type	Catalogue No.	\$AU
FT View SE Studio Enterprise Perpetual Self Support ELEC	S	9701M-VWSSPT30	POA
FT View SE Studio Enterprise Perpetual 8X5 Support ELEC	S	9701M-VWSSPT31	POA
FT View SE Studio Enterprise Perpetual 24X7 Support ELEC	S	9701M-VWSSPT32	POA

FactoryTalk® View Studio Enterprise – Subscription – (Rockwell Automation Ecommerce Portal)

Item Description	Item Type	Catalogue No.	\$AU
FT View SE Studio Enterprise 1YSUB 8X5 Support ELEC	S	9701C-VWSSPT31	POA
FT View SE Studio Enterprise 1YSUB 24X7 Support ELEC	S	9701C-VWSSPT32	POA



**Click here to access the
Rockwell Automation E-Commerce portal**

E1_dADVE-S02

FactoryTalk® View Site Edition (SE)

To meet plant floor expectations, HMI software must meet the demands of multiple stakeholders.

- Engineering and Maintenance demand ways to quickly develop applications, scale architectures, and easily maintain systems once deployed.
- Operations demands easy to understand display screens, quick access to alarming, and system-wide diagnostics.
- Production Information Technology (IT) demands system-wide security, web capabilities, highly available systems and alignment with virtualized solutions.

FactoryTalk View Site Edition (SE) meets the demands of each of these groups, providing robust and reliable functionality in a single software package that scales from a stand-alone HMI system to a distributed visualization solution.

With FactoryTalk View SE, HMI challenges in process, batch and discrete applications are managed in a single software solution that enables critical visibility in real time when and where you need it.

Premier integration with Logix controllers

- No need to create and maintain a separate HMI tag database – define tags once in the Logix controller, then access them throughout your system.
- Referencing Logix controller tags directly from HMI displays provides optimized communications and display of data.
- Subscribe to Logix controller-based alarms to display, annunciate, and manage them in the HMI.
- Logix extended tag properties with translated text reside in the controller and can be accessed by the HMI, reducing duplication errors and streamlining project design.

Productivity

- Take advantage of rich, reusable graphics and animation capabilities with Symbol Factory graphic library, Global Objects, and Rockwell Automation Process Object Library faceplates.
- Integration with ThinManager software enables a single sign-in for operators by passing login credentials from ThinManager to FactoryTalk View SE clients.
- Application edits can be automatically rolled out to a running system.

Alarm configuration and management

- View and interact with alarm conditions throughout the architecture with easy-to-use graphical alarm objects.
- Categorize alarms into alarm groups to control how they are viewed, filtered, and annunciated.
- Align with ISA 18.2 alarm management standards with built-in alarm features.

Mobility

- Mobile HMI provides continuous system visibility anytime, anywhere.
- Extend your applications to your favorite iOS or Android mobile device for improved real-time decision making.
- Publish HMI screens as-is, or create mobile device-specific screens for better visibility on a smaller screen.
- Take a deeper dive and understand how FactoryTalk View SE can assist every part of your business today.

RSView32 to FactoryTalk View Modernization - It's Time to Make the Leap!

As much as we'd like good things to last forever, changes inevitably happen - especially when technology is involved. For some of you, RSView32 has been a cornerstone of your operational success for over two decades.

But, it's time for you to make the leap to FactoryTalk View!

Why, you ask? Because now, more than ever, we're all being asked to do more with less and we have to work smarter.

Modernizing your RSView32 HMI to FactoryTalk View will uniquely position you to bring engineering, maintenance, production IT and operations together to create new business value

- FactoryTalk View Studio: Configuration software for developing and testing HMI applications

- FactoryTalk View SE Server: HMI server that stores HMI project components and serves these components to clients.
- FactoryTalk View SE Client: Client software for viewing and interacting with supervisory-level applications developed using
- FactoryTalk View Studio.FactoryTalk View SE Station: Traditional “stand-alone” HMI solution that packages a server and client for use on a single computer.
- FactoryTalk ViewPoint: Web-based HMI expands access to plant-floor applications to users virtually anywhere

Engineering and Maintenance

Delivering tools to quickly develop applications, scale architectures, and easily maintain systems.

- Design and Time effectiveness
- Satisfying Validation Requirements
- Scalable Architecture to meet your needs

Operations

Delivering robust applications with easy to understand display screens, quick access to alarming, and systemwide diagnostics.

- Extensive Alarm Capabilities
- System wide Diagnostics
- Recipe Management

Production IT

Delivering system-wide security capabilities, web capabilities, and support for virtualization and high availability

- Stay secure
- Reduce Risk by Maintaining Visibility
- Step into the world of Virtualization

Extending Your HMI

Delivering anytime, anywhere access to contextualized manufacturing data for more informed, faster business decisions.

- Historical and trending data at your fingertips
- The Gateway to a wealth of information
- Make your HMI Mobile

FactoryTalk® View SE Station - Perpetual with Maintenance (RA Portal)

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract for FactoryTalk View SE. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT View SE Station 15 Display Perpetual Self Support Elec	S	9701M-VWSTNST50	POA
FT View SE Station 15 Display Perpetual 8X5 Support Elec	S	9701M-VWSTNST51	POA
FT View SE Station 15 Display Perpetual 24X7 Support Elec	S	9701M-VWSTNST52	POA
FT View SE Station 25 Display Perpetual Self Support Elec	S	9701M-VWSTNST40	POA
FT View SE Station 25 Display Perpetual 8X5 Support Elec	S	9701M-VWSTNST41	POA
FT View SE Station 25 Display Perpetual 24X7 Support Elec	S	9701M-VWSTNST42	POA
FT View SE Station 100 Display Perpetual Self Support Elec	S	9701M-VWSTNST30	POA
FT View SE Station 100 Display Perpetual 8X5 Support Elec	S	9701M-VWSTNST31	POA
FT View SE Station 100 Display Perpetual 24X7 Support Elec	S	9701M-VWSTNST32	POA
FT View SE Station 250 Display Perpetual Self Support Elec	S	9701M-VWSTNST20	POA
FT View SE Station 250 Display Perpetual 8X5 Support Elec	S	9701M-VWSTNST21	POA
FT View SE Station 250 Display Perpetual 24X7 Support Elec	S	9701M-VWSTNST22	POA
FT View SE Station Unlimited Display Perpetual Self Support Elec	S	9701M-VWSTNST10	POA
FT View SE Station Unlimited Display Perpetual 8X5 Support Elec	S	9701M-VWSTNST11	POA
FT View SE Station Unlimited Display Perpetual 24X7 Support Elec	S	9701M-VWSTNST12	POA

FactoryTalk® View SE Station - Subscription

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT View SE Station 15 Display 1Ysub 8X5 Support Elec	S	9701C-VWSTNST51	POA
FT View SE Station 15 Display 1Ysub 24X7 Support Elec	S	9701C-VWSTNST52	POA
FT View SE Station 25 Display 1Ysub 8X5 Support Elec	S	9701C-VWSTNST41	POA
FT View SE Station 25 Display 1Ysub 24X7 Support Elec	S	9701C-VWSTNST42	POA
FT View SE Station 100 Display 1Ysub 8X5 Support Elec	S	9701C-VWSTNST31	POA
FT View SE Station 100 Display 1Ysub 24X7 Support Elec	S	9701C-VWSTNST32	POA
FT View SE Station 250 Display 1Ysub 8X5 Support Elec	S	9701C-VWSTNST21	POA
FT View SE Station 250 Display 1Ysub 24X7 Support Elec	S	9701C-VWSTNST22	POA
FT View SE Station Unlimited Display 1Ysub 8X5 Support Elec	S	9701C-VWSTNST11	POA
FT View SE Station Unlimited Display 1Ysub 24X7 Support Elec	S	9701C-VWSTNST12	POA

FactoryTalk® View SE Client Bundle - Perpetual with Maintenance (RA Portal)

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract for FactoryTalk View SE. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

FactoryTalk® View SE 10 Client Bundle

Item Description	Item Type	Catalogue No.	\$AU
FT View SE 10 Client Bundle Perpetual Self Support ELEC	S	9701M-VWSSPT10	POA
FT View SE 10 Client Bundle Perpetual 8X5 Support ELEC	S	9701M-VWSSPT11	POA
FT View SE 10 Client Bundle Perpetual 24X7 Support ELEC	S	9701M-VWSSPT12	POA

FactoryTalk® View SE 25 Client Bundle

Item Description	Item Type	Catalogue No.	\$AU
FT View SE 25 Client Bundle Perpetual Self Support ELEC	S	9701M-VWSSPT20	POA
FT View SE 25 Client Bundle Perpetual 8X5 Support ELEC	S	9701M-VWSSPT21	POA
FT View SE 25 Client Bundle Perpetual 24X7 Support ELEC	S	9701M-VWSSPT22	POA

FactoryTalk® View SE Client Bundle - Subscription

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

FactoryTalk® View SE 10 Client Bundle

Item Description	Item Type	Catalogue No.	\$AU
FT View SE 10 Client Bundle 1YSUB 8X5 Support ELEC	S	9701C-VWSSPT11	POA
FT View SE 10 Client Bundle 1YSUB 24X7 Support ELEC	S	9701C-VWSSPT12	POA

FactoryTalk® View SE 25 Client Bundle

Item Description	Item Type	Catalogue No.	\$AU
FT View SE 25 Client Bundle 1YSUB 8X5 Support ELEC	S	9701C-VWSSPT21	POA
FT View SE 25 Client Bundle 1YSUB 24X7 Support ELEC	S	9701C-VWSSPT22	POA

FactoryTalk® View SE Server - Perpetual with Maintenance

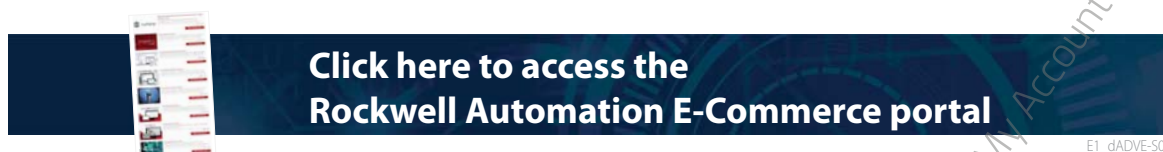
Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract for FactoryTalk View SE. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT View SE Server 25 Display Perpetual Self Support Elec	S	9701M-VWSDT40	POA
FT View SE Server 25 Display Perpetual 8X5 Support Elec	S	9701M-VWSDT41	POA
FT View SE Server 25 Display Perpetual 24X7 Support Elec	S	9701M-VWSDT42	POA
FT View SE Server 100 Display Perpetual Self Support Elec	S	9701M-VWSDT30	POA
FT View SE Server 100 Display Perpetual 8X5 Support Elec	S	9701M-VWSDT31	POA
FT View SE Server 100 Display Perpetual 24X7 Support Elec	S	9701M-VWSDT32	POA
FT View SE Server 250 Display Perpetual Self Support Elec	S	9701M-VWSDT20	POA
FT View SE Server 250 Display Perpetual 8X5 Support Elec	S	9701M-VWSDT21	POA
FT View SE Server 250 Display Perpetual 24X7 Support Elec	S	9701M-VWSDT22	POA
FT View SE Server Unlimited Display Perpetual Self Support Elec	S	9701M-VWSDT10	POA
FT View SE Server Unlimited Display Perpetual 8X5 Support Elec	S	9701M-VWSDT11	POA
FT View SE Server Unlimited Display Perpetual 24X7 Support Elec	S	9701M-VWSDT12	POA

FactoryTalk® View SE Server - Subscription (RA Portal)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT View SE Server 25 Display 1Ysub 8X5 Support Elec	S	9701C-VWSDT41	POA
FT View SE Server 25 Display 1Ysub 24X7 Support Elec	S	9701C-VWSDT42	POA
FT View SE Server 100 Display 1Ysub 8X5 Support Elec	S	9701C-VWSDT31	POA
FT View SE Server 100 Display 1Ysub 24X7 Support Elec	S	9701C-VWSDT32	POA
FT View SE Server 250 Display 1Ysub 8X5 Support Elec	S	9701C-VWSDT21	POA
FT View SE Server 250 Display 1Ysub 24X7 Support Elec	S	9701C-VWSDT22	POA
FT View SE Server Unlimited Display 1Ysub 8X5 Support Elec	S	9701C-VWSDT11	POA
FT View SE Server Unlimited Display 1Ysub 24X7 Support Elec	S	9701C-VWSDT12	POA



FactoryTalk® View Machine Edition (ME)

FactoryTalk® View ME Station - Perpetual with Maintenance

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract for FactoryTalk View SE. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT View ME Station 15 Display Perpetual Self Support Elec	S	9701M-VWSTNMT50	POA
FT View ME Station 15 Display Perpetual 8X5 Support Elec	S	9701M-VWSTNMT51	POA
FT View ME Station 15 Display Perpetual 24X7 Support Elec	S	9701M-VWSTNMT52	POA
FT View ME Station 30 Display Perpetual Self Support Elec	S	9701M-VWSTNMT40	POA
FT View ME Station 30 Display Perpetual 8X5 Support Elec	S	9701M-VWSTNMT41	POA
FT View ME Station 30 Display Perpetual 24X7 Support Elec	S	9701M-VWSTNMT42	POA
FT View ME Station 75 Display Perpetual Self Support Elec	S	9701M-VWSTNMT30	POA
FT View ME Station 75 Display Perpetual 8X5 Support Elec	S	9701M-VWSTNMT31	POA
FT View ME Station 75 Display Perpetual 24X7 Support Elec	S	9701M-VWSTNMT32	POA
FT View ME Station 250 Display Perpetual Self Support Elec	S	9701M-VWSTNMT20	POA
FT View ME Station 250 Display Perpetual 8X5 Support Elec	S	9701M-VWSTNMT21	POA
FT View ME Station 250 Display Perpetual 24X7 Support Elec	S	9701M-VWSTNMT22	POA
FT View ME Station 500 Display Perpetual Self Support Elec	S	9701M-VWSTNMT10	POA
FT View ME Station 500 Display Perpetual 8X5 Support Elec	S	9701M-VWSTNMT11	POA
FT View ME Station 500 Display Perpetual 24X7 Support Elec	S	9701M-VWSTNMT12	POA

FactoryTalk® View ME Station - Subscription (RA Portal)

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT View ME Station 15 Display 1Ysub 8X5 Support Elec	S	9701C-VWSTNMT51	POA
FT View ME Station 15 Display 1Ysub 24X7 Support Elec	S	9701C-VWSTNMT52	POA
FT View ME Station 30 Display 1Ysub 8X5 Support Elec	S	9701C-VWSTNMT41	POA
FT View ME Station 30 Display 1Ysub 24X7 Support Elec	S	9701C-VWSTNMT42	POA
FT View ME Station 75 Display 1Ysub 8X5 Support Elec	S	9701C-VWSTNMT31	POA
FT View ME Station 75 Display 1Ysub 24X7 Support Elec	S	9701C-VWSTNMT32	POA
FT View ME Station 250 Display 1Ysub 8X5 Support Elec	S	9701C-VWSTNMT21	POA
FT View ME Station 250 Display 1Ysub 24X7 Support Elec	S	9701C-VWSTNMT22	POA
FT View ME Station 500 Display 1Ysub 8X5 Support Elec	S	9701C-VWSTNMT11	POA
FT View ME Station 500 Display 1Ysub 24X7 Support Elec	S	9701C-VWSTNMT12	POA



Pricing in this document is not intended to be used for pricing. Please access the NHP customer portal under 'My Account'.

The new industrial standard

ThinManager allows unprecedented control and security in a sustainable and scalable platform regardless of the size of your industrial environment or number of facilities. ThinManager's thin client architecture allows for deployment of less expensive hardware while giving users the applications and tools familiar to them in a format that reduces management and maintenance costs while increasing security.

ThinManager Delivers

ThinManager allows you to easily manage the configuration of enduser terminals and the delivery of all of your centralized applications and content to those terminals.

Ease of Use

ThinManager's wizard-based configuration allows administrators to easily set up advanced functionality for end-user devices such as PCs, thin clients and mobile devices. ThinManager also makes it easy to customize the content delivered to the terminal based on who is logged in and what role they play in your work environment.

A Complete Solution

ThinManager is the only platform that manages both the server side and the terminal side of modern computer networks offering full server failover and redundancy options to keep your resources in an "always on" state, reducing downtime and lowering your Total Cost of Ownership.

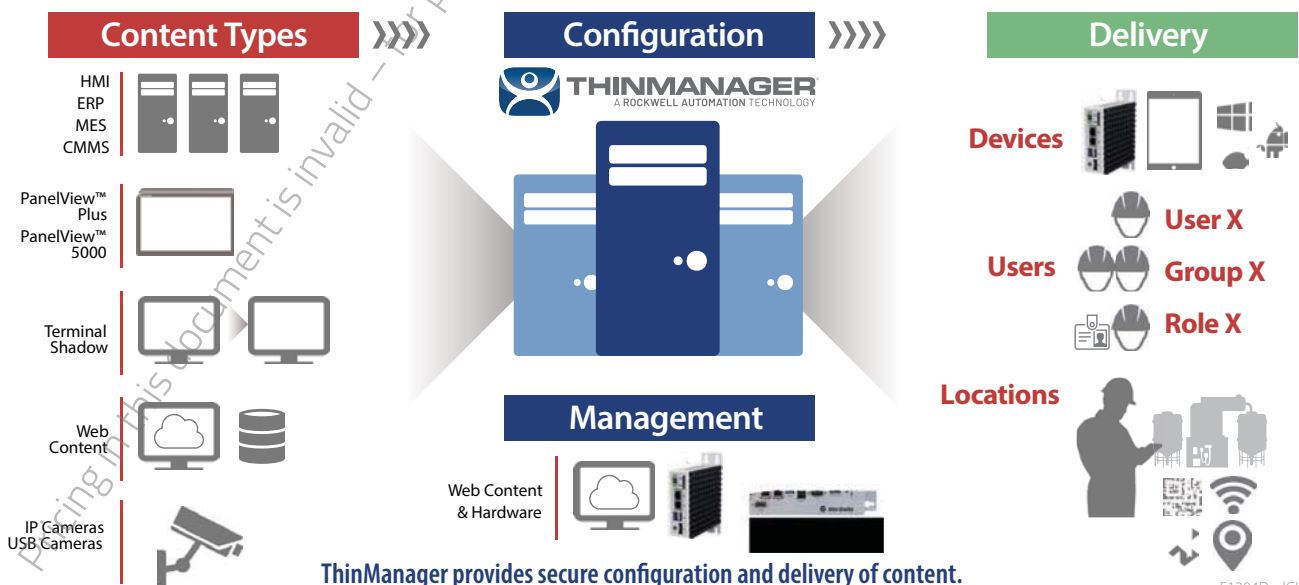


Simplified delivery of centralized applications and information to virtually any device, user or location.



Experience unparalleled flexibility for your industrial networks by centrally managing every thin client, PC and mobile device from one powerful software platform.

ThinManager - Secure Content Delivery and Device Management



Boost productivity

ThinManager provides a powerful set of tools that lets you focus on producing more with less downtime.

Downtime is the killer of productivity and profit. When it's your responsibility to make sure that product goes out the door, you don't have time to worry about managing the computers your workforce uses to get their jobs done.

ThinManager helps to take away the burden of spending too much time managing computers. Our systems provide the ease-of-use you need to ensure that all devices and users have exactly the tools they need to get their jobs done. By supporting industrial-grade thin clients, we offer our customers the longest lasting system on the market.

ThinManager also provides full redundancy and instant failover on the server side so that you keep all the components of your automation network running in high availability mode around the clock.

8



Configuration Wizards

Easily configure every server, terminal and user without writing any code.



Virtual Machine Support

Connect to VMware ESXi servers to manage and control the virtual machines from ThinManager.



VNC

VNC sources can be shadowed and deployed to any terminal including mobile devices.



Server and Terminal Grouping

Create terminal server groups and assign server groups with a single click.



Custom Variables

Add user-defined variables to terminals, users, and locations.



WinTMC

A client application that transforms a PC into a thin client terminal.



PXE Boot

Allows many common thin clients to become ThinManager capable thin clients.



CSV and HTML Reporting

Run reports that show the event log, configurations, uptimes, and other critical data.



Touchscreen Support

With ThinManager, it's easy to add a serial or USB touchscreen terminal.

Enhance Visualisation

Centralized management of applications and visual sources, all from a single user interface.

Modern automation is all about visualization. There are many different applications that you rely on to keep your automation network up and running at peak performance. From the plant floor to the control room, it is imperative that you always be able to keep an eye on every aspect of production.

ThinManager not only excels at delivering your content where you need it, but also at presenting your content the way you want to view it. From multiple monitors, to IP and USB cameras, to shadowing every terminal on the network, ThinManager provides all the tools you need to make sure you have the ability to see every device and user operating in your automated environment.

With the new Virtual Screening ability, you can now customize the way you present applications and data from multiple sources. Design your view to meet all your needs without rewriting a single line of code. ThinManager also supports more touchscreens than any other platform. Changing drivers or calibrating screens is as simple as a few clicks.



MultiMonitor

Use up to 7 monitors from a single thin client. Supported hardware required.



Terminal-to-Terminal Shadowing

Allows a terminal to shadow another terminal without the ThinManager interface.



Virtual Keyboard

A simple "hold time" event allows operators to access the keyboard with the press of a finger.



Virtual Screens

Split any screen into multiple sections (up to 16) with custom sizing.



Shadowing

Shadowing allows an administrator or a user to view and/or operate a terminal.



4k Monitor

ThinManager supports high-resolution 3840x2160 4K monitors.



Session Tiling

View up to 25 sessions on a single monitor. Click any tile to launch a full screen working session.



Session Scaling

Scale sessions up or down to fit a screen keeping the same aspect ratio or forcing it to fit.

E1204D_dCHRT-S02

Extend Security

Unprecedented control and security in a sustainable and scalable platform.

ThinManager has been about security from day one. No data is ever stored on ThinManager-Ready thin clients, PXE-boot thin clients or on mobile devices using Relevance®. By default, USB drives will not be accessible on a ThinManager network of devices. All communication between clients and servers, including mobile device communication, is encrypted to ensure your automation network is only available to authorized users.

ThinManager's support for Active Directory makes it a snap to set up users and groups in ThinManager while allowing you to keep Windows passwords obfuscated from end users. ThinManager also supports a wide range of authentication devices like Smart cards, RFID cards, fingerprint scanners and more. And, just like all other supported devices, ThinManager's configuration wizards allow administrators to easily enable these devices without writing a single line of code.

ThinManager's support for IP and USB camera overlays into your existing applications brings visual confirmation to any screen. This expanded view gives users the added safety and security of visually confirming what their applications are telling them.



Relevance for Users (TermSecure®)
Securely deliver content through user/role-based management.



Biometric Security
Use a fingerprint scanner to authenticate users safely and securely. *Supported hardware required.*



AppLink
Allows terminal servers to be configured to deliver individual applications instead of desktops.



Authenticated Email
Send emails from the ThinManager system directly to your authenticated email systems.



Active Directory
Synchronize your Active Directory to create ThinManager Relevance users.



IP and USB Camera
Give administrators and users the added security and visualization of IP and USB cameras.



TFTP
Make it easier to boot terminals in instances where there is a firewall between the terminals and their ThinServer.

Smart Mobility

Deliver the right content to the right person in the right place with ThinManager Relevance®.

Ready or not, mobility on the plant floor has arrived. Whether you use mobile devices today or plan on implementing a mobility solution down the road, you need to seek a solution from a proven vendor. You also need a solution that is secure.

ThinManager's Relevance mobility solution is the only location-based mobility solution available. Not only can Relevance deliver content when and where you need it, it can also prevent delivery of content to unauthorized locations and users.

Mobile devices bring the promise of a more free-flowing workspace where staff can move around freely to manage the automation environments for which they are responsible. Relevance uses location resolvers like QR codes, Bluetooth beacons, WiFi and GPS to ensure that mobile users and devices only receive content in authorized areas. Relevance easily supports the ability to set up geofences that prevent your important information from ever being delivered outside of authorized locations.



Relevance for Mobility
The ability to deliver the right content to the right person at the right time and place with location-based mobility.



iTMC
Transform an iPad into a full thin client terminal with iTMC. Download for free on the App Store.



Windows
Support for Windows devices running as thin clients with Windows 10 and newer.



Location Resolvers
Used in conjunction with Relevance, resolvers allow you to completely define your workspace as a location-based mobile facility.



Android TMC
Use an Android device as a full-blown thin client. Available as a free download on Google Play.



SMS Messaging
Important notifications can be sent directly to an employee's mobile device.

V-FLEX Licensing

Users now have the ability to purchase single ThinManager connection licenses that have no network or location restrictions and provide for bulk purchase discounts.

Deliver ThinManager client connections with maximum flexibility on an as-needed basis to any of your facilities around the world. ThinManager V-FLEX licensing is a single ThinManager XLr individual terminal connection license that can be purchased one at a time in any quantity and deployed over an unlimited number of ThinServer pairs (primary/backup) at an unlimited number of locations on multiple networks.

Advantages of a V-FLEX licensing package:

- Central management of ThinManager client connections.
- Use across multiple facilities—no limitations on the number of locations, networks and servers.
- Ability to purchase and add additional licenses only when and where they are needed with volume discount pricing.
- Access to a private ThinManager license server portal for creating and distributing licenses for use.

A customer has 3 facilities with the following terminal counts:

Facility A = 27, Facility B = 33, Facility C = 18

Total terminal count = 27 + 33 + 18 = 78.

78 terminal count falls into the 50-99 band which includes 8x5 Software Maintenance.

The customer decides to purchase 100 terminal connections instead. Now they have spare connections and receive the advantage of the next pricing band which qualifies for an increased volume discount. Adding Redundancy would be an additional cost based on the pricing band but would not increase initial or renewal Software Maintenance costs.

Since the licensing is V-FLEX, the customer can deploy specific quantities at specific locations on as many independent ThinManager instances as needed up to the total quantity of terminal connections purchased.

At the extreme, in this example, 100 terminal connections could be deployed across 100 independent facilities (1 each) running redundant ThinManager instances.

The annual 8x5 Software Maintenance renewal would be 20% of the base license price at the purchased pricing band. 24x7 Software Maintenance is available at 30% of the base license price. Please contact your ThinManager channel partner for pricing.



Atlanta, United States
27



Toronto, Canada
33



Mumbai, India
18

Single New V-FLEX Purchase = 100
Unrestricted Available V-FLEX = 22

The customer received a volume purchase discount and was able to deploy licenses in exact counts needed. Now they have 22 additional connection licenses that can be deployed across existing or new facilities without restriction.

E1204D_dCHRT-S04

Visualisation Software

Rockwell ThinManager Software

Benefits of the ThinManager® Platform

- Increases Productivity - Secure, centralised configuration and delivery of applications and content to every PC, thin client, mobile device and user
- Improves Visualisation - Customise multiple monitors and virtual screens
- Increases Security - No locally stored data, content delivered based on role and/or location
- Smart Mobility - Provides location-based mobility (exclusive mobile security)

ThinManager is a centralised device management and content delivery platform. With ThinManager, you can centrally manage devices like thin clients, mobile devices and PCs for the modern factory and office as well as define and deliver a number of flexible content sources to those managed devices.

ThinManager allows unprecedented control and security in a sustainable and scalable platform regardless of the size of your industrial environment or number of facilities. ThinManager's thin client architecture allows for deployment of less expensive hardware while giving users the applications and tools familiar to them in a format that reduces management and hardware costs while increasing security.

The ThinManager V-FLEX 1 license can be ordered in a specific quantity of terminal connections and split up as needed. A terminal can be a thin client, mobile device or a PC.

ThinManager Redundancy can be added as an option and enables you to install ThinManager on a secondary machine.

With Redundancy, the ThinManager configuration database can be automatically synchronised between the primary and secondary installations so that either can deliver ThinManager firmware and terminal configurations to your ThinManager managed devices.



Rockwell ThinManager Software - Perpetual with Maintenance

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract for ThinManager. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

Item Description	Item Type	Catalogue No.	\$AU
Thinmanager FTA 1 VFLEX Perpetual 8X5 Support ELEC	S	9541M-TMFT11	POA
Thinmanager FTA 1 VFLEX Perpetual 24X7 Support ELEC	S	9541M-TMFT12	POA
Thinmanager FTA 1 VFLEX Redundancy Perpetual ELEC	S	9541M-TMUT11	POA

Rockwell ThinManager Software - Subscription

ThinManager can now be licensed by annual subscription. Whether you choose FactoryTalk™ Activation or ThinManager Activation, we have you covered. If you have gotten on the bandwagon of paying annually for software, we can now accommodate you. This is the perfect option for any business that expects changes in the number of end-user seats needed year to year.

Item Description	Item Type	Catalogue No.	\$AU
Thinmanager FTA 1 VFLEX 1YSUB 8X5 Support ELEC	S	9541C-TMFT11	POA
Thinmanager FTA 1 VFLEX 1YSUB 24X7 Support ELEC	S	9541C-TMFT12	POA
Thinmanager FTA 1 VFLEX Redundancy 1YSUB ELEC	S	9541C-TMUT11	POA

ThinManager with VersaView Thin Clients

Rockwell's VersaView® Thin Clients exclusively integrate with ThinManager® software and are ideal for ThinManager distributed applications. The thin clients are used to display content delivered from a remote ThinManager server. You can have multiple thin clients set up across your plant or facility with various roles with the convenience of having them all maintained by the ThinManager server. All content remains on the server so downtime is reduced in the event of a failure.



VersaView 5200 Thin Clients

The VersaView 5200 thin clients work exclusively with ThinManager® software for centralized management solutions. Mounting options include wall, VESA mount, DIN Rail, bookshelf, and machine.

The VersaView 5200 Thin Clients are available with models supporting:

- Single Display
- Dual Display
- Dual 4k Display
- Multi 4k Display



VersaView 6300 Box Thin Clients

The VersaView® 6300T Box Thin Clients feature Intel Apollo Lake Atom processors, making them ideal for human machine interface (HMI), IIoT gateway and data logging applications. Atom class units are also available as ThinManager® ready thin clients to boot natively into ThinManager software with no solid-state drive (SSD) on board. These units have a fanless design making them optimal for applications requiring low maintenance, as well as multiple mounting methods to fit application needs.

The VersaView 6300 Thin Clients are available with models supporting:

- Single 4k Display

E1204D_dCHRT-S05

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under my account

Visualisation Software

FactoryTalk® ViewPoint Software

- Add-on to FactoryTalk® View SE and PanelView™ Plus,
- FactoryTalk ViewPoint delivers a rich, interactive experience
- Simplicity of standard browser navigation
- New degrees of access to critical FactoryTalk® View information all in a web browser
- Interact with an HMI application including read/write capabilities
- Thin-client configuration means no client software to install and maintain, lowering total cost of ownership.

FactoryTalk® ViewPoint is a thin-client solution for FactoryTalk View SE that adds the ability for FactoryTalk® View projects to be used in a web browser. A FactoryTalk® ViewPoint system includes the server, as well as the chosen number of concurrent client licenses. Client licenses are additive, to facilitate a total number of client licenses to suit any application.

FactoryTalk® ViewPoint Client

Enables FactoryTalk View SE client access in an HTML5 web browser. One client license enables a single web browser connection.

FactoryTalk® ViewPoint Client - Perpetual with Maintenance

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract for FactoryTalk View SE. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT Viewpoint Client Perpetual Self Support Elec	S	9701M-VWSDRT30	POA
FT Viewpoint Client Perpetual 8X5 Support Elec	S	9701M-VWSDRT31	POA
FT Viewpoint Client Perpetual 24X7 Support Elec	S	9701M-VWSDRT32	POA

FactoryTalk® ViewPoint Client - Subscription

Rockwell Automation offers Subscriptions licenses for Rockwell Automation Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

Item Description	Item Type	Catalogue No.	\$AU
FT Viewpoint Client 1Ysub 8X5 Support Elec	S	9701C-VWSDRT31	POA
FT Viewpoint Client 1Ysub 24X7 Support Elec	S	9701C-VWSDRT32	POA

Visualisation Software

FactoryTalk® VantagePoint Software



- All manufacturing data is accessible in real time and on any mobile device
- Create a logical model that organizes data in way that makes sense to your end users
- Connectivity to real-time data via FactoryTalk® Live Data and historical data via FactoryTalk Historian plus connectivity to other realtime and historical data sources
- Many ad hoc and advanced reporting options available enabling you to build a system perfectly tailored for your reporting needs
- Automatic report and email generation based upon configured events allow you to deliver timely data even when users are not logged into the system
- Role based report generation and model browsing allows you to ensure the right users are viewing the right data

FactoryTalk® VantagePoint EMI is a powerful web-based manufacturing business intelligence solution that integrates all data into a single information management and decision support system. Designed specifically for industrial environments with premier Logix integration, VantagePoint connects to your Logix controllers, OPC data sources, historians, and SQL / Oracle databases to deliver best in class manufacturing intelligence. Access your data from anywhere including your shop floor devices, PC, or your mobile phone or tablet in order to make smart decisions that increase your productivity from anywhere.

FactoryTalk® VantagePoint EMI Perpetual

Connect to any common plant floor device or system. Premier connectivity to real-time data via FactoryTalk Live Data (Logix, PLC/SLC™, FactoryTalk View, 3rd-party controllers, etc.) and historical data via FactoryTalk Historian PLUS connectivity to FactoryTalk Metrics, FactoryTalk ProductionCentre, FactoryTalk EnergyMetrix and other real-time and historical data sources. The base offering includes one server software download and 3 named user licenses

Item Description	Item Type	Catalogue No.	\$AU
FT Vantagepoint EMI Perpetual Self Support Elec	S	9521M-VPRT10	POA
FT Vantagepoint EMI Perpetual 8X5 Support Elec	S	9521M-VPRT11	POA
FT Vantagepoint EMI Perpetual 24X7 Support Elec	S	9521M-VPRT12	POA

FactoryTalk® VantagePoint - Recommended Products

FactoryTalk® VantagePoint Named User Perpetual

Named activations are assigned to specific users and not available in activation server pool even when the software is no longer running.

Item Description	Item Type	Catalogue No.	\$AU
FT Vantagepoint Named User Perpetual Self Support Elec	S	9521M-VPRT10	POA
FT Vantagepoint Named User Perpetual 8X5 Support Elec	S	9521M-VPRT11	POA
FT Vantagepoint Named User Perpetual 24X7 Support Elec	S	9521M-VPRT12	POA

FactoryTalk® VantagePoint Concurrent User Perpetual

Concurrent activations are automatically assigned to users then returned to the activation server pool when software is no longer running.

Item Description	Item Type	Catalogue No.	\$AU
FT Vantagepoint Concurrent User Perpetual Self Support Elec	S	9521M-VPRT20	POA
FT Vantagepoint Concurrent User Perpetual 8X5 Support Elec	S	9521M-VPRT21	POA
FT Vantagepoint Concurrent User Perpetual 24X7 Support Elec	S	9521M-VPRT22	POA

FactoryTalk® VantagePoint EMI 3rd-party Realtime Connector Perpetual

Licensed per connector instance. Available Connectors: OPC-DA.

Item Description	Item Type	Catalogue No.	\$AU
FT Vantagepoint 3rd Party Realtime Connectors Perpetual Self Support Elec	S	9521M-VPRT30	POA
FT Vantagepoint 3rd Party Realtime Connectors Perpetual 8X5 Support Elec	S	9521M-VPRT31	POA
FT Vantagepoint 3rd Party Realtime Connectors Perpetual 24X7 Support Elec	S	9521M-VPRT32	POA

FactoryTalk® VantagePoint EMI 3rd-Party Historian Connector Perpetual

Licensed per connector instance. Available Connectors: OPC-HDA, IndustrialSQL Server, OSI PI.

Item Description	Item Type	Catalogue No.	\$AU
FT Vantagepoint 3rd Party Historian Connectors Perpetual Self Support Elec	S	9521M-VPRT40	POA
FT Vantagepoint 3rd Party Historian Connectors Perpetual 8X5 Support Elec	S	9521M-VPRT41	POA
FT Vantagepoint 3rd Party Historian Connectors Perpetual 24X7 Support Elec	S	9521M-VPRT42	POA

FactoryTalk® VantagePoint EMI Database Connector Perpetual

Licensed per connector instance. Available Connectors: MS SQL Server, Oracle, OLEDB, ODBC. FactoryTalk VantagePoint EMI Server Only.

Item Description	Item Type	Catalogue No.	\$AU
FT Vantagepoint 3rd Party Database Connectors Perpetual Self Support Elec	S	9521M-VPRT50	POA
FT Vantagepoint 3rd Party Database Connectors Perpetual 8X5 Support Elec	S	9521M-VPRT51	POA
FT Vantagepoint 3rd Party Database Connectors Perpetual 24X7 Support Elec	S	9521M-VPRT52	POA

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Engineering Software

Studio 5000 Software

Studio 5000® Software - Perpetual with Maintenance - (Rockwell Automation)	Page 614
Studio 5000® Software - Subscription - (Rockwell Automation)	Page 615



- Flexible, easy-to-use editing features
- Powerful, time-saving features and functionality that reduce design time
- Common look-and-feel across multiple platforms
- Diagnostics and troubleshooting tools that help reduce commissioning time

The Studio 5000® environment combines engineering and design elements into one standard framework that enables optimized productivity and reduced commissioning time. With the Studio 5000 environment, you can respond more quickly to changing market and business needs, while reducing total costs of ownership, including maintenance and training. The Logix Designer activations provided by default activation version 20.05 and above. For older versions consider the RSLogix5000 Legacy Subscription or a Design Suite Toolkit.

Studio 5000® Software - Perpetual with Maintenance - (Rockwell Automation)

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract for Studio 5000 products. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

Studio 5000® Automation Engineering and Design Environment

The Studio 5000® Design Environment is a scalable application solution, used to program and configure any of the Logix5000™ family of controller products. Depending on the functionality required, one or more product catalog numbers might be needed to acquire the appropriate functionality. The Logix Designer activations provided by default activation version 20.05 and above. For older versions consider the RSLogix5000 Legacy Subscription or a Design Suite Toolkit.

Studio 5000® Mini

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Mini Perpetual Self Support ELEC	S	9324M-RLDT60	POA
Studio 5000 Mini Perpetual 8X5 Support ELEC	S	9324M-RLDT61	POA
Studio 5000 Mini Perpetual 24X7 Support ELEC	S	9324M-RLDT62	POA

Studio 5000® Lite

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Lite Perpetual Self Support ELEC	S	9324M-RLDT10	POA
Studio 5000 Lite Perpetual 8X5 Support ELEC	S	9324M-RLDT11	POA
Studio 5000 Lite Perpetual 24X7 Support ELEC	S	9324M-RLDT12	POA

Studio 5000® Standard

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Standard Perpetual Self Support ELEC	S	9324M-RLDT20	POA
Studio 5000 Standard Perpetual 8X5 Support ELEC	S	9324M-RLDT21	POA
Studio 5000 Standard Perpetual 24X7 Support ELEC	S	9324M-RLDT22	POA

Studio 5000® Standard with RSNetworkx

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 RSNetworkx Perpetual Self Support ELEC	S	9324M-RLDT70	POA
Studio 5000 RSNetworkx Perpetual 8X5 Support ELEC	S	9324M-RLDT71	POA
Studio 5000 RSNetworkx Perpetual 24X7 Support ELEC	S	9324M-RLDT72	POA

Studio 5000® Full

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Full Edition Perpetual Self Support ELEC	S	9324M-RLDT80	POA
Studio 5000 Full Edition Perpetual 8X5 Support ELEC	S	9324M-RLDT81	POA
Studio 5000 Full Edition Perpetual 24X7 Support ELEC	S	9324M-RLDT82	POA

Studio 5000® Professional

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Professional Perpetual Self Support ELEC	S	9324M-RLDT30	POA
Studio 5000 Professional Perpetual 8X5 Support ELEC	S	9324M-RLDT31	POA
Studio 5000 Professional Perpetual 24X7 Support ELEC	S	9324M-RLDT32	POA

Studio 5000® Legacy

Studio5000 Legacy License provides a Professional Edition activation for users who are required to work in current versions of Studio5000 as well as versions dating back to V20.04 and below. Compatibility and version lifecycle information should be consulted in the Product Compatibility and Download Center prior to purchase.

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Legacy Perpetual Self Support ELEC	S	9324M-RLDT40	POA
Studio 5000 Legacy Perpetual 8X5 Support ELEC	S	9324M-RLDT41	POA
Studio 5000 Legacy Perpetual 24X7 Support ELEC	S	9324M-RLDT42	POA
Studio 5000 Legacy Lite Perpetual Self Support ELEC	S	9324M-RLDT50	POA
Studio 5000 Legacy Lite Perpetual 8X5 Support ELEC	S	9324M-RLDT51	POA
Studio 5000 Legacy Lite Perpetual 24X7 Support ELEC	S	9324M-RLDT52	POA

Studio 5000® Add Ons

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Multipack language pack addon Perpetual elec	S	9324M-RLD2RT11	POA
Studio 5000 Full pack addon perpetual elec	S	9324M-RLD2RT21	POA
Studio 5000 Logix emulate addon perpetual elec	S	9324M-RLDRT11	POA
Studio 5000 GuardLogix safety editor addon perpetual elec	S	9324M-RLDRT21	POA
Studio 5000 Structured text addon perpetual elec	S	9324M-RLDRT31	POA
Studio 5000 Seq functional chart addon perpetual elec	S	9324M-RLDRT41	POA
Studio 5000 FBD design config nl addon perpetual elec	S	9324M-RLDRT51	POA
Studio 5000 Phase manager addon perpetual elec	S	9324M-RLDRT61	POA
Studio 5000 Sequence manager editor addon perpetual elec	S	9324M-RLDRT71	POA
Studio 5000 Simulation interface developer addon perpetual elec	S	9324M-RLDRT81	POA
Studio 5000 Simulation interface runtime addon perpetual elec	S	9324M-RLDRT91	POA
Studio 5000 RSNetworx bundle addon perpetual elec	S	9357M-RLDRT101	POA

Studio 5000® Software - Subscription - (Rockwell Automation)

Rockwell Automation offers Subscriptions licenses for Studio 5000 Software. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

Studio 5000 Automation Engineering & Design Environment

The Studio 5000® Design Environment is a scalable application solution, used to program and configure any of the Logix5000™ family of controller products. Depending on the functionality required, one or more product catalog numbers might be needed to acquire the appropriate functionality. The Logix Designer activations provided by default activation version 20.05 and above. For older versions consider the RSLogix5000 Legacy Subscription or a Design Suite Toolkit.

Studio 5000® Mini

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Mini 1YSUB Subscription 8X5 Support ELEC	S	9324C-RLDT61	POA
Studio 5000 Mini 1YSUB Subscription 24X7 Support ELEC	S	9324C-RLDT62	POA

Studio 5000® Lite

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Lite 1YSUB 8X5 Support ELEC	S	9324C-RLDT11	POA
Studio 5000 Lite 1YSUB 24X7 Support ELEC	S	9324C-RLDT12	POA

Studio 5000® Standard

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Standard 1YSUB 8X5 Support ELEC	S	9324C-RLDT21	POA
Studio 5000 Standard 1YSUB 24X7 Support ELEC	S	9324C-RLDT22	POA

Studio 5000® Standard with RSNetworkx

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 RSNetworkx 1YSUB Subscription 8X5 Support ELEC	S	9324C-RLDT71	POA
Studio 5000 RSNetworkx 1YSUB Subscription 24X7 Support ELEC	S	9324C-RLDT72	POA

Studio 5000® Standard Full

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Full 1YSUB Subscription 8X5 Support ELEC	S	9324C-RLDT81	POA
Studio 5000 Full 1YSUB Subscription 24X7 Support ELEC	S	9324C-RLDT82	POA

Studio 5000® Professional

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Professional 1YSUB 8X5 Support ELEC	S	9324C-RLDT31	POA
Studio 5000 Professional 1YSUB 24X7 Support ELEC	S	9324C-RLDT32	POA

Studio 5000® Legacy

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Legacy 1YSUB 8X5 Support ELEC	S	9324C-RLDT41	POA
Studio 5000 Legacy 1YSUB 24X7 Support ELEC	S	9324C-RLDT42	POA
Studio 5000 Legacy Lite 1YSUB 8X5 Support ELEC	S	9324C-RLDT51	POA
Studio 5000 Legacy Lite 1YSUB 24X7 Support ELEC	S	9324C-RLDT52	POA

Studio 5000® Add Ons

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 Logix Emulate 1YSUB ELEC	S	9324R-LDEMUENT	POA
Studio 5000 FDB Editor Add On 1YSUB ELEC	S	9324R-LDFBDENT	POA
Studio 5000 Full Pack Add On 1YSUB ELEC	S	9324R-LDFPENT	POA
Studio 5000 GaurdLogix Safety Editor 1YSUB ELEC	S	9324R-LDGSENT	POA
Studio 5000 PhaseManager Option 1YSUB ELEC	S	9324R-LDPMENT	POA
Studio 5000 Seq Func Chart Option 1YSUB ELEC	S	9324R-LDSFCENT	POA
Studio 5000 Sim Interface Developer 1YSUB ELEC	S	9324R-LDSIMENT	POA
Studio 5000 SequenceManager Editor 1YSUB ELEC	S	9324R-LDSMENT	POA
Studio 5000 Structured Text Option 1YSUB ELEC	S	9324R-LDSTENT	POA

RSLogix 500® Add Ons

Item Description	Item Type	Catalogue No.	\$AU
RSLogix 500 Add On 1YSUB 8X5 Support ELEC	S	9324R-L0300ENT	POA

RSLogix 5® Add Ons

Item Description	Item Type	Catalogue No.	\$AU
RSLogix 5 Add On 1YSUB 8X5 Support ELEC	S	9324R-L5300ENT	POA

Studio 5000 Application Code Manager

Application Code Manager is an engineering tool that enables more efficient project development by leveraging highly reusable libraries. You can create your own libraries using Library Designer or used provided ones. Application Code Manager creates not only the Logix but also associated FactoryTalk ViewSE/ME displays, FactoryTalk Historian tags and FactoryTalk Alarm and Events (FTAE) content.

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 App Code Manager 1YSUB 8X5 Support ELEC	S	9326C-ACMT11	POA
Studio 5000 App Code Manager 1YSUB 24X7 Support ELEC	S	9326C-ACMT12	POA

Studio 5000 License Portal

The Studio 5000 License Portal is a secure, easy to use web portal designed to manage content protection licenses. It is used to configure both Source and Execution protection within the Studio 5000 Design Environment. The Studio 5000 License Portal allows users to assign licenses, permissions, and provide convenient reporting services.

Studio 5000 License Portal Small Subscription

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 License Portal Small 1YSUB 8X5 Support ELEC	S	9326C-CPROTT11	POA
Studio 5000 License Portal Small 1YSUB 24X7 Support ELEC	S	9326C-CPROTT12	POA



9326C-CPROTT12

Studio 5000 License Portal Standard Subscription

Item Description	Item Type	Catalogue No.	\$AU
Studio 5000 License Portal Standard 1YSUB 8X5 Support ELEC	S	9326C-CPROTT21	POA
Studio 5000 License Portal Standard 1YSUB 24X7 Support ELEC	S	9326C-CPROTT22	POA



9326C-CPROTT21

Engineering Software

Rockwell Software Toolkits

- Access to a large range of development and productivity tools, reduces the requirement to invest in relevant software for large scale projects, and allows you to use these tools for in-house development
- Using the valuable tools packaged with every Toolkit contract and our team of trained experts, you have ability to reduce maintenance time and costs, when troubleshooting problems.
- No matter where you are located Support from Rockwell Automation provides software maintenance, real-time phone support and comprehensive online support for your everyday support needs.

Rockwell Automation has created a comprehensive set of commercial programs designed to increase profitability, effectiveness, and competitive edge for their PartnerNetwork™. The Rockwell Automation Commercial Toolkit Programs provide software development tools, technical support, training, and productivity tools to our partners around the world. These Toolkit deliverables help our partners to reduce time to market and total cost of ownership, better utilize power and plant-floor assets, and minimize risks by standardizing on Rockwell Automation products and technologies.

Rockwell Design Suite Toolkits - Concurrent Subscriptions - (Rockwell Automation)

Mid-Range Toolkits - Concurrent Subscriptions

The Studio 5000® Lite Edition is used to program and configure the CompactLogix and Compact GuardLogix families of controllers. Studio 5000® Lite Edition supports Ladder, Function Block Diagram and Structured Text programming editors but does not support ControlLogix, or GuardLogix families of controllers. This Studio5000 offering provides an activation for versions 20.05 and above.

Item Description	Item Type	Catalogue No.	\$AU
RA Mid-Range Toolkit Concurrent 1YSUB 8X5 Support ELEC	S	9398C-TKITT11	POA
RA Mid-Range Toolkit Concurrent 1YSUB 24X7 Support ELEC	S	9398C-TKITT12	POA

Mid-Range Plus Toolkits - Concurrent Subscriptions

The Studio 5000® Standard Design Environment is used to program and configure the Logix5000™ family of controller products and PanelView™ 5000 products. Studio 5000 Standard includes the following editors: Ladder Diagram. This Studio5000 offering provides an activation for versions 20.05 and above.

Item Description	Item Type	Catalogue No.	\$AU
RA Mid-Range Plus Toolkit Concurrent 1YSUB 8X5 Support ELEC	S	9398C-TKITT21	POA
RA Mid-Range Plus Toolkit Concurrent 1YSUB 24X7 Support ELEC	S	9398C-TKITT22	POA

Enterprise Toolkits - Concurrent Subscriptions

The Studio 5000® Professional Design Environment is a scalable application solution, used to program and configure any of the Logix5000™ family of controller products and PanelView™ 5000 products. Studio 5000® Professional includes everything you need including the following editors: Ladder Diagram, Function Block, Structured Text, Sequential Function Chart, GuardLogix Safety Editor, Phase Manager, and Sequence Manager. Professional Edition also includes Logix Emulate, Architect, and RSNetworkx applications. This Studio5000 offering provides an activation for versions 20.05 and above.

Item Description	Item Type	Catalogue No.	\$AU
RA Enterprise Toolkit Concurrent 1YSUB 8X5 Support ELEC	S	9398C-TKITT31	POA
RA Enterprise Toolkit Concurrent 1YSUB 24X7 Support ELEC	S	9398C-TKITT32	POA

Rockwell Design Suite Legacy Software Toolkits - (Rockwell Automation)

Includes: RSView32, Historian Classic, SoftLogix, Studio 5000 Legacy for v20.04 and below. Qty not to exceed qty of toolkits purchased.

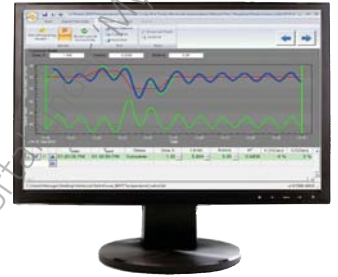
Item Description	Item Type	Catalogue No.	\$AU
Rockwell Legacy Toolkit Software 1YSub Media	I	9398C-TKITLEGM	POA

Engineering Software

Control Station LOOP-PRO Tuner Software

- Application tabs graphically designed to guide the end-user's analysis in step-by-step fashion
- All PID tuning sessions are archived and end-user analysis saved for future reference
- LOOP-PRO Integrates with the HMI and launches via command line to any PID control loop allowing simple integration to existing systems
- Readily accepts archived process data from your plant's existing data historian
- Accurately models both open-loop and closed-loop process data
- Auto-scan function simplifies identification of PID blocks on the control network
- Multi-model analysis allows examination of the full range of process dynamics

The LOOP-PRO Product Suite is software technology used for effective and efficient PID loop optimisation. This revolutionary technology offers users significant improvement over other PID loop tuning software and traditional trial-and-error methods. In fact, LOOP-PRO is so easy to use that optimisation is possible in a matter of minutes. The power of this technology is found in its stability, accuracy and unique non-steady state modelling capabilities. LOOP-PRO Tuner is highly compatible with Rockwell Automation products and integrates seamlessly.



Control Station LOOP-PRO Tuner Single WorkStation

LOOP-PRO Tuner Workstation License can only be installed on a single computer workstation. **Licenses are not transferable.** The Software will support all Rockwell Automation branded controllers in an online environment, and for additional features LOOP-PRO Tuner Plus will support all other major PAC / PLC / DCS OEMs in an Offline environment and also includes the advanced statistics package.

Item Description	Item Type	Catalogue No.	\$AU
LOOP-PRO Tuner Plus Workstation Licence Rockwell Edition Software	S	ABLPTPN	POA
LOOP-PRO Tuner Workstation Licence Rockwell Edition Software	S	ABLPTSN	POA

Control Station LOOP-PRO Tuner Enterprise

LOOP-PRO Tuner Enterprise Network License allows any computer workstations that can access the company-wide network to check-out or check-in a license. The Server must be purchased in conjunction with the number of user licenses required. For additional features a LOOP-PRO Tuner Plus license can be purchased and will support all other major PAC / PLC / DCS OEMs in an offline environment and includes the advanced statistics package.

Item Description	Item Type	Catalogue No.	\$AU
LOOP-PRO Tuner Plus Enterprise Client Rockwell Edition Software	S	ABLPTPA	POA
LOOP-PRO Tuner Enterprise Client Rockwell Edition Software	S	ABLPTSA	POA
LOOP-PRO Tuner Enterprise Server Software	S	CSLPENA	POA

Engineering Software

Rockwell Software Activation USB Dongle



- “Plug and play” activations with a dongle – ideal for non-networked computers
- Take advantage of a 7-day grace period if activation problems are encountered
- Recovering activations after a computer failure with self-service rehosting, no need to seek Rockwell Automation technical support
- Sharing single software activation among many users

The FactoryTalk Activation Dongle makes managing Rockwell Automation software activations as easy as inserting a USB device. This “plug and play” technology greatly simplifies the process of activation software applications on stand-alone machines. By combining a Host ID and storage in a single device, all the necessary license files for software activation can be loaded on to the device and brought to any computer. If activation is required on another computer, the device can be simply moved to that computer. It also is a convenient solution for users who only need occasional access to applications.

Rockwell Software USB Dongle



9509-USB-DONG2

Item Description	Item Type	Catalogue No.	\$AU
Rockwell Software USB Dongle		9509-USB-DONG2	275.93

Engineering Software

WIN911 Alarm Notification Software

WIN-911 Software	Page 621
WIN-911 Nodes	Page 621
Mobile-911 Add-on	Page 621
Win-911 FactoryTalk Alarm and Events	Page 621
WIN-911 Hot Backups	Page 622
WIN-911 Customer Care Subscriptions	Page 622
WIN-911 Software Upgrade	Page 622

- FactoryTalk Alarm and Events add on provide seamless integration into FactoryTalk View SE
- Smartphone integration available through mobile 911 offer push notification to most smart phone models

WIN-911® is real-time alarm notification software that works with your existing control software or SCADA system to monitor operations and notify personnel of problem conditions. With WIN-911, your operators can concentrate on other tasks while your computer system does the monitoring. With direct data connections to FactoryTalk View as well as generic OPC and DDE connections, WIN-911 has a connection available to every alarm source. With WIN-911, your operators can concentrate on other tasks while your computer system does the monitoring.

WIN-911
THE MOST WIDELY USED ALARM NOTIFICATION
PLATFORM FOR INDUSTRY AND IIOT

WIN-911 Software

WIN-911's provides secure and flexible real-time alarm notification system and easily integrates with your existing SCADA system to monitor for alarm conditions and provide feature rich notifications using the latest technologies. Choose the choice of notifications that suits your needs.

For a detailed Product comparison chart refer to the link below:

<https://www.win911.com/products/compare-products/>

Item Description	Item Type	Catalogue No.	\$AU
Win911 Standard Alarm Software	I	WIN911STANDARD	4,573.00
WIN-911 Interactive Alarm Software	I	WIN911INTERACTIVE	6,859.00
Win911 Advanced Alarm Software	I	WIN911ADVANCED	9,145.00

WIN-911 Nodes

WIN-911/Nodes Licensing for WIN-911 Standard, Interactive, and Advanced WIN-911 Standard, Interactive, and Advanced are licensed for a single Application/Node connection per data source (except for the FactoryTalk A&E option which must be purchased separately as an add-on).

Certain data source connections provide the ability for a single WIN-911 installation to monitor multiple SCADA Applications/Nodes. For this, additional node licenses must be purchased. Additional node licenses can be purchased with WIN-911 Standard, Interactive, and Advanced products.

Item Description	Item Type	Catalogue No.	\$AU
Win911 Nodes	S	WIN911/NODES	2,263.00

Mobile-911 Add-on

This powerful application enhances WIN-911® by using push notifications to alert users of new alarm events. The application on your phone retrieves new alarm details from the Mobile-911 Server utilizing limited bandwidth and secure encrypted HTTPS protocol.

Mobile-911 is designed to allow your team to view alarms on a dedicated summary screen. It also offers you the ability to easily acknowledge alarms and view the status of any active alarm.

Item Description	Item Type	Catalogue No.	\$AU
Mobile 911 Server For 10 Mobile Devices	I	MOBILE91110	3,155.00
Win911 Premium Voice Alarm Software	I	WIN-911/PV	841.00



WIN-911/PV

Win-911 FactoryTalk Alarm and Events

WIN-911/FT WIN-911 FactoryTalk® A&E Client. Required if connecting to FactoryTalk® A&E. FT Hot Backup must be purchased with primary WIN-911/FT add-on.

Item Description	Item Type	Catalogue No.	\$AU
WIN911 FactoryTalk Alarms & Events Add On	S	WIN-911/FT	712.00

WIN-911 Hot Backups

For redundant applications, Hot Backup licenses must be purchased in conjunction with primary software license.

Item Description	Item Type	Catalogue No.	\$AU
Win911 Standard Alarm Software - Hot Backup	I	WIN911STANDARDHB	3,430.00
Win911 Interactive Alarm Software - Hot Backup	I	WIN911INTERACTIVEHB	5,203.00
Win911 Advanced Alarm Software - Hot Backup	I	WIN911ADVANCEDHB	6,859.00
Win911 Nodes - Hot Backup	S	WIN911/NODES-HB	1,704.00
WIN911 FactoryTalk Alarms & Events Add On -Hot Back Up	S	WIN-911/FT-HB	549.00

WIN-911 Customer Care Subscriptions

Customer Care Subscriptions replace the Software Maintenance and Support program.

All new software purchases include a one-year WIN-911 Customer Care Subscription.

Customer Care Subscriptions include complimentary upgrades, product updates, live technical support, remote assistance, license transfers & reactivations.

Required for WIN-911 Mobile (smartphone apps) notifications.

Item Description	Item Type	Catalogue No.	\$AU
Win-911 Customer Care Service 1 Year Subscription for Standard	S	CCS/Standard	923.00
Win-911 Customer Care Service 1 Year Subscription for Standard Hot Backup	S	CCS/Standard-HB	689.00
Win-911 Customer Care Service 1 Year Subscription for Interactive	S	CCS/Interactive	1,377.00
Win-911 Customer Care Service 1 Year Subscription for Interactive Hot Backup	S	CCS/Interactive-HB	1,050.00
Win-911 Customer Care Service 1 Year Subscription for Advanced	S	CCS/Advanced	1,832.00
Win-911 Customer Care Service 1 Year Subscription for Advanced Hot Backup	S	CCS/Advanced-HB	1,377.00

WIN-911 Software Upgrade

Item Description	Item Type	Catalogue No.	\$AU
Win911 Standard To Interactive Upgrade	S	WIN911/S2I	2,287.00
Win911 Standard To Advanced Upgrade	S	WIN911/S2A	4,573.00
Win911 Interactive To Advanced Upgrade	I	WIN-911/I2A	POA
Win911 Pro To Interactive Support Upgrade	S	WIN911/P2I	POA

Pricing in this document is invalid – for pricing and availability please access the NHP Customer Portal under 'My Account'

Engineering Software

Rockwell CCW Software

- Single software package reduces time required to design, configure and program all devices within your project
- User-defined function blocks and pre-written code speeds system development
- Tag configuration and screen design make operator interface design simple
- Archive Manager and Intellectual Property Protection (Developer Edition) for increased security
- Run-mode change and spy lists (Developer Edition) reduces system commissioning and fault finding time

Connected Components Workbench (CCW) is the one-stop programming, design and configuration tool for all Component-Class devices. The software facilitates Micro800 controller programming, as well as configuration of Safety Relays, Drives, Soft Starters and Servo Drives. It also includes the tools to Design and Integrate PanelView 800 Graphic Terminals. The Standard Edition of CCW is free to download, but the Developer Edition offers powerful features designed to improve capabilities for the experienced automation professional.

**Connected
Components
Workbench™
Software**



Rockwell CCW Software - Perpetual with Maintenance - (Rockwell Automation)

Rockwell Automation offers a perpetual software license bundled with a Maintenance Contract for CCW Software. The Customer selects the Contract length term for the Maintenance Contract at the time of purchase. Customers will have instant access to the latest software updates and enhancements. These Customers will also receive access to our Knowledgebase for on-demand technical support.

Item Description	Item Type	Catalogue No.	\$AU
CCW Developer Edition Perpatual Self Support ELEC	S	9328M-CCWT20	POA
CCW Developer Edition Perpatual 8X5 Support ELEC	S	9328M-CCWT21	POA
CCW Developer Edition Perpatual 24X7 Support ELEC	S	9328M-CCWT22	POA

Rockwell CCW Software - Subscription - (Rockwell Automation)

Rockwell Automation offers Subscriptions licenses for CCWSoftware. Subscriptions allow Customers to purchase a timed license which provides access to upgrades to future versions and technical support.

Item Description	Item Type	Catalogue No.	\$AU
CCW Developer Edition 1YSUB 8X5 Support ELEC	S	9328C-CCWT21	POA
CCW Developer Edition 1YSUB 24X7 Support ELEC	S	9328C-CCWT22	POA

Engineering Software

FactoryTalk TeamONE



FactoryTalk TeamONE delivers the ability for your team to collaborate in context with automation device data and is tailored for industrial environments by way of not requiring any servers or even cloud/WiFi infrastructure initially, provides industrial specific features called modules, adjusts for varying levels of connectivity and opportunistically expands in value when your company chooses to connect their enterprise.

FactoryTalk TeamONE is an app platform that delivers frictionless productivity for every industrial worker. The iOS and Android app is a platform and we've innovated to put the platform within the app itself, which reduces the friction to value to literally zero.

Rockwell FactoryTalk TeamONE Standard - (Rockwell Automation)

FactoryTalk TeamOne Standard Edition is a per user email subscription enables additional modules and features. Current FactoryTalk TeamOne Standard provides all of that in the free edition plus an Alarm module. The standard edition adds functionality to TeamONE Free Edition such as the FactoryTalk Alarms & Events Connector

Item Description		Item Type	Catalogue No.	\$AU
FT Teamone Standard Edition 1YSUB 8X5 Support ELEC		S	9525C-TOT11	POA
FT Teamone Standard Edition 1YSUB 24X7 Support ELEC		S	9525C-TOT12	POA



9525C-TOT11

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Innovation Suite

AR Vuforia Chalk - (Rockwell Automation)

- Be precise when downtime hits your bottom line
- Increase workforce effectiveness & efficiency — anytime, anywhere
- Scale up your expertise
- No training required

Vuforia Chalk facilitates AR remote assistance between your experts and field technicians. ... The powerful remote guidance experience of Vuforia Chalk combines live video, audio and the ability for both the remote and local participant to annotate their live shared view.



vuforia™

Rockwell Automation Vuforia Chalk

Item Description	Item Type	Catalogue No.	\$AU
Vuforia Chalk User Package	S	95057C-VUSTSS1T22	POA
Vuforia Chalk Host Package	S	95057C-VUSTSS1T42	POA

Servo Drives Selection Guide



Feature	Kinetix 5100	Kinetix 5300	Kinetix 5500	Kinetix 5700
Continuous Power Range	0.05 – 15 kW	0.05 - 7 kW	0.6 – 14.6 kW	1.6 – 112 kW
Input Voltage	110, 230, 460 V AC	110, 230 and 460 V AC	195 – 528 V AC	230, 460 V AC
Safe Torque Off	Hardwired SIL2/PLd	Hardwired SIL2/PLd	Hardwired SIL2/PLd CIP Safety SIL3/PLe	Hardwired and Integrated STO SIL3/PLe Integrated Advance Safety SIL3/PLe
Advance Safety	Not Supported	Not Supported	Not Supported	Yes
Adaptive Tuning/Filtering	Yes	Yes/2.0	1.0	Yes/2.0
Aux. Feedback	Yes	Yes	No	Yes
Feedback Support	Hiperface; Incremental TTL Nikon 24bit	Hiperface; Incremental TTL Nikon 24 bit; Tamagawa 17 bit Generic Sin/Cos	Hiperface DSL	Hiperface; Incremental TTL Hiperface DSL; EnDat 2.1 and 2.2 Generic SinCos
Rotary Motor Support	MP-series TLP	MP-series TLP	Kinetix VP MP-series (w/ Converter kit)	Kinetix VP; MP-series HPK-series; RDD-series Direct Drive
Linear Motor Support	Planned mid-2021	LDC-Series Iron Core LDL-Series Ironless	LDC-Series Iron Core LDL-Series Ironless	LDC-series Iron Core
Linear Actuator Support	Planned mid-2021	MP-Series Electric Cylinders MP-Series Linear Stages	MP-Series Linear Stages LDAT-Sxxxxxx-xBx MP-Series Multi-axis Linear Stages MP-Series Electric Cylinders VP-Series Electric Cylinders	MP-Series Linear Stages LDAT-Sxxxxxx-xBx MP-Series Multi-axis Linear Stages MP-Series Electric Cylinders VP-Series Electric Cylinders
Induction Motor Support	Planned mid-2021	Open & Closed Loop	Open Loop only	Open and Closed Loop
Cable Management	Standard	Standard	Single	Single and Standard
Network Support	Dual Port Ethernet	Dual Port Ethernet	Dual Port Ethernet	Dual Port Ethernet
Configuration Environment	KNX 5100C SW	Studio 5000	Studio 5000	Studio 5000
Power Distribution Method	Stand Alone	Stand Alone	Shared Bus Configurations	Shared Bus Configurations /w Regen
Page	627	628	629	631

Servo Drives

Allen-Bradley Kinetix 5100 Servo Drives

- Range of products offering the right size and feature set to handle a broad range of applications
- Single axis component drives to multi-axis modular drives
- Designed to simplify machine design while improving system performance
- Integrated Motion drives fit into the Logix platform for easy use and plug-and-play configurability
- Network options and a choice of safety features are available

Allen-Bradley offer a servo drive portfolio that includes a wide variety of products which offer the right size and feature set to handle a broad range of applications. From single axis component drives to multi-axis modular drives, it is designed to simplify machine design while improving system performance. The Integrated Motion drives fit seamlessly into the Logix platform for easy use and plug-and-play configurability. Network options and a choice of safety features are available.



Allen-Bradley Kinetix 5100 Servo Drives

Our Bulletin 2198 Kinetix® 5100 Servo Drives provide a scalable option for servo solution in a single product. This drive offers an extended power range solution to 15kW to support stand-alone, Micro 800, or Logix controlled applications. Kinetix 5100 drives come with standard inputs and outputs, different mode of controls, plus Safe Torque Off and dual port EtherNet/IP for various network topologies.

- Range of products offering the right size and feature set to handle a broad range of applications
- Single axis component drives to multi-axis modular drives
- Designed to simplify machine design while improving system performance
- Integrated Motion drives fit into the Logix platform for easy use and plug-and-play configurability
- Network options and a choice of safety features are available

Kinetix 5100 Drives

1-Phase Input (V AC, rms)	3-Phase Input (V AC, rms)	Output (A, rms, continuous)	Output (A, rms, peak)	Item Type	Catalogue No.	\$AU
230 (170 - 253)	230 (170 - 253)	2.6	6.5	I	2198-E1004-ERS	1,326.33
230 (170 - 253)	230 (170 - 253)	5.1	15.41	I	2198-E1007-ERS	1,600.80
230 (170 - 253)	230 (170 - 253)	7.9	23.7	I	2198-E1015-ERS	1,744.23
230 (170 - 253)	230 (170 - 253)	13.4	40.58	I	2198-E1020-ERS	2,160.37
-	230 (170 - 253)	17.9	55.95	I	2198-E2030-ERS	2,514.53
-	230 (170 - 253)	41.3	91.4	I	2198-E2055-ERS	3,399.92
-	230 (170 - 253)	49	127.5	I	2198-E2075-ERS	4,196.79
-	230 (170 - 253)	78	162	I	2198-E2150-ERS	5,666.54
-	480 (342 - 528)	1.6	5.4	I	2198-E4004-ERS	1,326.33
-	480 (342 - 528)	3.19	8	I	2198-E4007-ERS	1,600.80
-	480 (342 - 528)	6.05	15.11	I	2198-E4015-ERS	1,744.23
-	480 (342 - 528)	7.42	20.78	I	2198-E4020-ERS	2,160.37
-	480 (342 - 528)	13.95	26.08	I	2198-E4030-ERS	2,514.53
-	480 (342 - 528)	24.8	37.65	I	2198-E4055-ERS	3,399.92
-	480 (342 - 528)	31	53.32	I	2198-E4075-ERS	4,196.79
-	480 (342 - 528)	41.26	70.14	I	2198-E4150-ERS	5,666.54



2198-E4004-ERS

Kinetix 5100 Line Filters

Item Description	Item Type	Catalogue No.	\$AU
KINETIX 5100 SERVO LINE FILTER 10A	I	2198-DB310-F	224.89
KINETIX 5100 SERVO LINE FILTER 11A	I	2198-DB111-F	180.62
KINETIX 5100 SERVO LINE FILTER 18.4A	I	2198-DB418-F	545.40
KINETIX 5100 SERVO LINE FILTER 24A	I	2198-DB324-F	350.62
KINETIX 5100 SERVO LINE FILTER 27A	I	2198-DB127-F	302.80
KINETIX 5100 SERVO LINE FILTER 33A	I	2198-DB433-F	789.78
KINETIX 5100 SERVO LINE FILTER 35A	I	2198-DB335-F	538.32
KINETIX 5100 SERVO LINE FILTER 56A	I	2198-DB356-F	910.19

Kinetix 5100 Accessories

Item Description	Item Type	Catalogue No.	\$AU
KINETIX 5100 FEEDBACK CONNECTOR KIT 15PIN		2198-K51CK-D15M	106.25

Servo Drives

Allen-Bradley Kinetix 5300 Servo Drives



- Range of products offering the right size and feature set to handle a broad range of applications.
- Single axis component drives to multi-axis modular drives
- Designed to simplify machine design while improving system performance
- Integrated Motion drives fit into the Logix platform for easy use and plug-and-play configurability.
- Network options and a choice of safety features are available

Allen-Bradley offer a servo drive portfolio that includes a wide variety of products which offer the right size and feature set to handle a broad range of applications. From single axis component drives to multi-axis modular drives, it is designed to simplify machine design while improving system performance. The Integrated Motion drives fit seamlessly into the Logix platform for easy use and plug-and-play configurability. Network options and a choice of safety features are available.

Kinetix 5300 Servo Drives

Well-suited for small to medium machines, our Bulletin 2198 Kinetix® 5300 Single-axis EtherNet/IP servo Drives provide the design flexibility that you've come to expect from Allen-Bradley integrated motion on EtherNet/IP servo drives, in a streamlined offering to cover your essential machine-building needs.

- Offers more comprehensive power range than comparable solutions 0.05...2 kW at 120...230V, 3...7.5 kW at 230V and 0.4...7.5 kW at 460V
- Delivers safety features without additional parts or wiring with standard hardwired Safe Torque Off (STO)
- Features simple sizing. Rated power is referenced to the Output Power at the motor. When the Kinetix 5300 is paired with the Kinetix TLP motor, sizing efforts are reduced
- Includes four digital inputs; two of which can be used as fast digital input functions
- Comes standard with Device Level Ring (DLR) support, reducing the need for network accessories like e-Taps
- Includes tuning less technology with Load Observer and Tracking Notch filter so you can get up and running faster

Kinetix 5300 Drives

1-Phase Input (V AC, rms)	3-Phase Input (V AC, rms)	Output (A, rms, continuous)	Output (A, rms, peak)	Item Type	Catalogue No.	\$AU
230 (170 - 253)	230 (170 - 253)	2.8	9.5	I	2198-C1004-ERS	1,459.14
230 (170 - 253)	230 (170 - 253)	4.6	15.5		2198-C1007-ERS	1,761.94
230 (170 - 253)	230 (170 - 253)	8.5	29.2	I	2198-C1015-ERS	1,919.55
230 (170 - 253)	230 (170 - 253)	12.2	40.6		2198-C1020-ERS	2,376.41
-	230 (170 - 253)	19.6	61	I	2198-C2030-ERS	2,765.98
-	230 (170 - 253)	40.2	108	I	2198-C2055-ERS	3,739.92
-	230 (170 - 253)	47.7	127.5	I	2198-C2075-ERS	4,616.47
-	480 (342 - 528)	2.9	9.3		2198-C4007-ERS	1,761.94
-	480 (342 - 528)	5.2	18	I	2198-C4015-ERS	1,919.55
-	480 (342 - 528)	7.3	23.8	I	2198-C4020-ERS	2,376.41
-	480 (342 - 528)	11.7	34.1	I	2198-C4030-ERS	2,765.98
-	480 (342 - 528)	22.6	58.5	I	2198-C4055-ERS	3,739.92
-	480 (342 - 528)	27.5	73.5	I	2198-C4075-ERS	4,616.47

Kinetix 5300 Accessories

Item Description	Item Type	Catalogue No.	\$AU
KINETIX 5300 FEEDBACK CONNECTOR KIT 15PIN		2198-K53CK-D15M	184.17



2198-C1004-ERS

Servo Drives

Allen-Bradley Kinetix 5500 Servo Drives

- Range of products offering the right size and feature set to handle a broad range of applications
- Single axis component drives to multi-axis modular drives
- Designed to simplify machine design while improving system performance
- Integrated Motion drives fit into the Logix platform for easy use and plug-and-play configurability.
- Network options and a choice of safety features are available

Allen-Bradley offer a servo drive portfolio that includes a wide variety of products which offer the right size and feature set to handle a broad range of applications. From single axis component drives to multi-axis modular drives, it is designed to simplify machine design while improving system performance. The Integrated Motion drives fit seamlessly into the Logix platform for easy use and plug-and-play configurability. Network options and a choice of safety features are available.



Kinetix® 5500 Drives

The Kinetix 5500's small footprint and single cable technology make this the ideal machine builder product. The new generation servo Drives operate with CompactLogix 5370 controllers and ControlLogix L7 processors, support Integrated Motion on EtherNet/IP and are compatible with the VPL series of Servo Motors and MP Series Motors via DSL feedback connectors.

- Smaller footprint with optimised power density ideal for use when control panel space is an issue
- Single cable solution including feedback, motor brake and motor power equipped with quick, one turn connectors, simplifies wiring and lowers installation cost
- Capability to run servo and induction motors all in one drive platform, reduce spare parts by standardising on a single platform
- Flexible power connectivity provides multiple ways to operate the system, bus connection systems reduce wiring cost and installation time
- Motion control functions are embedded in RSLogix™ 5000 programming and in the Logix controller, reducing the time and money involved in machine building, implementation and maintenance
- Available in hardwired or networked safety options - contact NHP for networked safety options

Kinetix® 5500 Drives

Hardwired Safety

1-Phase Input (V AC, rms)	3-Phase Input (V AC, rms)	Output (A, rms, continuous)	Output (A, rms, peak)	Frame (size)	Item Type	Catalogue No.	\$AU
240 (195 - 264)	415 (324 - 528)	1	2.5	Frame 1	I	2198-H003-ERS	2,759.20
240 (195 - 264)	415 (324 - 528)	2	6.25	Frame 1		2198-H008-ERS	3,051.56
240 (195 - 264)	415 (324 - 528)	5	12.5	Frame 2		2198-H015-ERS	3,362.20
-	415 (324 - 528)	8	20	Frame 2		2198-H025-ERS	3,618.02
-	415 (324 - 528)	13	32.5	Frame 2		2198-H040-ERS	4,020.03
-	415 (324 - 528)	23	57.5	Frame 3		2198-H070-ERS	4,659.58



2198-H070-ERS

CIP Safety

1-Phase Input (V AC, rms)	3-Phase Input (V AC, rms)	Output (A, rms, continuous)	Output (A, rms, peak)	Frame (size)	Item Type	Catalogue No.	\$AU
240 (195 - 264)	415 (324 - 528)	1	2.5	Frame 1	I	2198-H003-ERS2	2,759.20
240 (195 - 264)	415 (324 - 528)	2.5	6.25	Frame 1	I	2198-H008-ERS2	3,051.56
240 (195 - 264)	415 (324 - 528)	5	12.5	Frame 2		2198-H015-ERS2	3,362.20
-	415 (324 - 528)	8	20	Frame 2		2198-H025-ERS2	3,618.02
-	415 (324 - 528)	13	32.5	Frame 2	I	2198-H040-ERS2	4,020.03
-	415 (324 - 528)	23	57.5	Frame 3	I	2198-H070-ERS2	4,659.58



2198-H070-ERS2

Kinetix® 5500 Line Filters

Item Description	Item Type	Catalogue No.	\$AU
Kinetix 5500/5700 AC Line Filter, 7.5A		2198-DB08-F	400.18
Kinetix 5500/5700 AC Line Filter, 42A		2198-DB42-F	824.12



2198-DB42-F

Kinetix® 5500 Shunt Resistors



2097-R6

Item Description	Item Type	Catalogue No.	\$AU
Kinetix 300/350 and 5500/5700 Shunt Resistor, 150 Ohm, 80W	I	2097-R7	140.20
Kinetix 300/350 and 5500/5700 Shunt Resistor, 75 Ohm, 150W	I	2097-R6	217.16

Feedback Converter Kits

The feedback converter kit is required to integrate Kinetix new generation single cable servo drives for use with Allen-Bradley motors and actuators with Kinetix® SpeedTEC DIN (M7) or Threaded DIN (M4) connectors.



2198-H2DCK

Item Description	Item Type	Catalogue No.	\$AU
Kinetix 5500/5700 Hiperface to DSL Feedback Converter Kit		2198-H2DCK	571.93

Kinetix® 5500 Accessories

Follower Drive Connector Kits



2198-H070-D-T

Item Description	Item Type	Catalogue No.	\$AU
Kinetix 5500 DC Power T-Connector for DC Power Sharing, Frame 1 and 2		2198-H040-D-T	108.72
Kinetix 5500/5700 Control Power T-Connector with Bus Bars for Control Power Sharing, Frame 1 and 2		2198-H040-P-T	108.72
Kinetix 5500 AC Power T-Connector for AC Power Sharing, Frame 1 and 2	I	2198-H040-A-T	208.31
Kinetix 5500 DC and Control Power T-Connectors for DC and Control Power Sharing, Frame 1 and 2		2198-H040-DP-T	217.46
Kinetix 5500 AC and DC Power T-Connectors for AC and DC Power Sharing, Frame 1 and 2	I	2198-H040-AD-T	303.33
Kinetix 5500 AC and Control Power T-Connectors for AC and Control Power Sharing, Frame 1 and 2		2198-H040-AP-T	303.33
Kinetix 5500 AC, DC and Control Power T-Connectors for AC, DC and Control Power Sharing, Frame 1 and 2		2198-H040-ADP-T	403.83
Kinetix 5500 Mains AC Input Wiring Connector, 24V DC Input Wiring Connector and DC Bus T-Connector for First Drive in Multi-Axis System, Frame 1 and 2		2198-H040-ADP-IN	197.35
Kinetix 5500 DC Power T-Connector for DC Power Sharing, Frame 3	I	2198-H070-D-T	108.72
Kinetix 5500 AC Power T-Connector for AC Power Sharing, Frame 3	I	2198-H070-A-T	208.31
Kinetix 5500 DC and Control Power T-Connectors for DC and Control Power Sharing, Frame 3	I	2198-H070-DP-T	217.46
Kinetix 5500 AC and DC Power T-Connectors for AC and DC Power Sharing, Frame 3	I	2198-H070-AD-T	POA
Kinetix 5500 AC and Control Power T-Connectors for AC and Control Power Sharing, Frame 3	I	2198-H070-AP-T	POA
Kinetix 5500 AC, DC and Control Power T-Connectors for AC, DC and Control Power Sharing, Frame 3	I	2198-H070-ADP-T	423.93
Kinetix 5500 Mains AC Input Wiring Connector, 24V DC Input Wiring Connector and DC Bus T-Connector for First Drive in Multi-Axis System, Frame 3	I	2198-H070-ADP-IN	208.31

Capacitor Banks



2198-CAPMOD-1300

Item Description	Item Type	Catalogue No.	\$AU
Kinetix 5500 Capacitor Module, 1360uF	I	2198-CAPMOD-1300	1,357.67

Other Accessories



2198-KITCON-IOSP

Item Description	Item Type	Catalogue No.	\$AU
Kinetix 5500 Replacement I/O Connector Kit, Spring Clamp, for IOD and STO Connectors	I	2198-KITCON-IOSP	65.06

Servo Drives

Allen-Bradley Kinetix 5700 Servo Drives

- Range of products offering the right size and feature set to handle a broad range of applications
- Single axis component drives to multi-axis modular drives
- Designed to simplify machine design while improving system performance
- Integrated Motion drives fit into the Logix platform for easy use and plug-and-play configurability.
- Network options and a choice of safety features are available

Allen-Bradley offer a servo drive portfolio that includes a wide variety of products which offer the right size and feature set to handle a broad range of applications. From single axis component drives to multi-axis modular drives, it is designed to simplify machine design while improving system performance. The Integrated Motion drives fit seamlessly into the Logix platform for easy use and plug-and-play configurability. Network options and a choice of safety features are available.



Kinetix® 5700 Drives

Allen-Bradley offer a servo drive portfolio that includes a wide variety of products which offer the right size and feature set to handle a broad range of applications. From single axis component drives to multi-axis modular drives, it is designed to simplify machine design while improving system performance. The Integrated Motion drives fit seamlessly into the Logix platform for easy use and plug-and-play configurability. Network options and a choice of safety features are available. Please contact NHP for the list of components and for assistance in selecting a system.

- Features dual axis modules
- Provides a large power range up to 60kW
- Wide range of feedback types supported
- Includes dual EtherNet/IP ports to support linear and device level ring (DLR) topologies
- Reduces wiring with single cable technology
- Tuning-less commissioning for most axes
- Delivers best-in-class power density that reduces cabinet space requirements
- Offers innovative snapfit bus system
- Capacitor modules help reduce energy consumption
- Extension modules provide installation flexibility

Please contact NHP for the list of components and for assistance in selecting a system.

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		Kinetix 5700	POA



Kinetix 5700

Kinetix 5700 Servo System

200A common DC bus for shared energy usage and savings



Multiple motor types supported, including DSL Single Cable Technology

Power dense design saves cabinet space



DC Bus Supplies



Single Axis Servos



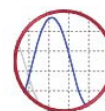
Dual Axis Servos



Combined Safety Technology. Integrated or Hardwired Safety - Safe Torque-Off SIL3/PLe



Advanced tuning technologies that help improve performance and reduce tuning



Advanced motor control technology

E4201D_dCHRT_501

Servo Motors and Cables

Allen-Bradley VP Series Servo Motors



- Rotary and linear servo motors provide a wide range of output power for a variety of environmental challenges
- VP Low-inertia motors, the MP-Series of stainless steel, food grade, medium-inertia and low-inertia options cover a wide range of applications
- LDC-Series and LDL-Series actuators provide simplified out-of-the box solutions for precise linear positioning..
- The servo motor families offer Smart Motor Technology to provide automatic identification of correct motor-to-drive connectivity and offer simpler commissioning.

Servo Motors include a broad portfolio of Rotary Motors and Linear Motors. Our rotary motors comprise several series including the VP Low-inertia motors, the MP-Series of stainless steel, food grade, medium-inertia and low-inertia options, and the HPK-Series High-Power motors. Our linear motors include the LDC-Series and LDL-Series with no-wear. The servo motor families offer Smart Motor Technology to provide automatic identification of correct motor-to-drive connectivity.

VP-Series™ Low Inertia (VPL) Servo Motors

VPL Kinetix VP Low-inertia Servo Motors connect to and operate with Kinetix 5500 and 5700 Servo Motors, supporting Integrated Motion on EtherNet/IP. Based on proven MP-Series motor technology for dynamic performance, this servo motor helps to increase reliability and leverage high volume production. This motor requires a single cable for providing feedback, motor brake, and motor power—allowing you to reduce installation and commissioning time, simplify wiring and reduce your inventory. Food-grade (VPF) options are also available, please contact NHP for more information.

- Provides real-time motor performance information to the control system via digital feedback device
- Optimized to match drive ratings and allow for efficient system sizing
- Available in 6 frame sizes
- Offers torque rating of 0.46...33.0 Nm
- Based on proven magnetic core MP technology
- Provides feedback, motor brake, and motor power through a single cable

Kinetix® VPL Low Inertia 460V AC Motors



VPL-B0632F-CJ12AA

Rated Speed (rpm)	Output Torque (Nm, continuous)	Feedback (type)	Brake (Y / N)	Keyed Shaft (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
6000	2.28	Absolute Multi-turn	No	Yes	Frame 2 / Frame 075 = 75mm	I	VPL-B0753M-PJ12AA	2,721.71
6000	2.28	Absolute Multi-turn	Yes	Yes	Frame 2 / Frame 075 = 75mm	I	VPL-B0753M-PJ14AA	3,509.71
3500	3.39	Absolute Multi-turn	No	Yes	Frame 3 / Frame 100 = 100mm	I	VPL-B1002E-PJ12AA	2,997.96
6000	3.39	Absolute Multi-turn	No	Yes	Frame 3 / Frame 100 = 100mm	I	VPL-B1002M-PJ12AA	2,997.96
6000	3.39	Absolute Multi-turn	Yes	Yes	Frame 3 / Frame 100 = 100mm	I	VPL-B1002M-PJ14AA	4,063.98
4750	4.18	Absolute Multi-turn	No	Yes	Frame 3 / Frame 100 = 100mm		VPL-B1003F-PJ12AA	3,155.56
6750	4.18	Absolute Multi-turn	No	Yes	Frame 3 / Frame 100 = 100mm	I	VPL-B1003T-PJ12AA	3,155.56
4500	6.55	Absolute Multi-turn	No	Yes	Frame 4 / Frame 115 = 115mm		VPL-B1153F-PJ12AA	3,476.07
4500	6.55	Absolute Multi-turn	Yes	Yes	Frame 4 / Frame 115 = 115mm		VPL-B1153F-PJ14AA	4,542.10
4500	0.93	Absolute Single-turn	No	Yes	Frame 15 / Frame 063 = 63mm	I	VPL-B0632F-CJ12AA	1,912.46
4500	2.16	Absolute Multi-turn	No	Yes	Frame 2 / Frame 075 = 75mm		VPL-B0753F-PJ12AA	2,721.71
4500	2.16	Absolute Multi-turn	Yes	Yes	Frame 2 / Frame 075 = 75mm		VPL-B0753F-PJ14AA	3,509.71

Servo Motors and Cables

Allen-Bradley MP Series Servo Motors

- Rotary and linear servo motors provide a wide range of output power for a variety of environmental challenges
- VP Low-inertia motors, the MP-Series of stainless steel, food grade, medium-inertia and low-inertia options cover a wide range of applications
- LDC-Series and LDL-Series actuators provide simplified out-of-the box solutions for precise linear positioning..
- The servo motor families offer Smart Motor Technology to provide automatic identification of correct motor-to-drive connectivity and offer simpler commissioning.



Servo Motors include a broad portfolio of Rotary Motors and Linear Motors. Our rotary motors comprise several series including the VP Low-inertia motors, the MP-Series of stainless steel, food grade, medium-inertia and low-inertia options, and the HPK-Series High-Power motors. Our linear motors include the LDC-Series and LDL-Series with no-wear. The servo motor families offer Smart Motor Technology to provide automatic identification of correct motor-to-drive connectivity.

MP-Series™ Low Inertia (MPL) Servo Motors

MP-Series Low Inertia (MPL) Servo Motors are high-output brushless motors which use innovative design characteristics to reduce motor size while delivering significantly higher torque. These compact brushless servo motors are designed to meet the demanding requirements of high performance motion systems. This series of servo motors is typically used with the Allen-Bradley Kinetix 300, 350, 5500 and 5700 servo drive families. These motors are available in nine frame sizes. Medium inertia (MPM), food-grade (MPF), stainless steel (MPS) and electric cylinders (MPAR) versions are also available – contact NHP for more information. Below is a list of motors stocked locally for fast delivery. For an extensive list, please contact NHP.

- Continuous stall torque of 0.26 to 163Nm (2.3 to 1440lb-in.)
- Peak torque of 0.77 to 278Nm (6.8 to 2460lb-in.)
- Integral 24V brake option
- Absolute multi-turn and single-turn high resolution, incremental encoder and resolver feedback options
- Low-profile, field-reversible motor connectors for minimal servo motor impact on machine design
- DIN connector versions allow flexible orientation of connectors and use of a single cable family with all MP-Series motors

MP-Series™ Low Inertia 230 V AC Motors

Rated Speed (rpm)	Output Torque (Nm, continuous)	Feedback (type)	Brake (Y / N)	Keyed Shaft (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
6000	1.61	Incremental Encoder / Counter	No	Yes	Frame 2 / Frame 075 = 75mm		MPL-A220T-HJ72AA	2,633.71
5000	2.1	Absolute Multi-turn	No	Yes	Frame 2 / Frame 075 = 75mm	I	MPL-A230P-VJ72AA	3,040.81
5000	2.1	Absolute Multi-turn	Yes	Yes	Frame 2 / Frame 075 = 75mm	I	MPL-A230P-VJ74AA	4,016.87
5000	3.05	Absolute Single-turn	No	Yes	Frame 3 / Frame 100 = 100mm	I	MPL-A320P-SJ72AA	2,730.84
3500	6.21	Absolute Single-turn	No	Yes	Frame 4 / Frame 115 = 115mm		MPL-A430H-SJ72AA	3,683.87



MPL-A220T-HJ72AA



MPL-B330P-SJ72AA

MP-Series™ Low Inertia 460V AC Motors

Rated Speed (rpm)	Output Torque (Nm, continuous)	Feedback (type)	Brake (Y / N)	Keyed Shaft (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
6000	1.61	Absolute Multi-turn	No	Yes	Frame 2 / Frame 075 = 75mm	I	MPL-B220T-VJ72AA	2,928.19
5000	2.1	Absolute Single-turn	No	Yes	Frame 2 / Frame 075 = 75mm	I	MPL-B230P-EJ72AA	2,180.00
5000	2.1	Absolute Multi-turn	No	Yes	Frame 2 / Frame 075 = 75mm		MPL-B230P-VJ72AA	3,040.81
5000	2.1	Absolute Single-turn	Yes	Yes	Frame 2 / Frame 075 = 75mm	I	MPL-B230P-EJ74AA	3,453.76
5000	2.1	Absolute Multi-turn	Yes	Yes	Frame 2 / Frame 075 = 75mm		MPL-B230P-VJ74AA	3,590.00
5000	4.18	Absolute Single-turn	No	Yes	Frame 3 / Frame 100 = 100mm	I	MPL-B330P-SJ72AA	2,840.80
5000	4.18	Absolute Multi-turn	No	Yes	Frame 3 / Frame 100 = 100mm		MPL-B330P-MJ72AA	3,353.98
5000	6.55	Absolute Single-turn	No	Yes	Frame 4 / Frame 115 = 115mm	I	MPL-B430P-SJ72AA	3,262.34
5000	6.55	Absolute Multi-turn	No	Yes	Frame 4 / Frame 115 = 115mm		MPL-B430P-MJ72AA	3,738.87
5000	6.55	Absolute Multi-turn	Yes	Yes	Frame 4 / Frame 115 = 115mm	I	MPL-B430P-MJ74AA	5,040.13
3000	14.1	Absolute Multi-turn	Yes	Yes	Frame 45 / Frame 130 = 130mm	I	MPL-B4560F-MJ74AA	6,634.63
3750	34	Absolute Multi-turn	Yes	Yes	Frame 5 / Frame 165 = 165mm	I	MPL-B580J-MJ74AA	9,640.39
5000	3.05	Absolute Multi-turn	No	Yes	Frame 3 / Frame 100 = 100mm		MPL-B320P-MJ72AA	3,244.00

Pricing in this document is invalid – for pricing and availability please access the My Allen-Bradley Account

Servo Motors and Cables

Allen-Bradley TL Series Servo Motors

- Provides an economy solution to meet wide ranges of applications
- Optimized to match with drive ratings for optimum system sizing
- Single-turn and multi-turn (battery required) option with one physical feedback device

Our Kinetix TL-Series servo motors represent a economic solution for machine designers with a wide range of applications covered. The Kinetix TLP Plus servo motors expand the offering up to 15kW and include a 24-bit high-resolution absolute feedback option. The Kinetix TLP multi-purpose servo motors offer a broad power range and optimization with the Kinetix 5100 servo drive platform. The Kinetix TL and TLY compact servo motors are ideal for low-power applications.

Kinetix TLP motors now support 400V applications with the Kinetix 5100 and Kinetix 5300 servo motors to help build even more types of flexible, standalone machines.

TLY-Series™ Servo Motors

TL-Series Servo 230V motors provide substantial power in a small footprint, including high-torque density afforded by superior stator design. These motors include a high-resolution absolute encoder and a 2000-line incremental encoder. Compatible with Kinetix 300 and 350 servo drives. Also available in an electric cylinder version (TLAR) – contact NHP for more information. Below is a list of motors stocked locally for fast delivery. For an extensive list, please contact NHP.

- Tight position control with 17-bit resolution
- Multi-turn high-resolution feedback with battery backup available
- Controls high load-to-motor rotor inertia ratios while maintaining a stable system
- On-board memory retains motor identity
- Serial communication automatically reports identity to the drive
- 46 mm, 70 mm, 90 mm and 100 mm frame sizes
- Integral 24V brake option

TLY-Series™ 230V AC Servo Motors

Rated Speed (rpm)	Output Torque (Nm, continuous)	Feedback (type)	Brake (Y / N)	Keyed Shaft (Y / N)	Frame (size)	Item Type	Catalogue No.	\$AU
5000	0.325	Absolute Multi-turn	No	Yes	Frame 1 = 46mm	I	TLY-A130P-BJ62AA	1,141.95
6000	1.3	Incremental Encoder / Counter	No	Yes	Frame 2 = 70mm		TLY-A230T-HJ62AA	1,171.75
5000	2.6	Incremental Encoder / Counter	No	Yes	Frame 25 = 90mm		TLY-A2530P-HJ62AA	1,408.81
5000	2.94	Absolute Multi-turn	No	Yes	Frame 25 = 90mm	I	TLY-A2540P-BJ62AA	1,639.09



TLY-A2530P-HJ62AA

TLP-Series™ Servo Motors

TLP servo motors, tested and validated for optimal performance with Kinetix 5100 servo drives, are available with or without 24V DC holding brakes, and a wide-range of other economical and customizable options.

- Available in 200V and 400V with 8 varying frame sizes
- Rated power from 50W to 15kW
- Integral 24V DC brake option
- 24-bit high-resolution feedback
- Optimally designed with Kinetix 5100 servo drive for system performance
- Tight position control with 17-bit resolution

Item Description	Item Type	Catalogue No.	\$AU
Contact NHP	TLP Motors	POA	



TLP Motors

Servo Motors and Cables

Allen-Bradley Servo Accessories



A wide variety of cable products are available for connecting your motion control system. Standard motor power and feedback cables are available for all Allen-Bradley servo motors and actuators. Continuous-flex rated cables, intended for moving applications, and transition cables are also available for your applications that require them.

Kinetix® VP-Series Single Motor Cables

The Kinetix 2090-Series VPL motor cables are fitted with SpeedTec DIN connectors, and have been designed by Rockwell Automation for optimal performance with Kinetix 5500 and 5700 servo drives and Kinetix VP servo motors. The single-cable design includes power, feedback and brake conductors. The continuous-flex cable option and cable lengths in 1 m increments are available on request. Supports all digital feedback cable types only.

Kinetix® VPL Motor Power, Brake and Feedback Cables

Continuous Flex Cables

Wire Size	Length (m)	Feedback (type)	Item Type	Catalogue No.	\$AU
18 AWG (0.823 mm ²)	15	Absolute Multi-turn / Single-turn	I	2090-CSBM1DF-18AF15	1,228.56
14 AWG (2.08 mm ²)	15	Absolute Multi-turn / Single-turn	I	2090-CSBM1DF-14AF15	1,392.39



2090-CSBM1DF-18AF15

Non-Flex Cables

Wire Size	Length (m)	Feedback (type)	Item Type	Catalogue No.	\$AU
14 AWG (2.08 mm ²)	5	Absolute Multi-turn / Single-turn		2090-CSBM1DF-14AA05	500.37
18 AWG (0.823 mm ²)	9	Absolute Multi-turn / Single-turn	I	2090-CSBM1DF-18AA09	623.49
14 AWG (2.08 mm ²)	9	Absolute Multi-turn / Single-turn		2090-CSBM1DF-14AA09	683.32
18 AWG (0.823 mm ²)	15	Absolute Multi-turn / Single-turn	I	2090-CSBM1DF-18AA15	858.02
14 AWG (2.08 mm ²)	15	Absolute Multi-turn / Single-turn		2090-CSBM1DF-14AA15	957.76
14 AWG (2.08 mm ²)	25	Absolute Multi-turn / Single-turn	I	2090-CSBM1DF-14AA25	1,415.14



2090-CSBM1DF-14AA05

Kinetix® VPL Motor Power, and Feedback Cables

Non-Flex Cables

Wire Size	Length (m)	Feedback (type)	Item Type	Catalogue No.	\$AU
18 AWG (0.823 mm ²)	5	Absolute Multi-turn / Single-turn		2090-CSWM1DF-18AA05	450.58
14 AWG (2.08 mm ²)	5	Absolute Multi-turn / Single-turn	I	2090-CSWM1DF-14AA05	486.62
14 AWG (2.08 mm ²)	12	Absolute Multi-turn / Single-turn	I	2090-CSWM1DF-14AA12	789.98
14 AWG (2.08 mm ²)	15	Absolute Multi-turn / Single-turn		2090-CSWM1DF-14AA15	919.99
14 AWG (2.08 mm ²)	25	Absolute Multi-turn / Single-turn	I	2090-CSWM1DF-14AA25	1,353.36



2090-CSWM1DF-14AA05

Kinetix® SpeedTEC DIN (M7) Cables

SpeedTec DIN connector cables have been designed by Rockwell Automation for optimal performance with Allen-Bradley servo drives and compatible Quick Connect SpeedTec DIN connector (M7) MP-Series servo motors. These same cables can be substituted for the old Kinetix Threaded DIN (M4) cables.

Kinetix® SpeedTEC DIN (M7) Motor Power Cables

Kinetix® SpeedTEC DIN (M7) Flexible Motor Power Cables

Power (wire size)	Length (m)	Item Type	Catalogue No.	\$AU
16 AWG (1.31 mm ²)	5		2090-CPWM7DF-16AF05	405.32
16 AWG (1.31 mm ²)	15	I	2090-CPWM7DF-16AF15	694.34
16 AWG (1.31 mm ²)	20	I	2090-CPWM7DF-16AF20	801.82



2090-CPWM7DF-16AF05

Kinetix® SpeedTEC DIN (M7) Non-Flexible Motor Power Cables

Power (wire size)	Length (m)	Item Type	Catalogue No.	\$AU
16 AWG (1.31 mm ²)	5	I	2090-CPWM7DF-16AA05	255.54
16 AWG (1.31 mm ²)	15	I	2090-CPWM7DF-16AA15	414.14
14 AWG (2.08 mm ²)	25	I	2090-CPWM7DF-14AA25	660.85



Kinetix® SpeedTEC DIN (M7) Motor Power and Brake Cables

Kinetix® SpeedTEC DIN (M7) Flexible Motor Power and Brake Cables

Power (wire size)	Brake (wire size)	Cable (m)	Item Type	Catalogue No.	\$AU
16 AWG (1.31 mm ²)	18 AWG (0.823 mm ²)	5	I	2090-CPBM7DF-16AF05	518.11
16 AWG (1.31 mm ²)	18 AWG (0.823 mm ²)	15	I	2090-CPBM7DF-16AF15	858.24
14 AWG (2.08 mm ²)	18 AWG (0.823 mm ²)	15	I	2090-CPBM7DF-14AF15	1,166.63



Kinetix® SpeedTEC DIN (M7) Non-Flexible Motor Power and Brake Cables

Power (wire size)	Brake (wire size)	Cable (m)	Item Type	Catalogue No.	\$AU
16 AWG (1.31 mm ²)	18 AWG (0.823 mm ²)	5	I	2090-CPBM7DF-16AA05	366.56
16 AWG (1.31 mm ²)	18 AWG (0.823 mm ²)	15	I	2090-CPBM7DF-16AA15	567.45



Kinetix® SpeedTEC DIN (M7) Motor Feedback Cables

Kinetix® SpeedTEC DIN (M7) Motor Flexible Analogue Feedback Cables

Feedback (wire size)	Length (m)	Item Type	Catalogue No.	\$AU
26 AWG (0.129 mm ²)	5	I	2090-CFBM7DF-CDAF05	419.41
26 AWG (0.129 mm ²)	15	I	2090-CFBM7DF-CDAF15	720.77



Kinetix® SpeedTEC DIN (M7) Motor Flexible Digital Feedback Cables

Feedback (wire size)	Length (m)	Drive End	Item Type	Catalogue No.	\$AU
22 AWG (0.326 mm ²)	5	Flying leads (no connector)	I	2090-CFBM7DF-CEAF05	408.85
22 AWG (0.326 mm ²)	15	Flying leads (no connector)	I	2090-CFBM7DF-CEAF15	701.39
22 AWG (0.326 mm ²)	20	Flying leads (no connector)	I	2090-CFBM7DF-CEAF20	845.89



Kinetix® SpeedTEC DIN (M7) Motor Non-Flexible Digital Feedback Cables

Feedback (wire size)	Length (m)	Drive End	Item Type	Catalogue No.	\$AU
22 AWG (0.326 mm ²)	5	Flying leads (no connector)	I	2090-CFBM7DF-CEAA05	253.77
22 AWG (0.326 mm ²)	5	15-pin D-Sub Socket (DE-15, 3 rows; 5-5-5 pins)	I	2090-CFBM7DD-CEAA05	304.87
22 AWG (0.326 mm ²)	12	Flying leads (no connector)	I	2090-CFBM7DF-CEAA12	392.97
22 AWG (0.326 mm ²)	15	Flying leads (no connector)	I	2090-CFBM7DF-CEAA15	449.38



Threaded DIN (M4) Motor Transition Cables

Cables to transition MP-Series motors with Bayonet (M2) connectors to cables with SpeedTEC DIN (M7) or Threaded DIN (M4) connectors.



2090-CPBM4E2-14TR

Purpose	Power (wire size)	Brake (wire size)	Length (m)	Item Type	Catalogue No.	\$AU
Motor Power	14 AWG (2.08 mm ²)	14 AWG (2.08 mm ²)	0.5		2090-CPWM4E2-14TR	599.50
Feedback			0.5		2090-CFBM4E2-CATR	675.00
Motor Power & Brake	14 AWG (2.08 mm ²)	14 AWG (2.08 mm ²)	0.5	I	2090-CPBM4E2-14TR	1,583.88
Motor Power & Brake	10 AWG (5.26 mm ²)	10 AWG (5.26 mm ²)	0.5	I	2090-CPBM4E2-10TR	1,983.54

Kinetix® Bulletin TLY and TLAR Circular Plastic (M6) Cables

The TLY-Axxxx motors have circular plastic connectors and are intended for use with Kinetix 300 and Kinetix 350 servo drives.

Circular Plastic (M6) Motor Power Cables



2090-CPWM6DF-16AA05

Power (wire size)	Length (m)	Item Type	Catalogue No.	\$AU
16 AWG (1.31 mm ²)	5		2090-CPWM6DF-16AA05	191.64

Circular Plastic (M6) Feedback Cables



2090-CFBM6DF-CBAA05

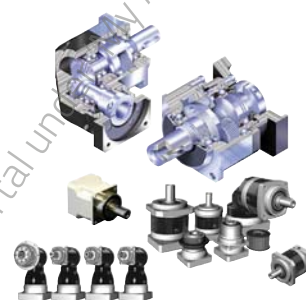
Feedback (wire size)	Length (m)	Feedback (type)	Item Type	Catalogue No.	\$AU
28 AWG (0.081 mm ²)	5	High Resolution Absolute or Incremental		2090-CFBM6DF-CBAA05	228.50

Gearboxes and Mechanical

Apex Gearboxes





- Maintenance free design provides long term cost savings and is ideal for applications where servicing is not ideal
- Any orientation mounting reduces design constraints
- High environmental protection ideal for use in the most demanding applications
- Large variety of models with multiple sizes and ratios provides the most comprehensive design flexibility

Manufactured to the highest standards, Apex Dynamics gearboxes have been designed for seamless integration with the Rockwell range of servo motors. Gearboxes are available in a huge range of configurations, with the most common kept in stock in Australia for fast delivery. Please contact NHP for more information.







Item Description	Item Type	Catalogue No.	\$AU
Contact NHP		APEX Gearbox	POA

In Line Planetary Gearboxes

	Series	Information	Options
	AD Series	High precision rotary flange, high torsional rigidity, high output moment load capacity.	Food grade grease Food grade epoxy IP67 Seals
	AE Series	Powerful, precise, robust, quiet and fast. Suitable for all servo applications every single stage ratio 3, 4, 5, 6, 7, 8, 9, 10.	Food grade grease Food grade epoxy IP67 Seals
	PAII Series	Metric flange output economy planetary.	N/A
	PEII Series	Metric tap face output economy planetary.	N/A

Right Angle Planetary Gearboxes

	Series	Information	Options
	ADR Series	High precision rotary flange, high torsional rigidity, high output moment load capacity.	Food grade grease Food grade epoxy IP67 Seals
	AER Series	Helical economy gearbox with high torque capacity.	Food grade grease Food grade epoxy IP67 Seals
	PAIIR Series	Metric flange output economy planetary.	N/A
	PEIIR Series	Metric tap face output economy planetary.	N/A

E4301D_dCHRT-503

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

This page intentionally left blank

Process Control Systems

PlantPAx 5.0

PlantPAx Scalable Architecture	642
PlantPAx Process Controllers	643
PlantPAx Software Solution	644

STRATUS

ztC™ Edge	645
ftServer®	646
	647

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

PlantPAx 5.0



The PlantPAx® system helps producers make better, faster process control decisions. This system enables you to respond more quickly to the demands of your customers and fastchanging specifications. The latest system release has been designed to be an integral part of your digital transformation strategy that helps you be more productive and profitable while reducing operational risk.

The PlantPAx© system utilizes a common automation platform for seamless integration between critical process areas and the balance of your plant. It connects process, discrete, power, information, and safety control into one plantwide infrastructure, increasing efficiencies and productivity across all layers of your operations. This eliminates disparate control systems, results in significant optimization improvements, and helps reduce your total cost of ownership (TCO).



Rethink What to Expect from a Distributed Control System

Simplified Engineering

Save engineering costs

- Speed and ease of system configuration
- Premier Integration with motor control and smart field instrumentation
- Validated and Tested Architectures
- Easy to integrate with OEM skids and Enterprise systems

Improve Operations

Empower operators and reduce training costs

- Realtime display of all process KPIs, alarms, trends
- Multi-lingual support with multiple user modes
- Graphics focused on simplicity & situational awareness
- Alarm management and effective operator response

Flexible Production

Meet changing demands and production needs

- Simplify batch material management with formulations
- Scalable recipe design from the skid to enterprise
- Easier to implement change
- Data-driven visibility with standard reports

Safe and Secure

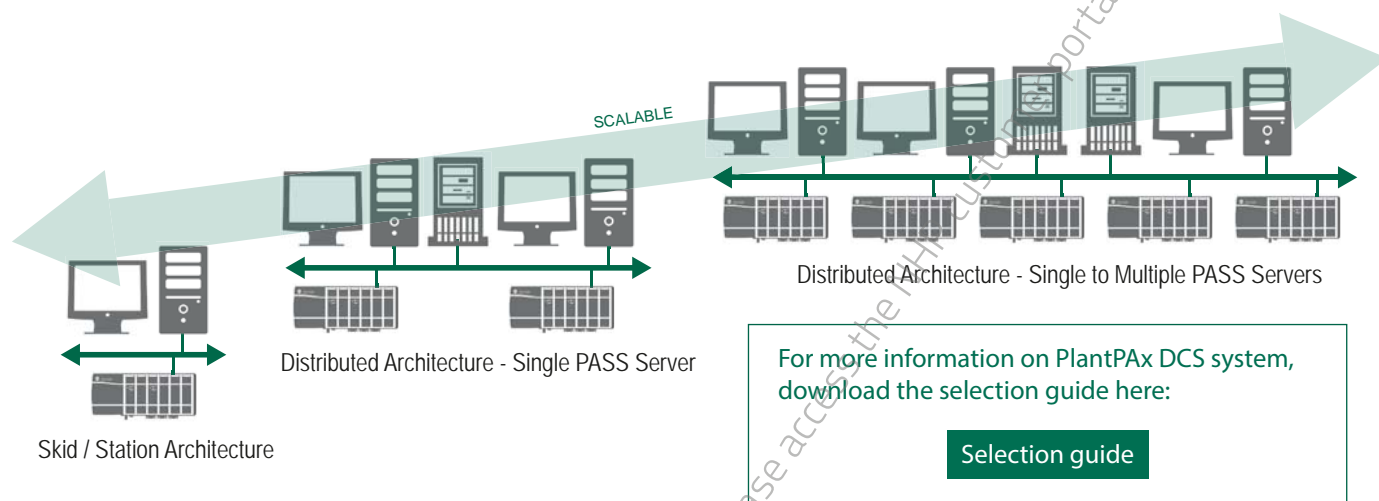
Enhances security & compliance with ISA99/IEC62443

- Processes and certifications to develop products and deliver cyber-secure customer systems
- Certified system architectures to enable customer application & system compliance
- Multi-layered and holistic approach to Defence-in-depth

PlantPAx
Process Automation System

PlantPax Scalable Architecture

Rockwell Automation characterizes the PlantPax system that is based on its size or architecture class. A 'characterized' (system-tested) classification yields system performance data and recommended hardware and software configurations. The classes of PlantPax architecture offer system scalability while organizing Integrated Architecture® products consistent with process industry expectations.



9

PlantPax Process Controllers

The PlantPax® 5.0 distributed control system (DCS) introduces new process functionality native to controllers, cybersecured architectures, and improved system availability and workflows. These benefits help reduce the complexity of traditional DCS and overall costs at all phases of the plant lifecycle for hybrid and Process industries. Accelerate your digital transformation with our latest PlantPax® 5.0 DCS version and unlock more opportunities with our ControlLogix® 5580 and CompactLogix™ 5380 Process controllers.



5380 CompactLogix Controllers

Item Description	Catalogue No.	\$
COMPACTLOGIX 5380 PROCESS CONTROLLER 2MB	5069-L320ERP	9,356.97
COMPACTLOGIX 5380 PROCESS CONTROLLER 4MB	5069-L340ERP	18,161.76



5580 ControlLogix Controllers

Item Description	Catalogue No.	\$
CONTROLLOGIX 5580 PROCESS CONTROLLER 3MB	1756-L81EP	13,705.97
CONTROLLOGIX 5580 PROCESS CONTROLLER 10MB	1756-L83EP	28,509.82
CONTROLLOGIX 5580 PROCESS CONTROLLER 40MB	1756-L85EP	46,589.66

PlantPax Software Solution

Develop and deploy quickly and consistently using



Common Development Platform

Same configuration tools across all plant floor applications minimize development time and human errors. Defined initial setup and virtual templates allow engineers to focus on application specific code.



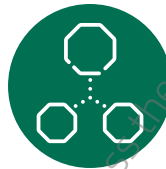
Configure with confidence

Streamline workflows and facilitate efficient projects with comprehensive deployment guidance. Leverage common references for network configurations or features such as disaster recovery and field device integration.



Modular Library

Predefined logic and HMI objects provide rich operator experience and shorten development time. Prebuilt control strategies of common asset configurations in a plant deliver consistency.



Analytics- Enabled

Leverage the same information from your automation assets with your analytics offerings. Drive consistent reporting with production context.

9

Complete offerings for industry-driven solution

Analytics enabled system

for increased profitability through operational efficiencies

Batch control

to meet your unique production needs

Process safety

that protects people, the environment and critical control assets

Lifecycle services

that support your operations every step of the way

Click here to access the Rockwell Automation E-Commerce portal

STRATUS

Automation is empowering industrial enterprises to dramatically increase productivity. Yet modernising industrial automation requires underlying technologies designed to improve efficiency, quality and eliminate downtime.

Ideal for OT, Stratus eliminates the complexity and, can reduce the cost, of specialised redundant IT based solutions with a platform that is easy to deploy, manage and service, regardless of its location.

Edge Computing will power the next wave of digital transformation. In areas as diverse as industrial automation, building management, supply chain optimization, and point of sale, data capture and analysis is increasingly occurring at the edge where data is being generated.

ztC Edge

ztC Edge is a secure, rugged, highly automated computing platform that helps understaffed organizations improve productivity, increase operational efficiency, and reduce downtime risk at the edge of their corporate networks.



ftServer

Stratus® ftServer — complete with hardware, software and services—is an operationally simple platform that will keep your applications running with no downtime or data loss.



The table below outlines the layers on which the above stratus products operate

In the traditional Purdue model the majority of the stratus platforms would be deployed in levels 2-3 with, for example, a ztC Edge running a specific product line whereas the ftServer can scale to run the whole plant. The ftServers can extend into level 4 deployments as IT have adopted OT's strategy and seen the benefits of Stratus' Technologies

Enterprise security zone	Level 5	Enterprise network	Archives, file servers		Data center	
	Level 4	Site business planning and logistics network	ERP, finance, messaging		Data center	
Industrial demilitarized zone						
Manufacturing security zone	Level 3	Site operations	Multi-line SCADA, historian, engineering workstation		Local data center, control room	
	Level 2	Area supervisor control	Single line SCADA, operator interface		Control room, plant floor, production line	
	Cell / Area zone	Level 1	Basic control	Batch, discrete, drive, process, and safety control		Production line
		Level 0	Process	Sensors, drives, actuators, robots		Production line

[Click here for more information on Stratus products](#)

ztC™ Edge

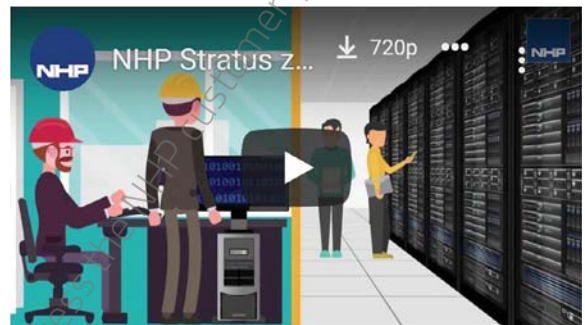
ztC Edge is a secure, rugged, highly automated computing platform that helps understaffed organizations improve productivity, increase operational efficiency, and reduce downtime risk at the edge of their corporate networks.

Designed for both OT (operational technology) and IT (information technology), ztC Edge is easy to deploy and secure, easy to locally and remotely manage, and easy to maintain and service. Self-monitoring, self-protecting, and self-synchronizing, ztC Edge saves companies time and money. With its built-in virtualization, automated protection, industrial interoperability, OT manageability, and field serviceability, ztC Edge enables the quick, easy delivery of both highly available and fault tolerant virtualized edge applications.

NHP Stratus ztC EDGE Introduction Video



NHP Stratus ztC EDGE Comparison Video



9

Features



Automated site recovery

ztC Edge's built-in multi-site application recovery capabilities give users greater flexibility and minimize downtime risk.



Rugged hot-swappable nodes

ztC Edge's hot-swappable design makes it possible for plant operators and technicians, rather than specially trained IT admins, to repair ztC Edge when necessary.



Cloud-based system health monitoring and management services

Stratus's cloud-based system health monitoring and management services ensures that applications on users' ztC Edge systems are always running, with minimal user effort.

Benefits



Increased operational efficiency

Through pre-installed virtualization software, and intuitive configuration and management tools, ztC Edge simplifies the process, and shortens setup time saving users time and effort.



Edge deployment

ztC Edge's rugged form factor gives it the flexibility it to be deployed "at the edge" or outside of traditional data rooms or data centres (it is DIN rail-mountable).



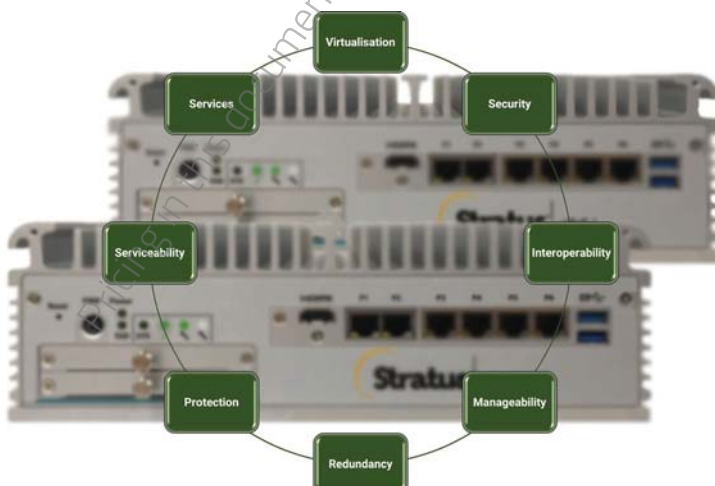
Automated application and data protection

ztC Edge's self-monitoring and self-protecting capabilities make it ideal for unmanned stations, or remote locations with limited resources.

Models Available

ztC Edge 110I

A fault tolerant and highavailability redundant solution for standalone applications in remote offices, branch offices, or shop floor locations.



ftServer®

Complimenting NHP's Industrial Automation solutions is a fully integrated hardware and software solution purpose built to consolidating your physical server infrastructure and ensuring the availability of your virtualized applications.

- **No unplanned downtime:** Greater than 5 nines availability through redundant components, lockstep firmware, and data synchronisation
- **No data corruption or data loss:** All transactions processed because the system keeps operating despite component failure
- **Faster time to value:** Easy to deploy and manage, with no ISV application modifications or failover scripts required
- **Increased operational efficiency:** Self-monitoring, self-diagnosing, self-alerting systems save you time and effort



Models Available

There are three different ftServer model. Providing a scalable option for your application needs. All with the ability to specifically characterised to your requirements and meet the needs of todays workloads, environment and budget.

The family of ftServer models are optimised to protect varying workloads and their associated resource demands. By working closely with the automation software vendors Stratus provides tools to accurately size the desired workload and recommend the appropriate ftServer model and configuration accordingly.



Simplified deployment

Continuous availability is ensured, with no need to modify your current applications or write failover scripts.



Lower total cost of ownership

After factoring in acquisition, deployment, management, and unplanned downtime costs, Stratus ftServers can save you up to 40%



Simplified management

Self-monitoring hardware, automated parts replacement, and easy to replace sub systems remove the burden of continuous system management



No data corruption or data loss

The integrity of both your committed and inflight data is protected, with the assurance that all of your transactions are processed



No unplanned downtime

Constant application availability as you ride through power spikes and transient error, which would be fatal to other x86 systems



This gives peace of mind that the solution has been characterised and has the ability to scale to meet the specified growth requirement.

Process Controllers

With Stratus, you can rest assured your essential business applications will be online, all the time. The proactive ftService offerings focus on preventing downtime and data loss - an advantage that far outweighs the "break-fix" support offered by other vendors.

ftService features breakdown

ftService Coverage Features	Total Assurance	System Assurance	Extended Platform Support	Platform Support
Uptime Guarantee ¹⁾	✓	–	–	–
Vendor collaboration	✓	–	–	–
Full OS support, including patches/updates ²⁾	✓	–	–	–
Executive problem escalation	✓	✓	–	–
Emergency onsite response ³⁾	✓	✓	–	–
General root-cause problem determination	✓	✓	–	–
Uptime assurance layer software problem: root-cause determination	✓	✓	–	–
Access to availability engineer	24/7/365	24/7/365	–	–
Proactive system monitoring (ASN)	24/7/365	24/7/365	24/7/365	24/7/365
Uptime assurance software upgrades	✓	✓	✓	✓
Software support response (critical)	< 30 minutes	< 60 minutes	< 2 hours 24/7/365	< 2 hours 9 to 5
Hardware support response (critical)	< 30 minutes	< 60 minutes	< 2 hours 24/7/365	< 2 hours 9 to 5
Initial incident response	24/7/365	24/7/365	24/7/365	24/7/365
Advanced parts exchange / parts repair	Next business day	Next business day	Next business day	Next business day
Contract term: years	One or multiple	One or multiple	One or multiple	One or multiple

1) Provides financial protection against any unplanned downtime. Only Stratus offers this level of commitment to availability. Terms and conditions apply.

2) When Red Hat Enterprise Linux or VMware vSphere Editions are purchased from Stratus, customers are required to order the software license, Support and Subscription (SnS) service and a Stratus ftService offering.

3) Where available.

ztC™ Edge - Support Services

Maximize your return on investment with System Support and System Health

For a premium Stratus experience, a support contract is recommended with the purchase of every Stratus hardware. Stratus offers two service options to simplify the monitoring and management of your ztC Edge system - System Support and System Health:

Support service levels - features breakdown

Services	System support	System support + System Health
24/7/365 web and phone support with 30-minute critical response SLA	✓	✓
Advance parts exchange	✓	✓
Root cause problem determination	✓	✓
Software updates and upgrades	✓	✓
Secure access to self-service portal	✓	✓
24/7/365 remote health monitoring	✓	✓
Alert triage	–	✓
System log file review	–	✓
Predictive failure analysis	–	✓
Media retention	–	✓

Operator Control Devices

Pushbuttons and Control Switches

Sprecher+Schuh Rotary Cam Switch Selection Guide	650
Control and Cam Switches	Index 656
Foot Switches	668
Pendants and Pendant Systems	672
Pushbuttons and Pilot Lights	Index 676
Sprecher + Schuh D7 Pushbuttons and Pilot Lights	Index 676
D7 Legend Plates Custom Order Form	708
Allen-Bradley 800F Pushbutton Selection Guide	713
Allen-Bradley 800F Pushbuttons and Pilot Lights	Index 715
Austrol N100 Pushbuttons	Index 737
Allen-Bradley 800T/800H Pushbutton Selection Guide	746
Allen-Bradley 800T/800H Pushbuttons	Index 748

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Sprecher+Schuh Rotary Cam Switch Selection Guide

The Sprecher+Schuh (S+S) series of L2 cam switches are available for control and load applications up to 25A.

A complete L2 switch can be ordered with just two part numbers.

The L2 range comes in two mounting options

1. Panel Mount
2. Base Mount

Frame size options available in

1. 48 x 48mm
2. 64 x 64mm
3. 67 x 67mm

L2 rotary cam switches can function as

- Control Switches
- Motor Switches
- Multi-Position load switches
- Motor load disconnect switches
- Emergency OFF Switches





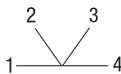
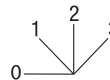
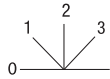
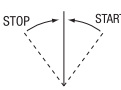

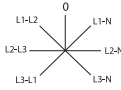
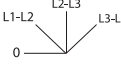

1 Determine switch body type required

Select from either a Panel or Base Mount Switch Body

Panel Mount Switch Bodies

Switch Body Description			Switch Body Catalogue Number				Switch Handle Code
Function	Switch Angle	Poles / Switch Wafers	Panel Mount				
			12 Amp	16 Amp	20 Amp	25 Amp	
ON - OFF							
	90°	2 / 1 4 / 2	LE2-12-1752 LE2-12-1754	LE2-16-1752 LE2-16-1754	LE2-20-1752 LE2-20-1754	LE2-25-1752 LE2-25-1754	175 175I
	90°	1 / 1 2 / 1 3 / 2 4 / 2	LE2-12-1781 LE2-12-1782 LE2-12-1783 LE2-12-1784	LE2-16-1781 LE2-16-1782 LE2-16-1783 LE2-16-1784	LE2-20-1781 LE2-20-1782 LE2-20-1783 LE2-20-1784	LE2-25-1781 LE2-25-1782 LE2-25-1783 LE2-25-1784	178 178I
Double Throw							
	45°	1 / 1 2 / 2 3 / 3 4 / 4	LE2-12-2251 LE2-12-2252 LE2-12-2253 LE2-12-2254	LE2-16-2251 LE2-16-2252 LE2-16-2253 LE2-16-2254	LE2-20-2251 LE2-20-2252 LE2-20-2253 LE2-20-2254	LE2-25-2251 LE2-25-2252 LE2-25-2253 LE2-25-2254	225
	60°	1 / 1 2 / 2 3 / 3 4 / 4	LE2-12-2501 LE2-12-2502 LE2-12-2503 LE2-12-2504	LE2-16-2501 LE2-16-2502 LE2-16-2503 LE2-16-2504	LE2-20-2501 LE2-20-2502 LE2-20-2503 LE2-20-2504	LE2-25-2501 LE2-25-2502 LE2-25-2503 LE2-25-2504	250
	45°	1 / 1 2 / 2 3 / 3 4 / 4	LE2-12-3251 - - -	LE2-16-3251 - - -	LE2-20-3251 - - -	LE2-25-3251 LE2-25-3252 LE2-25-3253 LE2-25-3254	325 325R
	60°	1 / 1 2 / 2 3 / 3 4 / 4	LE2-12-3501 LE2-12-3502 LE2-12-3503 LE2-12-3504	LE2-16-3501 LE2-16-3502 LE2-16-3503 LE2-16-3504	LE2-20-3501 LE2-20-3502 LE2-20-3503 LE2-20-3504	LE2-25-3501 LE2-25-3502 LE2-25-3503 LE2-25-3504	350
	45°	1 / 1 2 / 2	LE2-12-3261 LE2-12-3262	LE2-16-3261 LE2-16-3262	LE2-20-3261 LE2-20-3262	LE2-25-3261 LE2-25-3262	325

J1302D01_dSELN-S01

Switch Body Description			Switch Body Catalogue Number				Switch Handle Code
Function	Switch Angle	Poles / Switch Wafers	Panel Mount				
			12 Amp	16 Amp	20 Amp	25 Amp	
3 Position							
	60°	1 / 2	-	-	-	LE2-25-4501	450
3 Position (with OFF)							
	45°	1 / 1 2 / 2	LE2-12-5251 -	- -	LE2-20-5251 -	- LE2-25-5252	525
4 Position							
	60°	2 / 4	-	-	-	LE2-25-4512	451
4 Position (with OFF)							
	45°	1 / 2	LE2-12-5261	-	LE2-20-5261	LE2-25-5261	526
5 Position (with OFF)							
	45°	1 / 2	LE2-12-5271	-	LE2-20-5271	-	527
START - STOP							
	45°	1 / 1	LE2-12-9251	-	LE2-20-9251	-	925
REVERSING							
	45°	3 / 3	LE2-12-7303	LE2-16-7303	LE2-20-7303	LE2-25-7303	325
Voltmeter							
	45°	NA / 3	LE2-12-8251	LE2-16-8251	LE2-20-8251	LE2-25-8251	825 825A
	45°	NA / 2	LE2-12-8271	-	-	LE2-25-8271	827 827A
Ammeter							
	90°	1 / 3	LE2-12-8751	-	LE2-20-8751	LE2-25-8751	875
3 Current Transformers		2 / 5	LE2-12-8752	LE2-16-8752	-	-	

J1302D01_dSELN-503

Base Mount

Switch Body Description			Switch Body Catalogue Number				Switch Handle Code
Function	Switch Angle	Poles / Switch Wafers	Base Mount				
			12 Amp	16 Amp	20 Amp	25 Amp	
ON - OFF							
	90°	4 / 2	LA2-12-1754	LA2-16-1754	LA2-20-1754	LA2-25-1754	175 175I
	90°	1 / 1 3 / 2 4 / 2	LA2-12-1781 LA2-12-1783 LA2-12-1784	LA2-16-1781 LA2-16-1783 LA2-16-1784	LA2-20-1781 LA2-20-1783 LA2-20-1784	LA2-25-1781 LA2-25-1783 LA2-25-1784	178 178I
START - STOP							
	45°	1 / 1	LA2-12-9251	-	-	-	925
REVERSING							
	45°	3 / 3	LA2-12-7303	LA2-16-7303	LA2-20-7303	-	325
Double Throw							
	45°	2 / 2	LA2-12-3252	LA2-16-3252	LA2-20-3252	-	325 325R
Voltmeter							
	45°	NA / 3	LA2-12-8251	LA2-16-8251	LA2-20-8251	LA2-25-8251	825 825A
	45°	NA / 2	LA2-12-8271	-	-	-	827 827A
Ammeter							
	90°	1 / 3	LA2-12-8751	-	-	-	875
3 Current Transformers							

Note: For more switch body options contact NHP

J1302D01_dSELN-502



Example





Switch required is 3-pole, panel mount, ON-OFF marked positions with a 90 degree switching angle and rated at 16A. Switch should use handle with silver legend plate that's padlockable with dimensions of 48 x 48mm and should be mounted with screws.

Function	ON - OFF
Switch Angle	90 degrees clockwise starting from a vertical position
Amperage	16 A
Poles / Switch Wafers	3-Poles
Mounting	Panel
Switch Body Part Number (Selected)	LE2-16-1783

2 Determine the Switch Handle Assembly you require

- 1.1 Determine Type of **Switch Handle Assembly** (i.e Type A, E, I, L etc)
- 1.2 Determine **Mounting Method** (i.e Screw or Central Nut)
- 1.3 Determine **Frame Size** (i.e 48 x 48mm/64 x 64mm)

Switch Handle Assembly	Mounting Method	Frame Size	Catalog Number
Type A - Type 12 Silver Legend Plate - Black Knob 	Screw 1 3	48 x 48	LFS2-A-4-*
		64 x 64	LFS2-A-6-*
	Central Nut 2 3	48 x 48	LFC2-A-4-*
Type E - Type 12 Silver Legend Plate - Black Knob 	Screw 1 3	48 x 48	LFS2-E-4-*
		64 x 64	LFS2-E-6-*
	Central Nut 2 3	48 x 48	LFC2-E-4-*
Type I - Type 12 Yellow Legend Plate - Red Knob 	Screw 1 3	48 x 48	LFS2-I-4-*
		64 x 64	LFS2-I-6-*
	Central Nut 2 3	48 x 48	LFC2-I-4-*
Type L - Type 12 Yellow Legend Plate - Red Knob 	Screw 1 3	48 x 48	LFS2-L-4-*
		64 x 64	LFS2-L-6-*
	Central Nut 2 3	48 x 48	LFC2-L-4-*

Switch Handle Assembly	Mounting Method	Frame Size	Catalog Number
Type G - Type 12 Grey Frame - Black Handle 	Screw 1	67 x 67	LFS2-G-6-175
	Central Nut 2	67 x 67	LFC2-G-6-175
Type N - Type 12 Yellow Frame - Red Handle 	Screw 1	67 x 67	LFS2-N-6-175
	Central Nut 2	67 x 67	LFC2-N-6-175
Type B - Type 12 Grey Ring - Black Knob 			
	Central Nut 2	NA	LFC2-B-001
Type C - Type 12 Silver Legend Plate 			
	Central Nut 2	48 x 48	LFC2-C-4-*

- 1 Mounting screws included with Switch Body Assy.
- 2 Central Nut mounting method cannot be used on LA style Switch Body Assemblies.
- 3 To order Switch Handle Assembly without legend plate, replace (*) with "001".
- 4 LFS(C)2-G(N)-6-175 handles are marked "I-ON" and "O-OFF".

Example

In step 1, switch body LE2-16-1783 had been selected. Requirement for switch handle assembly with silver background and the knob to be padlocked

Switch Handle Assembly	Type E
Mounting Method	Screw Mount
Frame Size	48 x 48mm frame
Switch Handle Assembly Number	LFS2-E-4-*

3 Select Switch Handle Code and determine if code is available in the Switch Handle Assembly type

Switch Handle Code	Standard Legend Markings	Frame Size	Switch Handle Assembly type												
			Screw Mount						Central Nut						
			A	E	I	L	G	N	A	E	I	L	C	G	N
000		Standard	•	•	•	•			•	•	•	•	•		
	Larger	•	•	•	•						•				
175		Standard	•	•	•	•	•	•	•	•	•	•	•	•	•
	Larger	•	•	•	•						•				
175I		Standard	•	•	•	•	•	•	•	•	•	•	•	•	•
	Larger	•	•	•	•						•				
178		Standard	•	•	•	•			•	•	•	•	•		
	Larger	•	•	•	•						•				
178I		Standard	•	•	•	•			•	•	•	•	•		
	Larger	•	•	•	•						•				
225		Standard	•						•				•		
	Larger	•													
250		Standard	•						•				•		
	Larger	•													
325		Standard	•						•				•		
	Larger	•													
325R		Standard	•						•				•		
	Larger	•													
350		Standard	•						•				•		
	Larger	•													
375		Standard	•						•				•		
	Larger	•													

Switch Handle Code	Standard Legend Markings	Frame Size	Switch Handle Assembly type												
			Screw Mount						Central Nut						
			A	E	I	L	G	N	A	E	I	L	C	G	N
450		Standard	●						●				●		
	Larger	●													
451		Standard	●						●				●		
	Larger	●													
525		Standard	●						●				●		
	Larger	●													
526		Standard	●						●				●		
	Larger	●													
527		Standard	●						●				●		
	Larger	●													
825		Standard	●						●						
	Larger	●													
825A		Standard	●						●						
	Larger	●													
827		Standard	●						●						
	Larger	●													
827A		Standard	●						●						
	Larger	●													
875		Standard	●						●	●					
	Larger	●													
925		Standard	●						●						
	Larger	●													

J1302D01_dSELN-S05

Example

Switch body selected earlier was LE2-16-1783, which has a switch handle code of 178 and 178I. Similarly a Type E switch handle assembly was selected, which is available with either 178 or 178I switch handle codes as noted above.

Switch handle code

178 or 178I

Confirm compatibility by moving horizontally across the row and coinciding with column bearing Type E under the main column Screw Mount.

As per the table Switch Handle Codes 178/178I are compatible with Switch Handle Assemblies.

Switch Handle Assembly code (Complete)

LFS2-A-4-178 or LFS2-A-4-178I

Select between 178 and 178I depending on marking required on the legend plate e.g 0 1 or OFF ON

Complete S + S Cam Switch selected consists of following two part numbers

1. LE2-16-1783
2. LFS2-E-4-178

4 Select Optional Modular
or Metal Shaft extension components

Modular Shaft Extension Components (LA2 Base Mount)

Component	Catalogue Number
44mm End Shaft (supplied with LA2 Switch Body Assembly)	LA2-G2830
52mm End Shaft	LA2-G3194
57mm End Shaft	LA2-G3195
Extension Module (two per pkg - priced per pkg)	LA2-G2853

Metal Shaft Extension Components (LA2 Base Mount)

Component	Catalogue Number
Short Metal Shaft Length: 10 ... 235mm (4-21/64...9-1/4 in.)	LA2-G3393
Long Metal Shaft Length: 230 ... 350mm (9-3/64...13-51/64 in.)	LA2-G3394
Insert - For modifying metal shaft to switch position	LA2-G3398
Insert - For modifying metal shaft to switch any position (not lockable)	LA2-G3399

Modular Shaft Extension Components (LA2 Base Mount)

Number of Extension Modules	Required End Shaft	Mounting depth (mm)	
		Switch body LA2-12/16	Switch body LA2-20/25
0	44mm	71.5 - 77.5	75 - 80.5
0	52mm	77 - 87	80 - 90
0	57mm	82 - 92	85 - 95
1	44mm	99.5 - 101.5	99 - 105
1	52mm	97.5 - 111	101 - 114.5
1	57mm	102.5 - 116	106 - 119.5
2	44mm	119.5 - 125.5	123 - 129
2	52mm	121.5 - 135	125 - 138.5
2	57mm	126.5 - 140	130 - 143.5
3	44mm	143.5 - 149.5	147 - 153
3	52mm	145.5 - 159	149 - 162.5
3	57mm	150.5 - 164	154 - 167.5
4	44mm	167.5 - 173.5	171 - 177
4	52mm	169.5 - 183	173 - 186.5
4	57mm	169.5 - 183	178 - 191.5
5	44mm	191.5 - 197.5	195 - 201
5	52mm	193.5 - 207	197 - 210.5
5	57mm	198.5 - 212	202 - 215.5
6	44mm	215.5 - 221.5	219 - 225
6	52mm	217.5 - 231	221 - 234.5
6	57mm	222.5 - 236	226 - 239.5

Metal Shaft Extension Table

Number of Extension Modules	Mounting depth (mm)	
	Switch body LA2-12/16	Switch body LA2-20/25
LA2-G3393	178 - 309	181.5 - 312.5
LA2-G3394	298 - 424	301.5 - 427.5

J1302D01_dSELN-506

Modular Shaft Extension



Metal Shaft Extension



Control and Cam Switches

Sprecher + Schuh Control Switches

L2 Control Switches Complete with Knob	Page 656
OFF / ON Switches	Page 658
Changeover Switches	Page 659
Stop/Start Switches with Spring Return	Page 662
L2 Step Switches	Page 662
Voltmeter Switches	Page 663
Ammeter for 3CTs	Page 664
Reversing and 2 Speed Switches	Page 665
Control Switches for Modular Distribution Panel	Page 665
Legends for L2 Control Switches	Page 666
Accessories for Control and Cam Switches	Page 666



Safety and quality

- Switch bodies with Touch-Proof terminals (IP 20)
- IP 65 Control knobs
- Long operational life and high reliability
- Positive switching action with clearly defined switching point
- All switch bodies are manufactured from self-extinguishing materials (corresponding to class UL 94 V0)

Time Saving installation

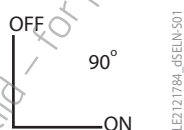
- Captive terminal screws already open for fast installation
- Robust screwdriver guide for easy wiring using manual or power screwdriver
- Clear terminal markings prevent wiring mistakes
- Easy access to switch terminals (angled screws)
- Switch handle assemblies available with either screw fixing or central nut mounting

The Sprecher + Schuh range of L2 control switches is a comprehensive range of cam switches designed to meet various control and load switching requirements. The modular range provides simple but reliable assembly, with only two part numbers (switch handle + switch body assembly) required to build a complete L2 switch. Switches are available in 12, 16, 20 and 25A sizes with a wide variety of handle types to choose from to accommodate for various switching requirements. The switch bodies are manufactured from self-extinguishing materials and include touch proof (IP20) terminals whereas the control knobs are IP65 rated. The range is well supported by a host of accessories such as extension shafts and door interlocks to suit your application requirements.

L2 Control Switches Complete with Knob

These L2 switches are ordered as a complete kits with both the standard control knob and switch body pre-assembled. Various complete kits are available with a range of switching functions

Function



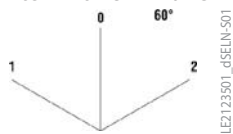
OFF / ON Switch - Panel Mounted with Standard Knob



SA-LE2-12-1781

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/1	48 x 48 x 72		SA-LE2-12-1781	106.00
12	12	1.3	4	2/1	48 x 48 x 72		SA-LE2-12-1782	121.00
12	12	1.3	4	1/1	48 x 48 x 72		CA-LE2-12-1781	123.00
12	12	1.3	4	2/1	48 x 48 x 72		CA-LE2-12-1782	133.00

Changeover Switch with Off - Panel Mounted with Standard Knob

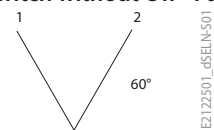


AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/1	48 x 48 x 72		SA-LE2-12-3501	128.00
12	12	1.3	4	1/1	48 x 48 x 72		CA-LE2-12-3501	141.00
12	12	1.3	4	2/2	48 x 48 x 82		SA-LE2-12-3502	161.00
12	12	1.3	4	2/2	48 x 48 x 82		CA-LE2-12-3502	170.00



SA-LE2-12-3502

Changeover Switch without Off - Panel Mounted with Standard Knob

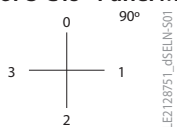


AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/1	48 x 48 x 72		SA-LE2-12-2501	128.00
12	12	1.3	4	1/1	48 x 48 x 72		CA-LE2-12-2501	141.00
12	12	1.3	4	2/2	48 x 48 x 82	A	SA-LE2-12-2502	178.00
12	12	1.3	4	2/2	48 x 48 x 82		CA-LE2-12-2502	184.00



CA-LE2-12-2502

Ammeter Switch for 3 CTs - Panel Mounted with Standard Knob



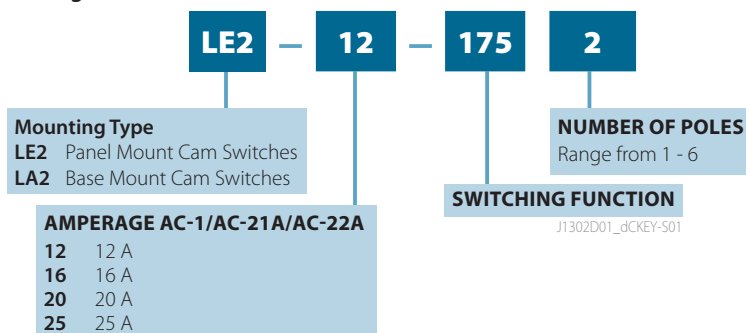
AC-21a (A@690V)	AC-22a (A@220-500V)	Poles	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1	48 x 48 x 92	A	SA-LE2-12-8751	193.00
12	12	1	48 x 48 x 92	I	CA-LE2-12-8751	205.00



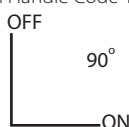
CA-LE2-12-8751

OFF / ON Switches

L2 OFF/ON control switches (also known as isolators) are for auxiliary control/isolation of a motor or other device. Simply wire up incoming power to the input terminals and the device power terminals to the output terminals of the switch. Available in panel or base mount with a wide variety of control knobs to suit every application.

Catalogue Number Construction**Switch Body - Panel Mount**

To be used with Switch Handle Code 178/178I

Function

LE2121784_dSELIN-S01

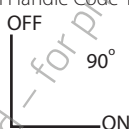


LE 2-12-1781

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/1	42 x 42 x 44		LE 2-12-1781	79.00
12	12	1.3	4	2/1	42 x 42 x 44		LE 2-12-1782	91.00
12	12	1.3	4	3/2	42 x 42 x 54		LE 2-12-1783	132.00
12	12	1.3	4	4/2	42 x 42 x 54		LE 2-12-1784	160.00
16	16	2.2	5.5	3/2	42 x 42 x 64		LE 2-16-1783	160.00
20	20	2.5	7.5	1/1	55 x 55 x 44.5		LE 2-20-1781	128.00
20	20	2.5	7.5	2/1	55 x 55 x 44.5		LE 2-20-1782	160.00
20	20	2.5	7.5	3/2	55 x 55 x 57		LE 2-20-1783	205.00
20	20	2.5	7.5	4/2	55 x 55 x 57		LE 2-20-1784	233.00
25	25	3.2	11	3/2	55 x 55 x 57		LE 2-25-1783	256.00
25	25	3.2	11	2/1	55 x 55 x 57		LE2-25-1782	104.00
25	25	3.2	11	4/2	55 x 55 x 82		LE2-25-1784	241.00

Switch Body - Base Mount

To be used with Switch Handle Code 178/178I

Function

LE2121784_dSELIN-S01



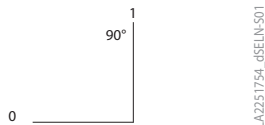
LA 2-16-1783

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/1	59 x 59 x 58	I	LA 2-12-1781	94.00
16	16	2.2	5.5	3/2	59 x 59 x 68		LA 2-16-1783	184.00
25	25	3.2	11	3/2	62 x 48 x 71.5	I	LA 2-25-1783	277.00

Switch Body - Base Mount

To be used with Switch Handle Code 175/175I

Function



AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
25	25	3.2	11	4/2	55 x 55 x 82	I	LA2-25-1754	280.00

Control Knobs for Off / On Switches

To be used with Switch Body Code 178/178I

Note: Code 001 indicates blank plate

Knob Code	Engraving	Mounting	H x W (mm)	Item Type	Catalogue No.	\$AU
A	Off - On	Screw Fixing	48 x 48	K	LFS2-A-4178I	27.00
B		22.5mm Mounting	30 x 30	I	LFC2-B-001	29.00
A	Off - On	22.5mm Mounting	48 x 48	K	LFC2-A-4-178I	41.00
E	Off - On	Screw Fixing	48 x 48	K	LFS2-E-4178I	47.00
N	Off - On	Screw Fixing	67 x 67		LFS2-N-6-178	72.00
C		22.5mm Mounting	48 x 48		LFC2-CC-4-001	189.00
C	Off - On	22.5mm Mounting	48 x 48	K	LFC2-CC-4178I	189.00



LFC2-B-001

Changeover Switches

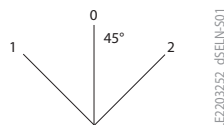
L2 changeover switches are designed to alter where the supply power is coming from and is primarily used for manually switching from the mains to a generator power source. Available in both panel and base mount variants with a wide variety of control knob designs to choose from for your application. The range includes models that can changeover up to 4 poles.

Changeover with Off

Complete

Item Description	Item Type	Catalogue No.	\$AU
Kit for DIN M-O-A Rail MNT SW (Complete kit with switch body and handle)	K	LA212UNICOSK	162.00

Function



Switch Body - Panel Mount 45 Degrees

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
20	20	2.5	7.5	2/2	50 x 49 x 44.5	I	LE2-20-3252	291.00
25	25	3.2	11	3/3	55 x 55 x 82		LE2-25-3253	308.00
25	25	3.2	11	4/4	55 x 55 x 82		LE2-25-3254	386.00

Function



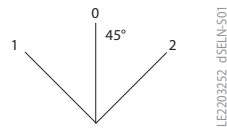
Switch Body - Panel Mount 60 Degrees

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/1	42 x 42 x 44		LE 2-12-3501	97.00
12	12	1.3	4	2/2	42 x 42 x 54		LE 2-12-3502	140.00
12	12	1.3	4	3/3	42 x 42 x 64		LE 2-12-3503	208.00
12	12	1.3	4	4/4	42 x 42 x 74		LE 2-12-3504	260.00
20	20	2.5	7.5	1/1	50 x 49 x 44.5		LE 2-20-3501	160.00
20	20	2.5	7.5	2/2	50 x 49 x 57		LE 2-20-3502	233.00
20	20	2.5	7.5	3/3	50 x 49 x 69.5		LE 2-20-3503	316.00
25	25	3.2	11	3/3	55 x 55 x 82	I	LE 2-25-3503	378.00
25	25	3.2	11	4/4	55 x 55 x 82	I	LE 2-25-3504	432.00



LE 2-12-3501

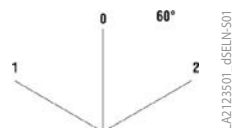
Function



Switch Body - Base Mount 45 Degrees

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
20	20	2.5	7.5	2/2	62 x 62 x 59	I	LA2-20-3252	308.00

Function



Switch Body - Base Mount 60 Degrees

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/1	59 x 59 x 58		LA 2-12-3501	123.00
12	12	1.3	4	2/2	59 x 59 x 68		LA 2-12-3502	170.00



LA 2-12-3501

Control Knobs for Changeover with Off

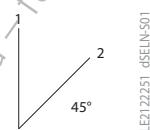
Switch Handle Code	Engraving	Mounting	H x W (mm)	Switch Code	Item Type	Catalogue No.	\$AU
A	1 - 0 - 2	Screw Fixing	48 x 48	350	K	LFS2-A-4350	27.00
A	Man - OFF - Auto	Screw Fixing	48 x 48	350	K	LFS2A4350R	27.00
A	Local - OFF - Remote	Screw Fixing	48 x 48	350	K	LFS2-A-4350S	27.00
P	Man - OFF - Auto	Screw Fixing	45 x 54	350		LFS2-P-4-350R	40.00
A	1 - 0 - 2	22.5mm Mounting	48 x 48	350	K	LFC2-A-4350	41.00
A	Man - OFF - Auto	22.5mm Mounting	48 x 48	350	K	LFC2-A-4350R	41.00
A	Local - OFF - Remote	22.5mm Mounting	48 x 48	350	K	LFC2-A-4350S	41.00
E	1 - 0 - 2	Screw Fixing	48 x 48	350	K	LFS2-E-4350	47.00
E	Man - OFF - Auto	Screw Fixing	48 x 48	350	K	LFS2-E-4350R	47.00
C	1 - 0 - 2	22.5mm Mounting	48 x 48	350	K	LFC2-CC-4350	189.00



LFC2-CC-4350

Changeover without Off 45 Degree

Function



Switch Body - Panel Mount

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/1	42 x 42 x 44	I	LE 2-12-2251	97.00
25	25	3.2	11	4/4	55 x 55 x 82	I	LE2-25-2254	458.00



LE 2-12-2251

Control Knobs for Changeover without Off 45 Degree

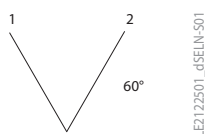
Knob Code	Engraving	Mounting	H x W (mm)	Item Type	Catalogue No.	\$AU
A	1 - 2	Screw Fixing	48 x 48	K	LFS2-A-4225	27.00
A	Man - Auto	Screw Fixing	48 x 48	K	LFS2-A-4225R	27.00
A	1 - 2	22.5mm Mounting	48 x 48	K	LFC2-A-4-225	41.00
A	Man - Auto	22.5mm Mounting	48 x 48	K	LFC2-A-4-225R	41.00
C	1 - 2	22.5mm Mounting	48 x 48	K	LFC2-CK-4225	189.00



LFC2-CK-4225

Changeover Without Off 60 Degree

Function



Switch Body - Panel Mount

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/1	42 x 42 x 44		LE 2-12-2501	94.00
12	12	1.3	4	2/2	42 x 42 x 54		LE 2-12-2502	145.00
20	20	2.5	7.5	1/1	55 x 55 x 44.5	I	LE 2-20-2501	160.00
12	12	1.3	4	3/3	42 x 42 x 64		LE 2-12-2503	208.00
20	20	2.5	7.5	2/2	55 x 55 x 57	I	LE 2-20-2502	241.00
12	12	1.3	4	4/4	42 x 42 x 74		LE 2-12-2504	260.00
20	20	2.5	7.5	3/3	55 x 55 x 69.5	I	LE 2-20-2503	316.00
25	25	3.2	11	3/3	55 x 55 x 69.5	I	LE 2-25-2503	378.00



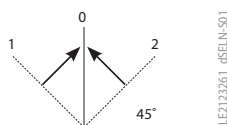
LE 2-12-2501

Control Knobs for Changeover Without Off 60 Degree

Knob Code	Engraving	Mounting	H x W (mm)	Item Type	Catalogue No.	\$AU
A	1 - 2	Screw Fixing	48 x 48	K	LFS2-A-4250	27.00
A	Man - Auto	Screw Fixing	48 x 48	K	LFS2-A-4250R	27.00
A	1 - 2	22.5mm Mounting	48 x 48	K	LFC2-A-4-250	41.00
A	Man - Auto	22.5mm Mounting	48 x 48	K	LFC2-A-4250R	41.00

Changeover Spring Return

Function



Switch Body - Panel Mount

AC-21a (A@690V)	AC-22a (A@220-500V)	Mounting	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	Panel Mount	4	1/1	42 x 40 x 44		LE 2-12-3261	97.00
12	12	Panel Mount	4	2/2	42 x 40 x 54		LE 2-12-3262	130.00



LE 2-12-3262

Control Knobs for Changeover Spring Return

Knob Code	Engraving	Mounting	H x W (mm)	Item Type	Catalogue No.	\$AU
A	1 - 0 - 2	Screw Fixing	48 x 48	K	LFS2-A-4325	27.00
A	Man - 0 - Auto	Screw Fixing	48 x 48	K	LFS2-A-4325R	27.00
A	1 - 0 - 2	22.5mm Mounting	48 x 48	K	LFC2-A-4325	41.00
A	Man - 0 - Auto	22.5mm Mounting	48 x 48	K	LFC2-A-4325R	41.00
C	1 - 0 - 2	22.5mm Mounting	48 x 48	K	LFC2-CC-4325	189.00



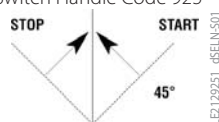
LFS2-A-4325

Stop/Start Switches with Spring Return

The S+S L2 Stop/Start cam switches when operated with are designed to switch and start motors. They have a spring-return internally built mechanism from the start position, upon it's release it switches back the device back to stop. This cam switch type is useful for switching an moving motors in sporadic bursts. Available in both panel and base mount styles.

Switch Body - Panel Mount

To be used with Switch Handle Code 925

Function

LE 2-12-9251

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/1	42 x 42 x 44		LE 2-12-9251	97.00

Switch Body - Base Mount

To be used with Switch Handle Code 925



LA2-12-9251

AC-21a (A@690V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	1.3	4	1/1	42 x 42 x 58		LA2-12-9251	104.00

Control Knobs for Stop / Start with Spring Return

To be used with Switch Body Code 925



LFC2-CC-4925

Knob Code	Engraving	Mounting	H x W (mm)	Item Type	Catalogue No.	\$AU
A	Stop - Start	Screw Fixing	48 x 48	K	LFS2-A-4925	27.00
A	Stop - Start	22.5mm Mounting	48 x 48	K	LFC2-A-4925	41.00
C	Stop - Start	22.5mm Mounting	48 x 48	K	LFC2-CC-4925	189.00

L2 Step Switches

L2 step switches are designed for auxiliary switching between up to 6 devices. By simply wiring up one input and up to 6 outputs the signal can be re-directed at the will of the operator. Available in panel mount style with a wide variety of control knobs to suit every application.

Step Switches with Off

525 -> Switch Handle Code 525

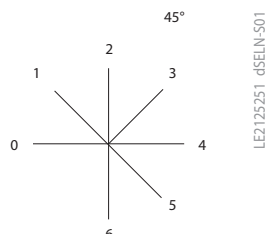
526 -> Switch Handle Code 526

527 -> Switch Handle Code 527

Switch Body - Panel Mount

LE 2-12-5251

AC-21a (A@690V)	Steps (qty)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	2	1.3	4	1/1	42 x 42 x 44	I	LE 2-12-5251	97.00
12	3	1.3	4	1/1	42 x 42 x 54		LE 2-12-5261	130.00
12	4	1.3	4	1/1	42 x 42 x 54		LE 2-12-5271	148.00
20	4	2.5	7.5	1/1	55 x 55 x 57		LE 2-20-5261	209.00
20	5	2.5	7.5	1/1	55 x 55 x 57	I	LE 2-20-5271	242.00
25	4	3.2	11	2/2	55 x 55 x 57	I	LE2-25-5252	258.00

Function

Control Knobs for Step Switches with Off

Knob Code	Engraving	Mounting	H x W (mm)	Item Type	Catalogue No.	\$AU
A	2 steps	Screw Fixing	48 x 48	K	LFS2-A-4525	27.00
A	3 steps	Screw Fixing	48 x 48	K	LFS2-A-4526	27.00
A	4 steps	Screw Fixing	48 x 48	K	LFS2-A-4527	27.00
A	5 steps	Screw Fixing	48 x 48	K	LFS2-A-4528	27.00
A	6 steps	Screw Fixing	48 x 48	K	LFS2-A-4529	27.00
A	2 steps	22.5mm Mounting	48 x 48	K	LFC2-A-4525	41.00
A	3 steps	22.5mm Mounting	48 x 48	K	LFC2-A-4526	41.00
A	4 steps	22.5mm Mounting	48 x 48	K	LFC2-A-4527	41.00
A	5 steps	22.5mm Mounting	48 x 48	K	LFC2-A-4528	41.00
A	6 steps	22.5mm Mounting	48 x 48	K	LFC2-A-4529	41.00

Step Switches without Off

Switch Body - Panel Mount

AC-21a (A@690V)	Steps (qty)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	4	1.3	4	1/1	42 x 42 x 54	I	LE 2-12-4261	169.00
25	4	3.2	11	2/4	55 x 55 x 57	I	LE2-25-4512	514.00



LE 2-12-4261

Control Knobs for Step Switches without Off

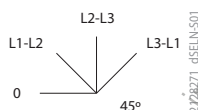
Knob Code	Engraving	Mounting	H x W	Item Type	Catalogue No.	\$AU
A	3 steps	Screw Fixing	48 x 48	K	LFS2-A-4425	27.00
A	4 steps	Screw Fixing	48 x 48	K	LFS2-A-4426	27.00
A	5 steps	Screw Fixing	48 x 48	K	LFS2-A-4-427	27.00
A	6 steps	Screw Fixing	48 x 48	K	LFS2-A-4428	27.00
A	3 steps	22.5mm Mounting	48 x 48	K	LFC2-A-4425	41.00
A	4 steps	22.5mm Mounting	48 x 48	K	LFC2-A-4426	41.00
A	5 steps	22.5mm Mounting	48 x 48	K	LFC2-A-4427	41.00
A	6 steps	22.5mm Mounting	48 x 48	K	LFC2-A-4428	41.00

Voltmeter Switches

L2 voltmeter switches are a quick and easy to install method of providing more flexibility to the operator when measuring phase to phase or phase to neutral voltages. Rather than hardwire each voltage to a measurement device each input can be connected to a voltmeter switch with the output being determined by the switch position e.g. L1-N. Available in panel mount style with a wide variety of control knobs to suit every application.

Phase to Phase

Function



Switch Body - Panel Mount

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	2	42 x 42 x 54	I	LE 2-12-8271	147.00
25	25	3.2	11	2	55 x 55 x 57	I	LE 2-25-8271	299.00



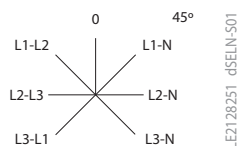
LE 2-12-8271

Control Knobs for Phase to Phase

Knob Code	Engraving	Mounting	H x W (mm)	Item Type	Catalogue No.	\$AU
A	L1 - L2, L2 - L3, L3 - L1	Screw Fixing	48 x 48	K	LFS2-A-4827A	27.00
A	L1 - L2, L2 - L3, L3 - L1	22.5mm Mounting	48 x 48	K	LFC2-A-4827A	41.00

Phase to Phase and Phase to Neutral

Function



Switch Body - Panel Mount



LE 2-12-8251

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	3	42 x 42 x 64		LE 2-12-8251	202.00
25	25	3.2	11	3	55 x 55 x 69.5		LE2-25-8251	369.00

Control Knobs for Phase to Phase and Phase to Neutral

Knob Code	Engraving	Mounting	H x W (mm)	Item Type	Catalogue No.	\$AU
A	L1 - L2 (N), L2 - L3 (N), L3 - L1 (N)	Screw Fixing	48 x 48	K	LFS2-A-4825A	27.00
A	L1 - L2 (N), L2 - L3 (N), L3 - L1 (N)	22.5mm Mounting	48 x 48	K	LFC2-A-4825A	41.00

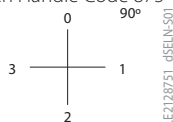
Ammeter for 3CTs

L2 ammeter switches are a quick and easy to install method of providing more flexibility to the operator when measuring three-phase current, also ensuring that the CTs are never open circuit. Rather than hardwire each phase to a measurement device each CT can be connected to an ammeter switch with the output being determined by the switch position, for example, line 1. Available in panel mount style with a wide variety of control knobs to suit every application.

Switch Body - Panel Mount 1 Pole

To be used with Switch Handle Code 875

Function



LE 2-12-8751

AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 1ph (kW@220-240V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	1.3	4	1/3	42 x 42 x 64		LE 2-12-8751	170.00
25	25	3.2	11	1/3	55 x 55 x 69.5		LE 2-25-8751	410.00

Control Knobs

To be used with Switch Body Code 875

Knob Code	Engraving	Mounting	H x W (mm)	Item Type	Catalogue No.	\$AU
A	0 - 1 - 2 - 3	Screw Fixing	48 x 48	K	LFS2-A-4875	27.00
A	0 - 1 - 2 - 3	22.5mm Mounting	48 x 48	K	LFC2-A-4875	41.00



LFS2-A-4875

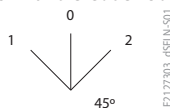
Reversing and 2 Speed Switches

L2 reversing switches provide an efficient method for auxiliary control of devices with forward and reverse directions. Available in panel and base mount style with a wide variety of control knobs to suit every application.

Switch Body - Panel Mount Reversing Three-Phase

To be used with Switch Handle Code 730

Function



AC-21a (A@690V)	AC-22a (A@220-500V)	AC-23a 3ph (kW@380-440V)	Poles/Wafers	H x W x D (mm)	Item Type	Catalogue No.	\$AU
12	12	4	3/3	42 x 42 x 64	I	LE 2-12-7303	189.00
25	25	11	3/3	55 x 55 x 69.5		LE 2-25-7303	349.00



LE 2-12-7303

Control Knobs - Reversing and 2 Speed Switch

To be used with Switch Body Code 730

Knob Code	Engraving	Mounting	H x W (mm)	Item Type	Catalogue No.	\$AU
A	Fwd - 0 - Rev	Screw Fixing	48 x 48	K	LFS2-A-4730R	27.00
A	Fwd - 0 - Rev	22.5mm Mounting	48 x 48	K	LFC2-A-4730R	41.00
E	Fwd - 0 - Rev	Screw Fixing	48 x 48	K	LFS2-E-4730R	47.00

Control Switches for Modular Distribution Panel

For use in standard distribution boards - depth = 49 mm, rating - 12 A. DIN type switches are supplied complete with knob and engraved escutcheon.

Item Description	Item Type	Catalogue No.	\$AU
Switch Complete 1P Off-On Mod Distribution		LA 2-12-1751/Q	161.00
Switch Complete 1P Changeover M-O-A Mod Distribution		LA 2-12-UNI-COS	172.00
Switch Complete Lighting Test Mod Distribution	K	LA 2-UNIEMLS	176.00
Switch Complete 1P Changeover Mod Distribution		LA 2-12-3251/Q	208.00



LA 2-12-1751/Q

Legends for L2 Control Switches

A large range of standard legends is available for the L2 range of control switches in order to personalise each switch and ensure the correct information is available to the operator in every application.



LL 2-A-4-425

Item Description	Item Type	Catalogue No.	\$AU
Legend Plate 48X48mm Blank, Silver		LL 2-A-4-000	9.45
Legend Plate 48X48mm Off-On, On at 0 deg Off at - 90 deg, Silver		LL 2-A-4-175I	9.45
Legend Plate 48X48mm Off-On, On at 90 deg Off at 0 deg, Silver		LL 2-A-4-178 I	9.45
Legend Plate 48X48mm 1-2 60 deg, Silver		LL 2-A-4-250	9.45
Legend Plate 48X48mm M-O-A, Silver		LL 2-A-4-325	9.45
Legend Plate 48X48mm 1-0-2, Silver		LL 2-A-4-350	9.45
Legend Plate 48X48mm Man-O-Auto 60Dg, Silver		LL 2-A-4-350R	9.45
Legend Plate 48X48mm Loc-Off-Rem, Silver		LL 2-A-4-350S	9.45
Legend Plate 48X48mm 1-0-2, Silver	I	LL 2-A-4-375	9.45
Legend Plate 48X48mm 1-2-3, Silver	I	LL 2-A-4-425	9.45
Legend Plate 48X48mm 1-2-3-4-5-6, Silver	I	LL 2-A-4-428	9.45
Legend Plate 48X48mm 0-1-2-3, Silver		LL 2-A-4-526	9.45
Legend Plate 48X48mm 0-1-2-3-4, Silver		LL 2-A-4-527	9.45
Legend Plate 48X48mm 0-1-2-3-4-5, Silver	I	LL 2-A-4-528	9.45
Legend Plate 48X48mm 0-1-2-3-4-5-6, Silver	I	LL 2-A-4-529	9.45
Legend Plate 48X48mm Star-Delta, Silver	I	LL 2-A-4725	9.45
Legend Plate 48X48mm 0/L1-L2/N, Silver		LL 2-A-4-825A	9.45
Legend Plate 48X48mm 0/L1-L2/L2-L3, Silver		LL 2-A-4-827A	9.45
Legend Plate 48X48mm 0-1-2-3, Silver		LL 2-A-4-875	9.45
Legend Plate 48X48mm Start-Stop, Silver	I	LL 2-A-4-925	9.45
Legend Plate 48X48mm Yellow Blank	I	LL 2-I-4-000	9.45
Legend Plate 48X48mm Man-Auto, Silver		LL 2-A-4-250R	9.75
Legend Plate 64X64mm Off-On, Silver	I	LL 2-A-6-175I	14.00
Legend Plate 64X64mm 1-0-2, Silver	I	LL 2-A-6-375	14.00
Legend Cover Plate Emerg L/Swrnt, Silver		LL 2-P4-925ELS	18.00
Legend Plate Din 45X54mm Blank, Silver		LL 2-P-4-000	20.00
Legend Plate 48X48mm Man-Auto, Silver	A	LL 2-A-4-225R	32.00
Legend Plate 48X48mm Fwd-Off-Rev, Silver		LL 2-A-4-730R	32.00
Legend Plate 48X48mm Yellow Off-On		LL 2-I-4-178 I	32.00

Accessories for Control and Cam Switches**Escutcheon and Knob without Legend Plate**

LFS 2-E-4-001

Item Description	Item Type	Catalogue No.	\$AU
Knob Standard 48X48mm Screw Mount		LFS2-A-4-001	18.00
Standard Knob 48X48mm 22.5mm Mount Central Nut		LFC2-A-4-001	36.00
Knob Padlockable 48X48mm 22.5mm Mount Central Nut		LFC2-E-4-001	38.00
Knob Padlockable 48X48mm Screw Mount		LFS 2-E-4-001	40.00
Red Knob Yellow Legend Plate Padlockable 48X48mm Screw Mount		LFS 2-L-4-001	49.00

Noryl Enclosure

LA 2-G 3578

Item Description	Item Type	Catalogue No.	\$AU
Noryl Enclosure Blank Lid 95X150X86mm	I	LA 2-G 3578	205.00

Noryl Enclosure Accessories

L 2-G3667

Item Description	Item Type	Catalogue No.	\$AU
Blank Clip On Name Plates For Actuators	I	L 2-G3667	14.00

Rotary Cam Switch - Metal Shaft Extension Component

Item Description	Item Type	Catalogue No.	\$AU
Insert To Modify Metal Shaft To Switch Position Red	I	LA 2-G-3398	8.10
Insert To Modify Metal Shaft To Switch Any Position White	I	LA 2-G-3399	8.75
Metal Shaft Short Yellow 235mm long		LA 2-G-3393	77.00
Metal Shaft Long Yellow 350mm long		LA 2-G-3394	103.00



LA 2-G-3399

Rotary Cam Switch - Modular Shaft Extension Component

Item Description	Item Type	Catalogue No.	\$AU
Shaft Extension Standard 44mm		LA 2-G-2830	6.85
Shaft Extension Standard 52mm	I	LA 2-G-3194	10.00
Shaft Extension Standard 57mm		LA 2-G-3195	10.00
Shaft Extension including Coupling 24mm		LA 2-G-2853	20.00



LA 2-G-2853

Foot Switches

Steute Foot Switches



- Wide variety of contact configurations available with special versions for 2-stage switching
- Specialised versions available that are suitable for safety applications
- Metal or plastic enclosure versions available
- Specialised IP69K rated and corrosion resistant versions available suitable for demanding environments
- Other colours available upon request

Foot switches are mounted on machines and plants in cases where operation using the hands is not possible. They are used to start and stop operations and production processes. Depending on the environmental conditions and mechanical duty, differing versions of foot switches are used. The robust GF, GFS, GFI and GFSI range switches are generally used in the engineering industry, e.g. on presses, punching and bending machines, as well as in sheet-steel processing.

Momentary Foot Switch with Relay Output

Momentary foot switches are used in standard foot switch applications to only operate machines when the foot switch is pressed down. There are different variations available - with/without protective cover, contact configuration, number of pedals and output contacts.

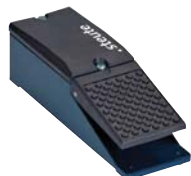
- 1, 2 or 3-pedal versions
- With/without protective cover
- Max. 4 contacts

Standard Duty Foot Switches

Foot switches for general purpose applications.

Series GF - Single Pedal without Protective Cover

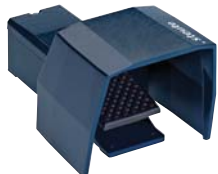
Contact (action)	Contact (configuration)	Pedals (qty)	Guarded (Y / N)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Slow Action	1 NO + 1 NC	1	No	IP65	Screw Terminal(s)		GF 10/15	465.00
Snap Action	1 NO + 1 NC	1	No	IP65	Screw Terminal(s)		GFM 10/15	496.00
Snap Action	2 NO + 2 NC	1	No	IP65	Screw Terminal(s)	I	GFM 20/25	714.00



GF 10/15

Series GFS - Single Pedal with Protective Cover

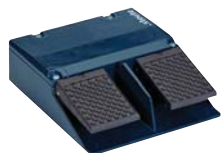
Contact (action)	Contact (configuration)	Pedals (qty)	Guarded (Y / N)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Slow Action	1 NO + 1 NC	1	Yes	IP65	Screw Terminal(s)		GFS 10/15	511.00
Snap Action	1 NO + 1 NC	1	Yes	IP65	Screw Terminal(s)		GFSM 10/15	536.00
Slow Action	2 NO + 2 NC	1	Yes	IP65	Screw Terminal(s)		GFS20/25	559.00
Snap Action	2 NO + 2 NC	1	Yes	IP65	Screw Terminal(s)		GFSM20/25	621.00



GFS 10/15

Series GFS2 - Dual Pedal with Protective Cover

Contact (action)	Contact (configuration)	Pedals (qty)	Guarded (Y / N)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Slow Action	2 NO + 2 NC	2	Yes	IP65	Screw Terminal(s)		GFS 2 10S 10S	1,140.00
Slow Action	2 NO + 2 NC	2	Yes	IP65	Screw Terminal(s)		GFS 2 20S 20S	1,488.00



GFS 2 10S 10S

Struggling with limited reach or awkward cables from your devices?

NO CABLES, NO PROBLEMS!

See **Wireless Field Devices** in the **FIELD SWITCHING AND SENSING** Section

Extreme Duty Foot Switches

Foot switches for Extreme conditions, IP69k rated for high pressure wash-down applications.

Series GFS IP69 Extreme - Single Pedal

Contact (action)	Contact (configuration)	Pedals (qty)	Guarded (Y / N)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Slow Action	1 NO + 1 NC EB 1st Contact	1	Yes	IP66, IP67, IP69K	Screw Terminal(s)		GFS101SIP69K	567.00



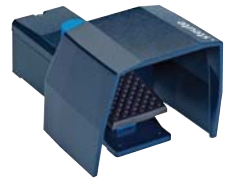
GFS101SIP69K

Safety Foot Switches

All safety foot switches are mounted with a shield to protect against unintentional operation. When the foot pedal is actuated to as far as the pressure point, the N/O contact is closed. If, in case of danger, the pedal is actuated beyond the pressure point, then the positive break N/C contact is opened and mechanically latched. Reset operation is carried out by means of a built-in pushbutton in the foot switch.

Series GFS VD

Contact (action)	Contact (configuration)	Pedals (qty)	Guarded (Y / N)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Slow Action	1 NO + 1 NC EB 1st Contact	1	Yes	IP65	Screw Terminal(s)		GFS 1S D 10 VD	1,008.00
Slow Action	2 NO + 2 NC	1	Yes	IP65	Screw Terminal(s)		GFS 2S D 20 VD	1,335.00



GFS 1S D 10 VD

2-Step Foot Switch with Relay Output

Foot switches with Pressure Point: 2-Step switching.

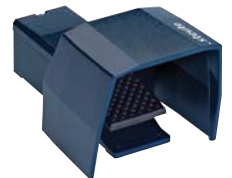
- 4 contacts
- Metal body
- Wiring compartment

Standard Duty Foot Switches

Foot switches for general purpose applications.

Series GFS - Single Pedal with Protective Cover

Contact (action)	Contacts (stage 1, 2)	Pedals (qty)	Guarded (Y / N)	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Slow Action	1 NO + 1 NC EB 1st Contact, 1 NO + 1 NC EB 1st Contact	1	Yes	IP65	Screw Terminal(s)	I	GFS 10S D 10S	900.00



GFS 10S D 10S

Pendants and Pendant Systems

Allen-Bradley 800FC Pendant Stations



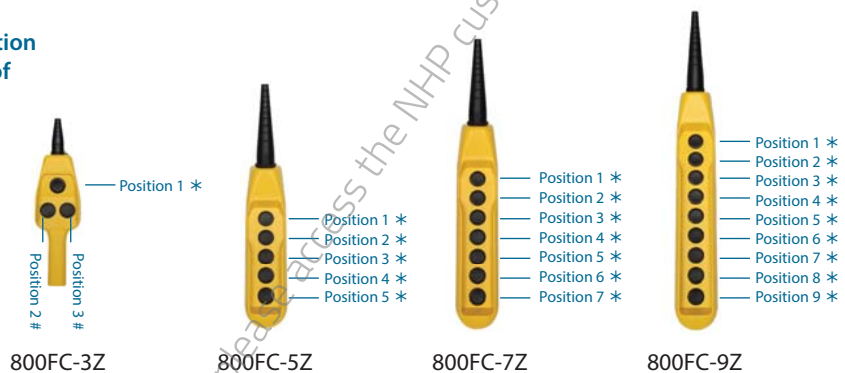
- 3-, 5-, 7-, and 9-button configurations
- Uses standard range of 800F pushbutton operators
- 1-, 2-, and 3-speed push buttons
- IP66 Protection Rating
- Finger-safe contact blocks
- Buttons are flush-mounted with the enclosure to reduce accidental operation
- Electrical and mechanical interlocks

The Allen-Bradley 800FC Pendant Stations come in a variety of configurable options. The use of the 800F 22.5mm Operator range allows for a reduction in inventory and better time spent configuring pendant stations.

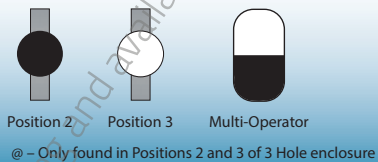
Product Selection

1 Select Pendant Station based on number of operators required

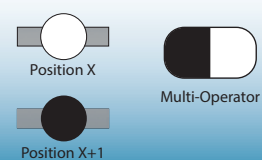
* - Operators are mounted Horizontal, contact blocks are horizontal
- Operators are mounted Vertical, contact blocks are vertical



VERTICAL MOUNT OPERATORS @ CONTACT BLOCKS



HORIZONTAL MOUNT OPERATORS CONTACT BLOCKS



2 Select suitable operator elements from the 800F 22.5mm Pushbutton range



Note: Consider Vertical or Horizontal Orientation when selecting Operator Elements



3 Determine the number of pairs of pushbuttons to interlock

Example: Pushbuttons with UP/DOWN or FORWARD/REVERSE functions may need to be interlocked with one another to prevent the simultaneous actuation of both pushbuttons. It is advisable to consider the number of pair of operators to interlock in the pendant station as this will influence the selection of a mechanical latch interlock and contact block types.

Common functions with interlocking requirement

- UP, DOWN
- LEFT, RIGHT
- FORWARD, REVERSE
- UP FAST, DOWN FAST
- FORWARD FAST, REVERSE FAST

J1502D_dSELN-S01

4 Select Back of Panel Components – Adaptor Plates and/or mechanical interlocks

*Note that an adaptor plate is used with each 800F Pushbutton device however is not required with the Monolithic versions or Potentiometer.



800F-ALP

An adaptor or coupling plate is used to connect the pushbutton operator head with the contact blocks / power modules.



800FC-ALP

The mechanical interlock latch is to be used for interlocking two pushbutton operators together. The interlock latch, like the adaptor plate, fits and connects the pushbutton operator head with the contact blocks

5 Select Back of Panel Components - Contact Blocks

Select suitable Contact blocks and Mechanical Interlocks for your application. The following sub-steps indicate the process to be followed in selecting Contact blocks and/or Mechanical interlocks for each type of operator/function.



1-, 2-, 3-Speed Extended/Flush Operators

If operators are purchased in pairs to perform a complimentary function it is required to include a method of interlocking; either Mechanical and/or Electrical. Table on the right describes which back of panel components are required for a pair of operators that require Mechanical/Electrical interlocking.

Function	Pushbuttons (Pair)	Contact Block (for Electrical Interlocking)	Mechanical Interlock latch required
1-Speed	800FP-E... (Extended)	2 x 800F-X10 2 x 800F-X01	No
	800FP-CD... or 800FP-CA... (Flush)	2 x 800F-X10E 2 x 800F-X01B	Yes, part number 800FC-ALP
2-Speed	800FP-CB...	2 x 800F-X10N 2 x 800F-X10E 2 x 800F-X01B	Yes, part number 800FC-ALP
3-Speed	800FP-CC...	2 x 800F-X10E 2 x 800F-X10M 2 x 800F-X10N	Yes, part number 800FC-ALP

[Click here for wiring instructions](#)

6 Select suitable legend plates for each operator (optional)

Depending on the type of operator select between vertically or horizontally oriented legend plates.



800FC-5Z

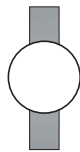
Pendant Enclosure

Operator (cutouts)	Conduit (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
3 x 22.5mm	1 x M20	250	88	76		800FC-3Z	211.21
5 x 22.5mm	1 x M20	309	78	91		800FC-5Z	322.23
7 x 22.5mm	1 x M20	381	78	91		800FC-7Z	404.55
9 x 22.5mm	1 x M20	453	78	91	I	800FC-9Z	564.49

Operator Assembly Sequence and Mounting Operation

VERTICAL MOUNT OPERATORS @
CONTACT BLOCKS

Position 2

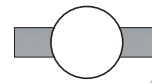


Position 3



Multi-Operator

@ - Only found in Positions 2 and 3 of 3 Hole enclosure

HORIZONTAL MOUNT OPERATORS
CONTACT BLOCKS

Position X



Position X+1



Multi-Operator

1 Speed 22.5mm Pushbutton Operators

Vertical Operators



800FP-CA1U241

Operator (colour)	Text	Illuminatd (Y / N)	Item Type	Catalogue No.	\$AU
Black	REVERSE	No	I	800FP-CA2U244	26.96
White	-	No		800FP-CA1U100	28.44
White	↑	No		800FP-CA1U241	28.44
White	FORWARD	No		800FP-CA1U244	28.44
White	→	No		800FP-CA1U700	28.44
Black	-	No		800FP-CA2U100	28.44
Black	DOWN	No		800FP-CA2U241	28.44
Black	←	No		800FP-CA2U700	28.44
White	RIGHT FAST	No	I	800FP-CD1U260	28.44
White	UP FAST	No		800FP-CD1U261	28.44
Black	LEFT FAST	No	I	800FP-CD2U260	28.44
Black	DOWN FAST	No	I	800FP-CD2U261	28.44

Horizontal Operators



800FP-CA1U243

Operator (colour)	Text	Illuminatd (Y / N)	Item Type	Catalogue No.	\$AU
White	→	No	I	800FP-CA1U243	28.44
White	FORWARD	No	I	800FP-CA1U246	28.44
Black	←	No	I	800FP-CA2U243	28.44
Black	REVERSE	No	I	800FP-CA2U246	28.44
White	RIGHT FAST	No	I	800FP-CD1U263	28.44
Black	LEFT FAST	No	I	800FP-CD2U263	28.44

1 Speed Extended Non-Illuminated Operators

Vertical and Horizontal

Note: 1-Speed Extended Push Buttons cannot be used with the 800FC-ALP, Mechanical Interlock



800FP-E3U222

Operator (colour)	Text	Illuminatd (Y / N)	Item Type	Catalogue No.	\$AU
White	-	No	I	800FP-E108	28.07
Black	-	No		800FP-E208	28.07
Blue	R	No	I	800FP-E611	28.07
White	FORWARD	No		800FP-E1U244	28.44
White	UP FAST	No	I	800FP-E1U261	28.44
White	FORWARD FAST	No	I	800FP-E1U264	28.44
Black	REVERSE	No	I	800FP-E2U244	28.44
Black	DOWN FAST	No	I	800FP-E2U261	28.44
Green	START/ALARM	No	I	800FP-E3U222	28.44

2 Speed 22.5mm Pushbutton Operator

Vertical Operators

Operator (colour)	Text	Illuminatd (Y / N)	Item Type	Catalogue No.	\$AU
White	UP	No	I	800FP-CB1U271	35.95
White	FORWARD	No	I	800FP-CB1U274	35.95
Black	DOWN	No	I	800FP-CB2U271	35.95
Black	REVERSE	No	I	800FP-CB2U274	35.95



800FP-CB2U274

Horizontal Operators

Operator (colour)	Text	Illuminatd (Y / N)	Item Type	Catalogue No.	\$AU
Black	LEFT	No	I	800FP-CB2U273	35.46
White	RIGHT	No	I	800FP-CB1U273	35.95
White	FORWARD	No	I	800FP-CB1U276	35.95
Black	REVERSE	No	I	800FP-CB2U276	35.95



800FP-CB2U273

Vertical and Horizontal Operators

Operator (colour)	Text	Illuminatd (Y / N)	Item Type	Catalogue No.	\$AU
White	-	No	I	800FP-CB1U100	35.95
White	-	No	I	800FP-CB2U100	35.95
Black	DOWN (Horizontal)/LEFT (Vertical)	No	I	800FP-CB1U270	35.95
Black	UP (Horizontal)/RIGHT (Vertical)	No	I	800FP-CB2U270	35.95



800FP-CB2U270

3 Speed 22.5mm Pushbutton Operator

Vertical Operators

Operator (colour)	Text	Illuminatd (Y / N)	Item Type	Catalogue No.	\$AU
White	UP	No	I	800FP-CC1U291	37.25
White	FORWARD	No	I	800FP-CC1U294	37.25
Black	DOWN	No	I	800FP-CC2U291	37.25
Black	REVERSE	No	I	800FP-CC2U294	37.25



800FP-CC2U291

Horizontal Operators

Operator (colour)	Text	Illuminatd (Y / N)	Item Type	Catalogue No.	\$AU
White	RIGHT	No	I	800FP-CC1U293	37.25
White	FORWARD	No	I	800FP-CC1U296	37.25
Black	LEFT	No	I	800FP-CC2U293	37.25
Black	REVERSE	No	I	800FP-CC2U296	37.25



800FP-CC2U296

Vertical and Horizontal Operators

Operator (colour)	Text	Illuminatd (Y / N)	Item Type	Catalogue No.	\$AU
Black	-	No	I	800FP-CC2U100	37.25
White	UP (Horizontal)/RIGHT (Vertical)	No	I	800FP-CC1U290	37.25
Black	DOWN (Horizontal)/LEFT (Vertical)	No	I	800FP-CC2U290	37.25



800FP-CC2U290



800FP-MT44

Emergency Stop Operators

ØOperator (mm)	Operator Action	Key (Y/N)	Illuminated (Y/N)	Catalogue No.
40	Twist to Release	No	No	800FP-MT44
40	Twist to Release	No	Yes	800FP-LMT44
40	Twist to Release	Yes	No	800FP-MK44



800FD-P3N3

Monolithic Pilot Light Operators

Lens (colour)	Lamp Included (Y/N)	Un (V AC/DC)	Catalogue No.
Orange	Yes	24	800FD-P0N3
Green	Yes	24	800FD-P3N3
Red	Yes	24	800FD-P4N3
Yellow	Yes	24	800FD-P5N3
Blue	Yes	24	800FD-P6N3
Clear	Yes	24	800FD-P7N3

Note: 120 V AC options can be considered, contact NHP

Multi Operators

Item Description	Catalogue No.
Vertical / Horizontal Empty Operator	800FP-U2X
Vertical Cap arrow UP	800F-AECU1CU241
Vertical Cap arrow DOWN	800F-AECU2CU241
Horizontal Cap arrow UP	800F-AECU1CU242
Horizontal Cap arrow DOWN	800F-AECU2CU242



Selector Switch

Operator (colour)	Keyed (Y/N)	No. Of Poles	Key Removal Side	Catalogue No.
Black	No	2	Right	800FP-SM22
Black	Yes	2	Left	800FP-KM21
Black	No	3	Right	800FP-SM32
Black	Yes	3	Left	800FP-KM34



800FP-SM32

Potentiometer

Resistance (Ω)	Catalogue No.
150	800FPPOT1
500	800FPPOT2
1000	800FPPOT3
2500	800FPPOT4
5000	800FPPOT5
10000	800FPPOT6



800FPPOT6

Coupling Plate and Mechanical Interlock

Item Description	Catalogue No.
Coupling Plate Plastic	800F-ALP
Mechanical Interlock	800FC-ALP



800F-ALP

Standard Contact Blocks

Contacts	Self Monitoring (Y/N)	Material (plate)	Catalogue No.
1 N/O	No	Plastic	800F-X10
1 N/C	No	Plastic	800F-X01
1 N/O Early Make	No	Plastic	800F-X10E
1 N/O Late Make	No	Plastic	800F-X10N
1 N/O Early/Early Make	No	Plastic	800F-X10M
1 N/C Early Break	No	Plastic	800F-X01B



800F-X01

J1502D_dCHRT-S01

Pendant Accessories

Other Accessories

Item Description	Item Type	Catalogue No.	\$AU
Wire Guide For 800FP Pendants	I	800FC-AWG	6.11
Cable Sleeve For 3 Hole Pendant Enclosure	I	800FC-AS3	17.24
Mechanical Interlock Latch		800FC-ALP	27.28
Cable Sleeve For 5-9 Hole Pendant Enclosure		800FC-AS5	44.43



800FC-AS3

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Pushbuttons and Pilot Lights

Sprecher + Schuh D7 Pushbuttons and Pilot Lights

D7 Emergency Stop Operators	Page 676
D7 Momentary Pushbuttons	Page 678
D7 Latching Pushbuttons (Components Only)	Page 684
D7 Momentary Mushroom Head Pushbuttons (Components Only)	Page 685
D7 Reset Rod Operators (Components Only)	Page 687
Multi-Function Momentary Pushbuttons (Fully Assembled Units)	Page 687
D7 Selector and Key Selector Switches	Page 690
D7 Potentiometers and Resistive Elements	Page 696
D7 Toggle Switches	Page 697
D7 Pilot Lights	Page 697
D7 Lamp Modules for use with Pilot Lights	Page 699
D7 Enclosed Pushbutton Stations	Page 700
D7 Contact Blocks and Coupling Plates	Page 702
D7 Monolithic Operators	Page 702
D7 Accessories	Page 704



- The D7 range of 22.5mm operator control devices includes a diverse range of products making it suitable for use in a wide range of applications. Products in the range include pushbuttons, selector switches, pilot lights, emergency stop operators and more.
- Aesthetically appealing and modularly designed to make assembly and interchangeability easy.
- Operators exhibit low profile and stylish appearance while maintaining the rugged performance necessary for demanding environments
- Operators are available in both plastic (D7P) and metal (D7M) variants.

The Sprecher + Schuh D7 range includes a diverse selection of 22.5mm operator control devices including pushbuttons, pilot lights, selector switches, emergency stop, multi-function operators and more. The range has an aesthetically pleasing design, allows for quick and easy installation and is modular meaning you can interchange parts with ease which helps to keep the number of stocked parts to a minimum while providing a maximum number of solutions for your application. The operators come in both plastic and metal variants for use in different environments and application requirements. A host of accessories complement the range including enclosures to build control stations, LED lamp modules, legend plates, locking covers, sealing caps and much more!

D7 Emergency Stop Operators

The D7 range of emergency stop operators are available in 30, 40 and 60 mm sizes and are selected together with a choice of standard or 'auto-break' safety contacts. They come in various operator action styles including twist-to-release, key-to-release and push-pull options.

D7 Emergency Stop Operators (Fully Assembled Units)

Plastic Body



D7P-MT44PX01

ØOperator (mm)	Contacts	Operator (action)	Key (Y/N (removal))	IP	Item Type	Catalogue No.	\$AU
30	1 NC	Twist to Release	No	IP65;IP66;IP69K		D7P-MT34PX01	141.00
40	1 NC	Twist to Release	No	IP65;IP66;IP69K		D7P-MT44PX01	147.00
60	1 NC	Twist to Release	No	IP65;IP66;IP69K		D7P-MT64PX01	164.00
30	1 SMCB	Twist to Release	No	IP65;IP66;IP69K		D7P-MT34PX01S	170.00
40	1 SMCB	Twist to Release	No	IP65;IP66;IP69K		D7P-MT44PX01S	180.00
60	1 SMCB	Twist to Release	No	IP65;IP66;IP69K		D7P-MT64PX01S	207.00
40	1 NC	Key to Release	Yes (Centre)	IP65;IP66		D7P-MK44PX01	211.00
40	1 SMCB	Key to Release	Yes (Centre)	IP65;IP66	I	D7P-MK44PX01S	279.00

Metal Body



D7M-MT44MX01

ØOperator (mm)	Contacts	Operator (action)	Key (Y/N (removal))	IP	Item Type	Catalogue No.	\$AU
30	1 NC	Twist to Release	No	IP65;IP66		D7M-MT34MX01	155.00
40	1 NC	Twist to Release	No	IP65;IP66		D7M-MT44MX01	161.00
60	1 NC	Twist to Release	No	IP65;IP66		D7M-MT64MX01	180.00
40	1 SMCB	Twist to Release	No	IP65;IP66		D7M-MT44MX01S	197.00
40	1 NC	Key to Release	Yes (Centre)	IP65;IP66		D7M-MK44MX01	282.00

D7 Emergency Stop Operators (Components Only)

Product Selection



- 1 Select body
- 2 Select coupling plate
- 3 Select contact block and/or lamp module

Plastic Body

ØOperator (mm)	Operator (action)	Key (Y/N (removal))	Illuminated (Y/N)	IP	Item Type	Catalogue No.	\$AU
30	Twist to Release	No	N	IP65,IP66,IP69K		D7P-MT34	112.00
40	Twist to Release	No	N	IP65,IP66,IP69K		D7P-MT44	120.00
60	Twist to Release	No	N	IP65,IP66,IP69K		D7P-MT64	134.00
40	Twist to Release	No	Y	IP65,IP66,IP69K		D7P-LMT44	155.00
40	Key to Release	Yes (Centre)	N	IP65,IP66		D7P-MK44	195.00



D7P-MK44

Metal Body

ØOperator (mm)	Operator (action)	Key (Y/N (removal))	Illuminated (Y/N)	IP	Item Type	Catalogue No.	\$AU
30	Twist to Release	No	N	IP65,IP66		D7M-MT34	128.00
40	Twist to Release	No	N	IP65,IP66		D7M-MT44	128.00
60	Twist to Release	No	N	IP65,IP66		D7M-MT64	141.00
40	Twist to Release	No	Y	IP65,IP66		D7M-LMT44	164.00
40	Key to Release	Yes (Centre)	N	IP65,IP66	I	D7M-MK44	211.00



D7M-LMT44

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			D7-X01
1 NC	No	Yes	Plastic (D7-ALP)		D7-PX01
1 NC	No	Yes	Metal(D7-ALM)		D7-MX01

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
Green (525nm)	24 - 120	24 - 120		D7-NUG
Red (629nm)	24 - 120	24 - 120		D7-NUR
White	24 - 120	24 - 120		D7-NUW
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-N3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-N3R
White	20 - 26 (24)	18 - 30 (24)		D7-N3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3R
White	20 - 26 (24)	18 - 30 (24)		D7-Q3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3R
White	20 - 26 (24)	18 - 30 (24)		D7-BN3W
Green (525nm)	70 - 132 (120)	-		D7-N5G
Red (629nm)	70 - 132 (120)	-		D7-N5R
White	70 - 132 (120)	-		D7-N5W
Green (525nm)	180 - 264 (240)	-		D7-N7G
Red (629nm)	180 - 264 (240)	-		D7-N7R
White	180 - 264 (240)	-		D7-N7W
Green (525nm)	180 - 264 (240)	-		D7-BN7G
Red (629nm)	180 - 264 (240)	-		D7-BN7R
White	180 - 264 (240)	-		D7-BN7W

J1101D01_dCHRT-S02



D7-1MM1

D7 Enclosed Emergency Stop Operators

Housing (material)	Housing (colour)	ØOperator (mm)	Contacts	Operator (action)	Key (Y/N (removal))	Item Type	Catalogue No.	\$AU
Polycarbonate & PBT Blend	Yellow	40	1 NC	Twist to Release	No		D7-1YM1	256.00
Chromated Zinc & Stainless Steel	Grey	40	1 NC	Twist to Release	No		D7-1MM1	324.00
Polycarbonate & PBT Blend	Yellow	40	1 NC	Key to Release	Yes		D7-1YM4	334.00

D7 Momentary Pushbuttons

Available in IP66 protection with metal or plastic bezel.

Select pushbuttons with plastic body also have the IP69K rating however, it must be used together with a D7-AB7 protective boot to maintain this rating.

D7 Momentary Pushbuttons (Fully Assembled Units)

Complete Flush Non-Illuminated Pushbuttons



D7P-F301PX10

Operator (material)	Operator (colour)	Contacts	Text	IP Rating	Item Type	Catalogue No.	\$AU
Plastic	Green	1 NO	START	IP65;IP66;IP69K		D7P-F301PX10	62.00
Plastic	Green	1 NO		IP65;IP66;IP69K		D7P-F3PX10	58.00
Plastic	Red	1 NC	STOP	IP65;IP66;IP69K		D7P-F402PX01	62.00
Plastic	Red	1 NC		IP65;IP66;IP69K		D7P-F4PX01	58.00
Plastic	Yellow	1 NO		IP65;IP66;IP69K		D7P-F5PX10	61.00
Plastic	Blue	1 NO	RESET	IP65;IP66;IP69K		D7P-F607PX10	63.00
Plastic	Blue	1 NO		IP65;IP66;IP69K		D7P-F6PX10	58.00
Metal	Green	1 NO	START	IP65;IP66		D7M-F301MX10	70.00
Metal	Green	1 NO		IP65;IP66		D7M-F3MX10	63.00
Metal	Red	1 NC	STOP	IP65;IP66		D7M-F402MX01	70.00
Metal	Red	1 NC		IP65;IP66		D7M-F4MX01	65.00
Metal	Blue	1 NO	RESET	IP65;IP66		D7M-F607MX10	69.00
Metal	Blue	1 NO		IP65;IP66		D7M-F6MX10	65.00

Complete Flush Illuminated Pushbuttons



D7P-LF6PN3WX10

Operator (material)	Operator (colour)	Un (V AC / V DC)	Contacts	IP Rating	Item Type	Catalogue No.	\$AU
Plastic	Amber	24V AC / 24V DC	1 NO	IP65;IP66;IP69K	K	D7P-LF0PN3AX10	144.00
Plastic	Amber	240V AC	1 NO	IP65;IP66;IP69K	K	D7P-LF0PN7AX10	144.00
Plastic	Green	24V AC / 24V DC	1 NO	IP65;IP66;IP69K		D7P-LF3PN3GX10	132.00
Plastic	Green	120V AC	1 NO	IP65;IP66	K	D7P-LF3PN5GX10	144.00
Plastic	Green	240V AC	1 NO	IP65;IP66;IP69K		D7P-LF3PN7GX10	147.00
Plastic	Red	24V AC / 24V DC	1 NC	IP65;IP66;IP69K		D7P-LF4PN3RX01	132.00
Plastic	Red	120V AC	1 NC	IP65;IP66;IP69K	K	D7P-LF4PN5RX01	144.00
Plastic	Red	240V AC	1 NC	IP65;IP66;IP69K		D7P-LF4PN7RX01	151.00
Plastic	Yellow	24V AC / 24V DC	1 NO	IP65;IP66;IP69K		D7P-LF5PN3WX10	140.00
Plastic	Yellow	120V AC	1 NO	IP65;IP66;IP69K	K	D7P-LF5PN5YX10	144.00
Plastic	Yellow	240V AC	1 NO	IP65;IP66;IP69K		D7P-LF5PN7WX10	157.00
Plastic	Blue	24V AC / 24V DC	1 NO	IP65;IP66;IP69K		D7P-LF6PN3WX10	133.00
Plastic	Blue	240V AC	1 NO	IP65;IP66;IP69K		D7P-LF6PN7WX10	157.00
Metal	Green	24V AC / 24V DC	1 NO	IP65;IP66		D7M-LF3MN3GX10	147.00
Metal	Green	120V AC	1 NO	IP65;IP66	K	D7M-LF3MN5GX10	147.00
Metal	Green	240V AC	1 NO	IP65;IP66		D7M-LF3MN7GX10	162.00
Metal	Red	24V AC / 24V DC	1 NC	IP65;IP66		D7M-LF4MN3RX01	140.00
Metal	Red	120V AC	1 NC	IP65;IP66	K	D7MLF4MN5RX01	147.00
Metal	Red	240V AC	1 NC	IP65;IP66		D7M-LF4MN7RX01	162.00
Metal	Yellow	24V AC / 24V DC	1 NO	IP65;IP66		D7M-LF5MN3WX10	151.00
Metal	Blue	24V AC / 24V DC	1 NO	IP65;IP66		D7M-LF6MN3WX10	147.00
Metal	Blue	120V AC	1 NO	IP65;IP66	K	D7MLF6MN5BX10	147.00
Plastic	Blue	120V AC	1 NO	IP65;IP66;IP69K	K	D7P-LF6PN5BX10	144.00

Complete Extended Pushbuttons

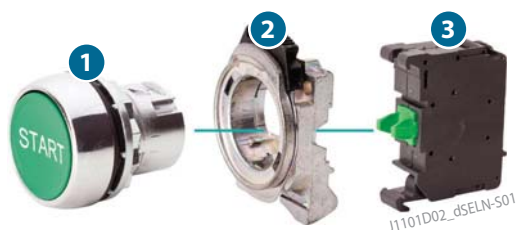


D7P-E402PX01

Operator (material)	Operator (colour)	Contacts	Text	IP Rating	Item Type	Catalogue No.	\$AU
Plastic	Red	1 NC	STOP	IP65;IP66;IP69K		D7P-E402PX01	65.00
Plastic	Red	1 NC		IP65;IP66;IP69K		D7P-E4PX01	63.00
Metal	Red	1 NC	STOP	IP65;IP66		D7M-E402MX01	72.00
Metal	Red	1 NC		IP65;IP66	K	D7M-E4PX01	52.00

D7 Flush Momentary Pushbuttons (Components Only)

Product Selection



- 1 Select body
- 2 Select coupling plate
- 3 Select contact block and/or lamp module

Plastic Body

Operator (colour)	Text	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Black		No	IP65;IP66;IP69K		D7P-F2	23.00
Green		No	IP65;IP66;IP69K		D7P-F3	25.00
Red		No	IP65;IP66;IP69K		D7P-F4	25.00
Red	STOP	No	IP65;IP66;IP69K		D7P-F402	25.00
Yellow		No	IP65;IP66;IP69K		D7P-F5	25.00
Blue		No	IP65;IP66;IP69K		D7P-F6	25.00
No Cap		No	IP65;IP66;IP69K		D7P-F9	25.00
White		No	IP65;IP66;IP69K		D7P-F1	27.00
Black	→	No	IP65;IP66;IP69K		D7P-F208	29.00
Green	START	No	IP65;IP66;IP69K		D7P-F301	29.00
No Cap		Yes	IP65;IP66;IP69K	I	D7P-LF9	32.00
Green		Yes	IP65;IP66;IP69K		D7P-LF3	45.00
Red		Yes	IP65;IP66;IP69K		D7P-LF4	45.00
Yellow		Yes	IP65;IP66;IP69K		D7P-LF5	46.00
Blue		Yes	IP65;IP66;IP69K		D7P-LF6	46.00
White		Yes	IP65;IP66;IP69K		D7P-LF7	46.00
Amber		Yes	IP65;IP66;IP69K		D7P-LF0	48.00



D7P-F5

Metal Body

Operator (colour)	Text	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
No Cap		No	IP65;IP66;IP69K		D7M-F9	25.00
Black		No	IP65;IP66;IP69K		D7M-F2	29.00
Green		No	IP65;IP66;IP69K		D7M-F3	29.00
White		No	IP65;IP66;IP69K		D7M-F1	31.00
Red		No	IP65;IP66;IP69K		D7M-F4	31.00
Yellow		No	IP65;IP66;IP69K		D7M-F5	31.00
Blue		No	IP65;IP66;IP69K		D7M-F6	31.00
Green	I	No	IP65;IP66;IP69K	I	D7M-F306	35.00
Black	→	No	IP65;IP66;IP69K		D7M-F208	36.00
Green	START	No	IP65;IP66;IP69K		D7M-F301	36.00
Red	STOP	No	IP65;IP66;IP69K		D7M-F402	36.00
No Cap		Yes	IP65;IP66;IP69K	I	D7M-LF9	40.00
Amber		Yes	IP65;IP66;IP69K		D7M-LF0	49.00
Green		Yes	IP65;IP66;IP69K		D7M-LF3	49.00
Red		Yes	IP65;IP66;IP69K		D7M-LF4	50.00
Yellow		Yes	IP65;IP66;IP69K		D7M-LF5	50.00
Blue		Yes	IP65;IP66;IP69K		D7M-LF6	50.00
White		Yes	IP65;IP66;IP69K		D7M-LF7	50.00



D7M-F1

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

Standard Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			D7-X01
1 NO	No	No			D7-X10
1 NC	No	No			D7-BX01
1 NO	No	No			D7-BX10
1 NC	No	Yes	Plastic (D7-ALP)		D7-PX01
1 NO	No	Yes	Plastic(D7-ALP)		D7-PX10
1 NC	No	Yes	Metal(D7-ALM)		D7-MX01
1 NO	No	Yes	Metal (D7-ALM)		D7-MX10
1 NO + 1 NC	No	Yes	Plastic(D7-ALP)		D7-PX11
1 NO + 1 NC	No	Yes	Metal(D7-ALM)		D7-MX11

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
Green (525nm)	24 - 120	24 - 120		D7-NUG
Red (629nm)	24 - 120	24 - 120		D7-NUR
White	24 - 120	24 - 120		D7-NUW
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-N3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-N3R
White	20 - 26 (24)	18 - 30 (24)		D7-N3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3R
White	20 - 26 (24)	18 - 30 (24)		D7-Q3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3R
White	20 - 26 (24)	18 - 30 (24)		D7-BN3W
Green (525nm)	70 - 132 (120)	-		D7-N5G
Red (629nm)	70 - 132 (120)	-		D7-N5R
White	70 - 132 (120)	-		D7-N5W
Green (525nm)	180 - 264 (240)	-		D7-N7G
Red (629nm)	180 - 264 (240)	-		D7-N7R
White	180 - 264 (240)	-		D7-N7W
Green (525nm)	180 - 264 (240)	-		D7-BN7G
Red (629nm)	180 - 264 (240)	-		D7-BN7R
White	180 - 264 (240)	-		D7-BN7W

J1101D02_dCHRT-S02

D7 Extended Momentary Pushbuttons (Components Only)

Select pushbuttons with plastic body also have the IP69K rating however, it must be used together with a D7-ABE7 protective boot to maintain this rating.

Product Selection



- 1 Select body
- 2 Select coupling plate
- 3 Select contact block and/or lamp module

Plastic Body

Operator (colour)	Text	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
White		No	IP69K;IP66;IP65	I	D7P-E1	26.00
Black		No	IP69K;IP66;IP65	I	D7P-E2	27.00
Green		No	IP69K;IP66;IP65	I	D7P-E3	27.00
Red		No	IP69K;IP66;IP65	I	D7P-E4	27.00
Red	STOP	No	IP69K;IP66;IP65	I	D7P-E402	29.00
Blue		No	IP69K;IP66;IP65	I	D7P-E6	29.00
Green		Yes	IP69K;IP66;IP65	I	D7P-LE3	48.00
Red		Yes	IP69K;IP66;IP65	I	D7P-LE4	48.00
Blue		Yes	IP69K;IP66;IP65	I	D7P-LE6	48.00



D7P-E3

Metal Body

Operator (colour)	Text	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Green		No	IP65;IP66	I	D7M-E9	25.00
Black		No	IP65;IP66	I	D7M-E3	31.00
Black		No	IP65;IP66	I	D7M-E2	32.00
Red		No	IP65;IP66	I	D7M-E4	32.00
Red	STOP	No	IP65;IP66	I	D7M-E402	36.00
Green		Yes	IP65;IP66	I	D7M-LE3	52.00
Red		Yes	IP65;IP66	I	D7M-LE4	52.00



D7M-E402

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			D7-X01
1 NO	No	No			D7-X10
1 NC	No	No			D7-BX01
1 NO	No	No			D7-BX10
1 NC	No	Yes	Plastic (D7-ALP)		D7-PX01
1 NO	No	Yes	Plastic (D7-ALP)		D7-PX10
1 NC	No	Yes	Metal (D7-ALM)		D7-MX01
1 NO	No	Yes	Metal (D7-ALM)		D7-MX10
1 NO + 1 NC	No	Yes	Plastic (D7-ALP)		D7-PX11
1 NO + 1 NC	No	Yes	Metal (D7-ALM)		D7-MX11

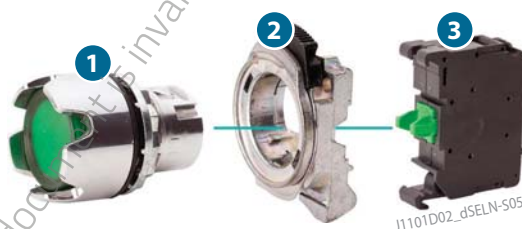
Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
Green (525nm)	24 - 120	24 - 120		D7-NUG
Red (629nm)	24 - 120	24 - 120		D7-NUR
White	24 - 120	24 - 120		D7-NUW
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-N3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-N3R
White	20 - 26 (24)	18 - 30 (24)		D7-N3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3R
White	20 - 26 (24)	18 - 30 (24)		D7-Q3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3R
White	20 - 26 (24)	18 - 30 (24)		D7-BN3W
Green (525nm)	70 - 132 (120)	-		D7-N5G
Red (629nm)	70 - 132 (120)	-		D7-N5R
White	70 - 132 (120)	-		D7-N5W
Green (525nm)	180 - 264 (240)	-		D7-N7G
Red (629nm)	180 - 264 (240)	-		D7-N7R
White	180 - 264 (240)	-		D7-N7W
Green (525nm)	180 - 264 (240)	-		D7-BN7G
Red (629nm)	180 - 264 (240)	-		D7-BN7R
White	180 - 264 (240)	-		D7-BN7W

J1101D02_dCHRT-S04

D7 Guarded Momentary Pushbuttons (Components Only)

Product Selection



- 1 Select body
- 2 Select coupling plate
- 3 Select contact block and/or lamp module

Plastic Body



D7P-LG3

Operator (colour)	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Green	No	IP65;IP66	I	D7P-G3	41.00
Red	No	IP65;IP66	I	D7P-G4	41.00
Blue	No	IP65;IP66	I	D7P-G6	41.00
Green	Yes	IP65;IP66	I	D7P-LG3	63.00
Red	Yes	IP65;IP66	I	D7P-LG4	63.00

Metal Body

Operator (colour)	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Green	No	IP65;IP66	I	D7M-G3	46.00
Red	No	IP65;IP66	I	D7M-G4	46.00
Green	Yes	IP65;IP66	I	D7M-LG3	69.00
Red	Yes	IP65;IP66	I	D7M-LG4	69.00



D7M-LG4

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			D7-X01
1 NO	No	No			D7-X10
1 NC	No	No			D7-BX01
1 NO	No	No			D7-BX10
1 NC	No	Yes	Plastic (D7-ALP)		D7-PX01
1 NO	No	Yes	Plastic (D7-ALP)		D7-PX10
1 NC	No	Yes	Metal (D7-ALM)		D7-MX01
1 NO	No	Yes	Metal (D7-ALM)		D7-MX10
1 NO + 1 NC	No	Yes	Plastic (D7-ALP)		D7-PX11
1 NO + 1 NC	No	Yes	Metal (D7-ALM)		D7-MX11

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
Green (525nm)	24 - 120	24 - 120		D7-NUG
Red (629nm)	24 - 120	24 - 120		D7-NUR
White	24 - 120	24 - 120		D7-NUW
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-N3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-N3R
White	20 - 26 (24)	18 - 30 (24)		D7-N3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3R
White	20 - 26 (24)	18 - 30 (24)		D7-Q3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3R
White	20 - 26 (24)	18 - 30 (24)		D7-BN3W
Green (525nm)	70 - 132 (120)	-		D7-N5G
Red (629nm)	70 - 132 (120)	-		D7-N5R
White	70 - 132 (120)	-		D7-N5W
Green (525nm)	180 - 264 (240)	-		D7-N7G
Red (629nm)	180 - 264 (240)	-		D7-N7R
White	180 - 264 (240)	-		D7-N7W
Green (525nm)	180 - 264 (240)	-		D7-BN7G
Red (629nm)	180 - 264 (240)	-		D7-BN7R
White	180 - 264 (240)	-		D7-BN7W

J1101D02_dCHRT-506

D7 Latching Pushbuttons (Components Only)

IP66 protection available in metal or plastic bezel.

Select pushbuttons with plastic body also have the IP69K rating however, it must be used together with a D7-AB7 protective boot to maintain this rating.

Product Selection

- 1 Select body
- 2 Select coupling plate
- 3 Select contact block and/or lamp module

Plastic Body, Non-Illuminated

D7P-FA5

Operator (colour)	IP	Item Type	Catalogue No.	\$AU
	IP65;IP66;IP69K	I	D7P-FA9	40.00
White	IP65;IP66;IP69K	I	D7P-FA1	42.00
Black	IP65;IP66;IP69K		D7P-FA2	42.00
Green	IP65;IP66;IP69K		D7P-FA3	42.00
Red	IP65;IP66;IP69K		D7P-FA4	42.00
Yellow	IP65;IP66;IP69K		D7P-FA5	42.00
Blue	IP65;IP66;IP69K		D7P-FA6	42.00

Plastic Body, Illuminated

D7P-LFA4

Operator (colour)	IP	Item Type	Catalogue No.	\$AU
Amber	IP65;IP66;IP69K		D7P-LFA0	61.00
Green	IP65;IP66;IP69K		D7P-LFA3	61.00
Red	IP65;IP66;IP69K		D7P-LFA4	61.00
Yellow	IP65;IP66;IP69K		D7P-LFA5	61.00
Blue	IP65;IP66;IP69K		D7P-LFA6	61.00

Metal Body, Non-Illuminated

D7M-FA4

Operator (colour)	IP	Item Type	Catalogue No.	\$AU
Green	IP65;IP66		D7M-FA3	50.00
Red	IP65;IP66		D7M-FA4	50.00
Blue	IP65;IP66		D7M-FA6	50.00

Metal Body, Illuminated

D7M-LFA5

Operator (colour)	IP	Item Type	Catalogue No.	\$AU
Amber	IP65;IP66	I	D7M-LFA0	65.00
Green	IP65;IP66		D7M-LFA3	65.00
Red	IP65;IP66		D7M-LFA4	65.00
Yellow	IP65;IP66		D7M-LFA5	65.00
Blue	IP65;IP66		D7M-LFA6	65.00

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			D7-X01
1 NOEM	No	No			D7-X10E

Integrated LED Modules

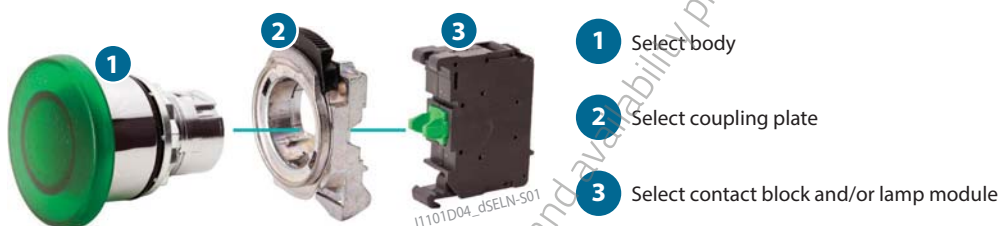
Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1101D03_dCHRT-S02

D7 Momentary Mushroom Head Pushbuttons (Components Only)

IP66 protection available in metal or plastic bezel. Select pushbuttons with plastic body also have the IP69K rating however, it must be used together with a D7-AB7 protective boot to maintain this rating.

Product Selection



Plastic Body, Non-Illuminated

ØOperator (mm)	Operator (colour)	IP	Item Type	Catalogue No.	\$AU
40	Black	IP65;IP66;IP69K		D7P-MM42	60.00
40	Green	IP65;IP66;IP69K		D7P-MM43	60.00
40	Red	IP65;IP66;IP69K		D7P-MM44	60.00
40	Yellow	IP65;IP66;IP69K		D7P-MM45	60.00
40	Blue	IP65;IP66;IP69K		D7P-MM46	60.00
60	Black	IP65;IP66;IP69K		D7P-MM62	81.00
60	Green	IP65;IP66;IP69K		D7P-MM63	81.00
60	Red	IP65;IP66;IP69K		D7P-MM64	81.00



D7P-MM45

Plastic Body, Illuminated

ØOperator (mm)	Operator (colour)	IP	Item Type	Catalogue No.	\$AU
40	Green	IP65;IP66;IP69K		D7P-LMM43	88.00
40	Red	IP65;IP66;IP69K		D7P-LMM44	88.00
40	Blue	IP65;IP66;IP69K	I	D7P-LMM46	88.00



D7P-LMM43



D7M-MM44

Metal Body, Non-Illuminated

ØOperator (mm)	Operator (colour)	IP	Item Type	Catalogue No.	\$AU
40	Green	IP65;IP66		D7M-MM43	64.00
40	Black	IP65;IP66		D7M-MM42	65.00
40	Red	IP65;IP66		D7M-MM44	65.00
40	Yellow	IP65;IP66		D7M-MM45	65.00
40	Blue	IP65;IP66		D7M-MM46	65.00
60	Red	IP65;IP66		D7M-MM64	84.00
60	Black	IP65;IP66	I	D7M-MM62	85.00



D7M-LMM46

Metal Body, Illuminated

ØOperator (mm)	Operator (colour)	IP	Item Type	Catalogue No.	\$AU
40	Blue	IP65;IP66	I	D7M-LMM46	91.00

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			D7-X01
1 NO	No	No			D7-X10
1 NC	No	No			D7-BX01
1 NO	No	No			D7-BX10
1 NC	No	Yes	Plastic (D7-ALP)		D7-PX01
1 NO	No	Yes	Plastic(D7-ALP)		D7-PX10
1 NC	No	Yes	Metal(D7-ALM)		D7-MX01
1 NO	No	Yes	Metal (D7-ALM)		D7-MX10
1 NO + 1 NC	No	Yes	Plastic(D7-ALP)		D7-PX11
1 NO + 1 NC	No	Yes	Metal(D7-ALM)		D7-MX11

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
Green (525nm)	24 - 120	24 - 120		D7-NUG
Red (629nm)	24 - 120	24 - 120		D7-NUR
White	24 - 120	24 - 120		D7-NUW
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-N3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-N3R
White	20 - 26 (24)	18 - 30 (24)		D7-N3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3R
White	20 - 26 (24)	18 - 30 (24)		D7-Q3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3R
White	20 - 26 (24)	18 - 30 (24)		D7-BN3W
Green (525nm)	70 - 132 (120)	-		D7-N5G
Red (629nm)	70 - 132 (120)	-		D7-N5R
White	70 - 132 (120)	-		D7-N5W
Green (525nm)	180 - 264 (240)	-		D7-N7G
Red (629nm)	180 - 264 (240)	-		D7-N7R
White	180 - 264 (240)	-		D7-N7W
Green (525nm)	180 - 264 (240)	-		D7-BN7G
Red (629nm)	180 - 264 (240)	-		D7-BN7R
White	180 - 264 (240)	-		D7-BN7W

J1101D04_dCHRT-S02

D7 Reset Rod Operators (Components Only)

Product Selection



Plastic Body

Operator (colour)	Operator (text)	Text (colour)	Item Type	Catalogue No.	\$AU
Blue				D7P-R6	42.00
Red				D7P-R4	44.00
Blue	RESET	White		D7P-R607	44.00
Black				D7P-R2	45.00
Green			A	D7P-R3	45.00
Blue	R	White		D7P-R611	45.00



D7P-R4

Metal Body

Operator (colour)	Operator (text)	Text (colour)	Item Type	Catalogue No.	\$AU
Blue			I	D7M-R6	47.00
Blue	RESET	White		D7M-R607	48.00
Black			A	D7M-R2	49.00
Green			A	D7PRM-3	49.00
Red			A	D7M-R4	49.00
Blue	R	White		D7M-R611	49.00



D7M-R611

Reset Rods

Shaft (mm)	Adjustable Length (mm, min - max)	Item Type	Catalogue No.	\$AU
40	34 - 52		D7-ATR01	42.00
55	50 - 67		D7-ATR02	42.00
85	80 - 98		D7-ATR04	42.00
115	110 - 128		D7-ATR06	42.00
145	141 - 195		D7-ATR08	42.00
315	157 - 326		D7-ATR19	49.00



D7-ATR06

Multi-Function Momentary Pushbuttons (Fully Assembled Units)

The Sprecher+Schuh D7 Multi-Function Pushbuttons are a convenient and flexible solution when panel real estate is restricted. Select between 2 and 3 pushbutton models while using only a single 22.5 mm cut-out.

Complete Multifunction Momentary PushButtons

Material (operator / bezel)	Colours (top-centre-bottom)	Contacts	Text (top-bottom)	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Plastic / Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)	Green-Black-Red	1 NO + 1 NC EB 1st Contact	-	No	IP65;IP66;IP69K		D7P-U2E4F3PX11	110.00
Plastic / Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)	Green-Black-Red	1 NO + 1 NC EB 1st Contact	I - O	No	IP65;IP66;IP69K		D7P-U2EFFEPX11	119.00
Plastic / Zinc	Green-Black-Red	1 NO + 1 NC EB 1st Contact	-	No	IP65;IP66		D7M-U2E4F3MX11	126.00
Metal / Zinc	Green-Black-Red	1 NO + 1 NC EB 1st Contact	I - O	No	IP65;IP66		D7M-U2EFFEMX11	126.00



D7M-U2E4F3MX11

Product Selection



- 1 Select body
- 2 Select colour caps
- 3 Select coupling plate
- 4 Select contact block and/or lamp module

Plastic Body



D7P-U2X

Material (operator / bezel)	Colours (top-centre-bottom)	Text (top-bottom)	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Plastic / Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)	- Black -	-	No	IP65;IP66;IP69K		D7P-U2X	44.00
/ Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)	- White -	-	Yes	IP65;IP66;IP69K		D7P-LU2X	63.00
Plastic / Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)	- Red -	-	No	IP65;IP66;IP69K	I	D7P-U3X	63.00

Metal Body



D7M-U2X

Material (operator / bezel)	Colours (top-centre-bottom)	Text (top-bottom)	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Metal / Zinc	- Black -	-	No	IP65;IP66		D7M-U2X	47.00
Metal / Zinc	- White -	-	Yes	IP65;IP66		D7M-LU2X	69.00

Colour Caps for Flush Multifunction Pushbuttons

Other options available, contact NHP for more information.

Colour (cap)	Colour (text)	Text	Item Type	Catalogue No.
White				D7-AFU1
Black				D7-AFU2
Green				D7-AFU3
Red				D7-AFU4
Green	White	DOWN		D7-AFAU3CE110
Green	White	START		D7-AFCU3CE208
Green	White	UP		D7-AFCU3CE223
Green	White	↑		D7-AFCU3CU712
Green	White	I		D7-AFCU3CU909

Colour Caps for Extended Multifunction Pushbuttons

Other options available, contact NHP for more information.

Colour (cap)	Colour (text)	Text	Item Type	Catalogue No.
Red				D7-AEU4
Red	White	STOP		D7-AEAU4CE212
Red	White	O		D7-AEAU4CU910

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			D7-X01
1 NO	No	No			D7-X10
1 NC	No	No			D7-BX01
1 NO	No	No			D7-BX10
1 NC	No	Yes	Plastic (D7-ALP)		D7-PX01
1 NO	No	Yes	Plastic (D7-ALP)		D7-PX10
1 NC	No	Yes	Metal (D7-ALM)		D7-MX01
1 NO	No	Yes	Metal (D7-ALM)		D7-MX10
1 NO + 1 NC	No	Yes	Plastic (D7-ALP)		D7-PX11
1 NO + 1 NC	No	Yes	Metal (D7-ALM)		D7-MX11

Integrated LED Modules

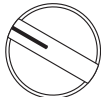

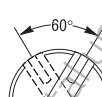
Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
Green (525nm)	24 - 120	24 - 120		D7-NUG
Red (629nm)	24 - 120	24 - 120		D7-NUR
White	24 - 120	24 - 120		D7-NUW
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-N3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-N3R
White	20 - 26 (24)	18 - 30 (24)		D7-N3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3R
White	20 - 26 (24)	18 - 30 (24)		D7-Q3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3R
White	20 - 26 (24)	18 - 30 (24)		D7-BN3W
Green (525nm)	70 - 132 (120)	-		D7-N5G
Red (629nm)	70 - 132 (120)	-		D7-N5R
White	70 - 132 (120)	-		D7-N5W
Green (525nm)	180 - 264 (240)	-		D7-N7G
Red (629nm)	180 - 264 (240)	-		D7-N7R
White	180 - 264 (240)	-		D7-N7W
Green (525nm)	180 - 264 (240)	-		D7-BN7G
Red (629nm)	180 - 264 (240)	-		D7-BN7R
White	180 - 264 (240)	-		D7-BN7W

J1101D06_dCHRT-S02


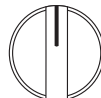


D7 Selector and Key Selector Switches

Select from a large range of selector switches including keyed and illuminated variants. Make use of the contact arrangements available which gives the user a large number of switching configurations to work with to meet a diverse range of application requirements". The selector switches in the D7 range have a IP66 Rating.





Contact Development Table**2-Position**

Contact type	Mounting position on latch				X = closed O = open
NO	Left	O	X		
NC	Right	X	O		

3-Position

Contact type	Mounting position on latch					X = closed O = open
NO	Left	X	O	O		
NO	Centre	X	O	X		
NO	Right	O	O	X		
NC	Left	O	X	X		
NC	Centre	O	X	O		
NC	Right	X	X	O		

4-Position

Contact type	Mounting position on latch					X = closed O = open
NO	Left	O	O	X	O	
NO	Right	X	O	O	O	
NC EB	Left	O	O	O	X	
NC EB	Right	O	X	O	O	

J1101D07-2-3-4_dCHRT-S01

Selector Switches (Fully Assembled Units)**2-Position, Plastic Body, Non-keyed**

Type & Positions (0°=vertical)	Contacts	Key (Y/N (removal))	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Selector Switch, Knob, 2-Position (30°, -30°)	1 NO	No	Latched / Main- tained	Latched / Main- tained		D7P-SM22PX10	88.00



D7P-SM22PX10

2-Position, Plastic Body, Keyed

Type & Positions (0°=vertical)	Contacts	Key (Y/N (removal))	Operator Action (left)	Operator Action (right)	Keycode	Item Type	Catalogue No.	\$AU
Selector Switch, Key, 2-Position (30°, -30°)	1 NO	Yes (Left)	Latched / Main- tained	Latched / Main- tained	3825 (standard)		D7P-KM21PX10	200.00



D7P-KM21PX10

3-Position, Plastic Body, Non-keyed

Type & Positions (0°=vertical)	Contacts	Key (Y/N (removal))	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Selector Switch, Knob, 3-Position (0°, 60°, -60°)	2 NO	No	Latched / Main- tained	Latched / Main- tained		D7P-SM32PX20	107.00



D7P-SM32PX20

3-Position, Plastic Body, Keyed

Type & Positions (0°=vertical)	Contacts	Key (Y/N (removal))	Operator Action (left)	Operator Action (right)	Keycode	Item Type	Catalogue No.	\$AU
Selector Switch, Key, 3-Position (0°, 60°, -60°)	2 NO	Yes (Left)	Latched / Main- tained	Latched / Main- tained	3825 (standard)		D7P-KM31PX20	267.00



D7P-KM31PX20

2-Position, Metal Body, Non-keyed

Type & Positions (0°=vertical)	Contacts	Key (Y/N (removal))	Operator Action (left)	Operator Action (right)	Latched Type (Material)	Item Type	Catalogue No.	\$AU
Selector Switch, Knob, 2-Position (30°, -30°)	1 NO	No	Latched / Main- tained	Latched / Main- tained	Plastic	K	D7M-SM22PX10	83.00
Selector Switch, Knob, 2-Position (30°, -30°)	1 NO	No	Latched / Main- tained	Latched / Main- tained	Metal		D7M-SM22MX10	97.00



D7M-SM22PX10

2-Position, Metal Body, Keyed

Type & Positions (0°=vertical)	Contacts	Key (Y/N (removal))	Operator Action (left)	Operator Action (right)	Keycode	Item Type	Catalogue No.	\$AU
Selector Switch, Key, 2-Position (30°, -30°)	1 NO	Yes (Left)	Latched / Main- tained	Latched / Main- tained	3825 (standard)		D7M-KM21MX10	231.00



D7M-KM21MX10

3-Position, Metal Body, Non-keyed

Type & Positions (0°=vertical)	Contacts	Key (Y/N (removal))	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Selector Switch, Knob, 3-Position (0°, 60°, -60°)	2 NO	No	Spring Return from Left	Spring Return from Right	K	D7M-SB32PX20	95.00
Selector Switch, Knob, 3-Position (0°, 60°, -60°)	2 NO	No	Latched / Main- tained	Latched / Main- tained		D7M-SM32MX20	128.00



D7M-SB32PX20

3-Position, Metal Body, Keyed

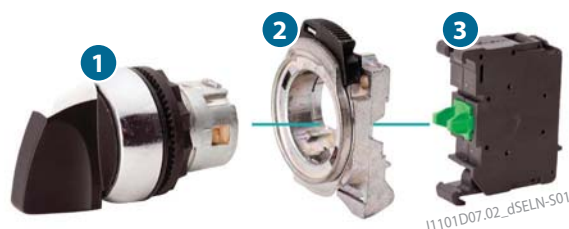
Type & Positions (0°=vertical)	Contacts	Key (Y/N (removal))	Operator Action (left)	Operator Action (right)	Keycode	Item Type	Catalogue No.	\$AU
Selector Switch, Key, 3-Position (60°, -60°, 0°)	2 NO	Yes (Left)	Latched / Main- tained	Latched / Main- tained	3825 (standard)	I	D7M-KM31MX20	278.00



D7M-KM31MX20

Short Lever Type Selector Switch (Components Only)

Product Selection



- 1 Select body
- 2 Select coupling plate
- 3 Select contact block and/or lamp module

2-Position Plastic Body



D7P-LSM23

Operator (colour)	positions (0°=vertical)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	-30°, 30°	Latched / Maintained	Latched / Maintained		D7P-SM22	51.00
Black	-30°, 30°	Spring Return from Left	Latched / Maintained		D7P-SL22	58.00
Black	-30°, 30°	Latched / Maintained	Spring Return from Right		D7P-SR22	58.00
Green	-30°, 30°	Latched / Maintained	Latched / Maintained		D7P-LSM23	64.00
Red	-30°, 30°	Latched / Maintained	Latched / Maintained		D7P-LSM24	65.00
Yellow	-30°, 30°	Latched / Maintained	Latched / Maintained		D7P-LSM25	65.00
Blue	-30°, 30°	Latched / Maintained	Latched / Maintained		D7P-LSM26	65.00
White	-30°, 30°	Latched / Maintained	Latched / Maintained		D7P-LSM27	65.00

2-Position Metal Body



D7M-SM22

Operator (colour)	positions (0°=vertical)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	-30°, 30°	Latched / Maintained	Latched / Maintained		D7M-SM22	61.00
Black	-30°, 30°	Spring Return from Left	Latched / Maintained		D7M-SL22	63.00
Black	-30°, 30°	Latched / Maintained	Spring Return from Right		D7M-SR22	63.00
Green	-30°, 30°	Latched / Maintained	Latched / Maintained		D7M-LSM23	72.00
Red	-30°, 30°	Latched / Maintained	Latched / Maintained		D7M-LSM24	72.00
Yellow	-30°, 30°	Latched / Maintained	Latched / Maintained		D7M-LSM25	72.00
Blue	-30°, 30°	Latched / Maintained	Latched / Maintained		D7M-LSM26	72.00

3-Position Plastic Body



D7P-SB32

Operator (colour)	positions (0°=vertical)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	0°, 60°, -60°	Spring Return from Left	Spring Return from Right		D7P-SB32	66.00
Black	0°, 60°, -60°	Latched / Maintained	Latched / Maintained		D7P-SM32	66.00
Black	0°, 60°, -60°	Spring Return from Left	Latched / Maintained		D7P-SL32	72.00
Black	0°, 60°, -60°	Latched / Maintained	Spring Return from Right		D7P-SR32	72.00
Green	0°, 60°, -60°	Spring Return from Left	Spring Return from Right		D7P-LSB33	81.00
Green	0°, 60°, -60°	Latched / Maintained	Latched / Maintained		D7P-LSM33	81.00
Red	0°, 60°, -60°	Latched / Maintained	Latched / Maintained	I	D7P-LSM34	81.00

3-Position Metal Body



D7M-SL32

Operator (colour)	positions (0°=vertical)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	0°, 60°, -60°	Latched / Maintained	Spring Return from Right		D7M-SR32	44.00
Black	0°, 60°, -60°	Spring Return from Left	Spring Return from Right		D7M-SB32	75.00
Black	0°, 60°, -60°	Latched / Maintained	Latched / Maintained		D7M-SM32	75.00
Black	0°, 60°, -60°	Spring Return from Left	Latched / Maintained		D7M-SL32	77.00
Green	0°, 60°, -60°	Spring Return from Left	Spring Return from Right		D7M-LSB33	85.00
Green	0°, 60°, -60°	Latched / Maintained	Latched / Maintained		D7M-LSM33	85.00

4-Position Plastic Body



D7P-SM42

Operator (colour)	positions (0°=vertical)	Operator Action (far left)	Operator Action (left)	Operator Action (right)	Operator Action (far right)	Item Type	Catalogue No.	\$AU
Black	22.5°, -22.5°, 67.5°, -67.5°	Latched / Maintained	Latched / Maintained	Latched / Maintained	Latched / Maintained		D7P-SM42	75.00

4-Position Metal Body

Operator (colour)	positions (0°=vertical)	Operator Action (far left)	Operator Action (left)	Operator Action (right)	Operator Action (far right)	Item Type	Catalogue No.	\$AU
Black	22.5°, -22.5°, 67.5°, -67.5	Latched / Maintained	Latched / Maintained	Latched / Maintained	Latched / Maintained		D7M-SM42	81.00



D7M-SM42

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			D7-X01
1 NO	No	No			D7-X10
1 NC	No	No			D7-BX01
1 NO	No	No			D7-BX10
1 NC	No	Yes	Plastic (D7-ALP)		D7-PX01
1 NO	No	Yes	Plastic(D7-ALP)		D7-PX10
1 NC	No	Yes	Metal(D7-ALM)		D7-MX01
1 NO	No	Yes	Metal (D7-ALM)		D7-MX10
1 NO + 1 NC	No	Yes	Plastic(D7-ALP)		D7-PX11
1 NO + 1 NC	No	Yes	Metal(D7-ALM)		D7-MX11

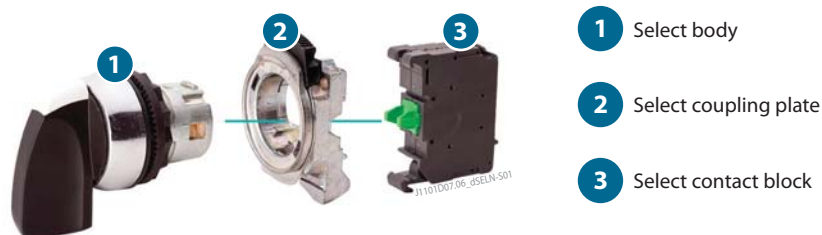
Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
Green (525nm)	24 - 120	24 - 120		D7-NUG
Red (629nm)	24 - 120	24 - 120		D7-NUR
White	24 - 120	24 - 120		D7-NUW
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-N3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-N3R
White	20 - 26 (24)	18 - 30 (24)		D7-N3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3R
White	20 - 26 (24)	18 - 30 (24)		D7-Q3W
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3G
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3R
White	20 - 26 (24)	18 - 30 (24)		D7-BN3W
Green (525nm)	70 - 132 (120)	-		D7-N5G
Red (629nm)	70 - 132 (120)	-		D7-N5R
White	70 - 132 (120)	-		D7-N5W
Green (525nm)	180 - 264 (240)	-		D7-N7G
Red (629nm)	180 - 264 (240)	-		D7-N7R
White	180 - 264 (240)	-		D7-N7W
Green (525nm)	180 - 264 (240)	-		D7-BN7G
Red (629nm)	180 - 264 (240)	-		D7-BN7R
White	180 - 264 (240)	-		D7-BN7W

J1101D07.02_dCHRT-502

Long Lever Type Selector Switch (Components Only)

Product Selection



2-Position Plastic Body



D7P-HM22

Operator (colour)	positions (0°=vertical)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	30°, -30°	Spring Return from Left	Latched / Maintained	I	D7P-HL22	61.00
Black	30°, -30°	Latched / Maintained	Latched / Maintained		D7P-HM22	61.00

2-Position Metal Body



D7M-HL22

Operator (colour)	positions (0°=vertical)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	30°, -30°	Spring Return from Left	Latched / Maintained	I	D7M-HL22	65.00
Black	30°, -30°	Latched / Maintained	Latched / Maintained		D7M-HM22	65.00
Black	30°, -30°	Latched / Maintained	Spring Return from Right	I	D7M-HR22	65.00

3-Position Plastic Body



D7P-HB32

Operator (colour)	positions (0°=vertical)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	0°, 60°, -60°	Spring Return from Left	Spring Return from Right		D7P-HB32	75.00
Black	0°, 60°, -60°	Spring Return from Left	Latched / Maintained		D7P-HL32	75.00
Black	0°, 60°, -60°	Latched / Maintained	Latched / Maintained		D7P-HM32	75.00
Black	0°, 60°, -60°	Latched / Maintained	Spring Return from Right		D7P-HR32	75.00

3-Position Metal Body



D7M-HM32

Operator (colour)	positions (0°=vertical)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	0°, 60°, -60°	Spring Return from Left	Spring Return from Right		D7M-HB32	81.00
Black	0°, 60°, -60°	Latched / Maintained	Latched / Maintained		D7M-HM32	81.00

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

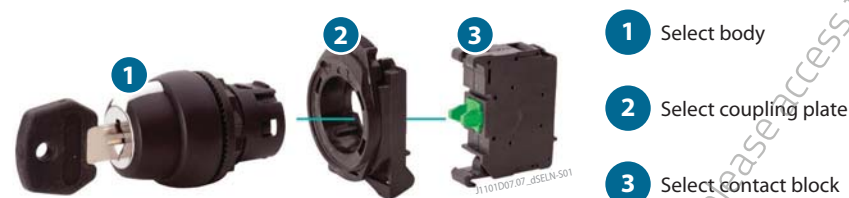
Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			D7-X01
1 NO	No	No			D7-X10
1 NC	No	No			D7-BX01
1 NO	No	No			D7-BX10
1 NC	No	Yes	Plastic (D7-ALP)		D7-PX01
1 NO	No	Yes	Plastic (D7-ALP)		D7-PX10
1 NC	No	Yes	Metal (D7-ALM)		D7-MX01
1 NO	No	Yes	Metal (D7-ALM)		D7-MX10
1 NO + 1 NC	No	Yes	Plastic (D7-ALP)		D7-PX11
1 NO + 1 NC	No	Yes	Metal (D7-ALM)		D7-MX11

J1101D07.06_dCHRT-S02

Keyed Selector Switch (Components Only)

Product Selection



2-Position Plastic Body

Operator (positions)	Key Removal (positions)	Operator Action (left)	Operator Action (right)	Keycode	Item Type	Catalogue No.	\$AU
30°, -30°	Right	Spring Return from Left	Latched / Maintained	3825 (standard)		D7P-KL22	196.00
30°, -30°	Left	Latched / Maintained	Spring Return from Right	3825 (standard)		D7P-KR21	196.00
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3825 (standard)		D7P-KM21	200.00
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3801		D7P-KM2101R	200.00
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3802		D7P-KM2102R	200.00
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3803		D7P-KM2103R	200.00
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3804	I	D7P-KM2104R	200.00
30°, -30°	Left	Latched / Maintained	Latched / Maintained	4004	I	D7P-KM2130R	200.00
30°, -30°	Right	Latched / Maintained	Latched / Maintained	3825 (standard)		D7P-KM22	200.00
30°, -30°	Left / Right	Latched / Maintained	Latched / Maintained	3825 (standard)		D7P-KM23	200.00



D7P-KM2101R

2-Position Metal Body

Operator (positions)	Key Removal (positions)	Operator Action (left)	Operator Action (right)	Keycode	Item Type	Catalogue No.	\$AU
30°, -30°	Left	Latched / Maintained	Latched / Maintained	455		D7M-KM21R	183.00
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3807		D7M-KM2127R	189.00
30°, -30°	Right	Spring Return from Left	Latched / Maintained	3825 (standard)		D7M-KL22	201.00
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3825 (standard)		D7M-KM21	201.00
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3801		D7M-KM2101R	201.00
30°, -30°	Right	Latched / Maintained	Latched / Maintained	3825 (standard)		D7M-KM22	201.00
30°, -30°	Left / Right	Latched / Maintained	Latched / Maintained	3825 (standard)		D7M-KM23	201.00
30°, -30°	Left	Latched / Maintained	Spring Return from Right	3825 (standard)		D7M-KR21	201.00
30°, -30°	Left	Latched / Maintained	Spring Return from Right	455		D7M-KR21R	201.00



D7M-KM2127R

3-Position Plastic Body



D7P-KM31

Operator (positions)	Key Removal (positions)	Operator Action (left)	Operator Action (right)	Keycode	Item Type	Catalogue No.	\$AU
0°, 60°, -60°	Centre	Spring Return from Left	Spring Return from Right	3825 (standard)		D7P-KB34	210.00
0°, 60°, -60°	Left	Latched / Maintained	Latched / Maintained	3825 (standard)	I	D7P-KM31	210.00
0°, 60°, -60°	All Positions	Latched / Maintained	Latched / Maintained	3825 (standard)		D7P-KM33	210.00
0°, 60°, -60°	Centre	Latched / Maintained	Latched / Maintained	3825 (standard)		D7P-KM34	210.00
0°, 60°, -60°	Left	Latched / Maintained	Spring Return from Right	3825 (standard)		D7P-KR31	210.00

3-Position Metal Body



D7M-KB34

Operator (positions)	Key Removal (positions)	Operator Action (left)	Operator Action (right)	Keycode	Item Type	Catalogue No.	\$AU
0°, 60°, -60°	Centre	Spring Return from Left	Spring Return from Right	3825 (standard)		D7M-KB34	215.00
0°, 60°, -60°	All Positions	Latched / Maintained	Latched / Maintained	3825 (standard)		D7M-KM33	215.00
0°, 60°, -60°	Centre	Latched / Maintained	Latched / Maintained	3825 (standard)		D7M-KM34	215.00

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			D7-X01
1 NO	No	No			D7-X10
1 NC	No	No			D7-BX01
1 NO	No	No			D7-BX10
1 NC	No	Yes	Plastic (D7-ALP)		D7-PX01
1 NO	No	Yes	Plastic (D7-ALP)		D7-PX10
1 NC	No	Yes	Metal (D7-ALM)		D7-MX01
1 NO	No	Yes	Metal (D7-ALM)		D7-MX10
1 NO + 1 NC	No	Yes	Plastic (D7-ALP)		D7-PX11
1 NO + 1 NC	No	Yes	Metal (D7-ALM)		D7-MX11

J1101D07.07_dCHRT-S02

D7 Potentiometers and Resistive Elements

Potentiometer Operators and Complete Potentiometers



D7P-POT

Resistance (Ω)	Resistive Element Included (Y/N)	Item Type	Catalogue No.	\$AU
	N		D7P-POT	200.00
1000	Y		D7P-POT3	277.00
5000	Y		D7P-POT5	277.00
10000	Y		D7P-POT6	277.00

Resistive Elements



D7-AC5

Resist. (Ω)	Item Type	Catalogue No.	\$AU
1000		D7-AC3	102.00
2500	I	D7-AC4	102.00
5000	I	D7-AC5	102.00
10000		D7-AC6	102.00

Legend Plates

Item Description	Item Type	Catalogue No.	\$AU
Potentiometer Legend Plate 1-10 Scale		D7-30WN	7.00

D7 Toggle Switches

Metal Body - Stayput

#Positions	Operator (action)	Item Type	Catalogue No.	\$AU
2	Latched / Maintained	I	D7M-JM2	307.00



D7M-JM2

Metal Body - Spring Return

#Positions	Operator (action)	Item Type	Catalogue No.	\$AU
2	Spring Return		D7M-JR2	307.00
4	Spring Return		D7M-JR4	349.00



D7M-JR2

D7 Pilot Lights

Pilot lights available in IP66 as complete units in one part number for voltages of 24V AC/DC, 120VAC or 230VAC. The D7P-P pilot lights are also tested to IP69K rating. Pilot lights can also be built by components by assembling three separate parts: a pilot light operator, coupling plate and lamp module. The lamp module can be either an integrated LED module (complete) or full voltage lamp module socket which requires selection of an additional BA9s lamp (LED or Incandescent). Component assembly allows greater choice of voltage selection.

D7 Pilot Lights Complete

24 V AC/DC

Housing (material)	Lens (colour)	Lamp (type)	Lamp (colour)	IP Rating	Item Type	Catalogue No.	\$AU
Polycarbonate & PBT Blend	Amber	LED	White	IP65;IP66;IP69K		D7P-P0-PN3W	85.00
Polycarbonate & PBT Blend	Green	LED	Green (525nm)	IP65;IP66;IP69K		D7P-P3PN3G	85.00
Polycarbonate & PBT Blend	Red	LED	Red (629nm)	IP65;IP66;IP69K		D7P-P4PN3R	85.00
Polycarbonate & PBT Blend	Yellow	LED	White	IP65;IP66;IP69K		D7P-P5PN3W	85.00
Polycarbonate & PBT Blend	Blue	LED	White	IP65;IP66;IP69K		D7P-P6PN3W	85.00
Polycarbonate & PBT Blend	Clear / Transparent	LED	White	IP65;IP66;IP69K		D7P-P7PN3W	85.00
Chromated Zinc & Stainless Steel	Amber	LED	White	IP65;IP66		D7M-P0-MN3W	96.00
Chromated Zinc & Stainless Steel	Green	LED	Green (525nm)	IP65;IP66		D7M-P3MN3G	96.00
Chromated Zinc & Stainless Steel	Red	LED	Red (629nm)	IP65;IP66		D7M-P4MN3R	96.00
Chromated Zinc & Stainless Steel	Yellow	LED	White	IP65;IP66		D7M-P5MN3W	96.00
Chromated Zinc & Stainless Steel	Blue	LED	White	IP65;IP66		D7M-P6MN3W	96.00
Chromated Zinc & Stainless Steel	Clear / Transparent	LED	White	IP65;IP66		D7M-P7MN3W	96.00



D7P-P0-PN3W

10

120 V AC

Housing (material)	Lens (colour)	Lamp (type)	Lamp (colour)	IP Rating	Item Type	Catalogue No.	\$AU
Polycarbonate & PBT Blend	Green	LED	Green (525nm)	IP65;IP66;IP69K	K	D7PP3PN5G	103.00
Polycarbonate & PBT Blend	Amber	LED	White	IP65;IP66;IP69K	K	D7PP0PN5W	103.00
Polycarbonate & PBT Blend	Red	LED	Red (629nm)	IP65;IP66;IP69K	K	D7PP4PN5R	103.00
Polycarbonate & PBT Blend	Yellow	LED	White	IP65;IP66;IP69K	K	D7PP5PN5W	103.00
Chromated Zinc & Stainless Steel	Green	LED	Green (525nm)	IP65;IP66	K	D7MP3MN5G	109.00
Chromated Zinc & Stainless Steel	Red	LED	Red (629nm)	IP65;IP66	K	D7MP4MN5R	109.00



D7MP3MN5G



D7P-P6PN7W

240 V AC

Housing (material)	Lens (colour)	Lamp (type)	Lamp (colour)	IP Rating	Item Type	Catalogue No.	\$AU
Polycarbonate & PBT Blend	Blue	LED	White	IP65;IP66;IP69K		D7P-P6PN7W	103.00
Polycarbonate & PBT Blend	Clear / Transparent	LED	White	IP65;IP66;IP69K		D7P-P7PN7W	103.00
Polycarbonate & PBT Blend	Amber	LED	White	IP65;IP66;IP69K		D7P-P0-PN7W	103.00
Polycarbonate & PBT Blend	Green	LED	Green (525nm)	IP65;IP66;IP69K		D7P-P3PN7G	103.00
Polycarbonate & PBT Blend	Red	LED	Red (629nm)	IP65;IP66;IP69K		D7P-P4PN7R	103.00
Polycarbonate & PBT Blend	Yellow	LED	White	IP65;IP66;IP69K		D7P-P5PN7W	103.00
Chromated Zinc & Stainless Steel	Amber	LED	White	IP65;IP66		D7M-P0-MN7W	96.00
Chromated Zinc & Stainless Steel	Green	LED	Green (525nm)	IP65;IP66		D7M-P3MN7G	112.00
Chromated Zinc & Stainless Steel	Red	LED	Red (629nm)	IP65;IP66		D7M-P4MN7R	112.00
Chromated Zinc & Stainless Steel	Blue	LED	White	IP65;IP66		D7M-P6MN7W	112.00
Chromated Zinc & Stainless Steel	Clear / Transparent	LED	White	IP65;IP66		D7M-P7MN7W	112.00



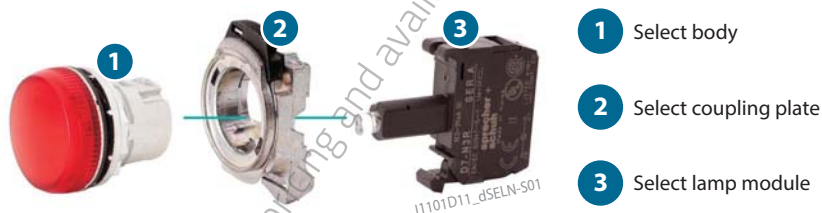
D7P-P3PN3GXD7

D7 Push-To-Test

Housing (material)	Lens (colour)	Lamp (type)	Lamp (colour)	IP Rating	Item Type	Catalogue No.	\$AU
Polycarbonate & PBT Blend	Green	LED	Green (525nm)	IP65;IP66;IP69K		D7P-P3PN3GXD7	166.00

D7 Pilot Light Operators (Components Only)

Product Selection



Plastic Body



D7P-P0

Lens (colour)	IP Rating	Item Type	Catalogue No.	\$AU
Amber	IP65;IP66;IP69K		D7P-P0	18.00
Green	IP65;IP66;IP69K		D7P-P3	18.00
Red	IP65;IP66;IP69K		D7P-P4	18.00
Yellow	IP65;IP66;IP69K		D7P-P5	20.00
Blue	IP65;IP66;IP69K		D7P-P6	20.00
Clear / Transparent	IP65;IP66;IP69K		D7P-P7	20.00

Metal Body



D7M-P7

Lens (colour)	IP Rating	Item Type	Catalogue No.	\$AU
Amber	IP65;IP66		D7M-P0	25.00
Green	IP65;IP66		D7M-P3	25.00
Red	IP65;IP66		D7M-P4	25.00
Yellow	IP65;IP66		D7M-P5	25.00
Blue	IP65;IP66		D7M-P6	25.00
Clear / Transparent	IP65;IP66		D7M-P7	25.00

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		D7-ALP
Coupling Plate Metal		D7-ALM

J1101D11_dCHRT-S02

Lens Caps for Pilot Lights (Spares / Replacements)

Lens (colour)	Item Type	Catalogue No.	\$AU
Amber		D7-AP0	15.00
Green		D7-AP3	15.00
Red		D7-AP4	15.00
Yellow		D7-AP5	15.00
Blue		D7-AP6	15.00
Clear / Transparent		D7-AP7	15.00



D7-AP5

D7 Lamp Modules for use with Pilot Lights

The Sprecher + Schuh range of integrated lamp modules can be used together with D7 pilot light heads and other operators. The integrated LED modules are available in a wide range of voltages and assortment of different colours. D0C lamp sockets for incandescent pilot lights can also be used for retrofitting with LED replacement bulbs

Integrated LED Modules, 24-120V AC/DC

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.	\$AU
Green (525nm)	24 - 120	24 - 120		D7-NUG	58.00
Red (629nm)	24 - 120	24 - 120		D7-NUR	58.00
White	24 - 120	24 - 120		D7-NUW	58.00



D7-NUG

Integrated LED Modules, 24V AC/DC

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.	\$AU
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-N3G	57.00
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-N3R	57.00
White	20 - 26 (24)	18 - 30 (24)		D7-N3W	57.00
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3G	62.00
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-Q3R	62.00
White	20 - 26 (24)	18 - 30 (24)		D7-Q3W	62.00
Green (525nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3G	65.00
Red (629nm)	20 - 26 (24)	18 - 30 (24)		D7-BN3R	65.00
White	20 - 26 (24)	18 - 30 (24)		D7-BN3W	65.00



D7-N3W

Integrated LED Modules, 120V AC

Lamp (colour)	Un (V AC min-max (nom))	Item Type	Catalogue No.	\$AU
Green (525nm)	70 - 132 (120)		D7-N5G	70.00
Red (629nm)	70 - 132 (120)		D7-N5R	70.00
White	70 - 132 (120)		D7-N5W	70.00



D7-N5R

Integrated LED Modules, 240V AC

Lamp (colour)	Un (V AC min-max (nom))	Item Type	Catalogue No.	\$AU
Green (525nm)	180 - 264 (240)		D7-N7G	70.00
Red (629nm)	180 - 264 (240)		D7-N7R	70.00
White	180 - 264 (240)		D7-N7W	70.00
Green (525nm)	180 - 264 (240)	I	D7-BN7G	88.00
Red (629nm)	180 - 264 (240)	I	D7-BN7R	88.00
White	180 - 264 (240)		D7-BN7W	88.00



D7-BN7W



Full Voltage Lamp Modules (Less Ba9s Lamp)

Lamp (holder)	Un	Pwr Max (W)	Item Type	Catalogue No.	\$AU
Ba9s	240V AC	2		D7-D0C	42.00
Ba9s	240V AC	2		D7-PD0C	49.00

BA9s Lamps for Full Voltage Lamp Module

LED Lamps



Lamp (type)	Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.	\$AU
LED	Green (525nm)	12	12	I	BA9S-GL12VACDC	83.00
LED	Red (629nm)	12	12		BA9SRL12VACDC	85.00
LED	White	12	12		BA9S-WL12VACDC	83.00
LED	Green (525nm)	24	24		BA9S-GL24VAC/DC	83.00
LED	Red (629nm)	24	24		BA9S-RL24VACDC	83.00
LED	Yellow (590nm)	24	24		BA9S-YL24VAC/DC	83.00
LED	Blue (470nm)	24			BA9S-BLA24VAC	83.00
LED	White	24	24		BA9S-WL24VACDC	83.00
LED	Green (525nm)	48	48		BA9S-GL48VACDC	83.00
LED	Red (629nm)	48	48		BA9S-RL48VACDC	83.00
LED	Yellow (590nm)	48	48	I	BA9S-YL48VAC/DC	83.00
LED	White	48	48		BA9S-WL48VACDC	83.00
LED	Green (525nm)	130	130		BA9S-GL130VACDC	83.00
LED	Red (629nm)	130	130		BA9S-RL130VACDC	83.00
LED	Yellow (590nm)	130	130		BA9S-YL130VACDC	83.00
LED	White	130	130		BA9S-WL130VACDC	83.00
LED	Green (525nm)	240			BA9S-GL-A-240VAC	85.00
LED	Red (629nm)	240			BA9S-RL-A-240VAC	85.00
LED	Yellow (590nm)	240		I	BA9S-YL-A-240VAC	85.00
LED	White	240			BA9S-WL-A-240VAC	85.00

Push-To-Test



Lamp (type)	Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.	\$AU
		24 - 120 (120)	24 - 120 (120)		D7-XD7	40.00
LED	Green	24 - 120	24 - 120		D7-N3GXD7	146.00
LED	Red	24 - 120 (24)	24 - 120 (24)		D7-N3RXD7	146.00
LED	White	24 - 120 (24)	24 - 120 (24)		D7-N3WXD7	154.00
LED	Green	180 - 264 (240)	-		D7-N7GXD7	210.00
LED	Red	180 - 264 (240)	-		D7-N7RXD7	210.00
LED	White	180 - 264 (240)	-	A	D7-N7WXD7	215.00

D7 Enclosed Pushbutton Stations

These easy to order pushbutton stations come complete or empty so that you can configure your own pushbutton station.

D7 Empty Enclosures

Grey Plastic



Operator (cutouts)	Conduit Entry (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	2 x M16 / M20	85	89	58		D7-1PM	90.00
2 x 22.5mm	2 x M16 / M20	124	79	58		D7-2PM	121.00
3 x 22.5mm	2 x M16 / M20	155	79	58		D7-3PM	141.00
4 x 22.5mm	2 x M16 / M20	186	79	58		D7-4PM	185.00
6 x 22.5mm	2 x M16 / M20	248	87	64		D7-6PM	246.00

Yellow Plastic



Operator (cutouts)	Conduit Entry (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	2 x M16 / M20	85	89	58		D7-1YM	103.00

Grey Plastic, Deep Profile

Operator (cutouts)	Conduit Entry (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	1 x M16 / M20	110	90	85		D7-1PB22G	121.00
2 x 22.5mm	1 x M16 / M20	190	90	85		D7-2PB22G	147.00
3 x 22.5mm	1 x M16 / M20	190	90	85		D7-3PB22G	164.00
4 x 22.5mm	1 x M16 / M20	250	90	85		D7-4PB22G	196.00



D7-1PB22G

Yellow Plastic, Deep Profile

Operator (cutouts)	Conduit Entry (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	1 x M16 / M20	110	90	85		D7-1PB22Y	135.00
2 x 22.5mm	1 x M16 / M20	190	90	85		D7-2PB22Y	161.00
3 x 22.5mm	1 x M16 / M20	190	90	85	I	D7-3PB22Y	183.00



D7-1PB22Y

Grey Aluminium

Operator (cutouts)	Conduit Entry (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	2 x M16 / M20	99	85	80.5		D7-1MM	176.00
2 x 22.5mm	2 x M16 / M20	137	85	80.5		D7-2MM	208.00
3 x 22.5mm	2 x M16 / M20	174	85	80.5		D7-3MM	227.00
5 x 22.5mm	2 x M16 / M20	249	85	80.5		D7-5MM	334.00



D7-2MM

Yellow Aluminium

Operator (cutouts)	Conduit Entry (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	2 x M16 / M20	99	85	80.5		D7-1MYM	196.00



D7-1MYM

Pendant Enclosure

Operator (cutouts)	Conduit Entry (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	1 x M20	149	60	81		D7-P15	128.00
2 x 22.5mm	1 x M20	149	60	81		D7-P25	134.00



D7-P15

D7 Enclosed Pushbutton Stations

Operator (cutouts)	Conduit Entry (entry)	Housing (material)	Item Description	Item Type	Catalogue No.	\$AU
1 x 22.5mm	1 x M20	Polycarbonate & PBT Blend	Enclosed Pushbutton Plastic 1N/O Start		D7-1PM301W	160.00
1 x 22.5mm	1 x M20	Polycarbonate & PBT Blend	Pushbutton Station 1 x 22.5mm Hole With Off and On	A	D7-1PMHM22	200.00
2 x 22.5mm	1 x M20	Polycarbonate & PBT Blend	Pushbutton Station Plastic-Green "Start" And Red "Stop" Buttons		D7-2PMPB	246.00
3 x 22.5mm	1 x M20	Polycarbonate & PBT Blend	Pushbutton Station 3 x 22.5mm Holes with Momentary Pushbuttons	A	D7-3PMPB	313.00
2 x 22.5mm	1 x M20	Aluminium	Station D7 2 Button Metal Stop/Start		D7-2MMPB	324.00



D7-1PMHM22

D7 Contact Blocks and Coupling Plates

No Sprecher + Schuh D7 pushbutton is complete without a coupling plate and contact block. Available in a wide assortment of contact configurations, there's always a solution available.

Coupling Plates

To be used with all standard D7 operator devices.



D7-ALM

Item Description	Item Type	Catalogue No.	\$AU
Coupling Plate Plastic		D7-ALP	7.55
Coupling Plate Metal		D7-ALM	10.00



D7-PX01

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.	\$AU
1 NC	No	No			D7-X01	20.00
1 NO	No	No			D7-X10	20.00
1 NCEB	No	No			D7-X01B	27.00
1 NCLB	No	No			D7-X01L	27.00
1 NOEM	No	No			D7-X10E	27.00
1 NC	No	Yes	Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)		D7-PX01	28.00
1 NO	No	Yes	Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)		D7-PX10	28.00
1 NC	No	Yes	Chromated Zinc & Stainless Steel		D7-MX01	35.00
1 NO	No	Yes	Chromated Zinc & Stainless Steel		D7-MX10	35.00
1 NO + 1 NC EB 1st Contact	No	Yes	Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)		D7-PX11	48.00
1 NO + 1 NC EB 1st Contact	No	Yes	Chromated Zinc & Stainless Steel		D7-MX11	52.00
1 NC, SMCB	Yes	No			D7-X01S	52.00
1 NC, SMCB	Yes	Yes	Chromated Zinc & Stainless Steel	K	D7MX01S	62.00
1 NC, SMCB	Yes	Yes	Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)		D7-PX01S	65.00

Standard Base / DIN Mount Contact Blocks

Mount	Contacts	Self Monitoring (Y / N)	Item Type	Catalogue No.	\$AU
Base Mount	1 NC	Y / N		D7-BX01	23.00
Base Mount	1 NO	Y / N		D7-BX10	23.00



D7-BX01

Low Voltage (Gold Contact) Contact Blocks

Required when switching PLC and other low-voltage inputs.

Mounting	Contacts	Self Monitoring (Y / N)	Item Type	Catalogue No.	\$AU
Panel Mount	1 NC	Y / N		D7-X01V	45.00
Panel Mount	1 NO	Y / N		D7-X10V	45.00



D7-X01V

D7 Monolithic Operators

The D7 range of monolithic operators are all in one with no requirement to purchase a operator head, coupling plate, contact / LED modules separately. Choose from a range of pushbuttons (flush, extended cap), pilot lights, selector switches, emergency stop operators and more!

D7 Monolithic Pushbuttons

Operator (type)	Operator (action)	Operator (colour)	Contacts	Item Type	Catalogue No.	\$AU
Pushbutton, Flush	Momentary	Black	1 NO		D7D-F2X10	41.00
Pushbutton, Flush	Momentary	Green	1 NO		D7D-F3X10	41.00
Pushbutton, Flush	Momentary	Blue	1 NO	I	D7D-F6X10	41.00



D7D-F6X10

D7 Monolithic E-stops

Operator (type)	Operator (action)	Operator (colour)	Contacts	Item Type	Catalogue No.	\$AU
E-Stop, Mushroom Head	Twist to Release	Red	1 NC		D7D-MT44X01	97.00
E-Stop, Mushroom Head	Twist to Release	Red	2 NC		D7D-MT44X02	119.00
E-Stop, Mushroom Head	Twist to Release	Red	1 NO + 1 NC EB 1st Contact		D7D-MT44X11	119.00



D7D-MT44X01

D7 Monolithic Pilot Lights

Monolithic LED Pilot Lights

Lens (colour)	Lamp Included (Y/N (type))	Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.	\$AU
Amber	Yes (LED)	Amber	20 - 26 (24)	18 - 30 (24)		D7D-P0N3	75.00
Green	Yes (LED)	Green	20 - 26 (24)	18 - 30 (24)		D7D-P3N3	75.00
Red	Yes (LED)	Red	20 - 26 (24)	18 - 30 (24)		D7D-P4N3	75.00
Blue	Yes (LED)	Blue	20 - 26 (24)	18 - 30 (24)		D7D-P6N3	75.00
Clear / Transparent	Yes (LED)	White	20 - 26 (24)	18 - 30 (24)		D7D-P7N3	75.00
Amber	Yes (LED)	Amber	- (240)	-	I	D7D-P0N7	85.00
Green	Yes (LED)	Green	- (240)	-		D7D-P3N7	85.00
Red	Yes (LED)	Red	- (240)	-		D7D-P4N7	85.00
Blue	Yes (LED)	Blue	- (240)	-	I	D7D-P6N7	85.00



D7D-P4N3

Monolithic Incandescent Pilot Lights

Item Description	Lamp Included (Y/N (type))	Item Type	Catalogue No.	\$AU
Pilot Light monolithic no Lamp	No		D7D-P9D0	65.00



D7D-P9D0

Lens Caps to suit Monolithic Pilot Lights

Lens (colour)	Item Type	Catalogue No.	\$AU
Green		D7D-AP3	17.00
Red		D7D-AP4	17.00



D7D-AP3

D7 Monolithic Selector Switches

Operator (type)	Positions (0°=vertical)	Operator Action (left)	Operator Action (right)	Contacts	Item Type	Catalogue No.	\$AU
Selector Switch, Knob, 2-Position	-30°, 30°	Latched / Maintained	Latched / Maintained	1 NO		D7D-SM22X10	49.00
Selector Switch, Knob, 3-Position	-60°, 0°, 60°	Spring Return from Left	Spring Return from Right	2 NO	I	D7D-SB32X20	74.00
Selector Switch, Knob, 2-Position	-30°, 30°	Latched / Maintained	Latched / Maintained	1 NO + 1 NC EB 1st Contact	I	D7D-SM22X11	74.00
Selector Switch, Knob, 3-Position	-60°, 0°, 60°	Latched / Maintained	Latched / Maintained	2 NO		D7D-SM32X20	74.00
Selector Switch, Knob, 2-Position	-30°, 30°	Latched / Maintained	Latched / Maintained	2 NO		D7D-SM22X20	75.00



D7D-SM22X10

D7 Accessories

The Sprecher + Schuh D7 range feature a large complement of accessories including but not limited to engraved legend plates and caps, padlock attachments, guards and spare keys.

Colour Caps for Non-Illuminated Pushbuttons

Colour Caps for Flush Non-Illuminated Pushbuttons



D7-AF1CE110

Colour (cap)	Colour (text)	Text	Item Type	Catalogue No.	\$AU
White	-	-		D7-AF1	5.20
Black	-	-		D7-AF2	5.20
Green	-	-		D7-AF3	5.20
Red	-	-		D7-AF4	5.20
Yellow	-	-		D7-AF5	5.20
Blue	-	-		D7-AF6	5.20
White	Black	DOWN	A	D7-AF1CE110	8.10
Black	White	CLOSE		D7-AF2CE107	9.80
Black	White	DOWN		D7-AF2CE110	9.80
Black	White	FORWARD		D7-AF2CE120	9.80
Black	White	LOWER		D7-AF2CE152	9.80
Black	White	OPEN		D7-AF2CE170	9.80
Black	White	RAISE		D7-AF2CE182	9.80
Black	White	REVERSE		D7-AF2CE188	9.80
Black	White	TEST		D7-AF2CE219	9.80
Black	White	UP		D7-AF2CE223	9.80
Green	White	START		D7-AF301	9.80
Green	White	DOWN		D7-AF3CE110	9.80
Green	White	FORWARD		D7-AF3CE120	9.80
Green	White	OPEN		D7-AF3CE170	9.80
Green	White	REVERSE		D7-AF3CE188	9.80
Green	White	UP		D7-AF3CE223	9.80
Green	White	STOP		D7-AF402	9.80
Green	White	CLOSE	I	D7-AF4CE107	9.80
Green	White	STOP	I	D7-AF4CE212	9.80
Yellow	White	TEST		D7-AF5CE219	9.80
Blue	White	R	I	D7-AF611	9.80
Blue	White	RESET		D7-AF6CE186	9.80
Green	White	CLOSE	A	D7-AF3CE107	10.00

Colour Caps for Extended Non-Illuminated Pushbuttons



D7-AE5

Colour (cap)	Colour (text)	Text	Item Type	Catalogue No.	\$AU
White	-	-	I	D7-AE1	6.50
Black	-	-	I	D7-AE2	6.50
Yellow	-	-	I	D7-AE5	6.50

Colour Caps for Flush Multifunction Pushbuttons



D7-AFU3

Colour (cap)	Colour (text)	Text	Item Type	Catalogue No.	\$AU
White	-	-		D7-AFU1	7.55
Black	-	-		D7-AFU2	7.65
Green	-	-		D7-AFU3	7.65
Red	-	-		D7-AFU4	7.65
Green	White	DOWN		D7-AFAU3CE110	9.80
Green	White	START		D7-AFCU3CE208	9.80
Green	White	UP		D7-AFCU3CE223	9.80
Green	White	↑		D7-AFCU3CU712	14.00
Green	White	I		D7-AFCU3CU909	14.00

Colour Caps for Extended Multifunction Pushbuttons



D7-AEU4

Colour (cap)	Colour (text)	Text	Item Type	Catalogue No.	\$AU
Red	-	-		D7-AEU4	8.55
Red	White	STOP		D7-AEAU4CE212	14.00
Red	White	O		D7-AEAU4CU910	14.00

Diffusers and Lens Caps for Illuminated Pushbuttons and Pilot Lights

Lens Caps for Flush Illuminated Pushbuttons

Colour (cap)	Item Type	Catalogue No.	\$AU
Amber	I	D7-ALF0	15.00
Green	I	D7-ALF3	15.00
Red	I	D7-ALF4	15.00
Blue	I	D7-ALF6	15.00
Clear / Transparent	I	D7-ALF7	15.00



D7-ALF6

Diffusers for Flush Illuminated Pushbuttons

Colour (diffuser)	Colour (text)	Text	Item Type	Catalogue No.	\$AU
Clear / Transparent	-	-	I	D7-AD2	4.85
Clear / Transparent	Black	CLOSE	I	D7-AD2CE107	9.80
Clear / Transparent	Black	LOWER	I	D7-AD2CE152	9.80
Clear / Transparent	Black	ON	I	D7-AD2CE166	9.80
Clear / Transparent	Black	OPEN	I	D7-AD2CE170	9.80
Clear / Transparent	Black	RESET	I	D7-AD2CE186	9.80
Clear / Transparent	Black	START	I	D7-AD2CE208	9.80
Clear / Transparent	Black	STOP	I	D7-AD2CE212	9.80



D7-AD2CE212

Diffusers for Extended Illuminated Pushbuttons

Colour (diffuser)	Colour (text)	Text	Item Type	Catalogue No.	\$AU
Clear / Transparent	-	-	I	D7-AD4	4.85



D7-AD4

Diffusers for Pilot Lights

Colour (diffuser)	Colour (text)	Text	Item Type	Catalogue No.	\$AU
Clear / Transparent	-	-	I	D7-AD3	5.35
Clear / Transparent	Black	ON	I	D7-AD3CE166	9.80



D7-AD3

One-Piece Legend Plates

Emergency Stop Rings

Item Description	Colour (plate)	Colour (text)	Text (plate)	Item Type	Catalogue No.	\$AU
Legend Emergency Stop Blank 60mm	Yellow	-	-	I	D7-15Y	10.00
Legend "Emergency Stop" 60mm	Yellow	Black	EMERGENCY STOP	I	D7-15YE112	15.00
Legend "Emergency Stop" 90mm	Yellow	Black	EMERGENCY STOP	I	D7-16YE112	31.00



D7-15YE112

One-Piece Legend Plates, Blank

Material (plate)	Colour (plate)	Size (mm, H x W)	Item Type	Catalogue No.	\$AU
Aluminium	Silver	38.6 x 29.8	I	D7-34AE100	7.55
Plastic	Black	38.6 x 29.8	I	D7-34BE100	7.55
Aluminium	Silver	48.5 x 29.8	I	D7-35AE100	7.55
Plastic	Black	48.5 x 29.8	I	D7-35BE100	7.55
Plastic	White	48.5 x 29.8	I	D7-35WE100	7.55



D7-35WE100

Two-Piece Snap-in Legend Plates and Frames

Snap-in Legend Plate Carriers



D7-110

Material (frame)	Frame (mm, H x W x D)	Legend Plate (mm, H x W)	To Suit (operators)	Item Type	Catalogue No.	\$AU
Plastic	49.2 x 29.7 x 6.1	18.7 x 29.8	Standard 22.5mm operators		D7-120	4.30
Plastic	39.7 x 29.7 x 6.1	8.8 x 29.8	Standard 22.5mm operators		D7-110	4.50
Plastic	69.5 x 29.7 x 6.1	18.7 x 29.8	Multifunction operators		D7-200	4.75
Plastic	47.8 x 49.7 x 6.1	14.5 x 14.5	Multifunction operators		D7-400	4.75

Snap-in Legend Plates to suit D7-110, Blank



D7-17WE100

Material (plate)	Legend (colour)	Colour (text)	Size (mm, H x W)	For Frame(s)	Item Type	Catalogue No.	\$AU
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm		D7-17BE100	9.45
Plastic	White	Black	8.8 x 29.8	D7-110, 30x40mm		D7-17WE100	9.45

Snap-in Legend Plates to suit D7-110, Engraved



D7-17BE182

LegendPlate	Legend (colour)	Colour (text)	Size (mm, H x W)	For Frame(s)	Text	Item Type	Catalogue No.	\$AU
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	FOR - REV	A	D7-17BE303	9.25
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	CLOSE		D7-17BE107	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	DOWN	I	D7-17BE110	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	EMERGENCY STOP	I	D7-17BE112	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	FAULT		D7-17BE113	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	FORWARD		D7-17BE120	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	HIGH	I	D7-17BE129	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	LEFT	I	D7-17BE145	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	LOWER		D7-17BE152	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	OFF		D7-17BE163	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	OFF - ON		D7-17BE165	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	ON		D7-17BE166	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	OPEN		D7-17BE170	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	OPEN - CLOSE	I	D7-17BE171	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	RAISE		D7-17BE182	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	RAISE - OFF - LOWER	I	D7-17BE184	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	REVERSE		D7-17BE188	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	START		D7-17BE208	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	STOP		D7-17BE212	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	STOP - START	A	D7-17BE215	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	UP	I	D7-17BE223	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	UP - DOWN	I	D7-17BE224	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	MAN - O - AUTO		D7-17BE238	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	EMERG STOP	I	D7-17BE251	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	FOR - OFF - REV		D7-17BE261	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	ON - OFF - AUTO		D7-17BE300	9.45
Plastic	Black	White	8.8 x 29.8	D7-110, 30x40mm	MAN - AUTO		D7-17BE301	9.45

Snap-in Legend Plates to suit D7-120 / D7-200, Blank



D7-18WE100

LegendPlate	Legend (colour)	Colour (text)	Size (mm, H x W)	For Frame(s)	Item Type	Catalogue No.	\$AU
Aluminium	Silver	Black	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm		D7-18AE100	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm		D7-18BE100	9.45
Plastic	White	Black	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm		D7-18WE100	9.45

Snap-in Legend Plates to suit D7-120 / D7-200, Engraved

LegndPlate	Legend (colour)	Colour (text)	Size (mm, H x W)	For Frame(s)	Text	Item Type	Catalogue No.	\$AU
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	EMERGENCY STOP	I	D7-18BE112	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	FAULT	I	D7-18BE113	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	FORWARD	I	D7-18BE120	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	HAND - OFF - AUTO	I	D7-18BE128	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	LOWER	I	D7-18BE152	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	OFF	I	D7-18BE163	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	OFF - ON	I	D7-18BE165	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	ON	I	D7-18BE166	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	OPEN	I	D7-18BE170	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	RAISE	I	D7-18BE182	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	REVERSE	I	D7-18BE188	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	START	I	D7-18BE208	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	STOP	I	D7-18BE212	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	STOP - START	A	D7-18BE215	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	UP	I	D7-18BE223	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	UP - DOWN	I	D7-18BE224	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	MAN - O - AUTO	A	D7-18BE238	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	ON - OFF - AUTO	A	D7-18BE300	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	MAN - AUTO	A	D7-18BE301	9.45
Plastic	Black	White	18.7 x 29.8	D7-120, 30x50mm and D7-200, 30x60mm	FOR - REV	A	D7-18BE303	9.45



D7-18BE223

Snap-in Legend Plates to suit D7-400, Blank

LegndPlate	Legend (colour)	Colour (text)	Size (mm, H x W)	For Frame(s)	Item Type	Catalogue No.	\$AU
Plastic	Black	White	14.5 x 14.5	D7-400, 50x50mm	I	D7-42BE100	7.00

D7 Legend Plates | Custom Order Form

NHP

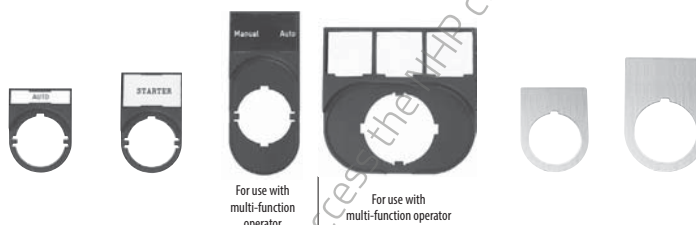
CUSTOMER DETAILS		CUSTOMER SERVICE ONLY	
Company Name		Purchase Order Number	
Company Contact		NHP Sales Order Number	
Contact Number		NHP Sales Representative	
Email Address		Date	

Legend frames – selection:

Legend frames of various sizes accept different legend plates. Select the frame size and the corresponding legend plate below.

Legend frame must be ordered separately.

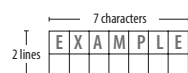
One-piece legends are complete parts and do not require a separate legend frame and plate.



Legend frame Cat No.	D7-110	D7-120	D7-200	D7-400 ¹⁾	One piece legends	
Dimensions (mm)	30 x 40	30 x 50	30 x 60	50 x 50	30 x 40	30 x 50
Legend plate to suit	D7-17 ...	D7-18 ...	D7-18 ...	D7-42 ...	D7-34 ...	D7-35 ...

Legend plates – available character space:

Each legend will have a limited amount of lines and characters which can be printed, depending on the type and font size.



Text size	D7-17 ...	D7-18 ...	D7-42 ...	D7-34 ...	D7-35 ...
3 mm					
4 mm					
5 mm					

Legend plates – blank Cat No:

Please refer to the following page for blank Cat No. selection and ordering instructions.

sprecher+
schuh

Notes: 1) Three D7-42 snap-in legend plates are required for each D7-400 legend frame.
Ordering details: NHP to use Cat No. D7SPECIAL for engraving individual legend plates. Set price regardless of the number of characters.

This form is available at nhp.com.au/forms

NSD7LEGENDF_D01

D7 Legend Plates | Custom Order Form



Legend plates – blank Cat No:

Legend frame to hold legend plate must be ordered separately.

ALUMINIUM – BLACK TEXT		WHITE – BLACK TEXT		BLACK – WHITE TEXT	
D7-17 AE100	D7-35 AE100	D7-17 WE100	D7-35 WE100	D7-17 BE100	D7-35 BE100
D7-18 AE100	D7-42 AE100	D7-18 WE100	D7-42 WE100	D7-18 BE100	D7-42 BE100
D7-34 AE100		D7-34 WE100		D7-34 BE100	

[illegible]

ORDERING INSTRUCTIONS

Step 1: Fill in the blank Cat No. for the custom legend plate from the table above.

Step 2: Advise the required font size. 3mm, 4mm, or 5mm.

Step 3: Advise the quantity of custom legend plates required.

Step 4: Fill in the characters to be printed. Note the maximum number characters and lines available.



Ordering details: NHP to use Cat No. D7SPECIAL for engraving individual legend plates. Set price regardless of the number of characters.

This form is available at nhp.com.au/forms



D7-ALC1

Anti Rotation Washer

Item Description	Item Type	Catalogue No.	\$AU
Locking/Anti Rotation Washer	I	D7-ALC1	12.00



D7-AW2

Fixing Ring Tool

Item Description	Item Type	Catalogue No.	\$AU
Fixing Ring Tool		D7-AW2	27.00



D7-N8

Hole Plug

Item Description	Item Type	Catalogue No.	\$AU
Hole Plug 22.5mm Black Plastic		D7-N2	14.00
Hole Plug 22.5mm Grey Plastic		D7-N8	14.00



D7-ALR1

Lens Bulb Removal Tool

Item Description	Item Type	Catalogue No.	\$AU
Lens Bulb Removal Tool		D7-ALR1	28.00



D7-ARP

Lock Nuts

Item Description	Item Type	Catalogue No.	\$AU
Mounting Ring Plastic		D7-ARP	4.50
Mounting Ring Metal	I	D7-ARM	7.00



D7-AHA1

Mounting Hole Adaptor 30mm to 22.5mm

Item Description	Item Type	Catalogue No.	\$AU
Adaptor Ring 30mm To 22.5mm		D7-AHA1	40.00



D7-AFL1

Padlock Attachment for Pushbuttons

Item Description	Item Type	Catalogue No.	\$AU
Padlock Attachment For 40mm E-Stop Operators		D7-AML2	109.00
Padlock Attachment For Flush Pushbuttons		D7-AFL1	115.00
Padlock Attachment For 40mm Mush Operators	I	D7-AML1	117.00

Padlock Attachment for Selector Switch

Item Description	Item Type	Catalogue No.	\$AU
Padlock Attach 2 Position Selector Switch Left Lock		D7-ASL2L	115.00
Padlock Attach 3 Position Switch Centre Lock		D7-ASL3C	117.00



D7-ASL3C

Padlockable Cover

Item Description	Item Type	Catalogue No.	\$AU
Padlockable Cover For D7 Operators		D7-AL01	107.00



D7-AL01

Protective Guards

Item Description	Item Type	Catalogue No.	\$AU
Pushbutton Guard, Yellow For Emergency Stop		D7-A6PR5	31.00
Pushbutton Guard, Narrow Yellow Plastic		D7-AMEGY	31.00



D7-AMEGY

Protective Metal Ring for Mushroom Operators

Item Description	Item Type	Catalogue No.	\$AU
Protective Ring For 40mm Mushroom		D7-AMRG	102.00
Yellow Protective Ring For 40mm Mushroom		D7-AMRGY	128.00



D7-AMRG

Push Button Holder

Item Description	Item Type	Catalogue No.	\$AU
Pushbutton Holder (Box of 10)		PBH01	180.00



PBH01

Replacement Trim Washer

Item Description	Item Type	Catalogue No.	\$AU
Trim Washer For D7R D7		D7-ATW1	3.95



D7-ATW1

Rotary Switch Centre Contact Actuator

Item Description	Item Type	Catalogue No.	\$AU
Rotary Switch Centre Contact Actuator	I	D7-ACP	31.00



D7-ACP



D7-AUB1

Sealing Caps

Item Description	Item Type	Catalogue No.	\$AU
Sealing Cap For Round Flush Operator		D7-AB7	20.00
Sealing Cap For Round Extended Operator		D7-ABE7	22.00
Sealing Cap IP66 for 3 Position Multifunction Button	I	D7-AUB1	40.00
Sealing Cap IP66 for 2 Position Multifunction Button		D7-AUB2	40.00



D7-ABJS

Silicon Boot for Joystick Operator

Item Description	Item Type	Catalogue No.	\$AU
Silicone Boot For D7 Joystick Operator	I	D7-ABJS	36.00




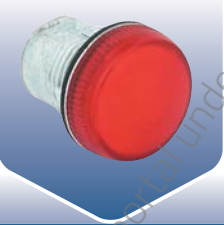



D7-AKR455



Spare Keys

Item Description	Item Type	Catalogue No.	\$AU
Key Set Code 455 (2 Keys)	I	D7-AKR455	35.00
Key Set 3801 Code 01R (2 Keys)		D7-AKR3801	40.00
Key Set 3801 Code 02R (2 Keys)	I	D7-AKR3802	40.00
Key Set Stand 3825 (2 Keys)		D7-AKR3825	40.00

Allen-Bradley 800F Pushbutton Selection Guide

22.5mm Pushbuttons					
					
Bulletin	800F	800F	800F	800F	800F
Description	Pushbuttons	Emergency Stops	Selector Switches	Pilot Lights	Enclosures
Features	<ul style="list-style-type: none"> Flush, extended, guarded, mushroom & jumbo mushroom, and legended versions Illuminated, non-illuminated 	<ul style="list-style-type: none"> Push-pull or twist-to-release – 2 positions Illuminated, non-illuminated, and keyed operators 	<ul style="list-style-type: none"> 2-, 3-, or 4-position Maintained or spring return Standard or lever knob Illuminated, non-illuminated, and keyed operators 	<ul style="list-style-type: none"> Standard diffuser Integrated LEDs and incandescent lamps Monolithic 	<ul style="list-style-type: none"> Plastic enclosures: 1...6 holes Metal enclosures: 1...5 holes Pendant stations: 1 & 2 holes Assembled stations
Mounting Hole Size	22.5mm	22.5mm	22.5mm	22.5mm	For use with Bulletin 800F 22.5mm
Mounting Method	Back of panel mounting ring	Back of panel mounting ring	Back of panel mounting ring	Back-of-panel mounting ring	Latch or base mounting
Material & Degree of Protection	<ul style="list-style-type: none"> 800FM: Metal, IP65/66 800FP: Plastic, IP65/66/69K 	<ul style="list-style-type: none"> 800FM: Metal, IP66 800FP: Plastic, IP65/66/69K 	<ul style="list-style-type: none"> 800FM: Metal, IP65/66 800FP: Plastic, IP65/66 	<ul style="list-style-type: none"> 800FM: Metal, Type 4/13, IP65/66 800FP: Plastic, Type 4/4X/13, IP65/66/69K 	<ul style="list-style-type: none"> Plastic Metal Grey or yellow Conduit openings PG11/16, M16/20
Max. Number of Circuits	<ul style="list-style-type: none"> Illum: 4 circuits Non-Illum: 6 circuits 	<ul style="list-style-type: none"> Illum: 4 circuits Non-Illum: 6 circuits 	<ul style="list-style-type: none"> Illum: 4 circuits Non-Illum: 6 circuits 	–	N/A
Operating Temperature Range	-25...+70 °C	-25...+70 °C	-25...+70 °C	-25...+70 °C	-25...+70 °C
Design Life	10M mechanical cycles	<ul style="list-style-type: none"> Twist-to-release and illuminated push-pull: 300k mechanical cycles Non-illuminated push-pull: 500k mechanical cycles 	1M mechanical cycles	Incandescent: 5...20k hrs. LED: 100k hrs.	N/A
Contact Block & Power Module Assembly	Field assembly	Field assembly	Field assembly	Field assembly	Field assembly
Standards	UR/UL/CSA/CE/CCC/ABS	UR/UL/CSA/CE/CCC/ABS	UR/UL/CSA/CE/CCC/ABS	UR/UL/CSA/CE/CCC/ABS	UR/UL/CSA/CE/CCC/ABS
Page	719	715	724	731	732

22.5mm Monolithic Pilot Lights, Pushbuttons and Selector Switches

				
800F	800FD	800FD	800FD	800FD
Contact Blocks	Monolithic Pilot Lights	Monolithic E-Stops	Monolithic Pushbuttons	Monolithic Selector Switches
<ul style="list-style-type: none"> Standard, low voltage, Self-Monitoring Colour coded plunger by circuit type Latch or base mount Screw or screwless terminals 	<ul style="list-style-type: none"> Optically enhanced lens style Available in six colours: amber, green, red, yellow, blue and clear Ring lug capability 	<ul style="list-style-type: none"> Push-pull and twist-to-release in one device Non-removable contacts promote safety in E-stop applications Arrows moulded on cap indicate direction of release Trigger action anti-tease feature Externally tamperproof 40mm mushroom cap Non-illuminated Ring lug capability 	<ul style="list-style-type: none"> Flush or extended Non-illuminated Ring lug capability 	<ul style="list-style-type: none"> 2- or 3-position Maintained or spring return Standard knob Non-illuminated Ring lug capability
For use with Bulletin 800F 22.5mm	22.5mm	22.5mm	22.5mm	22.5mm
3-across, snap-mounted on latch	Back-of-panel mounting ring	Back-of-panel mounting ring	Back-of-panel mounting ring	Back-of-panel mounting ring
Silver or gold contacts	Industrial grade thermoplastic	Industrial grade thermoplastic	Industrial grade thermoplastic	Industrial grade thermoplastic
<ul style="list-style-type: none"> Single circuit contact blocks: 3-across, 2 levels deep (6 circuits max.) Dual circuit contact blocks: 3-across, 1 level deep (6 circuits max.) 	–	–	2 000 000 cycles	300 000 cycles
–25...+70 °C	–	–	–	–
<ul style="list-style-type: none"> Standard: AC15, DC13, A600, Q600 Low voltage: AC15, DC13, C300, R150 	LED: 100 000 hrs. Incandescent: 5000...20 000 hrs.	300 000 cycles	2 000 000 cycles	300 000 cycles
N/A	–	–	–	–
UR/UL/CSA/CE/CCC/ABS	UL 508, EN 60947-1, EN 60947-5-1, and EN 60947-5-5 UL/CSA/CCC/CE	UL 508, EN 60947-1, EN 60947-5-1, and EN 60947-5-5 UL/CSA/CCC/CE	UL 508, EN 60947-1, EN 60947-5-1, and EN 60947-5-5 UL/CSA/CCC/CE	UL 508, EN 60947-1, EN 60947-5-1, and EN 60947-5-5 UL/CSA/CCC/CE
733	733	Contact NHP	Contact NHP	Contact NHP

J1102_0CHRT-502

Pushbuttons and Pilot Lights

Allen-Bradley 800F Pushbuttons and Pilot Lights

800F Emergency Stop Operators	Page 715
800F Pushbuttons	Page 719
800F Momentary Mushroom Head Pushbuttons (Components Only)	Page 722
800F Latching Mushroom Head Pushbuttons	Page 722
800F Reset Rod Operators	Page 722
800F Multifunction Momentary Pushbuttons	Page 723
800F Selector Switches	Page 724
800F Potentiometers	Page 730
800F Toggle Switch	Page 730
800F Pilot Lights	Page 731
800F Integrated Lamp Modules for use with Pilot Lights	Page 731
800F Pushbutton Stations	Page 732
800F Contact Blocks and Coupling Plates	Page 733
800F Monolithic Pushbuttons	Page 733
800F Accessories	Page 734

- The 800F range of 22.5mm operator control devices includes a diverse range of products making it suitable for use in a wide range of applications. Products in the range include pushbuttons, selector switches, pilot lights, emergency stop operators and more.
- Operators are available in both plastic (800FP) and metal (800FM) variants.

The Allen-Bradley range of 800F pushbuttons and operator devices offer's the user maximum flexibility in selecting the right operator for an application. The 800F 22.5mm range is not only aesthetically pleasing but is also designed to make assembly and interchangeability easy. Its modular design keeps the number of stocked parts to a minimum while still giving a range of solutions for your specific application requirements.

The operators are available in plastic and chrome metal and exhibit a low-profile stylish appearance. The range is tested to IP65 and IP66 ratings while select models (thermoplastic operators) are also tested to IP69K for demanding environments. The 800F range includes pushbuttons, pilot lights, selector switches, emergency stop operators, multi-function operators, control stations and more to support your requirements. The 800F range provides a reliable solution for your industrial application!



10

800F Emergency Stop Operators

The 800F range of emergency stop operators are available in 30, 40 and 60mm sizes in standard and keyed versions. The range includes items with IP 66 protection as well as certain items in the plastic operator material (800FP) with IP69K protection rating. Choose from a range of contact blocks including 'auto-break' safety contacts

800F Complete Emergency Stop Operators

ØOperator (mm)	Contacts	Operator (action)	Material (operator)	IP Rating	Item Type	Catalogue No.	\$AU
40	1 NC	Twist to Release	Plastic	IP65;IP66;IP69K		800FP-MT44PX01	107.65
40	1 NO + 1 SMCB	Twist to Release	Plastic	IP65;IP66;IP69K		800FP-MT44PX11S	152.53
40	1 NC, SMCB	Twist to Release	Plastic	IP65;IP66;IP69K		800FP-MT44PX01S	130.08
40	1 NC	Twist to Release	Metal	IP65;IP66		800FM-MT44MX01	119.91
40	1 NC, SMCB	Twist to Release	Metal	IP65;IP66		800FM-MT44MX01S	142.55



800FP-MT44PX01

800F Emergency Stop Operators (Components Only)

Product Selection



J1101D01_dSELN-S01

- 1 Select body
- 2 Select coupling plate
- 3 Select contact block and/or lamp module



800FP-MT34

Plastic Body - Non-Illuminated

ØOperator (mm)	Operator (action)	Key (Y/N (removal))	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
30	Twist to Release	No	No	IP65;IP66;IP69K		800FP-MT34	69.82
40	Twist to Release	No	No	IP65;IP66;IP69K		800FP-MT44	75.35
60	Twist to Release	No	No	IP65;IP66;IP69K	I	800FP-MT64	86.70

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D01_dCHRT-502

Plastic Body - Illuminated



800FP-LMT44

ØOperator (mm)	Operator (action)	Key (Y/N (removal))	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
40	Twist to Release	No	Yes	IP65;IP66;IP69K		800FP-LMT44	117.96

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D01_dCHRT-S02

Plastic Body - Keyed

ØOperator (mm)	Operator (action)	Key (Y/N (removal))	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
40	Key to Release	Yes	No	IP65;IP66		800FP-MK44	175.39



800FP-MK44

10

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D01_dCHRT-S02



800FM-MT44

Metal Body - Non-Illuminated

ØOperator (mm)	Operator (action)	Key (Y/N (removal))	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
40	Twist to Release	No	No	IP65;IP66		800FM-MT44	84.50

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D01_dCHRT-S02

Metal Body - Illuminated

ØOperator (mm)	Operator (action)	Key (Y/N (removal))	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
40	Push / Pull to Release	No	Yes	IP65;IP66		800FM-LMP44	127.48
40	Twist to Release	No	Yes	IP65;IP66	I	800FM-LMT44	127.48

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D01_dCHRT-S02

800F Enclosed Emergency Stop Stations

Housing (material)	Housing (colour)	ØOperator (mm)	Contacts	Operator (action)	Item Type	Catalogue No.	\$AU
Polycarbonate & PBT Blend	Yellow	40	1 NC	Twist to Release		800F-1YM1	199.39
Polycarbonate & PBT Blend	Yellow	40	2 NC	Twist to Release		800F-1YM3	220.62



800F-1YM1

800F Pushbuttons

Select flush pushbuttons with plastic body also have the IP69K rating however, it must be used together with a 800F-AB7 protective boot to maintain this rating.

800F Complete Momentary Pushbuttons

Complete Flush Non-Illuminated Pushbuttons

Operator (material)	Operator (colour)	Contacts	Text (operator)	IP Rating	Item Type	Catalogue No.	\$AU
TP (Thermoplastic)	Black	1 NO		IP65;IP66;IP69K		800FP-F2PX10	49.13
TP (Thermoplastic)	Green	1 NO		IP65;IP66;IP69K		800FP-F3PX10	49.13
TP (Thermoplastic)	Green	1 NO	START	IP65;IP66;IP69K		800FP-F301PX10	54.78



800FP-F2PX10

Complete Extended Pushbuttons

Operator (material)	Operator (colour)	Contacts	Text (operator)	IP Rating	Item Type	Catalogue No.	\$AU
TP (Thermoplastic)	Red	1 NC		IP65;IP66;IP69K		800FP-E4PX01	54.73
TP (Thermoplastic)	Red	1 NC	STOP	IP65;IP66;IP69K		800FP-E402PX01	60.37

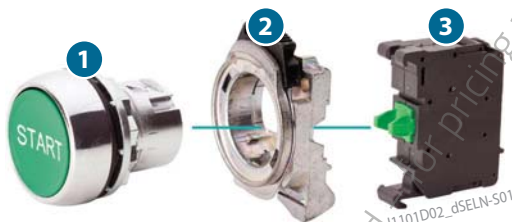


800FP-E402PX01

800F Flush Momentary Pushbuttons (Components Only)

To obtain IP69K rating the pushbutton must be used together with a 800F-AB7 protective boot

Product Selection



- 1 Select body
- 2 Select coupling plate
- 3 Select contact block and/or lamp module

Plastic Body

Operator (colour)	Text (operator)	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
White		No	IP65;IP66;IP69K		800FP-F1	16.85
Black		No	IP65;IP66;IP69K		800FP-F2	16.85
Green		No	IP65;IP66;IP69K		800FP-F3	16.85
Red		No	IP65;IP66;IP69K		800FP-F4	16.85
Yellow		No	IP65;IP66;IP69K		800FP-F5	16.85
Blue		No	IP65;IP66;IP69K		800FP-F6	16.85
Black	→	No	IP65;IP66;IP69K	I	800FP-F208	22.49
Green	START	No	IP65;IP66;IP69K		800FP-F301	22.49
Red		No	IP65;IP66;IP69K		800FP-F402	22.49
Blue	R	No	IP65;IP66;IP69K	I	800FP-F611	22.49
Green		Yes	IP65;IP66;IP69K		800FP-LF3	31.75
Red		Yes	IP65;IP66;IP69K		800FP-LF4	31.75
Yellow		Yes	IP65;IP66;IP69K		800FP-LF5	31.75
Blue		Yes	IP65;IP66;IP69K		800FP-LF6	31.75
Clear / Transparent		Yes	IP65;IP66;IP69K		800FP-LF7	31.75



800FP-F4



800FM-LF4

Metal Body

Operator (colour)	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Black	No	IP65;IP66		800FM-F2	20.20
Green	No	IP65;IP66		800FM-F3	20.20
Red	No	IP65;IP66		800FM-F4	20.20
Yellow	No	IP65;IP66		800FM-F5	20.20
Blue	No	IP65;IP66		800FM-F6	20.20
Green	Yes	IP65;IP66		800FM-LF3	35.40
Red	Yes	IP65;IP66		800FM-LF4	35.40
Yellow	Yes	IP65;IP66		800FM-LF5	35.40
Blue	Yes	IP65;IP66		800FM-LF6	35.40
Clear / Transparent	Yes	IP65;IP66		800FM-LF7	35.40

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NO	No	No			800F-X10
1 NC	No	No			800F-BX01
1 NO	No	No			800F-BX10
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NO	No	Yes	Plastic (800F-ALP)		800F-PX10
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01
1 NO	No	Yes	Metal (800F-ALM)		800F-MX10
1 NO + 1 NC	No	Yes	Plastic (800F-ALP)		800F-PX11
1 NO + 1 NC	No	Yes	Metal (800F-ALM)		800F-MX11

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D02_dCHRT-502

800F Extended Momentary Pushbuttons (Components Only)

Select pushbuttons with plastic body also have the IP69K rating however, it must be used together with a 800F-ABE7 protective boot to maintain this rating.

Product Selection



- 1 Select body
- 2 Select coupling plate
- 3 Select contact block and/or lamp module

Plastic Body

Operator (colour)	Text (operator)	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Black		No	IP65;IP66;IP69K	I	800FP-E2	22.43
Green		No	IP65;IP66;IP69K		800FP-E3	22.43
Red		No	IP65;IP66;IP69K		800FP-E4	22.43
Yellow		No	IP65;IP66;IP69K	I	800FP-E5	22.43
Blue		No	IP65;IP66;IP69K	I	800FP-E6	22.43
Black	O	No	IP65;IP66;IP69K	I	800FP-E205	28.07
Red	STOP	No	IP65;IP66;IP69K		800FP-E402	28.07
Red		No	IP65;IP66;IP69K	I	800FP-E405	28.07
Green		Yes	IP65;IP66;IP69K		800FP-LE3	37.55
Red		Yes	IP65;IP66;IP69K		800FP-LE4	37.55
Yellow		Yes	IP65;IP66;IP69K	I	800FP-LE5	37.55
Blue		Yes	IP65;IP66;IP69K	I	800FP-LE6	37.55



800FP-E402

Metal Body

Operator (colour)	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Green	Yes	IP65;IP66		800FM-LE3	41.26
Red	Yes	IP65;IP66		800FM-LE4	41.26
Yellow	Yes	IP65;IP66	I	800FM-LE5	41.26
Blue	Yes	IP65;IP66	I	800FM-LE6	41.26



800FM-LE3

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NO	No	No			800F-X10
1 NC	No	No			800F-BX01
1 NO	No	No			800F-BX10
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NO	No	Yes	Plastic (800F-ALP)		800F-PX10
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01
1 NO	No	Yes	Metal (800F-ALM)		800F-MX10
1 NO + 1 NC	No	Yes	Plastic (800F-ALP)		800F-PX11
1 NO + 1 NC	No	Yes	Metal (800F-ALM)		800F-MX11

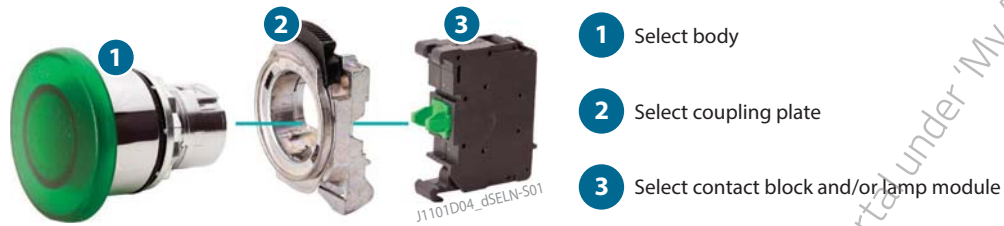
Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D02_dCHRT-S04

800F Momentary Mushroom Head Pushbuttons (Components Only)

Product Selection



Plastic Body, Non-Illuminated



800FP-MM42

ØOperator (mm)	Operator (colour)	IP	Item Type	Catalogue No.	\$AU
40	Black	IP65;IP66;IP69K		800FP-MM42	38.08
40	Green	IP65;IP66;IP69K		800FP-MM43	38.08
40	Red	IP65;IP66;IP69K	I	800FP-MM44	38.08

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NO	No	No			800F-X10
1 NC	No	No			800F-BX01
1 NO	No	No			800F-BX10
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NO	No	Yes	Plastic(800F-ALP)		800F-PX10
1 NC	No	Yes	Metal(800F-ALM)		800F-MX01
1 NO	No	Yes	Metal (800F-ALM)		800F-MX10
1 NO + 1 NC	No	Yes	Plastic(800F-ALP)		800F-PX11
1 NO + 1 NC	No	Yes	Metal(800F-ALM)		800F-MX11

J1102D04_dCHRT-S02

800F Latching Mushroom Head Pushbuttons

Plastic Body, Non-Illuminated

Tested to IP69K rating.



800FP-MP42

ØOperator (mm)	Operator (colour)	Item Type	Catalogue No.	\$AU
40	Black		800FP-MP42	75.35
40	Yellow		800FP-MP45	75.35

800F Reset Rod Operators

Plastic Body




800FP-R611

Operator (colour)	Text (colour)	Text	Item Type	Catalogue No.	\$AU
Blue	White	R		800FP-R611	30.84


800F Multifunction Momentary Pushbuttons

Multi-function Momentary Pushbuttons (Components Only)
Product Selection


1



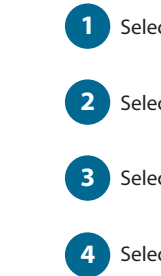
2



3



4



1

 Select body

2

 Select colour caps

3

 Select coupling plate

4

 Select contact block and/or lamp module

Plastic Body

Material (operator / bezel)	Colours (top-centre-bot- tom)	Text (top-bottom)	Illuminated (Y / N)	IP	Item Type	Catalogue No.	\$AU
Polycarbonate & PBT Blend / Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)	Green- White -Red	START - STOP	Yes	IP65;IP66;IP69K	I	800FP-LU2FBFA	56.14

Colour Caps for Flush Multifunction Pushbuttons

Other options available, contact NHP for more information.

Colour (cap)	Colour (text)	Text	Item Type	Catalogue No.
White				800F-AFU1
Black				800F-AFU2
Green				800F-AFU3
Red				800F-AFU4
Green	White	DOWN	I	800F-AFAU3CE110
Green	White	START	I	800F-AFCU3CE208
Green	White	UP	I	800F-AFCU3CE223
Green	White	↑	I	800F-AFCU3CU712
Green	White	I		800F-AFCU3CU909

Colour Caps for Extended Multifunction Pushbuttons

Other options available, contact NHP for more information.

Colour (cap)	Colour (text)	Text	Item Type	Catalogue No.
Red				800F-AEU4
Red	White	STOP		800F-AEAU4CE212
Red	White	O		800F-AEAU4CU910

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NO	No	No			800F-X10
1 NC	No	No			800F-BX01
1 NO	No	No			800F-BX10
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NO	No	Yes	Plastic (800F-ALP)		800F-PX10
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01
1 NO	No	Yes	Metal (800F-ALM)		800F-MX10
1 NO + 1 NC	No	Yes	Plastic (800F-ALP)		800F-PX11
1 NO + 1 NC	No	Yes	Metal (800F-ALM)		800F-MX11

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D06_dCHRT-S02

800F Selector Switches

Selector Switches (Fully Assembled Units)

Plastic Body

Type & Positions (0°=vertical)	Contacts	Key (Y/N (removal))	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Selector Switch, Knob, 2-Position (30°, -30°)	1 NO	No	Latched / Maintained	Latched / Maintained		800FP-SM22PX10	63.30
Selector Switch, Knob, 3-Position (0°, 60°, -60°)	2 NO	No	Latched / Maintained	Latched / Maintained		800FP-SM32PX20	85.73



800FP-SM22PX10

Metal Body

Type & Positions (0°=vertical)	Contacts	Key (Y/N (removal))	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Selector Switch, Knob, 2-Position (30°, -30°)	2 NO	No	Latched / Main- tained	Latched / Main- tained		800FM-SM22MX10	69.46



800FM-SM22MX10

Short Lever Type, 2-Position Selector Switch (Components Only)

Product Selection



- 1 Select body
- 2 Select coupling plate
- 3 Select contact block and/or lamp module

Plastic Body, Non-Illuminated

Operator (colour)	Operator (positions)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	30°, -30°	Latched / Maintained	Latched / Maintained		800FP-SM22	31.00



800FP-SM22

Plastic Body, Illuminated

Operator (colour)	Operator (positions)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Green	30°, -30°	Latched / Maintained	Latched / Maintained		800FP-LSM23	36.54
Red	30°, -30°	Latched / Maintained	Latched / Maintained		800FP-LSM24	36.54
Yellow	30°, -30°	Latched / Maintained	Latched / Maintained		800FP-LSM25	36.54



800FP-LSM25

Metal Body, Non-Illuminated

Operator (colour)	Operator (positions)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	30°, -30°	Latched / Maintained	Latched / Maintained		800FM-SM22	34.35

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NO	No	No			800F-X10
1 NC	No	No			800F-BX01
1 NO	No	No			800F-BX10
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NO	No	Yes	Plastic (800F-ALP)		800F-PX10
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01
1 NO	No	Yes	Metal (800F-ALM)		800F-MX10
1 NO + 1 NC	No	Yes	Plastic (800F-ALP)		800F-PX11
1 NO + 1 NC	No	Yes	Metal (800F-ALM)		800F-MX11

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D07.02_dCHRT-S02

Metal Body, Illuminated

Operator (colour)	Operator (positions)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Green	30°, -30°	Latched / Maintained	Latched / Maintained		800FM-LSM23	39.21



800FM-LSM23

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NO	No	No			800F-X10
1 NC	No	No			800F-BX01
1 NO	No	No			800F-PX10
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NO	No	Yes	Plastic (800F-ALP)		800F-PX10
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01
1 NO	No	Yes	Metal (800F-ALM)		800F-MX10
1 NO + 1 NC	No	Yes	Plastic (800F-ALP)		800F-PX11
1 NO + 1 NC	No	Yes	Metal (800F-ALM)		800F-MX11

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D07.02_dCHRT-S02

Short Lever Type, 3-Position Selector Switch (Components Only)

Plastic Body, Non-Illuminated

Operator (colour)	Operator (positions)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	0°, 60°, -60°	Spring Return from Left	Spring Return from Right		800FP-SB32	31.00
Black	0°, 60°, -60°	Latched / Maintained	Latched / Maintained		800FP-SM32	31.00



800FP-SM32

Metal Body, Non-Illuminated

Operator (colour)	Operator (positions)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	0°, 60°, -60°	Spring Return from Left	Spring Return from Right		800FM-SB32	34.35
Black	0°, 60°, -60°	Latched / Maintained	Latched / Maintained		800FM-SM32	34.35
Black	0°, 60°, -60°	Latched / Maintained	Spring Return from Right		800FM-SR32	34.35

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NO	No	No			800F-X10
1 NC	No	No			800F-BX01
1 NO	No	No			800F-BX10
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NO	No	Yes	Plastic (800F-ALP)		800F-PX10
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01
1 NO	No	Yes	Metal (800F-ALM)		800F-MX10
1 NO + 1 NC	No	Yes	Plastic (800F-ALP)		800F-PX11
1 NO + 1 NC	No	Yes	Metal (800F-ALM)		800F-MX11

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D07.02_dCHRT-S02

Metal Body, Illuminated

Operator (colour)	Operator (positions)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Green	0°, 60°, -60°	Spring Return from Left	Spring Return from Right		800FM-LSB33	39.21
Green	0°, 60°, -60°	Latched / Maintained	Latched / Maintained		800FM-LSM33	39.21
Green	0°, 60°, -60°	Latched / Maintained	Spring Return from Right		800FM-LSR33	39.21



800FM-LSM33

Long Lever Type, 2-Position Selector Switch (Components Only)

Product Selection



- 1 Select body
- 2 Select coupling plate
- 3 Select contact block

Metal Body

Operator (colour)	Operator (positions)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	30°, -30°	Latched / Maintained	Latched / Maintained	I	800FM-HM22	48.21

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NO	No	No			800F-X10
1 NC	No	No			800F-BX01
1 NO	No	No			800F-BX10
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NO	No	Yes	Plastic (800F-ALP)		800F-PX10
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01
1 NO	No	Yes	Metal (800F-ALM)		800F-MX10
1 NO + 1 NC	No	Yes	Plastic (800F-ALP)		800F-PX11
1 NO + 1 NC	No	Yes	Metal (800F-ALM)		800F-MX11

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D07.02_dCHRT-S02

Long Lever, 3-Position Selector Switch (Components Only)

Metal Body

Operator (colour)	Operator (positions)	Operator Action (left)	Operator Action (right)	Item Type	Catalogue No.	\$AU
Black	0°, 60°, -60°	Spring Return from Left	Spring Return from Right	I	800FM-HB32	48.21

2-Position, Keyed Selector Switches (Components Only)

Plastic Body

Operator (positions)	Key Removal (positions)	Operator Action (left)	Operator Action (right)	Key Code	Item Type	Catalogue No.	\$AU
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3825 (standard)		800FP-KM21	90.00
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3825 (standard)	I	800FP-KM21PX11	144.73



800FP-KM21

Metal Body

Operator (positions)	Key Removal (positions)	Operator Action (left)	Operator Action (right)	Key Code	Item Type	Catalogue No.	\$AU
30°, -30°	Left	Latched / Maintained	Latched / Maintained	3825 (standard)		800FM-KM21	93.35
30°, -30°	Left / Right	Latched / Maintained	Latched / Maintained	3825 (standard)	I	800FM-KM23	93.35



800FM-KM21

Coupling Plates

Item Description	Item Type	Catalogue No.
Coupling Plate Plastic		800F-ALP
Coupling Plate Metal		800F-ALM

Standard Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.
1 NC	No	No			800F-X01
1 NO	No	No			800F-X10
1 NC	No	No			800F-BX01
1 NO	No	No			800F-BX10
1 NC	No	Yes	Plastic (800F-ALP)		800F-PX01
1 NO	No	Yes	Plastic (800F-ALP)		800F-PX10
1 NC	No	Yes	Metal (800F-ALM)		800F-MX01
1 NO	No	Yes	Metal (800F-ALM)		800F-MX10
1 NO + 1 NC	No	Yes	Plastic (800F-ALP)		800F-PX11
1 NO + 1 NC	No	Yes	Metal (800F-ALM)		800F-MX11

Integrated LED Modules

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.
White	20 - 132	20 - 132		800F-NUW
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R
White	10 - 29 (24)	10 - 30 (24)		800F-N3W
White	102 - 132 (120)	-		800F-N5W
Green	204 - 264 (240)	-		800F-N7G
Red	204 - 264 (240)	-		800F-N7R
White	204 - 264 (240)	-		800F-N7W

J1102D07.02_dCHRT-S02

800F Potentiometers

Potentiometer Operators and Complete Potentiometers

Item Description	Item Type	Catalogue No.	\$AU
Potentiometer 22.5mm 150Ω Resistive Element	I	800FP-POT1	284.35
Potentiometer 22.5mm 500Ω Resistive Element	I	800FP-POT2	284.35
Potentiometer 22.5mm 1kΩ Resistive Element	I	800FP-POT3	284.35
Potentiometer 22.5mm 2.5kΩ Resistive Element		800FP-POT4	284.35
Potentiometer 22.5mm 5kΩ Resistive Element		800FP-POT5	284.35
Potentiometer 22.5mm 10kΩ Resistive Element		800FP-POT6	284.35

800F Toggle Switch

Metal Body - Spring Return

#Positions	Operator (action)	Item Type	Catalogue No.	\$AU
2	Spring Return		800FM-JR2	229.91
4	Spring Return		800FM-JR4	229.91



800FP-POT2



800FM-JR2

800F Pilot Lights

800F Pilot Lights (Fully Assembled Units)

24V AC/DC

Housing (material)	Lens (colour)	Lamp (type)	Lamp (colour)	IP Rating	Item Type	Catalogue No.	\$AU
Polycarbonate & PBT Blend	Green	LED	Green	IP66;IP69K		800FP-P3PN3G	88.38
Polycarbonate & PBT Blend	Red	LED	Red	IP66;IP69K		800FP-P4PN3R	88.38
Polycarbonate & PBT Blend	Blue	LED	White	IP66;IP69K		800FP-P6PN3W	88.38
Polycarbonate & PBT Blend	Clear / Transparent	LED	White	IP66;IP69K		800FP-P7PN3W	88.38



800FP-P7PN3W

800F Pilot Light (Components Only)

Product Selection



- 1 Select body
- 2 Select coupling plate
- 3 Select lamp module

Plastic Body

Lens (colour)	IP	Item Type	Catalogue No.	\$AU
Amber	IP66;IP69K		800FP-P0	13.74
Green	IP66;IP69K		800FP-P3	13.74
Red	IP66;IP69K		800FP-P4	13.74
Yellow	IP66;IP69K		800FP-P5	13.74
Blue	IP66;IP69K		800FP-P6	13.74
Clear / Transparent	IP66;IP69K		800FP-P7	13.74



800FP-P5

Metal Body

Lens (colour)	IP	Item Type	Catalogue No.	\$AU
Green	IP66		800FM-P3	17.09
Red	IP66		800FM-P4	17.09
Yellow	IP66		800FM-P5	17.09



800FM-P5

800F Integrated Lamp Modules for use with Pilot Lights

Integrated LED Modules, 24-120V AC/DC

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.	\$AU
Green	20 - 132	20 - 132		800F-NUG	71.58
Red	20 - 132	20 - 132		800F-NUR	71.58
White	20 - 132	20 - 132		800F-NUW	71.58

Integrated LED Modules, 24V AC/DC

Lamp (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Item Type	Catalogue No.	\$AU
White	10 - 29 (24)	10 - 30 (24)		800F-BN3W	64.78
Green	10 - 29 (24)	10 - 30 (24)		800F-N3G	64.78
Red	10 - 29 (24)	10 - 30 (24)		800F-N3R	64.78
White	10 - 29 (24)	10 - 30 (24)		800F-N3W	64.78
Red	10 - 29 (24)	10 - 30 (24)		800F-PN3R	74.64



800F-N3R



800F-N5W

Integrated LED Modules, 120V AC

Lamp (colour)	Un (V AC min-max (nom))	Item Type	Catalogue No.	\$AU
White	102 - 132 (120)		800F-N5W	64.78



800F-N7W

Integrated LED Modules, 240V AC

Lamp (colour)	Un (V AC min-max (nom))	Item Type	Catalogue No.	\$AU
Green	204 - 264 (240)		800F-N7G	64.78
White	204 - 264 (240)		800F-N7W	64.78



800F-D0C

Full Voltage Lamp Module (Less Ba9s Lamp)

Lamp Hldr	U _{max} (V AC)	Pwr Max (W)	Item Type	Catalogue No.	\$AU
Ba9s	250	2		800F-D0C	53.39

800F Pushbutton Stations

800F Empty Enclosures

Grey Plastic



800F-2PM

Operator (cutouts)	Conduit (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	1 x M20	85	89	58		800F-1PM	61.34
2 x 22.5mm	1 x M20	124	79	58		800F-2PM	83.35
3 x 22.5mm	1 x M20	155	79	58		800F-3PM	105.20
4 x 22.5mm	1 x M20	186	79	58		800F-4PM	127.52

Yellow Plastic



800F-1YM

Operator (cutouts)	Conduit (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	1 x M20	85	89	58		800F-1YM	61.34

Grey Aluminium



800F-3MM

Operator (cutouts)	Conduit (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	1 x M20	99	85	80.5	I	800F-1MM	216.83
3 x 22.5mm	1 x M20	174	85	80.5	I	800F-3MM	293.91

Yellow Aluminium



800F-1MYM

Operator (cutouts)	Conduit (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 22.5mm	1 x M20	99	85	80.5		800F-1MYM	216.83

800F Contact Blocks and Coupling Plates

Coupling Plates

Item Description	Item Type	Catalogue No.	\$AU
Coupling Plate Plastic Fits 3 Contact Blocks Across		800F-ALP	9.85
Coupling Plate Metal Fits 3 Contact Blocks Across		800F-ALM	12.66



800F-ALM

Standard Panel Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Material (plate)	Item Type	Catalogue No.	\$AU
1 NC	No	No	Plastic		800F-X01	22.43
1 NCEB	No	No	Plastic		800F-X01B	22.43
1 NO	No	No	Plastic		800F-X10	22.43
1 NOEM	No	No	Plastic		800F-X10E	22.43
1 NOEEM	No	No	Plastic		800F-X10M	22.72
1 NOLM	No	No	Plastic		800F-X10N	22.72
1 NC	No	Yes	Plastic		800F-PX01	32.29
1 NO	No	Yes	Plastic		800F-PX10	32.29
1 NC	Yes	No	Plastic		800F-X01S	44.88
1 NO + 1 NC EB 1st Contact	No	Yes	Plastic		800F-PX11	54.73



800F-X10E

Standard Base / DIN Mount Contact Blocks

Contacts	Self Monitoring (Y / N)	Coupling Plate Included (Y / N)	Item Type	Catalogue No.	\$AU
1 NC	No	No		800F-BX01	22.43
1 NO	No	No		800F-BX10	22.43



800F-BX01

Low Voltage (Gold Contact) Terminal Blocks

Mounting	Contacts	Self Monitoring (Y / N)	Item Type	Catalogue No.	\$AU
22.5mm Mounting	1 NC	No		800F-X01V	36.50
22.5mm Mounting	1 NO	No		800F-X10V	36.50



800F-X10V

800F Monolithic Pushbuttons

The 800F range of monolithic operators are all in one with no requirement to purchase an operator head, coupling plate, contact/LED modules separately. Choose from a range of pushbuttons (flush, extended cap), pilot lights, selector switches, emergency stop operators and more!

800F Monolithic Pilot Lights

Monolithic LED Pilot Lights

Lens (colour)	Lamp Included (Y/N (type))	Lamp (colour)	Un (V AC nom)	Un (V DC nom)	Item Type	Catalogue No.	\$AU
Green	Yes	Green	24	24		800FD-P3N3	55.18
Green	Yes	Green	120	120	I	800FD-P3N5	55.18
Red	Yes	Red	24	24		800FD-P4N3	55.18
Red	Yes	Red	120	120	I	800FD-P4N5	55.18
Red	Yes	Red	240	240	I	800FD-P4N7	55.18
Yellow	Yes	Yellow	24	24	I	800FD-P5N3	55.18
Yellow	Yes	Yellow	120	120	I	800FD-P5N5	55.18
Blue	Yes	Blue	24	24	I	800FD-P6N3	55.18
Blue	Yes	Blue	120	120	I	800FD-P6N5	55.18
Clear / Transparent	Yes	Clear / Transparent	24	24	I	800FD-P7N3	55.18
Clear / Transparent	Yes	Clear / Transparent	120	120	I	800FD-P7N5	55.18



800FD-P3N5



800FD-P3D3

Monolithic Incandescent Pilot Lights

Lens (colour)	Lamp Included (Y/N (type))	Lamp (colour)	Un (V AC nom)	Un (V DC nom)	Item Type	Catalogue No.	\$AU
Green	Yes	Green	24	24	I	800FD-P3D3	55.18

800F Accessories

Colour Caps

Flush Pushbuttons



800F-AF301

Colour	Text (colour)	Text	Item Type	Catalogue No.	\$AU
White	Black	↓	I	800F-AF108	6.98
White	Black	FORWARD	I	800F-AF109	6.98
White	Black	REVERSE	I	800F-AF110	6.98
Green		START	I	800F-AF301	6.98
Red		STOP	I	800F-AF402	6.98
Red		O	I	800F-AF405	6.98
Blue		RESET	I	800F-AF611	6.98

Extended Pushbuttons



800F-AE402

Colour	Text (colour)	Text	Item Type	Catalogue No.	\$AU
White	White	↓	I	800F-AE108	6.98
Red	White	STOP	I	800F-AE402	6.98
Blue	White	RESET	I	800F-AE611	6.98

One-Piece Legend Plates

Emergency Stop Rings



800F-15YE112

Item Description	Legend (colour)	Text (colour)	Text	Mounting	Item Type	Catalogue No.	\$AU
Legend "Emergency Stop" 60mm	Yellow	Black	EMERGENCY STOP	30.5mm Mounting		800F-15YE112	5.90
Legend "Emergency Stop" 22.5mm	Yellow	Black	EMERGENCY STOP	22.5mm Mounting		800F-15YSE112	5.90
Legend "Emergency Stop" 90mm	Yellow	Black	EMERGENCY STOP	22.5mm Mounting		800F-16YE112	14.71

30 x 40mm, Blank



800F-34BE100

LegndPlate	Legend (colour)	Text (colour)	To Suit (operators)	Item Type	Catalogue No.	\$AU
Plastic	Black	White	Standard 22.5mm Operators	I	800F-34BE100	5.64

30 x 50mm, Blank



800F-35BE100

LegndPlate	Legend (colour)	Text (colour)	To Suit (operators)	Item Type	Catalogue No.	\$AU
Aluminium		Black	Standard 22.5mm operators	I	800F-35AE100	5.64
Plastic	Black	White	Standard 22.5mm operators	I	800F-35BE100	5.64
Plastic	White	Black	Standard 22.5mm operators	I	800F-35WE100	5.64

Two-Piece Snap-in Legend Plates and Frames

Frames

Frame	Frame (mm, H x W x D)	Legend Plate (mm, H x W)	To Suit (operators)	Item Type	Catalogue No.	\$AU
Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)	49.2 x 29.7 x 6.1	18.7 x 29.8	Standard 22.5mm operators		800F-120	3.35



800F-120

Frame and Legend Plate Packages

Frame	Frame (mm, H x W x D)	Legend Plate (mm, H x W)	Legend (colour)	Text (colour)	To Suit (operators)	Item Type	Catalogue No.	\$AU
Glass-Filled Nylon / PA6 / PA66 (Polyamide 6)	49.2 x 29.8 x 6.2	18.7 x 29.8	White	Black	Standard 22.5mm operators		800F-12WE100	5.64



800F-12WE100

Fixing Ring Tool

Item Description	Item Type	Catalogue No.	\$AU
Fixing Ring Tool	I	800F-AW2	14.07



800F-AW2

Hole Plugs

Item Description	Item Type	Catalogue No.	\$AU
Hole Plug 22.5mm Plastic Black		800F-N2	10.10
Hole Plug 22.5mm Plastic Grey		800F-N8	10.10



800F-N2

Mounting Hole Adapter

Item Description	Item Type	Catalogue No.	\$AU
Mounting Hole Adapter 30.5mm To 22.5mm		800F-AHA1	33.50



800F-AHA1

Padlock Attachment for Pushbuttons

Item Description	Item Type	Catalogue No.	\$AU
Padlock Attachment For 40mm E-Stop Operators		800F-AML2	88.48



800F-AML2

Padlockable Cover

Item Description	Item Type	Catalogue No.	\$AU
Padlockable Cover For Flush/Ext/Guard/Latch/Sel/Pot 800F		800F-AL01	88.48



800F-AL01



800F-AMRG

Protective Guards

Item Description	Item Type	Catalogue No.	\$AU
Protective Yellow Guard For Emergency Stop Operators 85mm		800F-A6PR5	25.21
GUARD NARROW PLASTIC YELLOW	I	800F-AMEGY	25.21
Ring Protective Metal For 40mm Mush Operators		800F-AMRG	73.10



800F-ABE7

Sealing Caps

Item Description	Item Type	Catalogue No.	\$AU
Sealing Cap For Flush Pushbuttons		800F-AB7	21.12
Sealing Cap For Extended Pushbuttons		800F-ABE7	21.12
Sealing Cap Ip66 For 2 Position Multi-FuNction Operators		800F-AUB2	27.99



800F-AKR3825

Spare Keys

Item Description	Item Type	Catalogue No.	\$AU
Key Set 3825 Standard (2 Keys)	I	800F-AKR3825	25.21

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Pushbuttons and Pilot Lights

Austrol N100 Pushbuttons

Complete N100 Panel Mounted 30.5mm Standard Units	Page 738
FT/NT Complete Pushbutton Stations	Page 739
Heavy Duty Pushbuttons Stations Type HPD	Page 739
Empty Enclosures to suit N100 Operators	Page 739
Special Pushbuttons Type HD	Page 741
N100 Pushbutton Components for Self-Assembly	Page 741
N100 Pilot Light Components for Self-Assembly	Page 743
N100 Accessories and Spare Parts	Page 743
Engraved Inserts and Legend Plates to suit N100	Page 744
DRN Foot / Palm Operators	Page 744
Spare Lamps	Page 744

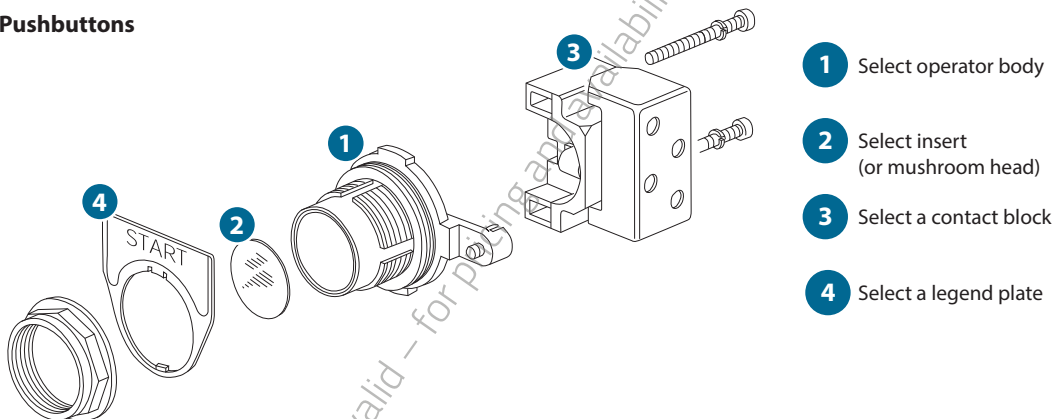
- Engineered and manufactured in Australia, the N100 30.5mm range of heavy duty control elements are made to meet the harshest operating environments.
- Customisable and modular the N100 range includes pushbuttons, pilot lights, selector switches, estops and more, with a wide range of accessories to ensure a complete selection for your installation.
- Self-wiping contacts with a unique rolling action ensures every operation removes any dust or non-conductive film and prolongs the life of your components.

The N100 is the logical choice for heavy duty control equipment that is purely designed and manufactured to standup to Harsh Australian conditions. The ability to withstand extreme temperature changes and cope with harsh environments are one of the unique problems end users have to take into account when selecting control equipment to be used in Australian industry. Whether it is the dust and heat of the mines in Kalgoorlie or the cooler conditions of our eastern states, customers demand dependable long life and durability from their control equipment.

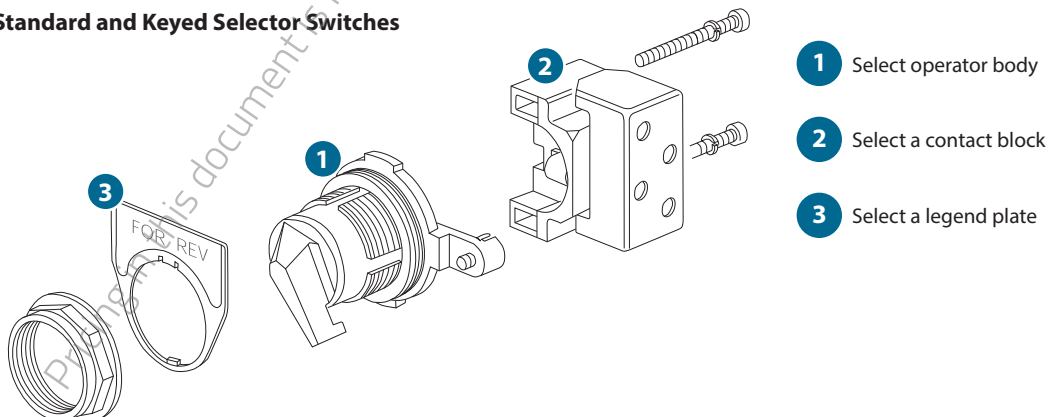


Product Selection

Pushbuttons



Standard and Keyed Selector Switches



J1104D_dSELN-501

Complete N100 Panel Mounted 30.5mm Standard Units

Complete Pushbutton with Insert and Contact Block



NTOCGNPAK

Operator (type)	Colour (operator)	Illuminated (Y / N)	Un (V AC / V DC)	Contacts	Item Type	Catalogue No.	\$AU
Pushbutton, Guarded (Ø27mm)	Blue	No	415V AC / 240V DC	1 NO + 1 NC EB 1st Contact	K	NTOCBNPAK	183.00
Pushbutton, Guarded (Ø27mm)	Green	No	415V AC / 240V DC	1 NO + 1 NC EB 1st Contact	K	NTOCGNPAK	183.00
Pushbutton, Guarded (Ø27mm)	Red	No	415V AC / 240V DC	1 NO + 1 NC EB 1st Contact	K	NTOCRNPAK	183.00
Pushbutton, Extended (Ø27mm)	Blue	No	415V AC / 240V DC	1 NO + 1 NC EB 1st Contact	K	NT10CBNPAK	188.00
Pushbutton, Extended (Ø24mm)	Green	No	415V AC / 240V DC	1 NO + 1 NC EB 1st Contact	K	NT10CGNPAK	188.00
Pushbutton, Extended (Ø24mm)	Red	No	415V AC / 240V DC	1 NO + 1 NC EB 1st Contact	K	NT10CRNPAK	188.00
Pushbutton, Mushroom (Ø38mm)	Black	No	415V AC / 240V DC	1 NO + 1 NC EB 1st Contact	K	NT20CBNPAK	233.00
Pushbutton, Mushroom (Ø38mm)	Green	No	415V AC / 240V DC	1 NO + 1 NC EB 1st Contact	K	NT20CGNPAK	233.00
Pushbutton, Mushroom (Ø38mm)	Red	No	415V AC / 240V DC	1 NO + 1 NC EB 1st Contact	K	NT20CRNPAK	233.00
Pushbutton, Mushroom (Ø57mm)	Green	No	415V AC / 240V DC	1 NO + 1 NC EB 1st Contact	K	NT30CGNPAK	237.00

Complete Pilot Lights with Lamp and Polycarbonate Beehive Style Lens

Comes with Ba15d lamp



NVFCPRK

Colour (lens)	Lamp Included (Y/N (type))	Un (V AC)	Item Type	Catalogue No.	\$AU
Green	Yes	240V AC	K	NVFCPGK	176.00
Red	Yes	240V AC	K	NVFCPRK	176.00
Amber	Yes	240V AC	K	NVFCPTK	176.00

Complete Selector Switches with Contact Block



NUCCNPAK

Operator (type)	Operator Action (left)	Operator Action (right)	Contacts ()	Key (Y / N)	Item Type	Catalogue No.	\$AU
Selector Switch, Knob, 2-Position	Latched / Maintained (-45°)	Latched / Maintained (45°)	1 NO + 1 NC EB 1st Contact	No	K	NUACNPAK	284.00
Selector Switch, Knob, 2-Position	Spring Return (-45°)	Spring Return (45°)	1 NO + 1 NC EB 1st Contact	No	K	NUCCNPAK	284.00
Selector Switch, Knob, 3-Position	Latched / Maintained (-90°)	Spring Return (45°)	1 NO + 1 NC EB 1st Contact	No	K	NUFCNPAK	284.00
Selector Switch, Lever, 2-Position	Latched / Maintained (-45°)	Latched / Maintained (45°)	1 NO + 1 NC EB 1st Contact	No	K	NUSSCNPAK	299.00
Selector Switch, Knob, 3-Position	Latched / Maintained (-45°)	Latched / Maintained (45°)	2 NO + 2 NC	No	K	NUNCNPBK	342.00
Selector Switch, Knob, 3-Position	Spring Return (-45°)	Spring Return (45°)	2 NO + 2 NC	No	K	NUHCNPBK	359.00
Selector Switch, Lever, 3-Position	Spring Return (-45°)	Spring Return (45°)	2 NO + 2 NC	No	K	NUHSCNPBK	384.00
Selector Switch, Lever, 3-Position	Latched / Maintained (-45°)	Latched / Maintained (45°)	2 NO + 2 NC	No	K	NUNSCNPBK	384.00

Complete Emergency Stop with Contact Block



1X30NPAK

ØOperator (mm)	Contacts	Operator (action)	Item Type	Catalogue No.	\$AU
38	1 NO + 1 NC EB 1st Contact	Twist to Release	K	1X30NPAK	219.00
54	1 NO + 1 NC EB 1st Contact	Push / Pull to Release	K	1X40NPAK	299.00

FT/NT Complete Pushbutton Stations

"Stoplok" Enclosed Polyester Emergency Stop Pushbutton Stations

Operator (cutouts)	Housing (material)	Item Description	Item Type	Catalogue No.	\$AU
1 x 30.5mm	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	Pushbutton Station Polyester Estop 38mm Twist To Reset 1NO 1NC		FT1DEST	516.00
1 x 30.5mm	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	Pushbutton Station Polyester Estop 54mm Pull To Reset 1NO 1NC		FT1DESL	579.00



FT1DESL

"Stoplok" Enclosed Cast Aluminium Emergency Stop Pushbutton Stations

Operator (cutouts)	Housing (material)	Item Description	Item Type	Catalogue No.	\$AU
1 x 30.5mm	Aluminium, Die-Cast	Pushbutton Station Aluminium 38mm Twist To Reset 1NO 1NC		NT1DES	532.00
1 x 30.5mm	Aluminium, Die-Cast	Pushbutton Station Aluminium 54mm Pull To Reset 1NO 1NC		NT1DESL	603.00
1 x 30.5mm	Aluminium, Die-Cast	Pushbutton Station Aluminium 54mm Pull To Reset 2NO 2NC		NT1-DESLY-NBBSIM	642.00



NT1DESL

Heavy Duty Pushbuttons Stations Type HPD

Complete HPD Pushbutton Stations

Operator (cutouts)	Housing (material)	Item Description	Item Type	Catalogue No.	\$AU
2 x 30.5mm	Aluminium, Die-Cast	Start/Stop Station 1 P/Button 1 P/Pull 2NO 2NC		72-3-02MD	950.00



72-3-02MD

Spare Emergency Stop Operators

ØOperator (mm)	Contacts	Operator (action)	Key (Y/N (removal))	Item Type	Catalogue No.	\$AU
54	1 NC	Push / Pull to Release	No		72440D	235.00



72440D

Empty Enclosures to suit N100 Operators

FT Series - Fibreglass

Size 1

Operator (cutouts)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 30.5mm	105	95	65		FT-1PB	216.00



FT-1PB

Size 2

Operator (cutouts)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
2 x 30.5mm	152	95	65		FT-2P-B	304.00
2 x 22.5mm	152	95	65	I	FTS2PB	304.00



FTS2PB

Size 3



FT-3 P-B

Operator (cutouts)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
3 x 30.5mm	200	95	65		FT-3 P-B	384.00

NT Series - Aluminium

Size 1



NT-1PB

Operator (cutouts)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 30.5mm	100	100	62		NT-1PB	299.00

Size 2



NT2PB

Operator (cutouts)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
2 x 30.5mm	152	95	62		NT2PB	336.00

Size 3

Operator (cutouts)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
3 x 30.5mm	200	95	62		NT3PB	412.00

SS Series - 316 Stainless Steel

Size 1



SS1225

Operator (cutouts)	Height (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 30.5mm	110	110	55		SS1305	593.00
	110	110	55		SS1-BLANK	593.00
1 x 22.5mm	110	110	55		SS1225	608.00

Size 2



SS2-BLANK

Operator (cutouts)	Height (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
2 x 30.5mm	160	110	55		SS2305	714.00
	160	110	55		SS2-BLANK	714.00
2 x 22.5mm	160	110	55		SS2225	733.00

Size 3



SS3-BLANK

Operator (cutouts)	Height (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
3 x 30.5mm	210	110	55		SS3305	890.00
	210	110	55		SS3-BLANK	890.00
3 x 22.5mm	210	110	55		SS3225	910.00

Size 4

Operator (cutouts)	Height (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
4 x 30.5mm	295	110	68.8		SS4305	1,150.00



SS4305

Special Pushbuttons Type HD

Complete IP 65 Flush Panel Mounted Pushbuttons Type HD

Gasket (material)	Operator (colour)	Contacts	Item Type	Catalogue No.	\$AU
Neoprene	Red	2 NO + 2 NC	I	72210D RED	316.00

Contact Blocks for HD

Contacts	Self Monitoring (Y / N)	Un (V AC / V DC)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact	No	240V AC / 240V DC	I	72104	102.00

Neoprene Seals for HD

Item Description	Item Type	Catalogue No.	\$AU
Neoprene Seal Black Suit To HD	I	72316B	15.00
Neoprene Seal Green For HD Op	I	72316G	15.00
Neoprene Seal Red Suit To HD	I	72318R	15.00

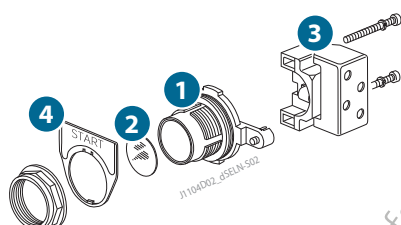


72316G

N100 Pushbutton Components for Self-Assembly

Standard Pushbuttons and Mushroom Heads

Product Selection



- 1 Select operator
- 2 Select coloured insert
- 3 Select contact blocks panel or base mount
- 4 Add Legend plate

Operators only to be used with Anodised Coloured Inserts or Mushroom Heads

Item Description	Item Type	Catalogue No.	\$AU
Pushbutton Operator 30.5mm Guarded		NTOCO	99.00
Pushbutton Operator 30.5mm Non-Guarded		NT10C-0	105.00
Pushbutton Operator 30.5mm Non-Guarded 38 & 57mm Mush		NT20C	106.00
Button, Mushroom Head, Unguard 38mm	K	1X20NNTOCO	239.00
Button, Mushroom Head Unguarded	K	1X21NNTOCO	259.00



NT20C

Aluminium Anodised Coloured Inserts

Colour	Text	Item Type	Catalogue No.	\$AU
Green	START		P11	6.05
Blue	RESET	A	P14	6.30
Green			P20	6.05
Black			P21	6.05
Blue			P22	6.05
Red			P23I	6.05
Yellow		I	P24	6.05
Red	STOP	I	P30	6.05



P20



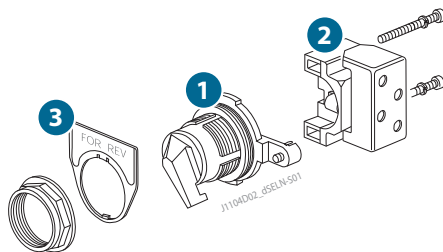
T30GRN

Mushroom Heads - Plastic 38mm and 57mm for use on NT2OC Non-Guarded Operator

ØOperator (mm)	Operator (colour)	Item Type	Catalogue No.	\$AU
38	Black	I	T20BLK	39.00
38	Green	I	T20GRN	39.00
38	Red	I	T20RED	39.00
54	Green	I	T30GRN	43.00

Selector Switch Operators Only

Product Selection



- 1 Select operator
- 2 Select contact blocks panel or base mount
- 3 Add Legend plate



NUNSC

Operator (type)	Operator Action (left)	Operator Action (right)	Key (Y / N)	Item Type	Catalogue No.	\$AU
Selector Switch, Knob, 2-Position	Latched / Maintained (-45°)	Latched / Maintained (45°)	No		NUAC	214.00
Selector Switch, Knob, 2-Position	Spring Return (-45°)	Spring Return (45°)	No		NUCC	214.00
Selector Switch, Knob, 3-Position	Latched / Maintained (-45°)	Latched / Maintained (45°)	No		NUNC	214.00
Selector Switch, Lever, 3-Position	Spring Return (-45°)	Spring Return (45°)	No	I	NUHSC	235.00
Selector Switch, Lever, 3-Position	Latched / Maintained (-45°)	Latched / Maintained (45°)	No		NUNSC	235.00
Selector Switch, Lever, 2-Position	Spring Return (-45°)	Latched / Maintained (45°)	No		NUSSC	235.00
Selector Switch, Key, 2-Position	Latched / Maintained (-45°)	Latched / Maintained (45°)	Yes	I	ULAC	359.00

Contact Blocks Panel or Base Mount for use with N100 Operators

If more than 4 contacts are required, use Tandem Assembly contact block with a standard panel / base mount contact block.
Maximum 1 Tandem Assembly contact block per operator.



NPB-FP

Contacts	Self Monitoring (Y / N)	Mounting (contact block)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact	No	Base Mount		NBA-FP	87.00
1 NO + 1 NC EB 1st Contact	No	Panel Mount		NPA-FP	87.00
1 NO + 1 NC EB 1st Contact	No		I	72003	105.00
1 NO + 1 NC EB 1st Contact	No	Intermediate / Tandem Assembly		NPJT	161.00
2 NO + 2 NC	No	Base Mount		NBB-FP	175.00
2 NO + 2 NC	No	Panel Mount		NPB-FP	175.00
2 NO + 2 NC	No	Intermediate / Tandem Assembly		NPBTCONT	257.00
2 NO + 2 NC	No	Panel Mount		NBBG	342.00

Emergency Stop Operators Only



1X21N

ØOperator (mm)	Operator (action)	Padlockable (Y / N)	Item Type	Catalogue No.	\$AU
38	Twist to Release	No		1X30	157.00
38	Momentary	No		1X20N	172.00
54	Momentary	No		1X21N	178.00
54	Push / Pull to Release	No		1X40NP	237.00
54	Push / Pull to Release	Yes		1X40	246.00

N100 Pilot Light Components for Self-Assembly

IP 66 Full Voltage Type

Requires Ba15d lamp and lens.

Lamp Included (Y/N (type))	Item Type	Catalogue No.	\$AU
No		NVFC	156.00



NVFC

IP 54 Push-To-Test Unguarded / Full Voltage Type

Requires Ba9 lamp and lens.

Lamp Included (Y/N (type))	Item Type	Catalogue No.	\$AU
No		WFC	327.00



WFC

Lens to suit Pilot Lights and Push-To-Test Pilot Lights

Lens (colour)	Item Type	Catalogue No.	\$AU
Clear / Transparent		1PC	37.00
Green		1PG	37.00
Red		1PR	37.00
Amber		1PT	37.00
White		1PW	37.00



1PG

N100 Accessories and Spare Parts

Padlocking Device

Item Description	Item Type	Catalogue No.	\$AU
Padlocking Device To Suit NTOC Guarded Pushbutton Lock Off	I	N100-PAG	65.00



N100-PAG

Hole Plugs

Item Description	Item Type	Catalogue No.	\$AU
Hole Plug, 40mm Diameter, Metal, Oil Tight	I	1X4	32.00
Hole Plug, 40mm Diameter, Stainless Steel, Oil Tight		1X4SSS	66.00

Collars

EPDM

Item Description	Item Type	Catalogue No.	\$AU
Blue EPDM Cover for NTOC	I	1X14EPDM	47.00
Black EPDM Cover for NTOC		1X15EPDM	47.00
Red EPDM Cover for NTOC		1X16EPDM	47.00
Green EPDM Cover for NTOC		1X17EPDM	47.00



1X16EPDM

Engraved Inserts and Legend Plates to suit N100

To view the Austral N100 Legend Plate Engraving form please visit: www.nhp.com.au/forms (Australia) or www.nhp-nz.com/forms (New Zealand)

Medium - 41x45mm for N100 Operators and Indicators



Material (plate)	Colour (plate)	Colour (text)	Size (mm, H x W)	Text (plate)	Item Type	Catalogue No.	\$AU
Anodized Aluminium	Red		45 x 41			B45	8.90
Anodized Aluminium	Black		45 x 41			B46	8.90
Anodized Aluminium	Black	White	45 x 41	START		B10	11.00
Anodized Aluminium	Black	White	45 x 41	FORWARD		B11	11.00
Anodized Aluminium	Black	White	45 x 41	REVERSE		B12	11.00
Anodized Aluminium	Black	White	45 x 41	OPEN		B17	11.00
Anodized Aluminium	Black	White	45 x 41	CLOSE		B18	11.00
Anodized Aluminium	Black	White	45 x 41	RESET	A	B21	11.00
Anodized Aluminium	Black	White	45 x 41	INCH FORWARD	A	B26	11.00
Anodized Aluminium	Black	White	45 x 41	INCH REVERSE	A	B27	11.00
Anodized Aluminium	Red	White	45 x 41	STOP		B28	11.00
Anodized Aluminium	Black	White	45 x 41	EMERG STOP		B29	11.00
Anodized Aluminium	Black	White	45 x 41	MAN - OFF - AUTO		B91	11.00

Large - 51x54mm for Emergency Stop and Mushroom Operators

Material (plate)	Colour (plate)	Colour (text)	Size (mm, H x W)	Text (plate)	Item Type	Catalogue No.	\$AU
Anodized Aluminium	Red		54 x 51		I	B2	12.00
Anodized Aluminium	Red	White	54 x 51	EMERG STOP - PULL TO RESET		BC6 WP	14.00
Anodized Aluminium	Red	White	54 x 51	EMERG STOP - TWIST TO RESET		BC7	14.00
Anodized Aluminium	Yellow	Black	54 x 51	EMERG STOP - PULL TO RESET		BC6YELLOW	28.00

DRN Foot / Palm Operators

Complete DRN "Roughneck" Foot / Palm Operators



Item Description	Item Type	Catalogue No.	\$AU
Hand/Foot Operator Standard, Non-maintaining, Aluminium	I	720100	477.00

Contact Blocks for D Operators



Contacts	Self Monitoring (Y / N)	Item Type	Catalogue No.	\$AU
2 NO + 2 NC	No		72188B	233.00

Spare Lamps

Incandescent Lamps

BA15d Style - Suitable for NVFC Indicator



Lamp (type)	Un (V AC / V DC)	Item Type	Catalogue No.	\$AU
Incandescent	24V AC / 24V DC		BA15D-I-24V-5W	20.00
Incandescent	240V AC / 240V DC		BA15D-I-240-7W	26.00

Multi-chip LED Lamp

Ba15d Style - Suitable for NVFC Indicator

Lamp (type)	Lamp (colour)	Un (V AC / V DC)	Item Type	Catalogue No.	\$AU
LED	White	130V AC / 130V DC	I	BA15D-WHT-LED-130V	112.00
LED	Green (525nm)	24V AC / 24V DC		BA15D-GRNLED-24V	125.00
LED	Green (525nm)	48V AC / 48V DC		BA15D-GRN-LED-48V	125.00
LED	White	240V AC / 240V DC		BA15D-WHT-LED-240V	125.00
LED	White	24V AC / 24V DC		BA15D-WHT-LED-24V	125.00
LED	Red (629nm)	24V AC / 24V DC		BA15D-RED-LED-24V	126.00
LED	Red (629nm)	48V AC / 48V DC		BA15D-RED-LED-48V	126.00



BA15D-RED-LED-48V

Allen-Bradley 800T/800H Pushbutton Selection Guide

30.5mm Pushbuttons



Bulletin	800T/H	800T/H	800T/H
Description	Pushbuttons	Push-Pull	Selector Switches
Features	<ul style="list-style-type: none"> Flush, extended, mushroom & jumbo mushroom, maintained versions Illuminated, non-illuminated, and keyed operators 	<ul style="list-style-type: none"> Push-pull & push-pull/twist-to-release 2 or 3 positions Illuminated, non-illuminated operators 	<ul style="list-style-type: none"> 2-, 3-, or 4-position maintained or spring return, standard/lever/wing knobs Illuminated, non-illuminated, coin-slot, and keyed operators
Mounting Hole Size	30.5mm	30.5mm	30.5mm
Mounting Method	Front of panel mounting ring	Front of panel mounting ring	Front of panel mounting ring
Material & Degree of Protection	<ul style="list-style-type: none"> 800T: Metal, IP66 800H: Plastic, IP66 	<ul style="list-style-type: none"> 800T: Metal, IP66 800H: Plastic, IP66 	<ul style="list-style-type: none"> 800T: Metal, IP66 800H: Plastic, IP66
Max. Number of Circuits	<ul style="list-style-type: none"> Illum: 4 circuits Non-Illum: 8 circuits 	<ul style="list-style-type: none"> Illum: 4 circuits Non-Illum: 8 circuits 	<ul style="list-style-type: none"> Illum: 4 circuits Non-Illum: 8 circuits
Operating Temperature Range	-40...+55 °C	-40...+55 °C	-40...+55 °C
Design Life	Mechanical cycles: <ul style="list-style-type: none"> Illum: 250k min. Non-Illum: 10M min. 	Mechanical cycles: <ul style="list-style-type: none"> Illum: 250k min. Non-Illum: 250k min. 	Mechanical cycles: <ul style="list-style-type: none"> Illum: 200k min. Non-Illum: 1M min.
Contact Block & Power Module Assembly	Factory or field assembly	Factory or field assembly	Factory or field assembly
Standards	UL/CSA/CE	UL/CSA/CE	UL/CSA/CE
Page	748	750	751

J1102_QCHRT-503

30.5mm Pushbuttons



800T/H



800T/H



800T/H

Pilot Lights

- Standard, push-to-test, and dual input pilots
- Transformer, full voltage, and resistor modules
- LED, incandescent, and neon lamps

Enclosures

- Options to accept 1...25 operators
- Die cast, stainless steel, glass polyester, and fiberglass

Contact Blocks

- Standard (10A), low voltage (2.5A), self-monitoring (10A), horsepower-rated (24A), and sealed blocks (2.5...5A)
- IP2X finger-safe or open-style terminals

30.5mm

30.5mm

For use with
Bul. 800T/H 30.5mm

Front of panel
mounting ring

- Surface
- Flush
- Pendant type

Screw-mounted
on operator

- **800T:** Metal, IP66
- **800H:** Plastic, IP66

IP66

- **Non-Sealed:** Silver or precious metal contacts
- **Sealed:** Tungsten or precious metal contacts in sealed glass tube

Push-to-Test: 4 circuits

N/A

1- or 2-circuit contact blocks.
Side-by-side mounting, 2 levels deep

-40...+55 °C

-40...+55 °C

-40...+55 °C

- **Push-to-test:** 250k mech. cycles min.
- **Incandescent:** 5...20k hrs.
- **LED:** 100k hrs.

N/A

- **Standard & self-monitoring:** AC-15, DC-13, A600, Q600
- **Sealed:** AC-15, DC-13, B600, P300
- All others: Refer NHP

Factory or field assembly

N/A

N/A

UL/CSA/CE

UL/CSA

UL/CSA/CE

750

753

753

Pushbuttons and Pilot Lights

Allen-Bradley 800T/800H Pushbuttons

30.5 mm Pushbuttons	Page 748
Pilot Light Units (Standard Units)	Page 750
Pilot Light Units (Push-To-Test)	Page 751
Selector Switches	Page 751
Toggle Switches	Page 752
Potentiometers	Page 752
Pushbutton Enclosures	Page 752
Accessories	Page 753



- 800T (metal) and 800H (plastic) 30.5 mm product lines are designed and constructed to perform in the most demanding industrial environments.
- Button caps made from thermoplastic polyester resin and deliver excellent resistance to corrosive agents and ensure color identification is never lost.
- Operator bushings are made from die cast zinc alloy giving strength and stability in installation.
- Riveted construction of the operator bushing, diaphragm seal and base plate, by four secure steel rivets, provides increased durability and tamper resistance.

The Allen-Bradley 800T and 800H 30.5 mm pushbutton product lines are in a class by themselves. They are designed and constructed to perform in the most demanding industrial environments. In terms of sealing and switching performance, you will not find a more dependable push button offering. The 800T and 800H range offers more styles and options of operator types and contact blocks than any other competitor, offering flexibility to meet the most demanding specifications in the world's toughest industrial environments.

30.5 mm Pushbuttons

Momentary Contact Push Buttons Units, Non-Illuminated

Flush Head, Plastic



800H-AR1

Operator (colour)	Contacts	Item Type	Catalogue No.	\$AU
Green			800H-AR1	51.10
Black			800H-AR2	51.10
Red			800H-AR6	51.10
Green	1 NO		800HC-AR1D1	86.08
Black	1 NO		800HC-AR2D1	86.08
Red	1 NC		800HC-AR6D2	86.08
Green	1 NO + 1 NC EB 1st Contact		800HC-AR1A	115.30

Flush Head, Booted, Plastic



800HC-R2D1

Operator (colour)	Contacts	Item Type	Catalogue No.	\$AU
Green			800H-R1	92.24
Green	1 NO		800HC-R1D1	127.22
Black	1 NO		800HC-R2D1	127.22
Black	1 NO + 1 NC EB 1st Contact		800HC-R2A	156.44

Flush Head, Metal



800T-A6

Operator (colour)	Contacts	Item Type	Catalogue No.	\$AU
Green			800T-A1	50.56
Black			800T-A2	50.56
Red			800T-A6	50.56
Blue			800T-A7	50.56
Yellow			800T-A9	50.56
Green	1 NO		800TC-A1D1	85.16
Black	1 NO		800TC-A2D1	85.16
Red	1 NC		800TC-A6D2	85.16
Green	1 NO + 1 NC EB 1st Contact		800TC-A1A	114.06
Black	1 NO + 1 NC EB 1st Contact		800TC-A2A	114.06
Red	1 NO + 1 NC EB 1st Contact		800TC-A6A	114.06

Extended Head, Plastic

Operator (colour)	Contacts	Item Type	Catalogue No.	\$AU
Green	1 NO + 1 NC EB 1st Contact		800HC-BR1A	115.30



Extended Head, Booted, Plastic

Operator (colour)	Contacts	Item Type	Catalogue No.	\$AU
Red			800H-R6	92.24
Red	1 NC		800HC-R6D2	127.22
Red	1 NO + 1 NC EB 1st Contact		800HC-R6A	156.44



Extended Head, Metal

Operator (colour)	Contacts	Item Type	Catalogue No.	\$AU
Green	1 NO + 1 NC EB 1st Contact	I	800TC-B1A	114.06
Black	1 NO + 1 NC EB 1st Contact	I	800TC-B2A	114.06
Red	1 NO + 1 NC EB 1st Contact	I	800TC-B6A	114.06



Momentary Contact Push Buttons Units, Illuminated

Plastic Extended Head Without Guard

Operator (colour)	Un (V AC)	Un (V DC)	Contacts	Item Type	Catalogue No.	\$AU
Amber	12 - 130	12 - 130	1 NO + 1 NC EB 1st Contact		800HC-QRBH2A	284.19
Green	12 - 130	12 - 130	1 NO + 1 NC EB 1st Contact		800HC-QRBH2G	284.19
Red	12 - 130	12 - 130	1 NO + 1 NC EB 1st Contact	I	800HC-QRBH2R	284.19



Metal Extended Head Without Guard

Operator (colour)	Un (V AC)	Un (V DC)	Contacts	Item Type	Catalogue No.	\$AU
	24	24	1 NO + 1 NC EB 1st Contact	I	800TC-QB24	220.98
Amber	12 - 130	12 - 130	1 NO + 1 NC EB 1st Contact		800TC-QBH2A	281.13
Green	12 - 130	12 - 130	1 NO + 1 NC EB 1st Contact		800TC-QBH2G	281.13
Green	120		1 NO + 1 NC EB 1st Contact	I	800TC-PBH16G	318.98
Red	120		1 NO + 1 NC EB 1st Contact		800TC-PBH16R	318.98



Momentary Contact Mushroom Operator, Non-Illuminated

40mm Mushroom, Metal

Operator (mm)	Operator (colour)	Contacts Included (Y / N)	Item Type	Catalogue No.	\$AU
40	Green	No		800T-D1	107.71
40	Orange	No		800T-D3	107.71



2-Position Push-Pull and Push-Pull / Twist Release, Non-Illuminated

Push-pull / Twist Release, Plastic



800H-FRXT6

ØOperator (mm)	Operator (colour)	Contacts Included (Y / N)	Item Type	Catalogue No.	\$AU
41.3	Red	No		800H-FRXT6	195.22
41.3	Red	Yes, 1 NCLB		800HC-FRXT6D4	230.20
41.3	Red	Yes, 1 NO + 1 NCLB		800HC-FRXT6A1	259.42
41.3	Red	Yes, 2 NCLB		800HC-FRXT6A5	265.19
41.3	Red	Yes, 1 SMCB		800HC-FRXT6D4S	265.45

Push-pull / Twist Release, Metal



800TC-FXJT6D4

ØOperator (mm)	Operator (colour)	Contacts Included (Y / N)	Item Type	Catalogue No.	\$AU
41.3	Red	Yes, 1 NCLB		800T-FXT6D4	222.03
41.3	Red	Yes, 1 NCLB		800TC-FXT6D4	227.73
60	Red	Yes, 1 NCLB		800TC-FXJT6D4	246.78
41.3	Red	Yes, 1 NO + 1 NCLB		800TC-FXT6A1	256.63
41.3	Red	Yes, 2 NCLB		800TC-FXT6A5	262.34
41.3	Red	Yes, 2 SMCB		800TC-FXT6A5S	332.07
60	Red	Yes, 2 NCLB		800TC-FXJT6A5S	351.13

Push-pull, metal



800TC-FX6D4

ØOperator (mm)	Operator (colour)	Contacts Included (Y / N)	Item Type	Catalogue No.	\$AU
41.3	Red	Yes, 1 NCLB		800T-FX6D4	193.77
41.3	Red	Yes, 1 NCLB		800TC-FX6D4	199.47
41.3	Red	Yes, 1 NO + 1 NCLB		800TC-FX6A1	228.37
41.3	Red	Yes, 2 NCLB		800TC-FX6A5	234.08

2-Position Push-Pull and Push-Pull / Twist Release, Illuminated

Metal



800TC-FXTQ10RA1

ØOperator (mm)	Operator (colour)	Un (V AC / V DC)	Contacts	Item Type	Catalogue No.	\$AU
41.3	Red	120V AC /	1 NO + 1 NCLB	I	800TC-FXTQ10RA1	319.50

3-position Push-Pull and Push-Pull / Twist Release, Non-Illuminated



800TC-FXMQ24GA7

ØOperator (mm)	Operator (colour)	Un (V AC min-max (nom))	Un (V DC min-max (nom))	Contacts	Item Type	Catalogue No.	\$AU
40	Green	- (24)	- (24)	1 NC + 1 NCLB		800TC-FXMQ24GA7	291.25
40	Red	12 - 130	12 - 130	1 NO + 1 NCLB		800TC-FXQH2RA1	338.67

Pilot Light Units (Standard Units)

Plastic



800H-QRH2R

Lens (colour)	Lamp Included (Y/N (type))	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
No Lens	Yes	240			800HC-PR26	POA
Amber	Yes	130	130		800H-QRH2A	214.23
Green	Yes	130	130		800H-QRH2G	214.23
Red	Yes	130	130		800H-QRH2R	214.23
White	Yes	130	130		800H-QRH2W	214.23

Metal

Lens (colour)	Lamp Included (Y/N (type))	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
Amber	Yes	130	130		800T-QH2A	211.92
Green	Yes	130	130		800T-QH2G	211.92
Red	Yes	130	130		800T-QH2R	211.92
Amber	Yes	120		I	800TC-PH16A	255.46
Green	Yes	120			800TC-PH16G	255.46
Red	Yes	120			800TC-PH16R	255.46
White	Yes	120			800TC-PH16W	255.46



800T-QH2R

Pilot Light Units (Push-To-Test)

Plastic

Lens (colour)	Lamp Included (Y/N (type))	Un (V AC)	Un (V DC)	Item Type	Catalogue No.	\$AU
No Lens	Yes	120	120		800HC-QRT10	223.39
No Lens	Yes	24	24		800HC-QRT24	223.39



800HC-QRT10

Metal

Lens (colour)	Lamp Included (Y/N (type))	Item Type	Catalogue No.	\$AU
Amber	Yes	I	800TC-QTH2A	281.13
Green	Yes		800TC-QTH2G	281.13
Red	Yes		800TC-QTH2R	281.13

Selector Switches

2-Position Selector Switch Units, Non-Illuminated

Standard Knob, Plastic

#Positions	Operator Action (left)	Operator Action (right)	Contacts	Item Type	Catalogue No.	\$AU
2	Latched / Maintained	Latched / Maintained			800H-HR2	70.49
2	Latched / Maintained	Latched / Maintained	1 NO		800HC-HR2D1	105.47
2	Latched / Maintained	Latched / Maintained	1 NO + 1 NC EB 1st Contact		800HC-HR2A	134.68



800HC-HR2A

Standard Knob, Metal

#Positions	Operator Action (left)	Operator Action (right)	Contacts	Item Type	Catalogue No.	\$AU
2	Latched / Maintained	Latched / Maintained			800T-H2	69.73
2	Latched / Maintained	Latched / Maintained	1 NO		800TC-H2D1	104.34
2	Latched / Maintained	Latched / Maintained	1 NO + 1 NC EB 1st Contact		800T-H2A	127.54
2	Latched / Maintained	Latched / Maintained	1 NO + 1 NC EB 1st Contact		800TC-H2A	133.25



800TC-H2D1

3-Position Selector Switch Units, Non-Illuminated

Standard Knob, Plastic

#Positions	Operator Action (left)	Operator Action (right)	Contacts	Item Type	Catalogue No.	\$AU
3	Latched / Maintained	Latched / Maintained			800H-JR2	70.49
3	Spring Return	Latched / Maintained			800H-JR4	109.01
3	Latched / Maintained	Latched / Maintained	1 NO + 1 NC EB 1st Contact	I	800H-JR2A	128.93
3	Latched / Maintained	Latched / Maintained	1 NO + 1 NC EB 1st Contact		800HC-JR2A	134.68



800H-JR2



800T-J2

Standard Knob, Metal

#Positions	Operator Action (left)	Operator Action (right)	Contacts	Item Type	Catalogue No.	\$AU
3	Latched / Maintained	Latched / Maintained			800T-J2	69.73
3	Spring Return	Latched / Maintained		I	800T-J4	107.84
3	Spring Return	Spring Return			800T-J91	107.84
3	Latched / Maintained	Latched / Maintained	1 NO + 1 NC EB 1st Contact		800T-J2A	127.54
3	Latched / Maintained	Latched / Maintained	1 NO + 1 NC EB 1st Contact		800TC-J2A	133.25
3	Spring Return	Spring Return	2 NO + 2 NC	I	800T-J20KD7B	223.45

Lever Knob, Metal

#Positions	Operator Action (left)	Operator Action (right)	Contacts	Item Type	Catalogue No.	\$AU
3	Latched / Maintained	Latched / Maintained	1 NO + 1 NC EB 1st Contact	I	800TC-J20A	171.35

Toggle Switches

2 Way, Metal



800T-T2H3

Item Description	#Positions	Operator (action)	Item Type	Catalogue No.	\$AU
Toggle Switch 30.5mm Metal 2 Position Sr Operator Only	2	Spring Return		800T-T2H3	341.66
Toggle Switch 30.5mm Metal 2 Position Sr 2NC	2	Spring Return		800TC-T2H3EEEX	410.87
Toggle Switch 30.5mm Metal 2 Position Sr 4NC	2	Spring Return		800TC-T2H3NNXX	468.68

4 Way, Metal

#Positions	Operator (action)	Item Type	Catalogue No.	\$AU
4	Spring Return	I	800TC-T4T8AAXX	544.50

Potentiometers

Plastic

Finger Safe Guards



800HC-UR29

Resist. (Ω)	Item Type	Catalogue No.	\$AU
10000		800HC-UR29	382.85

Metal

No Guards

Resist. (Ω)	Item Type	Catalogue No.	\$AU
10000		800T-U29	373.02

Finger Safe Guards



800TC-U24

Resist. (Ω)	Item Type	Catalogue No.	\$AU
5000		800TC-U24	378.72
10000		800TC-U29	378.72

Pushbutton Enclosures

Plastic

Operator (cutouts)	Conduit (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 30.5mm	1 x 0.75"	110	80	50	I	800H-1HZ4CY	55.03

Die Cast Aluminium

Operator (cutouts)	Conduit (entry)	H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1 x 30.5mm	1 x 0.75"	106.4	96.8	81.8		800T-1TZ	187.94
1 x 30.5mm	1 x 0.75"	178.6	96.8	100.8		800H-1HZ4R	189.99
2 x 30.5mm	1 x 0.75"	178.6	96.8	100.8		800H-2HZ4R	189.99
2 x 30.5mm	1 x 0.75"	144.2	96.8	81.8	I	800T-2TZ	206.09
3 x 30.5mm	1 x 0.75"	192.1	96.8	81.8	I	800T-3TZ	238.49
3 x 30.5mm	1 x 0.75"	221.5	96.8	100.8		800H-3HZ4R	305.28
4 x 30.5mm	1 x 0.75"	270.7	96.8	100.8		800H-4HZ4R	360.30



800T-3TZ

Accessories

800T/H Contact Blocks

Shallow Block

Item Description	Contacts	Un (V AC / V DC)	Item Type	Catalogue No.	\$AU
Contact Block For 800T/H Shallow 1NO	1 NO	600V AC / 600V DC		800T-XD1	28.91
Contact Block For 800T/H Shallow 1NC	1 NC	600V AC / 600V DC		800T-XD2	28.91
Contact Block For 800T/H Shallow 1NOEM	1 NOEM	600V AC / 600V DC	I	800T-XD3	28.91
Contact Block For 800T/H Shallow 1NCLB	1 NCLB	600V AC / 600V DC	I	800T-XD4	28.91
Contact Block For 800T/H Shallow 1NO Guards On Terminals	1 NO	600V AC / 600V DC		800TC-XD1	34.61
Contact Block For 800T/H Shallow 1NC Guards On Terminals	1 NC	600V AC / 600V DC		800TC-XD2	34.61
Contact Block For 800T/H Shallow 1NCLB Guards On Terminals	1 NCLB	600V AC / 600V DC		800TC-XD4	34.61
Contact Block For 800T/H Shallow 1NO 1NC Guards On Terminals	1 NO + 1 NC EB 1st Contact	600V AC / 600V DC		800TC-XA	63.52
Contact Block For 800T/H Shallow 1NO 1NCLB Guards On Terminals	1 NO + 1 NCLB	600V AC / 600V DC		800TC-XA1	63.52
Contact Block For 800T/H Shallow 2NO Guards On Terminals	2 NO	600V AC / 600V DC		800TC-XA2	63.52
Contact Block For 800T/H Shallow 2NC Guards On Terminals	2 NC	600V AC / 600V DC		800TC-XA4	63.52
Contact Block For 800T/H Shallow 1NC 1NCLB Guards On Terminals	1 NC + 1 NCLB	600V AC / 600V DC	I	800TC-XA7	63.52



800T-XD4

PenTUFF (Low Voltage) Blocks

Contacts	Ie (A,max)	Un (V AC / V DC)	Item Type	Catalogue No.	\$AU
1 NO	10	300V AC / 150V DC		800TC-XD1V	53.27
1 NC	10	300V AC / 150V DC		800TC-XD2V	53.27



800TC-XD1V

Self Monitoring Contact Block

Contacts	Ie (A,max)	Un (V AC / V DC)	Item Type	Catalogue No.	\$AU
1 NC	10	240V AC / 24V DC		800TC-XD4S	69.47



800TC-XD4S

Stackable Sealed Switch Blocks

Contacts	Ie (A,max)	Un (V AC / V DC)	Item Type	Catalogue No.	\$AU
1 NO	5	300V AC / 150V DC	I	800T-XD1Y	169.05
1 NC	5	300V AC / 150V DC	I	800T-XD2Y	169.05



800T-XD1Y

Colour Caps

800T Push-Pull

Operator (type)	Colour	Item Type	Catalogue No.	\$AU
Pushbutton, Jumbo, Mushroom, 2-Position	Red		800T-N160A	54.05

800T/H Push-Pull / Twist

Operator (type)	Colour	Item Type	Catalogue No.	\$AU
Pushbutton, Jumbo, Mushroom, 2-Position	Red		800T-N302A	54.05



800T-N302A

800T/H Pushbutton Color Caps, Illuminated

Operator (type)	Colour	Item Type	Catalogue No.	\$AU
Pilot Light	Green		800T-N26G	17.63
Pilot Light	Red		800T-N26R	17.63
Pilot Light, Push to Test	Red		800T-N40	17.63
Pilot Light, Push to Test	Green		800T-N41	17.63
Pilot Light, Push to Test	Amber		800T-N42	17.63



800T-N40

Standard Legends

Standard, Plastic

Material (plate)	Colour (plate)	Text (colour)	Size (mm, H x W)	Item Type	Catalogue No.	\$AU
Plastic	Grey	Black	46.4 x 46.4		800H-W100	6.30



800H-W100

Standard Plate, Aluminium

Material (plate)	Legend (colour)	Text (colour)	Size (mm, H x W)	Text (plate)	Item Type	Catalogue No.	\$AU
Aluminium	Silver		46.4 x 45.2			800T-X559	6.23
Aluminium	Silver	Black	46.4 x 45.2	EMERG STOP		800T-X504	9.39
Aluminium	Silver	Black	46.4 x 45.2	START		800T-X547	9.39
Aluminium	Silver	Black	46.4 x 45.2	STOP		800T-X550	9.39
Aluminium	Silver	Black	46.4 x 45.2	LOCAL - REMOTE		800T-X638	9.39
Aluminium	Yellow	Black	46.4 x 45.2	EMERGENCY STOP		800T-X646EM	12.50



800T-X646EM

Grey Legend Plate, Plastic

Material (plate)	Legend (colour)	Text (colour)	Size (mm, H x W)	Text (plate)	Item Type	Catalogue No.	\$AU
Plastic	Grey	Black	46.4 x 46.4	FORWARD	I	800H-W105	9.49
Plastic	Grey	Black	46.4 x 46.4	START		800H-W126	9.49
Plastic	Red	Black	46.4 x 46.4	STOP		800H-W371	9.49
Plastic	Red	Black	46.4 x 46.4	EMERG STOP		800H-W372	9.49
Plastic	Red	Black	46.4 x 46.4	EMERGENCY STOP		800H-W373	9.49



800H-W373

Specialty Legend Plate, Aluminium

Material (plate)	Legend (colour)	Text (colour)	Size (mm, H x W)	Text (plate)	Item Type	Catalogue No.	\$AU
Aluminium	Yellow	Black	46.4 x 45.2	EMERG STOP		800T-X504Y	9.39



800T-X504Y

Guards

800T Push Button Guards

Item Description	Item Type	Catalogue No.	\$AU
Guard for 800T/H Booted Pushbutton Stainless Steel	I	800H-N153	86.34



800H-N153

800T/H Protective Guards

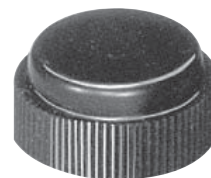
Item Description	Item Type	Catalogue No.	\$AU
Guard For 800T/H Push Pull 40mm Stainless Steel		800T-N310	74.92



800T-N310

Protective Boots

Item Description	Item Type	Catalogue No.	\$AU
Boot For 800T/H Pushbutton Polyethylene Red		800H-N5A	39.05
Boot For 800T/H Pushbutton Polyethylene Green		800H-N5B	39.05
Boot For 800T/H Pushbutton Polyethylene Black		800H-N5H	39.05
Boot For 800T/H Pushbutton Illuminated Clear		800H-N11	76.12



800H-N5B

Lamp

Incandescent

Lamp (type)	Un (V AC / V DC)	Item Type	Catalogue No.	\$AU
Incandescent - Full Voltage	24V AC / 24V DC	I	800T-N157	8.86
Incandescent - Full Voltage Transformer	6.3V AC /		800T-N65	8.86



800T-N65

LED

Lamp (type)	Lens (colour)	Un (V AC / V DC)	Item Type	Catalogue No.	\$AU
LED - Transformer	Red	6V AC / 6V DC	I	800T-N377R	51.20

Locking Attachments

Item Description	Item Type	Catalogue No.	\$AU
Padlock Cover For 800T/H Pull/Twist Pushbutton And Selector		800H-N140	56.60



800H-N140

Mounting Rings

Item Description	Item Type	Catalogue No.	\$AU
Mounting Ring For 800H Operator	I	800H-N149	9.49
Mounting Ring Wrench for 800T/H Operator	I	800T-N245	55.99



800T-N245



800T-N1

Closing Button

Item Description	Item Type	Catalogue No.	\$AU
Hole Plug 30.5mm, Plastic, Grey		800T-N1	18.79



800T-N230F

Spare Knobs

Item Description	Item Type	Catalogue No.	\$AU
Knob For 800T Selector Switch, White	I	800T-N230F	25.01

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Timers and Control Relays

General Purpose Relays

Finder Electromechanical Relay Selection Guide	758
Electromechanical Relays	760
Finder Electromechanical Relays	Index 760
Allen-Bradley Electromechanical Relays	Index 773
Solid State Relays	777
Finder Solid State Relays	777
Carlo Gavazzi Solid State Relays	778
Allen-Bradley Solid State Relays	785

Monitoring Relays

Speed Monitoring Relays	786
Voltage, Current, Phase and Power Factor Monitoring Relays	787
Electronic Time Delay Relays - Timing Functions	794

Timers and Time Switches

Time Delay Relays	795
Carlo Gavazzi Time Delay Relays	795
Sprecher + Schuh Time Delay Relays	799
Allen-Bradley Time Delay Relays	803
Time Switches	805
Finder Time Switches	805
Finder Mechanical Time Switches	807

Finder Electromechanical Relay Selection Guide

	Pin configuration	Description	Series No	Bases
	—	2 N/O, 16A, step relay, DIN mount	20.22	DIN mount
	—	1 N/O + 1 N/C, 16A, step relay for direct 35 mm rail mounting	20.23	DIN mount
		1C/O, 6A, Miniature PCB mount / plug-in relay, 5 pin	34.51	PCB or 93.6x
	—	1 C/O, 6 A, Master / Basic, 24V AC / DC, 230 V AC	39.11, 24 V AC DC 39.31, 230 V AC	DIN mount
		1 C/O, 10A, miniature PCB mount / plug-in relay, 5 pin	40.31	95.03
		1 C/O, 10A, miniature PCB mount / plug-in relay, 5 pin	40.51	PCB or 95.05
		2 C/O, 8A, miniature PCB mount / plug-in relay, 8 pin	40.52	PCB or 95.05
		1 C/O, 16A, miniature PCB mount / plug-in relay, 8 pin	40.61	95.05
		2 C/O, 10A, miniature PCB mount / plug-in relay, 8 pin	44.62	95.05
		2 C/O, 8A, miniature plug-in PCB relay, 8 pin	46.52	97.02
		1 C/O, 16A, miniature plug-in Faston relay, 5 pin	46.61	97.01
		2 C/O, 10A, miniature general purpose relay, 8 flat pins	55.32	94.02
		4 C/O, 7A, miniature general purpose relay, 14 flat pins	55.34	94.04
		2 C/O, 12A, miniature power relay, 8 flat pins	56.32	96.02
		4 C/O, 12A, miniature power relay, 14 flat pins	56.34	96.04

T1101_dSELN-501

	Pin configuration	Description	Series No	Bases
		2 C/O, 10A, general purpose relay, 8 pin round plug-in	60.12	90.20
		3 C/O, 10 A, general purpose relay, 11 pin round plug-in	60.13	90.21
		2 C/O, 16A power relay, plug-in mount / Faston 187	62.32	92.03
		3 C/O, 16A, power relay, plug-in mount / Faston 187	62.33	92.03
		2 C/O, 16A, power relay, flange mount / Faston 250 connections	62.82	Flange mount
	—	1 NO + 1 NC (SPST-NO + SPST-NC), 20A, power relay, flange mount, Faston 250 connections	65.31	Flange mount
	—	1 N/O, 30A, industrial power relay, quick connect	65.31M	Flange mount
	—	2 N/O, 20A, relay for direct 35 mm rail mounting	22.22	35mm DIN Rail
	—	1 N/O + 1 N/C, 20A, relay for direct 35 mm rail mounting	22.23	35mm DIN Rail
	—	25A modular contactor - 2 pole	22.32	35mm DIN Rail
	—	25A modular contactor - 4 pole	22.34	35mm DIN Rail
		2 N/O, 8A, PCB relay with forcibly guided contacts according to EN 61810-3 Type B	50.12	PCB mount
	—	1 N/O, 10A, electromechanical step relay with electrically separate coil and contact circuits	26.01	Panel mount
	—	2 N/O, 10A, electromechanical step relay with electrically separate coil and contact circuits	26.02	Panel mount
	—	1 N/O + 1 N/C, 10A, electromechanical step relay with electrically separate coil and contact circuits	26.03	Panel mount

Electromechanical Relays

Finder Electromechanical Relays

Slim Relay Interface Modules	Page 760
PCB and Miniature Relays	Page 761
General Purpose Industrial & Power Relays	Page 764
Step Relays	Page 770
Safety Relays	Page 771
Plug-In Modules for Interface / Power / PCB and Miniature Relays	Page 771



- Complete range from PCB to power relays to cover all of your switching requirements
- Certifications and approvals including CE, EAC, PCT, RINA, VDE and RoHS, providing quality assurance of a market leading product.
- Compact construction allowing for most efficient use of space

Select from a wide variety of relay types to accommodate for various application requirements across different market segments. Relay types in the range include interface, PCB, general purpose panel, power and step relays.

Slim Relay Interface Modules

Not just a pretty interface! The ultra-slim Finder interface relay allows you to save time and space with a simple and versatile solution with LED indication and diode included. Only 6.2 mm wide and available in 5 different versions suitable for interfacing with PLC-controlled, automated systems. Quick connect up to 8 relays with the master adapter module and cable.

39 Master Basic Series

The 39 series MasterBASIC is used as a general interface for various systems in different applications. Consider use for in input interface applications between auxiliary contacts, sensors etc. and controllers, PLC's or motors. Also can be considered for use as output interface between PLC controllers and relays, solenoids etc.



39.11.6 V AC/DC

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
6	1 CO	250V AC	Silver Nickel (AgNi)	12V AC / 12V DC	1500 VA / 300 VA		39.11 12 V AC/DC	96.00
6	1 CO	250V AC	Silver Nickel (AgNi)	24V AC / 24V DC	1500 VA / 300 VA		39.11 24 V AC/DC	96.00
6	1 CO	250V AC	Silver Nickel (AgNi)	230V AC	1500 VA / 300 VA		39.11 230 V AC	96.00
6	1 CO	250V AC	Silver Nickel (AgNi)	6V AC / 6V DC	1500 VA / 300 VA		39.11.6 V AC/DC	96.00

39 Master Input Series

In applications where a single contact closure is required, the Master Input can connect directly to the interface without the need for additional terminals, thus saving space in the panel. Master Input has gold contacts as standard and can be used in interface applications between sensors, contacts or limit switches and PLC input circuits.



39.41 6 V AC/DC

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
6	1 CO	250V AC	Gold-Plated Silver Nickel	12V AC / 12V DC	1500 VA / 300 VA	I	39.41 12 V AC/DC	101.00
6	1 CO	250V AC	Gold-Plated Silver Nickel	24V AC / 24V DC	1500 VA / 300 VA		39.41 24 V AC/DC	101.00
6	1 CO	250V AC	Gold-Plated Silver Nickel	6V AC / 6V DC	1500 VA / 300 VA	I	39.41 6 V AC/DC	101.00

39 Master Output Series

In applications where a single contact closure is required, the Master Output can connect directly to the interface without the need for additional terminals, thus saving space in the panel. Master Output is suitable for interfacing between PLC outputs and relays, motors and solenoids.



39.21 24 V AC/DC

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
6	1 NO	250V AC	Silver Nickel (AgNi)	24V AC / 24V DC	1500 VA / 300 VA		39.21 24 V AC/DC	72.00

39 Master Plus Series

Master Plus has the same features as Master Basic, and in addition allows an extra protection to the output circuit, thanks to its replaceable fuse. The main use is to protect the relay output against any accidental overcurrent or short circuit. Replacement of fuses (5x20 mm) is made possible thanks to the pull-out accessory.

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
6	1 CO	250V AC	Silver Nickel (AgNi)	12V AC / 12V DC	1500 VA / 300 VA	I	39.31.12 V AC/DC	96.00
6	1 CO	250V AC	Silver Nickel (AgNi)	24V AC / 24V DC	1500 VA / 300 VA	I	39.31.24 V AC/DC	96.00
6	1 CO	250V AC	Silver Nickel (AgNi)	125V AC	1500 VA / 300 VA	I	39.31.125 V AC LCS	102.00
6	1 CO	250V AC	Silver Nickel (AgNi)	230V AC	1500 VA / 300 VA	I	39.31.230 V AC LCS	102.00

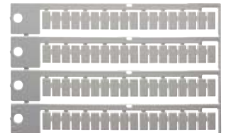


39.31.24 V AC/DC

39 Series Common Accessories

Accessories include jumpers, identification tags, fuse modules and adaptor modules for quick connection of multiple relays. The Master adapter interface module (093.68.14.1) and cable (093CABLE) allows for easy connection of A1/A2 terminals of up to 8 Master interface relays to PLC outputs via an open ended, numbered ribbon cable. This provides an easy means to connect interposing relays to your PLC outputs for an added measure of protection.

Item Description	Item Type	Catalogue No.	\$AU
Plastic Separator		09360	5.10
16 Way Jumper Link Blue		09316	16.00
16 Way Jumper Link Black		093160	16.00
16 Way Jumper Link Red		093161	16.00
Output Fuse Module		09363	20.00
Jumper Link 20 Way Suits 38.5		09320	22.00
Sheet Of 72 Marker Tags 6X12mm		060.72	60.00
Interface Adapter 8 Pole	I	09368141	118.00
Cable Master Adapter PLC Relay Interface 14 Pin to Open AWG26	I	093 CABLE	363.00



060.72

PCB and Miniature Relays

PCB and miniature relays provide a compact switching option, without compromising quality or switching capacity. These can be used individually or as replacement relays for the relay interface modules.

34 Series Plug-In Relay - 1 C/O

The 34 Series is an ultra-slim relay module capable of PCB mount or plugging into the 39 series interface relays.

Relays

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
6	1 CO	250V AC	Silver Nickel (AgNi)	24V DC	1500 / 300		34.51 24 V DC	61.00
6	1 CO	250V AC	Silver Nickel (AgNi)	12V DC	1500 / 300		34.51 12 V DC	61.00
6	1 CO	250V AC	Silver Nickel (AgNi)	60V DC	1500 / 300		34.51 60 V DC	61.00



34.51 60 V DC

40/44 Series Miniature PCB Relays

The 40/44 series are miniature industrial relays suitable for PCB or base mount in different pin-spacing configurations.

4031 Relays - 3.5mm Pinning - 1 C/O

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
10	1 CO	250V AC	Silver Nickel (AgNi)	24V DC	2500 / 500		40.31.0001 24 V DC	37.00
10	1 CO	250V AC	Silver Nickel (AgNi)	240V AC	2500 / 500		40.31 240 V AC	51.00



40.31.0001 24 V DC



40.51.5000 12 V DC

4051 Relays - 5mm Pinning - 1 C/O

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
10	1 CO	250V AC	Silver Nickel (AgNi)	12V DC	2500 / 500		40.51 12 V DC	21.00
10	1 CO	250V AC	Silver Nickel (AgNi)	24V DC	2500 / 500		40.51 24 V DC	21.00
10	1 CO	250V AC	Silver Nickel (AgNi)	6V DC	2500 / 500	I	40.51 6 V DC	21.00
10	1 CO	250V AC	Silver Nickel (AgNi)	24V AC	2500 / 500		40.51 24 V AC	26.00
10	1 CO	250V AC	Gold-Plated Silver Nickel	12V DC	2500 / 500	I	40.51.5000 12 V DC	32.00
10	1 CO	250V AC	Gold-Plated Silver Nickel	24V DC	2500 / 500	I	40.51.5000 24 V DC	32.00
10	1 CO	250V AC	Silver Nickel (AgNi)	240V AC	2500 / 500		40.51 240 V AC	50.00



40.52 240 V AC

4052 Relays - 5mm Pinning - 2 C/O

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
8	2 CO	250V AC	Silver Nickel (AgNi)	24V DC	2000 / 750		40.52 24 V DC	23.00
8	2 CO	250V AC	Silver Nickel (AgNi)	24V AC	2000 / 750		40.52 24 V AC	27.00
8	2 CO	250V AC	Silver Nickel (AgNi)	110V DC	2000 / 750	I	40.52 110 V DC	23.00
8	2 CO	250V AC	Silver Nickel (AgNi)	12V DC	2000 / 750		40.52 12 V DC	23.00
8	2 CO	250V AC	Silver Nickel (AgNi)	48V DC	2000 / 750		40.52 48 V DC	23.00
8	2 CO	250V AC	Silver Nickel (AgNi)	6V DC	2000 / 750	I	40.52 6 V DC	23.00
8	2 CO	250V AC	Silver Nickel (AgNi)	110V AC	2000 / 750		40.52 110 V AC	27.00
8	2 CO	250V AC	Silver Nickel (AgNi)	12V AC	2000 / 750		40.52 12 V AC	27.00
8	2 CO	250V AC	Silver Nickel (AgNi)	48V AC	2000 / 750	I	40.52 48 V AC	27.00
8	2 CO	250V AC	Silver Nickel (AgNi)	240V AC	2000 / 750		40.52 240 V AC	52.00



40.61 12 V DC

4061 Relays - 5mm Pinning - 1 C/O

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
16	1 CO	250V AC	Silver Cadmium Oxide (AgCdO)	12V DC	4000 / 750		40.61 12 V DC	28.00
16	1 CO	250V AC	Silver Cadmium Oxide (AgCdO)	24V DC	4000 / 750		40.61 24 V DC	28.00
16	1 CO	250V AC	Silver Tin Oxide (AgSnO2)	240V AC	4000 / 750		40.61 240 V AC	29.00



406248VDC

4062 Relays - 5mm Pinning - 2 C/O

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
10	2 CO	250V AC	Silver Nickel (AgNi)	12V DC	2500 / 750		4062912VDC	29.00
10	2 CO	250V AC	Silver Nickel (AgNi)	24V DC	2500 / 750		4062924VDC	29.00
10	2 CO	250V AC	Silver Nickel (AgNi)	110V DC	2500 / 750	I	4062110VDC	33.00
10	2 CO	250V AC	Silver Nickel (AgNi)	24V DC	2500 / 750	I	406248VDC	33.00

Bases For 4031/4051/4052/4061/4152/4462

Item Description	Item Type	Catalogue No.	\$AU
Base For 40/44 Relays w/Metal Clip		95.15	9.95
Socket For 40/44 Relay + Led Module		95.75	28.00
Base for 4031 Relay / 9902 LED	I	9503	29.00
Base For 40/44 Relays Box Clamp w/Plastic Clip		95.05	33.00
Base For 40/44 Relays Box Clamp w/Plastic Clip		95.85	39.00



95.75

Jumper Links

Item Description	Item Type	Catalogue No.	\$AU
Jumper Link For 9505/9701/9702 Base 8 Way		95.18	13.00
Jumper Link For 9575/9585 Bases 8 Way		95.08	14.00



95.18

46 Series Miniature Industrial Relays

The 46 series are miniature industrial relays suitable for socket, PCB or Faston mount.

4652 Relays - 2 C/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
8	2000 / 350	250V AC	Silver Nickel (AgNi)	24V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		46.52.0074 24 V DC	32.00
8	2000 / 350	250V AC	Silver Nickel (AgNi)	24V AC	LED (AC); Lockable test button; Mechanical Indicator		46.52.0054 24 V AC	35.00
8	2000 / 350	250V AC	Silver Nickel (AgNi)	240V AC	LED (AC); Lockable test button; Mechanical Indicator		46.52.0054 240 V AC	35.00
8	2000 / 350	250V AC	Silver Nickel (AgNi)	110V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		46.52.0074 110 V DC	29.00
8	2000 / 350	250V AC	Silver Nickel (AgNi)	12V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		46.52.0074 12 V DC	32.00
8	2000 / 350	250V AC	Silver Nickel (AgNi)	48V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		46.52.0074 48 V DC	32.00
8	2000 / 350	250V AC	Silver Nickel (AgNi)	110V AC	LED (AC); Lockable test button; Mechanical Indicator		46.52.0054 110 V AC	35.00
8	2000 / 350	250V AC	Silver Nickel (AgNi)	12V AC	LED (AC); Lockable test button; Mechanical Indicator		46.52.0054 12 V AC	35.00
8	2000 / 350	250V AC	Silver Nickel (AgNi)	48V AC	LED (AC); Lockable test button; Mechanical Indicator		46.52.0054 48 V AC	35.00



46.52.0074 12 V DC

4661 Relays - 1 C/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
16	4000 / 750	250V AC	Silver Nickel (AgNi)	24V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		46.61.0074 24 V DC	27.00
16	4000 / 750	250V AC	Silver Nickel (AgNi)	24V AC	LED (AC); Lockable test button; Mechanical Indicator		46.61.0054 24 V AC	32.00
16	4000 / 750	250V AC	Silver Nickel (AgNi)	240V AC	LED (AC); Lockable test button; Mechanical Indicator		46.61.0054 240 V AC	52.00
16	4000 / 750	250V AC	Silver Nickel (AgNi)	110V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator	I	46.61.0074 110 V DC	27.00
16	4000 / 750	250V AC	Silver Nickel (AgNi)	12V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		46.61.0074 12 V DC	27.00
16	4000 / 750	250V AC	Silver Nickel (AgNi)	48V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		46.61.0074 48 V DC	27.00
16	4000 / 750	250V AC	Silver Nickel (AgNi)	110V AC	LED (AC); Lockable test button; Mechanical Indicator		46.61.0054 110 V AC	32.00
16	4000 / 750	250V AC	Silver Nickel (AgNi)	12V AC	LED (AC); Lockable test button; Mechanical Indicator		46.61.0054 12 V AC	32.00



46.61.0074 12 V DC



97.01

Bases for 4652/4661

Item Description	Item Type	Catalogue No.	\$AU
Base For 4661 Relay Box Clamp w/Plastic Clip		97.01	23.00
Base For 4652 Relay Box Clamp w/Plastic Clip		97.02	29.00

General Purpose Industrial & Power Relays

The Finder range of general purpose industrial and power relays are suited for a range of industrial applications including switching heavy current loads with certain power relay models. The range is available in a variety of amp ratings, coil voltages, output contacts and connection configurations.

55 Series Mini General Purpose Relays

The 55 series is the general, all-purpose relay with plug-in mount, and is suitable for various applications.

- Lockable test button and mechanical flag indicator as standard on 2 and 4 pole types
- AC coils and DC coils
- Cadmium Free contacts (preferred version)
- 94 series sockets
- Coil EMC suppression
- Timer accessories 86 series



55.32.0054 12 V AC

5532 Relays - 2 C/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
10	2500 / 500	250V AC	Silver Nickel (AgNi)	12V AC	LED (AC); Lockable test button; Mechanical Indicator		55.32.0054 12 V AC	36.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	12V DC	Double LED (DC non-polarized); Lockable test button		55.32.0074 12 V DC	36.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	24V DC	Lockable test button; Mechanical Indicator		55.32.0040 24 V DC	36.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	24V AC	LED (AC); Lockable test button; Mechanical Indicator		55.32.0054 24 V AC	36.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	24V DC	Double LED (DC non-polarized); Lockable test button		55.32.0074 24 V DC	36.00
10	2500 / 500	250V AC	Gold-Plated Silver Nickel	24V DC	Double LED (DC non-polarized); Lockable test button		55.32.5074 24 V DC	64.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	32V AC	LED (AC); Lockable test button; Mechanical Indicator		55.32.0054 32 V AC	36.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	32V DC	Double LED (DC non-polarized); Lockable test button		55.32.0074 32 V DC	36.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	48V AC	LED (AC); Lockable test button; Mechanical Indicator		55.32.0054 48 V AC	36.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	48V DC	Double LED (DC non-polarized); Lockable test button		55.32.0074 48 V DC	36.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	110V AC	LED (AC); Lockable test button; Mechanical Indicator		55.32.0054 110 V AC	36.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	110V DC	Double LED (DC non-polarized); Lockable test button		55.32.0074 110 V DC	36.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	240V AC	LED (AC); Lockable test button; Mechanical Indicator		55.32.0054 240 V AC	36.00

5534 Relays - 4 C/O

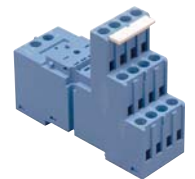
In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
7	1750 / 350	250V AC	Silver Nickel (AgNi)	12V AC	LED (AC);Lockable test button;Mechanical Indicator		55.34.0054 12 V AC	49.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	12V DC	Double LED (DC non-polarized);Lockable test button;Mechanical Indicator		55.34.0074 12 V DC	49.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	24V DC	Lockable test button;Mechanical Indicator		55.34.0040 24 V DC	49.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	24V AC	LED (AC);Lockable test button;Mechanical Indicator		55.34.0054 24 V AC	49.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	24V DC	Double LED (DC non-polarized);Lockable test button;Mechanical Indicator		55.34.0074 24 V DC	49.00
7	1750 / 350	250V AC	Gold-Plated Silver Nickel	24V DC	Double LED (DC non-polarized);Lockable test button;Mechanical Indicator		55.34.5074 24 V DC	72.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	32V DC	Double LED (DC non-polarized);Lockable test button;Mechanical Indicator		55.34.0074 32 V DC	48.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	32V AC	LED (AC);Lockable test button;Mechanical Indicator		55.34.0054 32 V AC	49.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	48V AC	LED (AC);Lockable test button;Mechanical Indicator		55.34.0054 48 V AC	49.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	48V DC	Double LED (DC non-polarized);Lockable test button;Mechanical Indicator		55.34.0074 48 V DC	49.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	110V AC	LED (AC);Lockable test button;Mechanical Indicator		55.34.0054 110 V AC	49.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	110V DC	Double LED (DC non-polarized);Lockable test button;Mechanical Indicator		55.34.0074 110 V DC	49.00
7	1750 / 350	250V AC	Silver Nickel (AgNi)	240V AC	LED (AC);Lockable test button;Mechanical Indicator		55.34.0054 240 V AC	49.00
7	1750 / 350	250V AC	Gold-Plated Silver Nickel	240V AC	LED (AC);Lockable test button;Mechanical Indicator		55.34.5054.240 V AC	80.00



55.34.0074 32 V DC

Bases for 5532/34

Item Description	Item Type	Catalogue No.	\$AU
Base for 5532 Relay/9902 LED		94.02	23.00
Base for 5534 Relay/9902 LED		94.04	29.00
Base for 5533 Relay/9902 LED		9403	32.00



94.02

Jumper Links

Item Description	Item Type	Catalogue No.	\$AU
Jumper Link for 9402/9404 Bases, 6 Way		09406	13.00



09406

56 Series Mini Square Base Relays

The 56 series is the general, all-purpose relay with plug-in/Faston connection, and is suitable for a variety of applications.

5632 Relays - 2 C/O



5632.0074 12 V DC

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
12	3000 / 700	250V AC	Silver Nickel (AgNi)	12V AC	LED (AC); Lockable test button; Mechanical Indicator		56.32.0054 12 V AC	53.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	12V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		56.32.0074 12 V DC	53.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	24V AC	LED (AC); Lockable test button; Mechanical Indicator		56.32.0054 24 V AC	53.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	24V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		56.32.0074 24 V DC	53.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	48V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		56.32.0074 48 V DC	53.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	110V AC	LED (AC); Lockable test button; Mechanical Indicator		56.32.0054 110 V AC	53.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	110V DC	Double LED (DC non-polarized); Lockable test button; Mechanical Indicator		56.32.0074 110VDC	53.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	240V AC	LED (AC); Lockable test button; Mechanical Indicator		56.32.0054 240 V AC	53.00

5634 Relays - 4 C/O



56.34 12 V DC

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
12	3000 / 700	250V AC	Silver Nickel (AgNi)	12V DC	None		56.34 12 V DC	102.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	24V AC	None		56.34 24 V AC	102.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	24V DC	None		56.34 24 V DC	102.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	110V AC	None		56.34 110 V AC	102.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	110V DC	None		56.34 110 V DC	102.00
12	3000 / 700	250V AC	Silver Nickel (AgNi)	240V AC	None		56.34 240 V AC	102.00

Bases for 5632/5634



96.04

Item Description	Item Type	Catalogue No.	\$AU
Base for 5632/9901 LED Relay Box Clamp with Metal Clip		96.02	32.00
Base for 5634/9901 LED Relay Box Clamp with Metal Clip		96.04	37.00

60 Series Square Base Relays

The 60 series is the general, all purpose relay with 8/11 pin plug-in mount, and is suitable for a variety of applications.

6012 Relays - 2 C/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
10	2500 / 500	250V AC	Silver Nickel (AgNi)	12V DC	Lockable test button; Mechanical Indicator		60.12 12 V DC RLY	84.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	24V AC	Lockable test button; Mechanical Indicator		60.12 24 V AC RLY	84.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	24V DC	Lockable test button; Mechanical Indicator		60.12 24 V DC RLY	84.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	32V AC	Lockable test button; Mechanical Indicator		60.12 32 V AC RLY	84.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	48V DC	Lockable test button; Mechanical Indicator	I	60.12 48 V DC RLY	84.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	110V AC	Lockable test button; Mechanical Indicator		60.12 110 V AC RLY	84.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	110V DC	Lockable test button; Mechanical Indicator		60.12 110 V DC RLY	84.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	240V AC	Lockable test button; Mechanical Indicator		60.12 240 V AC RLY	84.00



60.12 24 V AC RLY

6013 Relays - 3 C/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Item Type	Catalogue No.	\$AU
10	2500 / 500	250V AC	Silver Nickel (AgNi)	12V DC		60.13 12 V DC RLY	90.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	24V AC		60.13 24 V AC RLY	90.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	24V DC		60.13 24 V DC RLY	90.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	48V DC		60.13 48 V DC RLY	90.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	110V AC		60.13 110 V AC RLY	90.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	110V DC		60.13 110 V DC RLY	90.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	240V AC		60.13 240 V AC RLY	90.00



60.13 110 V AC RLY

Bases For 6012/6013

Item Description	Item Type	Catalogue No.	\$AU
Base For 6012 Relay Rear Connection Solder	I	90.12	11.00
Base For 6013 Relay Rear Connection Solder	I	90.13	11.00
Base for 6012 Relay/9902 LED Modules with Metal Clip		90.02	35.00
Base for 6013 Relay with Metal Clip		90.03	45.00



90.12

62 Series Plug-in Power Relays

The 62 series is for medium power applications in Faston or flange mount.

6232 Relays - 2 C/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	24V AC	Lockable test button; Mechanical Indicator		62.32 24 V AC	75.00
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	24V DC	Lockable test button; Mechanical Indicator		62.32 24 V DC	80.00
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	110V AC	Lockable test button; Mechanical Indicator	I	62.32 110 V AC	75.00
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	240V AC	Lockable test button; Mechanical Indicator		62.32 240 V AC	75.00



62.32 240 V AC



62.33 12 V DC

6233 Relays - 3 C/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	12V DC	Lockable test button; Mechanical Indicator		62.33 12 V DC	84.00
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	24V AC	Lockable test button; Mechanical Indicator		62.33 24 V AC	84.00
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	24V DC	Lockable test button; Mechanical Indicator		62.33 24 V DC	84.00
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	48V DC	Lockable test button; Mechanical Indicator	I	62.33 48 V DC	84.00
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	110V AC	Lockable test button; Mechanical Indicator		62.33 110 V AC	84.00
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	240V AC	Lockable test button; Mechanical Indicator		62.33 240 V AC	84.00



62.82.0008 240 V AC

6282 Relays - 2 C/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
16	4000 / 750	250V AC	Silver Cadmium Oxide (AgCdO)	240V AC	None	K	62.82.0008 240 V AC	82.00

6283 Relays - 3 C/O - Faston terminations

In (A)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
16	250V AC	Silver Cadmium Oxide (AgCdO)	240V AC	None	K	62.83.0008 240 V AC	92.00



62.83.0008 240 V AC

Bases for 6232/6233

Item Description	Item Type	Catalogue No.	\$AU
Base for 6232/33 Relay		92.03	40.00



92.03

Mounting Brackets

Item Description	Item Type	Catalogue No.	\$AU
Mounting Bracket For 62 Series		06208	6.80



06208

65 Series Power Relays

The 65 Series is for high power applications in Faston or flange mount.

6531 Relays - 1 N/O 1 N/C

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
20	1 NO + 1 NC EB 1st Contact	250V AC	Silver Cadmium Oxide (AgCdO)	12V DC	5000 / 1000		65.31 12 V DC	121.00
20	1 NO + 1 NC EB 1st Contact	250V AC	Silver Cadmium Oxide (AgCdO)	24V AC	5000 / 1000		65.31 24 V AC	121.00
20	1 NO + 1 NC EB 1st Contact	250V AC	Silver Cadmium Oxide (AgCdO)	24V DC	5000 / 1000	I	65.31 24 V DC	121.00
20	1 NO + 1 NC EB 1st Contact	250V AC	Silver Cadmium Oxide (AgCdO)	240V AC	5000 / 1000		65.31 240 V AC	121.00



65.31 240 V AC

6531M Relays - 1 N/O

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
20	1 NO	250V AC	Silver Cadmium Oxide (AgCdO)	24V AC	5000 / 1000		65.31M 24 V AC	101.00
20	1 NO	250V AC	Silver Cadmium Oxide (AgCdO)	240V AC	5000 / 1000		65.31M 240 V AC	101.00



65.31M 240 V AC

22 Series Monostable Relays and Modular Contactors

The 22 series includes modular mono-stable relays with test button as well as modular contactors for heavier switching; both available in a DIN style profile.

2222 and 2223 Monostable Relays

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
20	1 NO + 1 NC EB 1st Contact	250V AC	Silver Tin Oxide (AgSnO2)	24V DC	None		22.23.24 V DC	103.00
20	2 NO	250V AC	Silver Tin Oxide (AgSnO2)	24V DC	None		22.22.24 V DC	192.00



22.22.24 V DC

2232 Modular Contactors - 2 N/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
25	6250 / 10	250V AC	Silver Tin Oxide (AgSnO2)	12V AC / 12V DC	Auto-On-Off selector; LED;- Mechanical Indicator		22.32.4.340 12 V AC/DC	135.00
25	6250 / 10	250V AC	Silver Tin Oxide (AgSnO2)	24V AC / 24V DC	Auto-On-Off selector; LED;- Mechanical Indicator		22.32.4.340 24 V AC/DC	135.00
25	6250 / 10	250V AC	Silver Tin Oxide (AgSnO2)	230V AC / 230V DC	Auto-On-Off selector; LED;- Mechanical Indicator		22.32.4.340 230 V AC/DC	135.00



22.32.4.340 12 V AC/DC

2234 Modular Contactors - 4 N/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
25	6250 / 1800	250V AC	Silver Tin Oxide (AgSnO2)	12V AC / 12V DC	Auto-On-Off selector; LED;- Mechanical Indicator		22.34.4.340 12 V AC/DC	180.00
25	6250 / 1800	250V AC	Silver Tin Oxide (AgSnO2)	24V AC / 24V DC	Auto-On-Off selector; LED;- Mechanical Indicator		22.34.4.340 24 V AC/DC	180.00
25	6250 / 1800	250V AC	Silver Tin Oxide (AgSnO2)	230V AC / 230V DC	Auto-On-Off selector; LED;- Mechanical Indicator		22.34.4.340 230 V AC/DC	180.00



22.34.4.340 12 V AC/DC

Step Relays

Step relays are available in two types with choice dependent upon the mounting requirements of your application. These both provide the functionality of changing and maintaining output, with each pulsed output. These are also known as a Flip Flop relay.

20 Series Modular Step Relays

20 series modular step relays provide a choice of different switching sequences and configurations in a DIN mount profile.

2022 Relays - 2 N/O



20.22.24 V DC

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
16	4000 / 750	250V AC	Silver Nickel (AgNi)	12V DC	4000 / 750		20.22.12 V DC	172.00
16	4000 / 750	250V AC	Silver Nickel (AgNi)	24V DC	4000 / 750		20.22.24 V DC	172.00
16	4000 / 750	250V AC	Silver Nickel (AgNi)	240V AC	4000 / 750		20.22 240 V AC	185.00
16	4000 / 750	250V AC	Silver Nickel (AgNi)	24V AC	4000 / 750		20.22 24 V AC	185.00

2023 Relays - 1 N/O 1 N/C



20.23.12 V DC

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
16	1 NO + 1 NC EB 1st Contact	250V AC	Silver Nickel (AgNi)	12V DC	4000 / 750		20.23.12 V DC	169.00
16	1 NO + 1 NC EB 1st Contact	250V AC	Silver Nickel (AgNi)	24V DC	4000 / 750		20.23.24 V DC	169.00
16	1 NO + 1 NC EB 1st Contact	250V AC	Silver Nickel (AgNi)	110V AC	4000 / 750		20.23 110 V AC	185.00
16	1 NO + 1 NC EB 1st Contact	250V AC	Silver Nickel (AgNi)	240V AC	4000 / 750		20.23 240 V AC	185.00
16	1 NO + 1 NC EB 1st Contact	250V AC	Silver Nickel (AgNi)	24V AC	4000 / 750		20.23 24 V AC	185.00

26 Series Step Relays

26 series step relays provide a choice of different switching sequences and configurations in Panel mount profile.

2601 Relays - 1 N/O



26.01 240 V AC

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
10	2500 / 500	250V AC	Silver Nickel (AgNi)	230V AC	2500 / 500		26.01 240 V AC	103.00
10	2500 / 500	250V AC	Silver Nickel (AgNi)	24V AC	2500 / 500		26.01 24 V AC	103.00

2602 Relays - 2 N/O



26.02 240 V AC

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
10	2500 / 500	250V AC	Silver Nickel (AgNi)	240V AC	2500 / 500		26.02 240 V AC	116.00

2603 Relays - 1 N/O 1 N/C



26.03 240 V AC

In (A)	Contacts	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
10	1 NO + 1 NC EB 1st Contact	250V AC	Silver Nickel (AgNi)	240V AC	2500 / 500		26.03 240 V AC	116.00
10	1 NO + 1 NC EB 1st Contact	250V AC	Silver Nickel (AgNi)	24V AC	2500 / 500		26.03 24 V AC	116.00

Safety Relays

Safety relays are available as PCB mount or DIN rail mount. Forcibly guided contacts are standard as per EN 50205. Output contacts are available in a variety of sizes and configurations to suit any application.

50 Series Safety Relays

The 50 series safety relays are in a compact PCB package with high physical separation between adjacent contacts and forcibly guided contacts as per EN50205 Type B. The base to suit is 9505.

5012 Relays - 2 C/O

In (A)	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)	Contacts (material)	Coil (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Item Type	Catalogue No.	\$AU
8	2000 / 500	250V AC	Silver Nickel (AgNi)	24V DC	2000 / 500		50.12.9.024.1000	48.00
8	2000 / 500	250V AC	Gold-Plated Silver Nickel	24V DC	2000 / 500		50.12.9.024.5000	68.00



50.12.9.024.1000

Plug-In Modules for Interface / Power / PCB and Miniature Relays

Suppression modules are intended to reduce the back-EMF (negative voltage spike) generated by the switching-off of the relay's inductive coil, while the LED modules provide a quick and easy method of checking power status. Also available are plug-in timing modules which turn your regular relay into a timing relay. These modules can be fitted to all bases listed above for the Interface / Power / PCB and Miniature Relays. Descriptions of the base will indicate correct combination of modules and bases.

LED Module

Item Description	Item Type	Catalogue No.	\$AU
Green Led Module 6-24V AC/DC, compatible with sockets 90/92/94/95/96/97		99.02.0.024	16.00
Green Led Module 28-60V AC/DC, compatible with sockets 90/92/94/95/96/97		99.02.0.060	16.00
Green Led Module 110-240V AC/DC, compatible with sockets 90/92/94/95/96/97		99.02.0.240	16.00



99.02.0.024

LED and Diode (Standard Polarity) Module

Item Description	Item Type	Catalogue No.	\$AU
Green Led + Diode Module Standard Polarity 6-24V DC, compatible with sockets 90/92/94/95/96/97		99.02.9.024	21.00
Green Led + Diode Module Standard Polarity 28-60V DC, compatible with sockets 90/92/94/95/96/97		99.02.9.060	21.00



99.02.9.060

LED and Varistor Module

Item Description	Item Type	Catalogue No.	\$AU
Green Led + Varistor Module 6-24 AC/DC, compatible with sockets 90/92/94/95/96/97		99.02.0.2498	13.00
Green Led + Varistor Module 110-240V AC/DC, compatible with sockets 90/92/94/95/96/97		99.02.0.230.98	20.00



99.02.0.2498

Diode (Standard Polarity) Module

Item Description	Item Type	Catalogue No.	\$AU
Diode Module Standard Polarity 6-220V DC, compatible with sockets 90/92/94/95/96/97		99.02.3.000	9.80



99.02.3.000



86.30 24 V AC/DC

Timing Module

Item Description	Item Type	Catalogue No.	\$AU
Bifunction Timer Module 12-24V AC/DC		86.30 24 V AC/DC	123.00
Bifunction Timer Module 240V AC		86.30 240 V AC	154.00
Multifunction Timer Module Suits 9002 9003 9203 9604 Bases	I	8600	304.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Electromechanical Relays

Allen-Bradley Electromechanical Relays

700-HL Slim Terminal Block Interface Relay - 1 N/O
700-HB General Purpose Relays
700-HC Miniature Square Base With Blade Relays
700-HF Square Base Relay
700-HK Miniature Relays
700-HP Miniature PCB Pin-Style Relays
Accessories

Page 773
Page 774
Page 774
Page 774
Page 774
Page 775
Page 775

- Tested to a range of international standards to ensure compliance and reliability in application
- Wide range of relays that provides reliable design, quick replacements and panel space-saving solutions
- Various types of relays in the range which cover application requirements from PLC switching to high current loads

There are a broad range of Allen-Bradley relays available that are designed, manufactured and tested to meet the most demanding worldwide standards and ratings. These incorporate reliable designs, quick replacements and panel space-saving solutions for common relay control applications.



700-HL Slim Terminal Block Interface Relay - 1 N/O

700-HL slim terminal block relays work in a variety of high-density isolation and interposing applications. The thin per-pole interface (6.2mm wide) and quick connections help reduce installation costs.

700-HLT1/2 Relays - SPDT

In (A)	Rated Load (VA, AC-1 / AC-15)	Contacts (material)	Coil Voltage, Nom, AC/DC (V AC / V DC)	Item Type	Catalogue No.	\$AU
6	1500 / 300	Silver Tin Oxide (AgSnO2)	24V DC		700-HLT1Z24	43.80
6	1500 / 300	Gold-Plated Silver Tin Oxide	24V DC		700-HLT1Z24X	49.45
6	1500 / 300	Silver Tin Oxide (AgSnO2)	110V AC / 125V DC	I	700-HLT1U1	52.47
6	1500 / 300	Silver Tin Oxide (AgSnO2)	24V AC / 24V DC		700-HLT1U24	52.47
6	1500 / 300	Silver Tin Oxide (AgSnO2)	240V AC / 240V DC		700-HLT1U2	55.35
6	1500 / 300	Silver Tin Oxide (AgSnO2)	240V AC /		700-HLT1L2	85.21



700-HLT1Z24

700-HLT12/22 Relays - DPDT

In (A)	Rated Load (VA, AC-1 / AC-15)	Contacts (material)	Coil Voltage, Nom, AC/DC (V AC / V DC)	Item Type	Catalogue No.	\$AU
10	2500 / 690	Silver Tin Oxide (AgSnO2)	24V DC		700-HLT12Z24	54.39



700-HLT12Z24

Replacement Relay

In (A)	Contacts	Contacts (material)	Coil Voltage, Nom, AC/DC (V AC / V DC)	Item Type	Catalogue No.	\$AU
6	1 CO	Silver Nickel (AgNi)	24V AC / 24V DC		700-TBR24	25.84
6	2 CO	Silver Nickel (AgNi)	24V AC / 24V DC		700-TBR224	29.42
6	1 CO	Silver Nickel (AgNi)	240V AC /		700-TBR60	32.66



700-TBR24

700-HB General Purpose Relays

700-HB square base relays are general purpose relays that are also suitable for the HVAC, elevator, and automotive industry applications.

700-HB33 Relays - 3PDT

Note: Rated Load 3750(AC-1)/750(AC-15) VA



700-HB33Z24

In (A)	Contacts	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
15	3 CO	Silver Cadmium Oxide (AgCdO)	24V DC	Pilot Light		700-HB33Z24	43.90

700-HC Miniature Square Base With Blade Relays

700-HC miniature square base plug-in relays are ideal for use in low-energy switching applications

700-HC14 Relays - 4PDT

Note: Rated Load 1750(AC-1)/350(AC-15) VA



700-HC14Z24

In (A)	Contacts	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
7	4 CO	Gold-Plated Silver Nickel	24V DC	Pilot Light		700-HC14Z24	26.45
7	4 CO	Gold-Plated Silver Nickel	240V AC /	None	I	700-HC14A2	30.45
7	4 CO	Gold-Plated Silver Nickel	24V AC /	Pilot Light	I	700-HC14A2-4L	36.60

700-HC24 Relays - 4PDT

Note: Rated Load 1750(AC-1)/350(AC-15) VA



700-HC24Z24

In (A)	Contacts	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
7	4 CO	Silver Nickel (AgNi)	24V DC	Pilot Light		700-HC24Z24	23.41
7	4 CO	Silver Nickel (AgNi)	24V DC	Pilot Light;Push-To-Test & Manual Override function		700-HC24Z24-3-4	32.52
7	4 CO	Silver Nickel (AgNi)	24V AC /	Pilot Light	I	700-HC24A2-4L	33.55
7	4 CO	Silver Nickel (AgNi)	240V AC /	Pilot Light;Push-To-Test & Manual Override function	I	700-HC24A2-3-4L	36.54

700-HF Square Base Relay

700-HF miniature square base relays are general purpose relays in 2 C/O or 4 C/O that are also ideal for automotive applications.

700-HF32 Relays - DPDT

Note: Rated Load 3000(AC-1)/700(AC-15) VA



700-HF32Z24

In (A)	Contacts	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
12	2 CO	Silver Cadmium Oxide (AgCdO)	24V DC		I	700-HF32Z24	28.79
12	2 CO	Silver Cadmium Oxide (AgCdO)	12V DC	Pilot Light		700-HF32Z12-4	39.12
12	2 CO	Silver Cadmium Oxide (AgCdO)	24V DC	Pilot Light		700-HF32Z24-4	39.12

700-HK Miniature Relays

700-HK miniature relays are ideal for a variety of applications in tight spaces without sacrificing switching performance.

700-HK32 Relays - DPDT

Note: Rated Load 2000(AC-1)/350(AC-15) VA



700-HK32Z24

In (A)	Contacts	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
8	2 CO	Silver Nickel (AgNi)	24V DC			700-HK32Z24	16.24
8	2 CO	Silver Nickel (AgNi)	24V AC /	Pilot Light	I	700-HK32A24	18.94
8	2 CO	Silver Nickel (AgNi)	24V DC	Pilot Light		700-HK32Z24-4	23.57
8	2 CO	Silver Nickel (AgNi)	24V DC	Pilot Light;Push-To-Test & Manual Override function		700-HK32Z24-3-4	25.72
8	2 CO	Silver Nickel (AgNi)	24V AC /	Pilot Light		700-HK32A24-4	26.28
8	2 CO	Silver Nickel (AgNi)	240V AC /	None	I	700-HK32A2	27.72
8	2 CO	Silver Nickel (AgNi)	240V AC /	Pilot Light		700-HK32A2-4L	35.06

700-HK36 Relays - SPDT

Note: Rated Load 4000(AC-1)/750(AC-15) VA

In (A)	Contacts	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
16	1 CO	Silver Nickel (AgNi)	24V DC	Pilot Light		700-HK36Z24	13.10
16	1 CO	Silver Nickel (AgNi)	24V AC /	Pilot Light	I	700-HK36A24	17.52
16	1 CO	Silver Nickel (AgNi)	12V DC	Pilot Light		700-HK36Z12-4	20.41
16	1 CO	Silver Nickel (AgNi)	24V DC	Pilot Light		700-HK36Z24-4	20.41
16	1 CO	Silver Nickel (AgNi)	24V DC	Pilot Light; Push-To-Test & Manual Override function		700-HK36Z24-3-4	22.59
16	1 CO	Silver Nickel (AgNi)	24V AC /	Pilot Light		700-HK36A24-4	24.85
16	1 CO	Silver Nickel (AgNi)	240V AC /	Pilot Light		700-HK36A2-4L	33.77



700-HK36Z24

700-HP Miniature PCB Pin-Style Relays

700-HP relays are general purpose relays with plug-in PIN-style printed circuit board (PCB) terminals.

700-HP32 Relays - DPDT

Note: Rated Load 2000(AC-1)/500(AC-15) VA

In (A)	Contacts	Contacts (material)	Coil (V AC / V DC)	Additional Features	Item Type	Catalogue No.	\$AU
8	2 CO	Silver Nickel (AgNi)	24V DC	Pilot Light		700-HP32Z24	20.60



700-HP32Z24

Accessories

Accessories include bases, retaining clips, jumper links, replacement relays, surge suppressors and timing modules.

Bases**5 Pin Base**

Item Description	Item Type	Catalogue No.	\$AU
Mini 5 Blade Base Socket, Screw Terminals, Guarded Touch Safe Terminal Construction, for use with Ultra-Slim Miniature Multi-Function Relays		700-HN121	13.63



700-HN121

8 Pin Base

Item Description	Item Type	Catalogue No.	\$AU
Tube Base Socket, 8 Pin, Screw Terminals, Guarded Touch Safe Terminal Construction, for use with General Purpose Tube Base Relay		700-HN100	8.48
Mini 8-Pin Screw Terminals Socket, Touch Safe Terminal Construction, Incorporates Coil and Contact, for use with General Purpose Tube Base Relay		700-HN123	13.88
Mini 8 Blade Base Socket, Screw Terminals, Open Terminal Construction, for use with General Purpose Tube Base Relay		700-HN116	14.37
Mini 8 Blade Base Socket, Screw Terminals, Guarded Touch Safe Terminal Construction, for use with General Purpose Tube Base Relay		700-HN122	15.12



700-HN100

11 Pin Base

Item Description	Item Type	Catalogue No.	\$AU
Tube Base Socket, 11 Pin, Screw Terminals, Guarded Touch Safe Terminal Construction, for use with General Purpose Square Base Relay		700-HN101	10.05



700-HN101



700-HN104

14 Pin Base

Item Description	Item Type	Catalogue No.	\$AU
Mini 14 Blade Base Socket, Screw Terminals, Guarded Touch Safe Terminal Construction, for use with Miniature Multi-Function Relays		700-HN103	12.38
Mini 14-Blade Base Socket, Screw Terminals, Open Terminal Construction, for use with Miniature Multi-Function Relays		700-HN128	12.88
Mini 14 Blade Base Socket, Coil and Contact Separation, Option to Plug in Modules, Touch Safe Terminal Construction, for use with Miniature Multi-Function Relays		700-HN104	13.88



700-HN221

Bases to suit 700HK

Item Description	Item Type	Catalogue No.	\$AU
Screw Terminal Socket - Panel or DIN Rail Mounting 5-Blade miniature Socket with 16 A Rating for use with 1-pole, Touch Safe Terminal Construction		700-HN221	12.56
Screw Terminal Socket - Panel or DIN Rail Mounting 8-Blade miniature Socket with 8 A Rating for use with 2-pole, Touch Safe Terminal Construction		700-HN222	13.97

Retaining Clips

Item Description	Item Type	Catalogue No.	\$AU
Plastic Retainer and Ejection Lever		700-HN119	4.29

Jumper Links



700-TBJ20R

Item Description	Item Type	Catalogue No.	\$AU
Blue Jumper for 700-HN121, 700-HN122, 700-HN221, HN-222 Sockets		700-HN180B	4.29
Red Jumper for 700-HN121, 700-HN122, 700-HN221 or HN-222 Sockets		700-HN180R	4.29
Jumper Link, 20 Way, Blue		700-TBJ20B	8.93
Jumper Link, 20 Way, Grey		700-TBJ20G	8.93
Jumper Link, 20 Way, Red		700-TBJ20R	8.93

Surge Suppressors

For use with 700-HA, 700-HB, 700-HC, 700-HK, and 700-HP Relays



700-ADR

Item Description	Item Type	Catalogue No.	\$AU
Diode Surge Suppressor Module, 6.....220V DC		700-ADR	7.98
Diode with LED Surge Suppressor, 6.....24V DC		700-ADL1R	16.90

Miscellaneous



700-HN130

Item Description	Item Type	Catalogue No.	\$AU
Frame Adaptor for HR	I	700-HN130	25.60

Solid State Relays

Finder Solid State Relays

- Market leading design with a compact profile which helps to achieve a space saving solution for low amperage requirements
- International certifications and approvals including CE, CSA, EAC, PCT, RINA, VDE and RoHS, providing quality assurance of a market leading product
- Ideal for PLC interposing applications where a fast response time is required

The Finder Solid State Relays are ideally suited for interfacing applications which require high speed switching and longevity. The solid state relay's spark- and bounce-free switching characteristics ensure a long electrical life, of particular benefit in high-speed, repetitive applications and in domestic and office environments, where electrical interference needs to be kept to the absolute minimum.



34 Series Plug-in Relay

In (A)	Un (V DC)	Control Voltage (V DC)	Item Type	Catalogue No.	\$AU
2	24V DC	(16 - 30)		3481902424VDC	111.00



3481902424VDC

39 Series Interface Relays

Not just a pretty interface. The ultra-slim Finder solid state interface relay allows you to save time and space with a simple and versatile solution with LED indication and diode included. Ultra-slim (only 6.2mm) and perfectly suited for interfacing with PLC-controlled automated systems. You can also quick connect up to 8 relays with the master adapter module and cable! (as shown in the start of accessory section in electromechanical relays)

Master Plus Relays

Master Plus has the same features as Master Basic, and in addition allows an extra protection to the output circuit, thanks to its replaceable fuse. The main use is to protect the relay output against any accidental overcurrent or short circuit. Replacement of fuses (5x20 mm) is made possible thanks to the pull-out accessory.

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
2	24V DC	24 (19.2 - 26.4) / 24 (19.2 - 26.4)		39.30.9024 24V AC/DC	123.00
2	230V AC	/ 24 (19.2 - 26.4)		39.30.8240 24V DC	131.00



39.30.9024 24V AC/DC

Solid State Relays

Carlo Gavazzi Solid State Relays



- Includes direct copper bonding technology for increased life and reliability.
- Long life and noise-free switching makes them ideal replacements for mechanical contactors.
- Complete range of SSR's including with or without a built-in heatsink to suit your custom application requirements.

Carlo Gavazzi offers a comprehensive range of solid state relays (SSR's) featuring direct copper bonding technology for increased life and reliability. Long life and noise-free switching makes them ideal replacements for mechanical contactors, especially in high frequency switching applications. Ideal market segments that can be targeted with this range includes plastics, packaging, food processing and HVAC industries.

For applications in building services and variable control of heater banks the RJ1P Series is ideally suited. The output is proportional to the input which can be current (0-20mA) or voltage (0-10VDC) controlled, assisting in achieving BCA NCC Vol 1 Section J energy efficiency requirements.

Heatsink Selection Example

RM...25

Load current (A)	Thermal resistance (Kelvin/Watt)						Power dissipation (W)
25.0	B	B	C	C	C	C	28
22.5	A	B	B	C	C	C	24
20.0	A	A	B	B	C	C	21
17.5	A	A	A	B	B	C	18
15.0	-	A	A	A	B	C	15
12.5	-	-	A	A	A	B	12
10.0	-	-	-	-	A	B	9
7.5	-	-	-	-	-	A	7
5.0	-	-	-	-	-	-	4
2.5	-	-	-	-	-	-	2
	20	30	40	50	60	70	Ambient temp. (°C)

Heatsink thermal resistance chart

Heatsink	Reference
No heatsink required	-
RHS 100	A
RHS 45B	B
RHS 301	C
RHS 301 plus fan	D
No operation	X

Heatsink selection table



Heatsink sold separately

Solitron Solid State Contactors with Built-in Heatsink

The Solitron solid state contactors are the ideal range for industrial switching incorporating simplicity and ease of use. With a heatsink incorporated as standard, the concern of ensuring consistent torqued connections and application of thermal paste is no longer an issue.

RGC1A Series - Single-Phase Contactor Style

The RGC1A range of solid state contactors presents a unique opportunity to maximize efficiency in panel space and is an evolution of solid state switches. The nominal current ratings are at 40°C, the smallest width is 17.5mm and is rated at 20 AAC. Power and control terminals allow for safe looping of cables.

20A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
20	230V AC	(20 - 275) / (24 - 190)		RGC1A23A15KKE	167.00
20	230V AC	/ (3 - 32)		RGC1A23D15KKE	167.00



RGC1A23D15KKE

23A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
23	600V AC	(20 - 275) / (24 - 190)	I	RGC1A60A20KKE	236.00

30A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
30	230V AC	/ 24 (3 - 32)		RGC1A23D30KKE	256.00
30	230V AC	230 (20 - 275) / 125 (24 - 190)		RGC1A23A30KKE	305.00



RGC1A23D30KKE

40A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
40	230V AC	/ 24 (3 - 32)	I	RGC1A23D40KGE	351.00

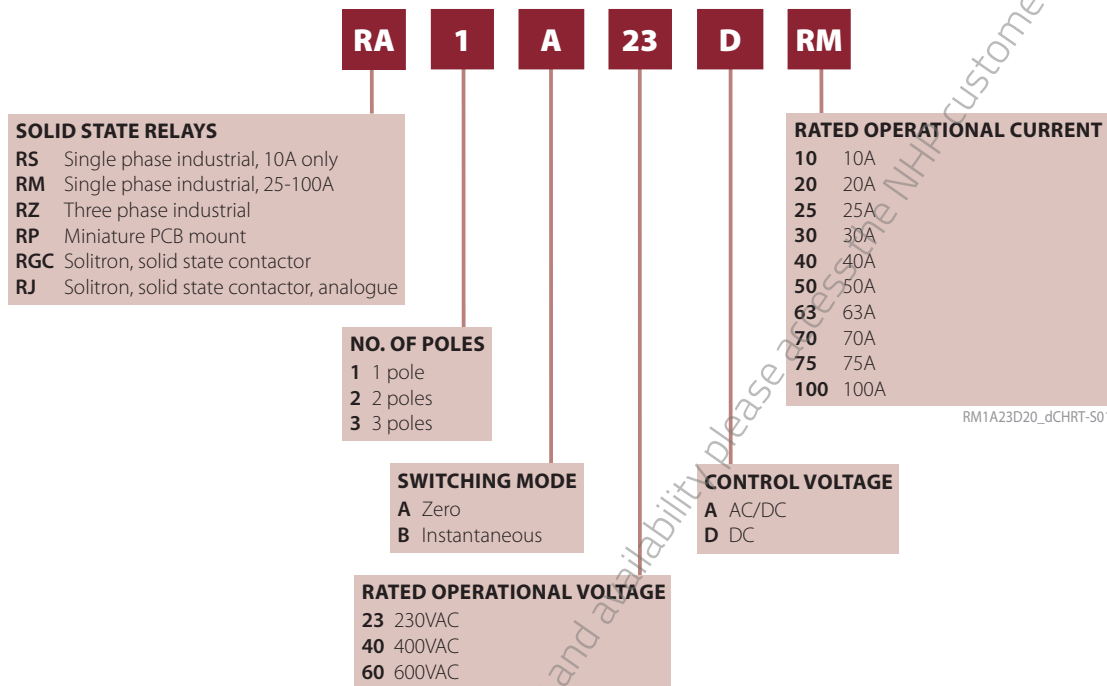


RGC1A23D40KGE

Hockey Puck Solid State Relays

The hockey puck style solid state relays provide an industrial panel mount option for high speed switching. These require an additional heatsink that can be chosen dependent upon ambient temperature and load current by following the SSR easy selection guide.

Catalogue Number Construction



RM1A Series - Single-Phase - Industrial Load

The industrial, single-phase relay with antiparallel thyristor output is a widely used SSR due to its multiple application possibilities. The relay can be used for resistive, inductive and capacitive loads. The zero switching relay switches ON when the sinusoidal curve crosses zero and switches OFF when the current crosses zero. The built-in varistor ensures transient protection for heavy industrial applications and the LED indicates the status of the control input. The clip-on cover provides touch protection to IP20. Protected output terminals can handle cables up to 16mm².

Heatsink Selection

RM...25

Load current (A)	Thermal resistance [K/W]						Power dissipation (W)
25.0	B	B	C	C	C	C	28
22.5	A	B	B	C	C	C	24
20.0	A	A	B	B	C	C	21
17.5	A	A	A	B	B	C	18
15.0	-	A	A	A	B	C	15
12.5	-	-	A	A	A	B	12
10.0	-	-	-	-	A	B	9
7.5	-	-	-	-	-	A	7
5.0	-	-	-	-	-	-	4
2.5	-	-	-	-	-	-	2
	20	30	40	50	60	70	T _A

Heatsink thermal resistance chart

Heatsink	Reference
No heatsink required	-
RHS 100	A
RHS 45B	B
RHS 301	C
RHS 301 plus fan	D
No operation	X

Heatsink selection table

T1501D01-RM1A-25A_6ELN-S01



RM1A23D25

25A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
25	230V AC	/ (3 - 32)		RM1A23D25	128.00
25	230V AC	(20 - 280) / (22 - 48)		RM1A23A25	156.00

Heatsink Selection

RM 50

Load current (A)	Thermal resistance (K/W)						Power dissipation (W)
50.0	C	C	D	D	D	X	61
45.0	C	C	C	D	D	D	53
40.0	C	C	C	C	D	D	46
35.0	C	C	C	C	D	D	39
30.0	B	C	C	C	C	D	33
25.0	B	B	B	C	C	C	26
20.0	A	A	B	B	C	C	20
15.0	-	A	A	A	B	C	15
10.0	-	-	-	-	A	B	10
5.0	-	-	-	-	-	-	5
	20	30	40	50	60	70	T _a

Heatsink thermal resistance chart

Heatsink	Reference
No heatsink required	-
RHS 100	A
RHS 45B	B
RHS 301	C
RHS 301 plus fan	D
No operation	X

Heatsink selection table

T1501001-RM1A50A-30RT501



RM1A23D50

50A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
50	230V AC	/ (3 - 32)		RM1A23D50	211.00
50	230V AC	(20 - 280) / (22 - 48)		RM1A23A50	236.00
50	600V AC	/ (4 - 32)		RM1A60D50	259.00
50	600V AC	(20 - 280) / (22 - 48)		RM1A60A50	261.00

Heatsink Selection

RM 75

Load current (A)	Thermal resistance (K/W)						Power dissipation (W)
75.0	C	D	D	D	D	D	77
67.5	C	C	C	D	D	D	68
60.0	C	C	C	C	D	D	59
52.5	C	C	C	C	C	D	50
45.0	C	C	C	C	C	D	42
37.5	B	B	C	C	C	C	34
30.0	A	B	B	C	C	C	26
22.5	A	A	A	B	B	C	19
15.0	-	-	A	A	A	B	12
7.5	-	-	-	-	-	-	6
	20	30	40	50	60	70	T _a

Heatsink thermal resistance chart

Heatsink	Reference
No heatsink required	-
RHS 100	A
RHS 45B	B
RHS 301	C
RHS 301 plus fan	D
No operation	X

Heatsink selection table

T1501001-RM1A75A-30RT501



RM1A23A75

75A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
75	230V AC	(20 - 280) / (22 - 48)		RM1A23A75	395.00

Heatsink Selection

RM...100

Load current (A)	Thermal resistance (K/W)						Power dissipation (W)
	20	30	40	50	60	70	T _A
100.0	D	D	D	D	X	X	111
90.0	D	D	D	D	D	X	97
80.0	C	D	D	D	D	D	84
70.0	C	C	C	D	D	D	71
60.0	C	C	C	C	D	D	59
50.0	C	C	C	C	C	D	47
40.0	B	C	C	C	C	C	36
30.0	A	B	B	C	C	C	26
20.0	A	A	A	B	B	C	17
10.0	-	-	-	-	A	A	8

Heatsink thermal resistance chart

Ambient temp. (°C)

Heatsink	Reference
No heatsink required	-
RHS 100	A
RHS 45B	B
RHS 301	C
RHS 301 plus fan	D
No operation	X

Heatsink selection table

T1191D01 RM1A-100A-CHRT501

100A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
100	600V AC	(20 - 280) / (22 - 48)		RM1A60A100	510.00



RM1A60A100

RZ3A Series - Three-Phase - Industrial Load

A Solid State Relay family designed to switch various loads such as heating elements, motors and transformers. The relay is capable of switching high voltages up to 600V AC rms. The built-in varistor ensures transient protection for heavy industrial applications and the LED indicates the status of the control input. For higher reliability and load cycle capability three semiconductor power units are soldered directly on to the direct copper bonded (DCB) substrate. AC or DC-controlled versions are available.

Heatsink Selection

RZ ..25

Load current (A)	Thermal resistance (K/W)						Power dissipation (W)
	20	30	40	50	60	70	T _A
25.0	D	D	X	X	X	X	92
22.5	D	D	D	X	X	X	80
20.0	C	D	D	D	D	X	68
17.5	C	C	D	D	D	X	58
15.0	C	C	C	C	D	D	47
12.5	C	C	C	C	C	D	38
10.0	C	C	C	C	C	D	29
7.5	C	C	C	C	C	C	21
5.0	-	-	C	C	C	C	13
2.5	-	-	-	-	-	C	6

Heatsink thermal resistance chart

Ambient temp (°C)

Heatsink	Reference
No heatsink required	-
RHS 100	A
RHS 45B	B
RHS 301	C
RHS 301 plus fan	D
No operation	X

Heatsink selection table

T1191D01 RZ3A25A-CHRT501

25A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
25	600V AC	/ (4 - 32)		RZ3A60D25	706.00
25	600V AC	(24 - 275) / (24 - 50)		RZ3A60A25	712.00



RZ3A60A25

Heatsink Selection

RZ3...40

Load current (A)	Thermal resistance (K/W)							Power dissipation (W)
	20	30	40	50	60	70	80	T _a
40.0	D	D	D	X	X	X	X	101
36.0	D	D	D	D	X	X	X	91
32.0	C	D	D	D	D	X	X	80
28.0	C	C	D	D	D	D	X	70
24.0	C	C	C	D	D	D	D	60
20.0	C	C	C	C	C	D	D	49
16.0	C	C	C	C	C	D	D	39
12.0	C	C	C	C	C	C	C	29
8.0	C	C	C	C	C	C	C	19
4.0	-	-	-	-	C	C	C	10

Heatsink thermal resistance chart

Heatsink	Reference
No heatsink required	-
RHS 100	A
RHS 45B	B
RHS 301	C
RHS 301 plus fan	D
No operation	X

Heatsink selection table

40A Relays



RZ3A60D40

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
40	600V AC	/ (4 - 32)		RZ3A60D40	756.00
40	600V AC	(24 - 275) / (24 - 50)		RZ3A60A40	765.00

Heatsink Selection

RZ3...55

Load current (A)	Thermal resistance (K/W)							Power dissipation (W)
	20	30	40	50	60	70	80	T _a
55.0	D	X	X	X	X	X	X	164
50.0	D	D	X	X	X	X	X	148
45.0	D	D	D	X	X	X	X	133
40.0	D	D	D	D	X	X	X	118
35.0	D	D	D	D	D	X	X	103
30.0	C	D	D	D	D	D	X	87
25.0	C	C	C	D	D	D	D	73
20.0	C	C	C	C	D	D	D	58
15.0	C	C	C	C	C	D	D	43
10.0	C	C	C	C	C	C	D	29
5.0	-	C	C	C	C	C	C	14
2.5	-	-	-	-	-	C	C	7

Heatsink thermal resistance chart

Heatsink	Reference
No heatsink required	-
RHS 100	A
RHS 45B	B
RHS 301	C
RHS 301 plus fan	D
No operation	X

Heatsink selection table

55A Relays



RZ3A60A55

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
55	600V AC	(24 - 275) / (24 - 50)		RZ3A60A55	927.00
55	600V AC	/ (4 - 32)		RZ3A60D55	943.00

Heatsink Selection

RZ3...75

Load current (A)	Thermal resistance (K/W)							Power dissipation (W)
	20	30	40	50	60	70	80	T _a
75.0	D	X	X	X	X	X	X	201
70.0	D	D	X	X	X	X	X	184
65.0	D	D	D	X	X	X	X	167
60.0	D	D	D	D	X	X	X	151
55.0	D	D	D	D	X	X	X	136
50.0	D	D	D	D	D	X	X	121
45.0	D	D	D	D	D	D	X	106
40.0	C	D	D	D	D	D	X	92
35.0	C	C	D	D	D	D	D	79
30.0	C	C	C	D	D	D	D	66
25.0	C	C	C	C	D	D	D	54
20.0	C	C	C	C	C	D	D	42
15.0	C	C	C	C	C	C	D	31
10.0	C	C	C	C	C	C	C	20
5.0	-	-	-	-	-	C	C	10

Heatsink thermal resistance chart

Heatsink	Reference
No heatsink required	-
RHS 100	A
RHS 45B	B
RHS 301	C
RHS 301 plus fan	D
No operation	X

Heatsink selection table

75A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
75	600V AC	(24 - 275) / (24 - 50)		RZ3A60A75	1,098.00



RZ3A60A75

RM/RS/RZ Heatsinks and Accessories

The RM/RS/RZ series all require an additional heat-sink to ensure the solid state relay does not overheat during operation. The correctly sized heat-sink will depend on ambient temperature and load current and can be selected via the SSR selection guide. The heatsink includes a tube of heat transfer compound, mounting equipment and instructions. Other accessories include faston terminal connections and spare covers.

Heatsinks

Item Description	Item Type	Catalogue No.	\$AU
DIN rail, suits RS and RM series, 3.1° C/W thermal resistance		RHS100	105.00
DIN rail, suits RS and RM series, 1.85° C/W thermal resistance		RHS45B	116.00
DIN rail, suits RS, RZ and RM series, 0.82° C/W thermal resistance		RHS301	234.00
Heat Sink 0.25 K/W Fan 230VAC		RHS301F230C	644.00



RHS45B

Adapter/Covers

Item Description	Item Type	Catalogue No.	\$AU
DIN rail adapter, suits RHS100 and RHS301		RHS00	45.00

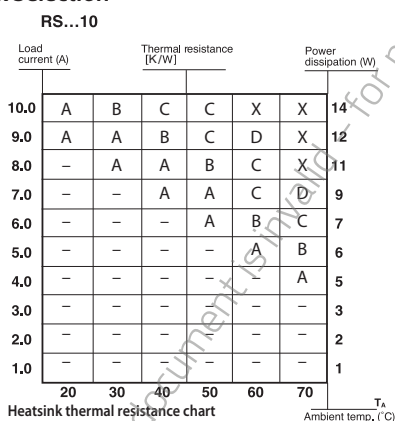


RHS00

RS1A Series - Single-Phase - Small Load

The RS1A series is an inexpensive solution for zero switching resistive loads with a triac output. The zero switching relay switches ON when the sinusoidal voltage crosses zero and switches OFF when the current crosses zero. The LED indicates the status of the control input. The clip-on cover provides touch protection to IP20.

Heatsink Selection



Heatsink	Reference
No heatsink required	-
RHS 100	A
RHS 45B	B
RHS 301	C
RHS 301 plus fan	D
No operation	X

Heatsink selection table

10A Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
10	230V AC	/ (3 - 32)		RS1A23D10	114.00



RS1A23D10

Miniature PCB/DIN Rail Mount Solid State Relays

The miniature solid state relays are suitable for your low energy switching applications. No additional heat-sink is required.

RP1 Series - Mini Relays

The RP1 is an SSR series for socket or PCB-mounting, providing an ideal interface between logic controls and AC loads. The RP1 is designed for resistive and inductive loads up to 440 V AC rms. Two regulated control voltage ranges cover most standard input requirements in an economic package. These features allow a direct substitution of existing PCB mounted relays with RP1. Opto-isolation and load switching are performed by individual components, providing higher reliability than monolithic designs.

5A Relays



RP1B23D5M1

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Switching Mode	Item Type	Catalogue No.	\$AU
5	230V AC	/ 24 (3 - 32)	Zero Switching	I	RP1A23D5	75.00
5	230V AC	/ 24 (5 - 34)	Instant-On Switching		RP1B23D5M1	142.00
5	230V AC	/ 24 (5 - 34)	Zero Switching		RP1A23D5M1	143.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Solid State Relays

Allen-Bradley Solid State Relays

- Wide range of relays that provides reliable design, quick replacements and panel space-saving solutions
- Covers the spectrum from PLC switching to high current loads, ensuring a complete solution
- Number of international approvals ensuring the reliability of the range

These relays provide the advantages inherent in solid-state designs; no moving parts or contacts that can wear out, with compatibility to industrial controllers such as PLCs and temperature controllers.



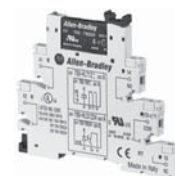
700-HL Slim Interface Relay Module

The 700-HL slim terminal block relays work in a variety of high-density isolation and interposing applications. The thin per-pole interface (6.2 mm wide) and quick connections help reduce installation costs. This SSR version is perfect for fast switching in a compact package.

Normal Versions

Note: 700-HLS1Z24 is a screw terminal type relay

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
2	24V DC	/ 24 (19 - 26.4)		700-HLS1Z24	90.38



700-HLS1Z24

Replacement Relays

In (A)	Un (V AC / V DC)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
2	24V DC	/ 24		700-TBS24	56.89



700-TBS24

700-SK SSR Interface Modules

The 700-SK slim line relays are solid-state relays compatible with HN121 or HN122 sockets and rated up to 2 A current ratings.

Output Module

In (A)	Control Voltage (V AC / V DC)	Item Type	Catalogue No.	\$AU
2	/ (5 - 24)		700-SKOC2Z25	57.74



700-SKOC2Z25

Speed Monitoring Relays

Allen-Bradley Speed Monitoring Relays



- 2000 RPM maximum shaft speed
- Normally open contacts
- Variety of mounting arrangements
- 50...1000 RPM adjustment range for contact operation

These speed sensing switches provide an electrical contact signal at a determined speed for plugging, anti-plugging, speed sensing, and direction of rotation.



808-M1

Item Description	Item Type	Catalogue No.	\$AU
808 Speed Switch, Style M, High Speed, N.O. Contacts, Base Mount, NEMA Type 1, 4 & 13 enclosure	I	808-M1	3,875.30

Pricing in this document is invalid – for pricing and availability please access the NHP Customer portal under 'My Account'

Voltage, Current, Phase and Power Factor Monitoring Relays

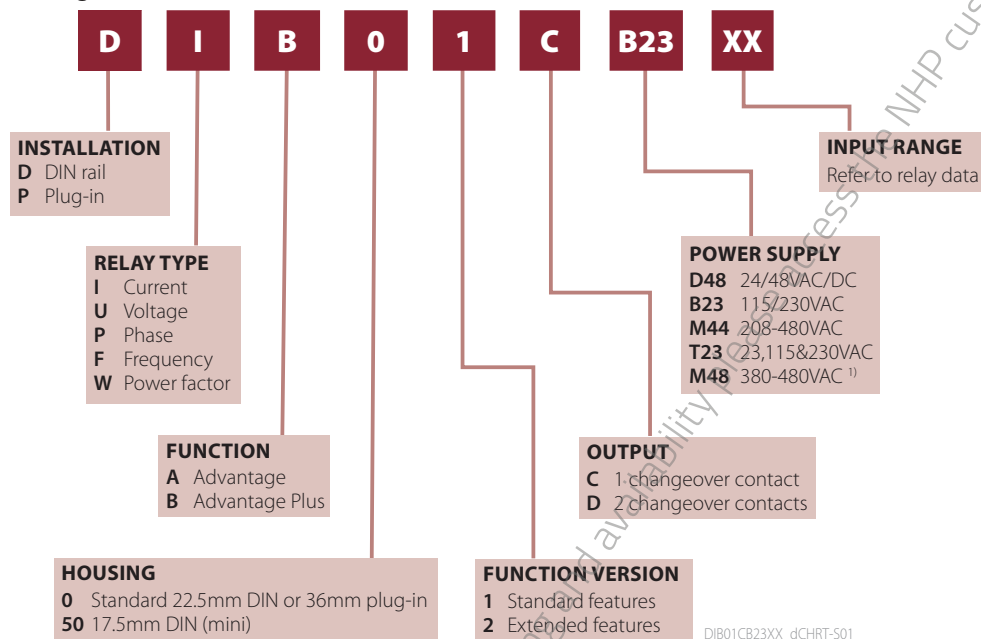
Carlo Gavazzi Voltage / Current / Phase and Power Monitoring

- Comprehensive range of relays for monitoring of phase loss, incorrect phase sequence, phase unbalance, over / under current, over / under load, over / under frequency, and over / under voltage for various application requirements
- Range available in a variety of package sizes and mounting (DIN or Plug-in) to suit various preferences
- International certifications including ISO 9001 with wide install base ensuring delivery of a quality tested product

Carlo Gavazzi offers a comprehensive range of monitoring controls for monitoring of phase loss, incorrect phase sequence, phase unbalance, over/under current, over/under load, over/under frequency, and over/under voltage. For plugin models, the ZPD11 base is the required add-on.



Catalogue Number Construction



¹⁾ Plug-in and special versions may differ in supply voltages

Current Monitoring Relays

The current monitoring relays are available in direct connect, CT Input or self-powered through hole. Single-phase monitoring via direct connect / external CT or three-phase through an external CT connection (assuming balanced system).

Direct Connect (Internal Shunt) or CT Input

These monitoring relays can monitor the current of a circuit through a direct connection or CT Input. Models include over current or over/under current in the one package.

Over Current - Single-Phase - DIN Rail

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
0.5A ... 5A	1 CO	8	2.5	24 - 48V AC/DC	80 x 22.5 x 99.5		DIA-01-C-D48 5A	548.00
0.5A ... 5A	1 CO	8	2.5	115V AC / 230V AC	80 x 22.5 x 99.5		DIA-01-C-B23 5A	548.00



DIA-01-C-B23 5A



DIB-01-C-D48 500MA

Over/Under Current - Single-Phase - DIN Rail

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
10 ... 500mA	1 CO	8	2.5	24 - 48V AC/DC	80 x 22.5 x 99.5		DIB-01-C-D48 500MA	596.00
1 ... 10A	1 CO	8	2.5	115V AC / 230V AC	80 x 22.5 x 99.5		DIB-01-C-B23 10A	621.00
10 ... 500mA	1 CO	8	2.5	115V AC / 230V AC	80 x 22.5 x 99.5		DIB-01-C-B23 500MA	621.00
0.1 ... 5A	1 CO	8	2.5	115V AC / 230V AC	80 x 22.5 x 99.5		DIB-01-C-B23 5A	621.00
1 ... 10A	1 CO	8	2.5	24 - 48V AC/DC	80 x 22.5 x 99.5		DIB-01-C-D48 10A	621.00
0.1 ... 5A	1 CO	8	2.5	24 - 48V AC/DC	80 x 22.5 x 99.5		DIB-01-C-D48 5A	621.00



PIB-01-C-B23 5A

Over/Under Current - Single-Phase - Plug In

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
0.1 ... 5A	1 CO	8	2.5	115V AC / 230V AC	80 x 36 x 94	I	PIB-01-C-B23 5A	644.00

External Shunt or CT Input

These monitoring relays can monitor the current of a circuit through an external shunt or CT input. Models include over/under current in the one package.



DIB-02-C-B23 150MV

Over/Under Current - Single-Phase - DIN Rail

Range(s)	Contacts	AC-1 / AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
6 ... 150mV AC/DC	1 CO	8 / 2.5	115V AC / 230V AC	80 x 22.5 x 99.5		DIB-02-C-B23 150MV	621.00
6 ... 150mV AC/DC	1 CO	8 / 2.5	24 - 48V AC/DC	80 x 22.5 x 99.5		DIB-02-C-D48 150MV	621.00



PIB-02-C-B23 150MV

Over/Under Current - Single-Phase - Plug In

Range(s)	Contacts	AC-1 / AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
6 ... 150mV AC/DC	1 CO	8 / 2.5	115V AC / 230V AC	80 x 36 x 94	I	PIB-02-C-B23 150MV	644.00

Self-Powered Through-hole

These monitoring relays can monitor the current of a circuit through the inbuilt CT.

Over/Under Current - Single-Phase - DIN Rail

Range(s)	Output(s)	Output (V DC max)	Output (A max, rms)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
2 ... 20A	NPN-PNP open collector	40	0.1	81 x 17.5 x 67.2		IMAX20	325.00
5 ... 50A	NPN-PNP open collector	40	0.1	81 x 17.5 x 67.2		IMAX50	339.00



IMAX50

Voltage Monitoring Relays

The voltage monitoring relays are available in AC/DC models in over/under voltage with some available to measure their own supply rather than an additional connection.

DC Over/Under Voltage Own Supply

These monitoring relays measure their own power supply and have separate potentiometers for set point and hysteresis. Typical applications are monitoring of backup batteries, batteries on diesel generator sets and similar applications.

DIN Rail

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
8 ... 28V DC	1 CO	5	2.5	81 x 17.5 x 67.2		DUA-52-C-724	506.00
38 ... 58V DC	1 CO	5	2.5	81 x 17.5 x 67.2		DUA-52-C-748	506.00



DUA-52-C-748

Single-Phase Over Voltage

These monitoring relays are precise AC/DC over voltage monitoring relays. They can also be used as single-phase or three-phase over current monitoring relays when connected with MI or MP current transformers. Owing to the built-in latch function, the ON-position of the relay output can be maintained. The red LED indicates the alarm status. Power supply is galvanically isolated and voltage ranges are selectable via DIP switches.

DIN Rail

Range(s)	Contacts ()	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
2 ... 20V AC/DC 5 ... 50V AC/DC 20 ... 200V AC/DC 50 ... 500V AC/DC	1 CO	8	2.5	115V AC / 230V AC	80 x 22.5 x 99.5	I	DUA-01-C-B23 500V	451.00



DUA-01-C-B23 500V

Single-Phase Over/Under Voltage

These monitoring relays are precise AC/DC over/under voltage monitoring relays. Owing to the built-in latch function, the ON-position of the relay output can be maintained. The red LED indicates the alarm status. Voltage ranges selectable via DIP switches.

DIN Rail

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
2 ... 20V AC/DC 5 ... 50V AC/DC 20 ... 200V AC/DC 50 ... 500V AC/DC	1 CO	8	2.5	115V AC / 230V AC	80 x 22.5 x 99.5		DUB-01-C-B23 500V	589.00
2 ... 20V AC/DC 5 ... 50V AC/DC 20 ... 200V AC/DC 50 ... 500V AC/DC	1 CO	8	2.5	24 - 48V AC/DC	80 x 22.5 x 99.5		DUB-01-C-D48 500V	589.00



DUB-01-C-B23 500V

Plug In

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
2 ... 20V AC/DC 5 ... 50V AC/DC 20 ... 200V AC/DC 50 ... 500V AC/DC	1 CO	8	2.5	115V AC / 230V AC	80 x 36 x 94	I	PUB-01-C-B23 500V	751.00



PUB-01-C-B23 500V

Single-Phase Over/Under Voltage Own Supply

The relays monitor their own power supply which is selectable by DIP-switch (24, 115 or 230 V AC). The advantage of using the latch function is that the relay can be kept energised even after the end of the alarm condition. Inhibit function can be used to avoid relay operation when not desired (maintenance, transitions). The LEDs indicate the state of the alarm and the output.

DIN Rail



DUB-02-C-T23

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Item Type	Catalogue No.	\$AU
24V AC 115V AC 230V AC	1 CO	8	2.5		DUB-02-C-T23	548.00

Plug In



PUB-02-C-T23

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Item Type	Catalogue No.	\$AU
24V AC 115V AC 230V AC	1 CO	8	2.5		PUB-02-C-T23	751.00

Phase Sequence and Loss Relays

The phase sequence and loss relays allow for detection of incorrect phase sequence, total and partial phase loss. Measures own supply and supply range is covered by different multi-voltage relays.

Three-Phase

DIN Rail



DPA-01-C-M44

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
177 ... 550V AC	1 CO	8	2.5	208 - 480V AC	80 x 22.5 x 99.5		DPA-01-C-M44	451.00
177 ... 550V AC	1 CO	5	2.5	208 - 480V AC	81 x 17.5 x 67.2		DPA-51-C-M44	451.00
323 ... 550V AC	2 CO	8	2.5	380 - 480V AC	80 x 22.5 x 99.5		DPA-01-D-M48	458.00

Plug In



PPA-01-C-M44

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
177 ... 475V AC	1 CO	8	2.5	208 - 415V AC	80 x 36 x 94		PPA-01-C-M44	474.00

Phase Sequence, Loss and Voltage Monitoring Relays

These relays combine the functionality of voltage and phase sequence/loss monitoring in the one model. These are available in three-phase or three-phase and neutral models.

Three-Phase and Neutral

Measure own supply to detect when all 3 phases are present and have the correct phase sequence, detect 3-phase-phase or phase-neutral voltages are within the set limits. Upper and lower limits separately adjustable.

DIN Rail



DPB-01-C-M48-W4

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
323 ... 475V AC	1 CO	8	2.5	380 - 415V AC	80 x 22.5 x 99.5		DPB-01-C-M48-W4	638.00
323 ... 550V AC	1 CO	8	2.5	380 - 480V AC	80 x 22.5 x 99.5		DPB-01-C-M48-N	719.00

Plug In

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
323 ... 475V AC	1 CO	8	2.5	380 - 415V AC	80 x 36 x 94		PPB-01-C-M48-W4	654.00

Phase Sequence, Loss and Asymmetry Monitoring Relays

These relays combine the functionality of voltage and phase sequence/loss monitoring in the one model. These are available in three-phase or three-phase and neutral models.

Three-Phase

Measures its own supply to detect when all three phases are present, have the correct sequence and whether the asymmetry level is below the set value.

DIN Rail

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
323 ... 550V AC	1 CO	8	2.5	380 - 480V AC	80 x 22.5 x 99.5		DPB-02-C-M48	679.00



DPB-02-C-M48

Plug In

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
323 ... 475V AC	1 CO	8	2.5	380 - 415V AC	80 x 36 x 94		PPB-02-C-M48	719.00



PPB-02-C-M48

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
323 ... 550V AC	2 CO	8	2.5	380 - 480V AC	80 x 45 x 99.5		DPC-01-D-M48	1,191.00



DPC-01-D-M48

Power Factor Monitoring Relays

The power factor monitoring relays are intended for three-phase balanced systems. They can be used for monitoring the actual load of asynchronous motors and other symmetrical loads where the power factor is almost proportional to the load. The relay measures the power factor (cos ϕ) of the load and determines whether it is within the set limits. Start/stop input allows use of a manual switch to start and stop the motor, without the need of an auxiliary device.

Three-Phase

DIN Rail

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
0.5A ... 5A; 1 ... 10A; 0.1 ... 0.99	1 CO	8	2.5	380 - 480V AC	80 x 45 x 99.5	I	DWB-01-C-M48 10A	679.00



DWB-01-C-M48 10A

Frequency Monitoring Relays

The frequency monitoring relays measure their own power supply from 24 to 240 VAC to indicate if within the set limits. The latch function of the relay can be used to keep the output energised even after the end of the alarm condition. Inhibit function can be used to avoid relay operation when not desired (maintenance, transitions). The LEDs indicate the state of the alarm and the output relay.

Single Phase

DIN Rail

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
40 ... 51Hz; 48 ... 50.2Hz; 49 ... 60Hz; 49.8 ... 52Hz; 50 ... 61Hz; 58 ... 60.2Hz; 59 ... 70Hz; 59.8 ... 62Hz	1 CO	8	2.5	24 - 240V AC	80 x 22.5 x 99.5		DFB-01-C-M24	686.00



DFB-01-C-M24



PFB-01-C-M24

Plug In

Range(s)	Contacts	AC1 (A@250V)	AC-15 (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
40 ... 51Hz; 48 ... 50.2Hz; 49 ... 60Hz; 49.8 ... 52Hz; 50 ... 61Hz; 58 ... 60.2Hz; 59 ... 70Hz; 59.8 ... 62Hz	1 CO	8	2.5	24 - 240V AC	80 x 36 x 94	I	PFB-01-C-M24	719.00

Multifunction Monitoring Relays

DPD is a 3-phase multifunction configurable monitoring relay suitable for both Delta and Star mains. It helps protect loads from wrong phase sequence, neutral, phase loss and additionally voltage, frequency and asymmetry thresholds can be set and provide output signals. The DPD is delivered with factory default alarm values, if they are not completely suitable they can be modified according to user requirements. DPD has two separate relay outputs, three front LEDs for visual indication of outputs states and alarm discrimination. Through NFC communication via smartphone, tablet or PC, the DPD can be configured or provide real time operation data such as alarms status, voltage & frequency readings. The DPD App can be used to reprogram the unit at any given time or to check the device operation status.

Three-Phase

DIN Rail Standard



DPD02DM44

Range(s)	Contact Configuration	Ie, Rated Operational Current, AC-1, 250V (A@250V)	Ie, Rated Operational Current, AC-15, 250V (A@250V)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
360 ... 440V AC	2 CO	8	2.5	177 - 550V AC	105 x 22.5 x 105	I	DPD02DM44	818.00
216 ... 264V AC	2 CO	8	2.5	166 - 576V AC	105 x 22.5 x 105	I	DPD02DM44B	818.00

Item Description	Item Type	Catalogue No.	\$AU
USB NFC READ/WRITE FOR DPD SERIES	I	ACR1252U	720.00

Current Transformers

The current transformers below can be used as an external input into the relays mentioned. Other relays that allow current transformer input can use the IME xx: 5 A current transformers

CTs To Suit DIB02/PIB02 and DUA01/PUA01 Relays

Single-Phase Current Transformers



MI5CT

Item Description	Input (range)	Output (range)	Diameter, Internal (mm)	Item Type	Catalogue No.	\$AU
Current transducer, single-phase, 0.4 - 4V output, suits DIB02.... relays	0.5A ... 5A	0.4 ... 4V AC	12	I	MI5CT	226.00
Current transducer, single-phase, 0.4 - 4V output, suits DIB02.... relays	2 ... 20A	0.4 ... 4V AC	12		MI20CT	238.00
Current transducer, single-phase, 0.4 - 4V output, suits DIB02.... relays	10 ... 100A	0.4 ... 4V AC	27		MI100CT	262.00

DLA Pump Alternating Relays Range

The DLA range of relays are designed to provide straight forward alternation of pumps in a multi-pump system. A single relay module can be used to alternate two to three pumps in a system depending upon the model selected, although it lets the pumps work alternatively it also allows more pumps to work together if the application requires it to. Pump alternating is a very common function used in two main scenarios.

- When a backup pump is required in case of main pump failure. A typical example is in heating or cooling water circuits, where in case of failure the time to replace a pump may be long and the cost due to a lack of service high example by not being able to occupy a building due to extreme temperatures (too hot, too cold)
- When the expected flow isn't fixed, so more than one pump may be required to work at the same time. Usually the number of pumps driven by float switches measuring the level of the basin to fill or empty

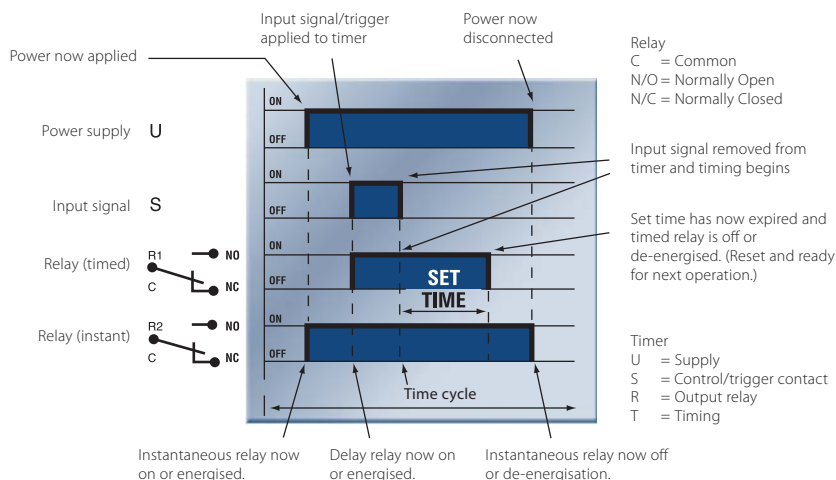
In both cases, if one pump works all the time, the backup pump may fail when called into action. To avoid this issue, the pumps are alternated at every start, so they are ready when required. Finally, since in some cases service may be 24/7, the pumps must be alternated automatically anyway at regular intervals. In the case of DLA's, it's after every six hours. The pump alternating relay provides a simple solution to get the backup pump to start automatically and have an alarm signal generated to trigger the maintenance team and to fix the issue.

Item Description	Item Type	Catalogue No.	\$AU
Monitoring Relay 2 Pump Alternate 115/230V AC		DLA71DB232P	392.00
Monitoring Relay 3 Pump Alternate 115/230V AC		DLA71TB233P	558.00
Monitoring Relay 2 Pump Alternate 24/48V AC		DLA71DB482P	430.00
Monitoring Relay 3 Pump Alternate 24/48V AC		DLA71TB483P	578.00
Monitoring Relay 2 Pump Alternate 115/230V AC, 1 alarm relay output managed by one independent input contact	I	DLA73TB232P	514.00
Monitoring Relay 2 Pump Alternate 24/48V AC, 1 alarm relay output managed by one independent input contact	I	DLA73TB482P	514.00



DLA73TB482P

Typical Timing Function



Note: If power is disconnected during actual timing most electronic timers will reset to the preset time, ready for re-application of supply voltage.

ON DELAY

1 TIMED CONTACT

Also referred to as: Delay on
Delay on make
Delay energisation
Delay on operate

FUNCTION DIAGRAM



MODE OF OPERATION

When power is applied to the timer, the set time delay commences and the relay remains in its normal state. At the end of the set time delay, the relay changes over to the opposite position or on state. At the disconnection of the power supply the relay changes back to its normal state, and the timer is reset for its next operation.

SUITABLE PRODUCTS

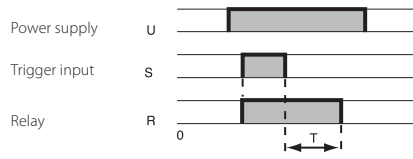
DAA51CM24, DAA01CM24, DAA01DM24, (2 contacts),
DAA01CM24, FAA, CRZE4, RZ7-FSA3, RZ7-FSA4 (2 contacts),
RZ7-FEA.

OFF DELAY

1 TIMED CONTACT

Also referred to as: Delay on break
Delay off
Delay on de-energisation

FUNCTION DIAGRAM



MODE OF OPERATION

This timer is permanently supplied. When power is applied to the timer it is prepared for operation. At the closure of the input signal, the relay changes over to the opposite position or on state. Timing does not commence. At the loss of the input signal timing commences and at the end of the set time delay the relay changes back to its normal or de-energised state and the timer is reset for its next operation.

SUITABLE PRODUCTS

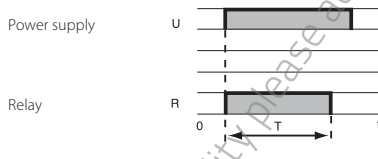
DBA52CM24, DBA02CM24, PBA02CM24, DMB51CW24,
DMB01CM24, DMB01DM24 (2 contacts), PMB01CM24,
PMB01DM24 (2 contacts), RZ7-FSB3, RZ7-FSB4 (2 contacts),
RZ7-FEB.

INTERVAL (Automatic start)

1 TIMED CONTACT

Also referred to as: On pulse
On delay impulse

FUNCTION DIAGRAM



MODE OF OPERATION

When power is applied to the timer, the set time delay commences and the relay changes over to the opposite position or on state. At the end of the set time delay, the relay changes back to its normal or de-energised state, and the timer is reset for its next operation.

SUITABLE PRODUCTS

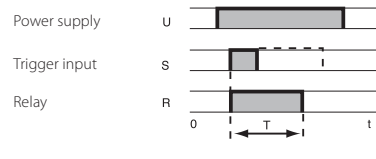
DMB51CW24, DMB01CM24, DMB01DM24 (2 contacts),
PMB01CM24, PMB01DM24 (2 contacts), FAA, FMB, RZ7-FSD,
RZ7-FSM, RZ7-FED.

INTERVAL (Manual start)

1 TIMED CONTACT

Also referred to as: One shot
Impulse lengthener
Single shot

FUNCTION DIAGRAM



MODE OF OPERATION

This timer is permanently supplied. Upon the closure of an input signal the relay changes over to the opposite position or on state and timing commences. At the end of the set time delay, the relay changes back to its normal state and the timer is reset for its next operation. The input signal can be held for either a shorter, or longer time than the preset time delay and it will not influence the operation of the relay.

SUITABLE PRODUCTS

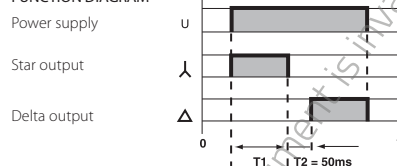
DMB51CW24, DMB01CM24, DMB01DM24 (2 contacts),
PMB01CM24, PMB01DM24 (2 contacts), FAA, FMB, RZ7-FSL3.

STAR-DELTA

2 TIMED CONTACTS

This function is utilised to control timed operation of the star and delta contactors in a star delta motor starter.

FUNCTION DIAGRAM



MODE OF OPERATION

When power is applied to the timer, the set time delay T1 commences and the star relay changes over to the opposite position or on state. At the end of the set time delay T1 the star relay changes back to its normal or de-energised state and the fixed preset time T2 commences. At the end of the fixed time delay T2 the delta relay changes over to the opposite position or on state. The delta relay remains on until power is disconnected from the timer.

SUITABLE PRODUCTS

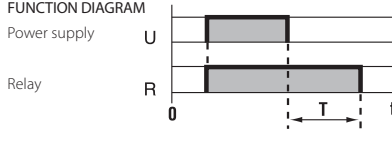
DAC01CM24, DAC01CM40, DAC51CM24, RZ7-FSY2.

TRUE OFF DELAY

1 TIMED CONTACT

Also referred to as: Delay on loss of supply
Delay on release

FUNCTION DIAGRAM



MODE OF OPERATION

When power is applied to the timer, the relay changes over to the opposite or on state. Timing does not commence. When the power is disconnected, the set time delay commences, and the relay remains in its on state. At the end of the set time delay, the relay changes back to its normal or de-energised state, and the timer is reset for its next operation.

SUITABLE PRODUCTS

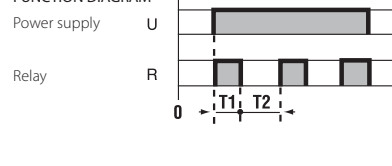
DBB51CM241M, DBB51CM2410M, DBB51CM2410S,
DBB01DM24.

RECYCLING

1 TIMED CONTACT (ON PULSE FIRST)

Also referred to as: Repeat cycling
Symmetrical flasher
Asymmetrical recycler

FUNCTION DIAGRAM



MODE OF OPERATION

When power is applied to the timer, the relay changes over to the opposite or on state. Timing does not commence. When the power is disconnected, the set time delay commences, and the relay remains in its on state. At the end of the set time delay, the relay changes back to its normal or de-energised state, and the timer is reset for its next operation.

SUITABLE PRODUCTS

DBB51CM241M, DBB51CM2410M, DBB51CM2410S,
DBB01DM24.

Time Delay Relays

Carlo Gavazzi Time Delay Relays

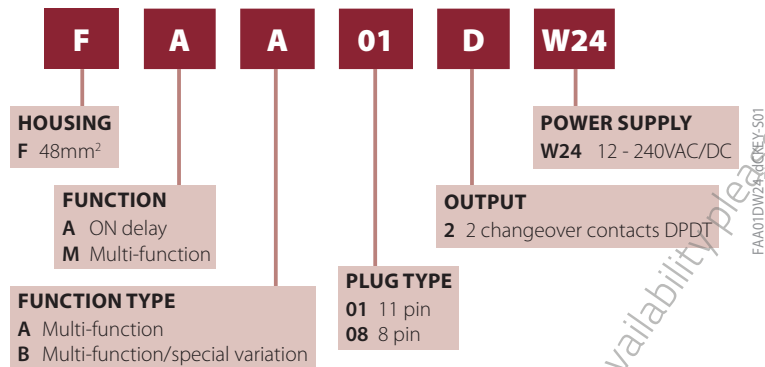
- Multitude of timing functions available from the entire Carlo Gavazzi range (On Delay, Interval, Off Delay, One Shot, Star-Delta, and Recycler)
- Available in either DIN or Panel mount to suit your preference.
- Variety of relay output types (SPDT, DPDT) and adjustable timing ranges available, dependent on your switching requirements.
- International certifications and wide install base ensuring delivery of a quality tested product.

Carlo Gavazzi offers a comprehensive range of timers for DIN rail or panel mounting where time is of the essence and control is the desired outcome. Models are available with SPDT or DPDT relay output, covering most timing functions (On Delay, Interval, Off Delay, One Shot, Zero Speed, Star-Delta, and Recycler) and suited for practically every application. These timers are frequently used in motor control centres, packaging machinery, HVAC equipment, control panels, and process control.

ON Delay Relays

The On delay timer has an operating range of 0.1 s to 100 hours. The set delay period begins as soon as the power supply is connected. At the end of the set delay the relay operates and does not release until the power supply is interrupted for at least 200 ms. AKA – “On after a delay”.

Catalogue Number Construction



Plug-in

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Pins	Item Type	Catalogue No.	\$AU
50ms ... 3s 500ms ... 30s 5 ... 300s 30s ... 30min 30min ... 30h 5 ... 300min 5 ... 300h	2 CO	Panel Mount	48 x 48 x 85	12 - 240V AC / 12 - 240V DC	8		FAA-08-D-W24	291.00
50ms ... 3s 500ms ... 30s 5 ... 300s 30s ... 30min 5 ... 300min 30min ... 30h 5 ... 300h	2 CO	Panel Mount	48 x 48 x 85	12 - 240V AC / 12 - 240V DC	11		FAA-01-D-W24	295.00



FAA-08-D-W24

Panel Mount

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	2 CO	Plug-in	80 x 35.5 x 94	24 - 240V AC / 24 - 240V DC		PAA-01-D-M24	377.00



PAA-01-D-M24

11



DAA-01-C-M24

DIN mount

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	1 CO	DIN-35 Rail Mount	81 x 17.5 x 67.2	24 - 240V AC / 24V DC		DAA-51-C-M24	284.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	1 CO	DIN-35 Rail Mount	83.5 x 22.5 x 98.5	24 - 240V AC / 24V DC		DAA-01-C-M24	323.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	2 CO	DIN-35 Rail Mount	83.5 x 22.5 x 98.5	24 - 240V AC / 24V DC		DAA-01-D-M24	361.00

OFF Delay Relays

The Off delay timer has an operating range of 0.1 s to 100 hours. The relay operates as soon as the trigger contact is closed. The time period begins when the trigger contact is opened. The relay releases at the end of the set delay time or when the power supply is disconnected. AKA – "Off after a delay".

DIN mount



DBA-02-C-M24

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 10 ... 100h	1 CO	DIN-35 Rail Mount	81 x 17.5 x 67.2	24 - 240V AC / 24V DC		DBA-52-C-M24	301.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 10 ... 100h	1 CO	DIN-35 Rail Mount	83.5 x 22.5 x 98.5	24 - 240V AC / 24V DC		DBA-02-C-M24	321.00

Plug-in



PBA-02-C-M24

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 10 ... 100h	1 CO	Plug-in	80 x 35.5 x 94	24 - 240V AC / 24V DC	I	PBA-02-C-M24	325.00

TRUE OFF Delay Relays

The True off delay has an operating range of 0.1 to 600 s – Capacitor powered. When the power supply is applied the relay operates. When the power supply is interrupted the time period starts and, at the end of the set time period, the relay releases. This timer is useful because it requires no additional trigger.

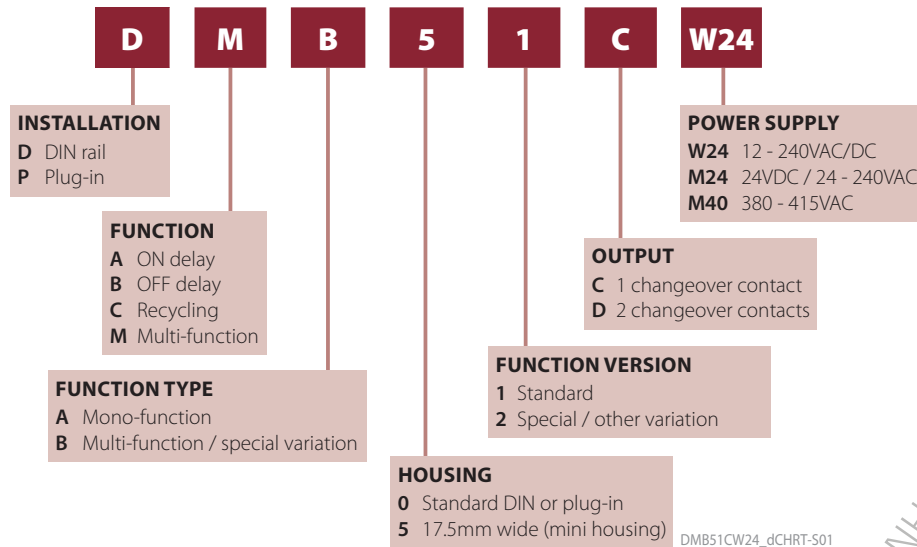
DIN mount



DBB-51-C-M24 10M

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
1 ... 10min	1 CO	DIN-35 Rail Mount	81 x 17.5 x 67.2	24 - 240V AC / 24V DC		DBB-51-C-M24 10M	474.00
1 ... 10s	1 CO	DIN-35 Rail Mount	81 x 17.5 x 67.2	24 - 240V AC / 24V DC		DBB-51-C-M24 10S	474.00
6s ... 1min	1 CO	DIN-35 Rail Mount	81 x 17.5 x 67.2	24 - 240V AC / 24V DC		DBB-51-C-M24 1M	474.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min	2 CO	DIN-35 Rail Mount	83.5 x 22.5 x 98.5	24 - 240V AC / 24 - 240V DC		DBB-01-D-M24	506.00

Catalogue Number Construction



Multifunction Time Delay Relays

The multifunction relays include 7 selectable functions: ON Delay, Interval, Interval on trigger open, Double Interval, OFF Delay, Symmetrical Recycler ON first, Symmetrical Recycler OFF first.

DIN mount

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	1 CO	DIN-35 Rail Mount	81 x 17.5 x 67.2	12 - 240V AC / 12 - 240V DC		DMB-51-C-W24	304.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	1 CO	DIN-35 Rail Mount	83.5 x 22.5 x 98.5	24 - 240V AC / 24V DC		DMB-01-C-M24	346.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	2 CO	DIN-35 Rail Mount	83.5 x 22.5 x 98.5	24 - 240V AC / 24 - 240V DC		DMB-01-D-M24	402.00



DMB-51-C-W24

Plug-in

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	2 CO	Plug-in	48 x 48 x 85	12 - 240V AC / 12 - 240V DC		FMB-01-D-W24	284.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	1 CO	Plug-in	80 x 35.5 x 94	24 - 240V AC / 24V DC		PMB-01-C-M24	368.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	2 CO	Plug-in	80 x 35.5 x 94	24 - 240V AC / 24 - 240V DC		PMB-01-D-M24	411.00



PMB-01-C-M24

Recycling Relays

The Recycling relay has an operating range of 0.1 s to 100 hours. The recycling relay includes multiple functions including, asymmetrical recycler - on first, asymmetrical recycler - off first, one shot and for the 2 C/O versions a 2 state 'On delay' option.

DIN mount



DCB-51-C-M24

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	1 CO	DIN-35 Rail Mount	81 x 17.5 x 67.2	24 - 240V AC / 24V DC		DCB-51-C-M24	410.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	1 CO	DIN-35 Rail Mount	83.5 x 22.5 x 98.5	24 - 240V AC / 24V DC		DCB-01-C-M24	436.00

Plug-in



PCB-01-C-M24

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min 6min ... 1h 1 ... 10h 10 ... 100h	1 CO	Plug-in	80 x 35.5 x 94	24 - 240V AC / 24V DC		PCB-01-C-M24	451.00

Star Delta Delay Relays

The star-delta control relay has an operating range of 0.1 to 600 s. The output relay is normally in the neutral centre position. When the power supply is applied, the relay switches to star position (pin 16 or 4) and the star period starts. At the end of the set time period, the relay returns to the neutral centre position and the set delay between star and delta position starts. At the end of the star to delta delay (adjustable from 50 to 130 ms), the relay switches in delta position (pin 18 or 3) and does not release until the power supply is interrupted for at least 200 ms.

DIN Mount



DAC-51-C-M24

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min	1 CO	DIN-35 Rail Mount	81 x 17.5 x 67.2	24 - 240V AC / 24 - 240V DC		DAC-51-C-M24	323.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min	1 CO	DIN-35 Rail Mount	83.5 x 22.5 x 98.5	24 - 240V AC / 24 - 240V DC		DAC-01-C-M24	337.00
100ms ... 1s 1 ... 10s 6s ... 1min 1 ... 10min	1 CO	DIN-35 Rail Mount	83.5 x 22.5 x 98.5	380 - 415V AC		DAC-01-C-M40	352.00

Accessories

Accessories include the respective bases and retaining clip which are also compatible with the Carlo Gavazzi plugin monitoring relays.

Item Description	Item Type	Catalogue No.	\$AU
Mounting accessory - spring		HF SPRING	10.00
Mounting accessory - 8-pin base		ZPD8	29.00
Mounting accessory - 11-pin base		ZPD11	34.00



HF SPRING

Time Delay Relays

Sprecher + Schuh Time Delay Relays

- Available with many different output functions applicable to all types of industrial control.
- Rugged construction and high level of timing accuracy established through rigorous design and testing.
- Various timing ranges from 0.05 seconds to 60 hours allowing fine control of switching requirements.

Sprecher + Schuh's RZ7-FS precision electronic timing relays offer 19 different output functions applicable to all types of industrial control. In addition to standard ON-Delay and OFF-Delay relays, the series also includes many specials such as an OFF-Delay that operates for a delay after supply voltage is removed (TRUE OFF-Delay). Various timing ranges from 0.05 seconds to 60 hours are available, with many relays offering multi-time setting capability in the same device.

Every RZ7 accepts a broad range of AC and DC supply voltages as standard and each relay is equipped with an LED that indicates four output status conditions. The terminals are captive and supplied in the open position, also providing finger and back of hand protection meeting IP 40.

RZ7-FE Time Delay Relays

The RZ7-FE electronic timing relays offer seven popular output functions in an economical package. This series is especially designed for applications where a high quality, yet basic timing relay is required.

ON Delay Relays

The RZ7-FEA relay provides the functionality of turning on your output after a delay period. When supply voltage is applied, output contact(s) change state after time delay t.

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
50ms ... 10h	1 NO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24V DC		RZ7-FEA 1T U22	309.00
50ms ... 10h	1 CO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC		RZ7-FEA 3T U23	339.00



RZ7-FEA 1T U22

OFF Delay Relays

The RZ7-FEB relay provides the functionality of turning off your output after a delay period. When control contact B1 closes, the output contact changes state immediately. When control contact B1 opens, the output contact changes state after time delay t. Constant supply voltage required on terminals A1/A2 or A3/A2.

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Timing Function	Item Type	Catalogue No.	\$AU
50ms ... 10h	1 NO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24V DC	OFF Delay		RZ7-FEB 1T U22	339.00
50ms ... 10h	1 CO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24 - 48V DC	Fleeting OFF Delay		RZ7-FEE 3T U23	362.00
50ms ... 10h	1 CO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24 - 48V DC	OFF Delay		RZ7-FEB 3T U23	370.00



RZ7-FEB 1T U22

Multifunction Relays

The RZ7-FEM multifunction relay combines four timing functions in one device. Each timing function and timing range is selectable from the face of the relay with a screwdriver actuated knob. The RZ7-FEM offers the following timing functions: On-Delay Off-Delay, One Shot/ Watchdog and Symmetric Flasher Starting with a pulse.

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
50ms ... 10h	1 NO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24V DC		RZ7-FEM 1T U22	393.00
50ms ... 10h	1 CO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24 - 48V DC		RZ7-FEM 3T U23	457.00



RZ7-FEM 1T U22

One Shot Relays

The RZ7-FED relay provides the functionality of turning on your output once for a delay period. When supply voltage is applied, output contact(s) change state for time delay t.

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
50ms ... 10h	1 NO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24V DC		RZ7-FED 1T U22	319.00
50ms ... 10h	1 CO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24 - 48V DC		RZ7-FED 3T U23	339.00



RZ7-FED 1T U22

Symmetrical Recycling Relays

The RZ7-FEF relays provide the functionality of repeating a symmetrical on/off 50% duty cycle output. When supply voltage is applied, the output contact changes state immediately and then repeatedly changes after every time period t , continuing until supply voltage is removed.



RZ7-FEF 3T U23

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
50ms ... 10h	1 CO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24 - 48V DC		RZ7-FEF 3T U23	339.00

Star Delta Relays

The RZ7-FEY relays provide the timing sequence to start a load in star and transition to delta. When supply voltage is applied, output contact Y closes for time period t . After time period t , plus a fixed time period t_u (50-65 ms) the output contact closes.



RZ7-FEY 2Q U23

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
0.15s ... 10min	2 NO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24 - 48V DC		RZ7-FEY 2Q U23	449.00

RZ7-FS High Performance Time Delay Relays

The RZ7-FS timing relays are built with solid state electronics for timing controlled by a microprocessor that operates an electromechanical output. They are accurate to within 0.2 percent. Their ruggedness and high level of accuracy is due to the thorough testing of function, timing characteristics and surge voltage strength performed on each device prior to shipment. In addition, RZ7-FS relays function reliably from 15% under rated operating voltage to 110% over rated voltage (AC). Voltage tolerance is even greater in DC applications.

On Delay

The RZ7-FSA relay provides the functionality of turning on your output after a delay period. When supply voltage is applied, output contact(s) change state after time delay t .

24-48V DC/24-240V AC



RZ7-FSA 3D U23

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
500ms ... 10s	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC		RZ7-FSA 3C U23	439.00
1.5 ... 30s	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC		RZ7-FSA 3D U23	439.00
3s ... 1min	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC		RZ7-FSA 3E U23	439.00
1.5 ... 30min	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC	A	RZ7-FSA 3H U23	439.00
50ms ... 60h	2 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC		RZ7-FSA4U U23	560.00

346-440V AC



RZ7-FSA 3D A40

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
1.5 ... 30s	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC		RZ7-FSA 3D A40	439.00
3s ... 1min	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC	A	RZ7-FSA 3E A40	439.00
1.5 ... 30min	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC	A	RZ7-FSA 3H A40	439.00
3min ... 1h	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC	A	RZ7-FSA 3I A40	439.00

Off Delay

The RZ7-FSB relay provides the functionality of turning off your output after a delay period. When control contact "S" closes, output contact(s) change state immediately. When control contact S opens, output contact(s) change state after time delay t . Constant supply voltage required on terminals A1/A2.

24-240V AC/DC



RZ7-FSQ 3Q U18

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
0.15s ... 10min	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 240V DC		RZ7-FSQ 3Q U18	638.00
0.15s ... 10min	2 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 240V DC		RZ7-FSQ 4Q U18	827.00

24-48V DC/24-240V AC

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
150ms ... 3s	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC	A	RZ7-FSB 3B U23	504.00
1.5 ... 30s	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC	A	RZ7-FSB 3D U23	504.00
3s ... 1min	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC	A	RZ7-FSB 3E U23	504.00
50ms ... 60h	2 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC		RZ7-FSB 4U U23	543.00

RZ7-FSB 3E U23

346-440V AC

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
1.5 ... 30min	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC		RZ7-FSB 3H A40	504.00
9min ... 3h	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC	A	RZ7-FSB 3J A40	504.00

On and Off Delay

The RZ7-FSC relay provides the functionality of turning on your output after a delay and then turning off the output after a delay. When control contact "S" closes, output contact changes state after time delay t. When control contact S opens, output contact changes state again after time delay t. Constant supply voltage required on terminals A1/A2. Closure duration of S must be greater than t.

346-440V AC

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
30min ... 10h	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC	A	RZ7-FSC 3K A40	504.00

Multi-function Delay

The RZ7-FSM multifunction relay combines eight timing functions plus ON and OFF functions (for installation and maintenance). Each timing function and timing range is selectable from the face of the relay with a screwdriver actuated knob. The RZ7-FSM offers the following timing functions On Delay, On & Off Delay, Fleeting Off Delay, On-Delay Pulse Generator, On function, Off function, Off Delay, One shot / Watchdog, Impulse Converter, Symmetric flasher starting with pulse.

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
50ms ... 60h	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC		RZ7-FSM 3U A40	527.00
50ms ... 60h	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC		RZ7-FSM 3U U23	527.00
50ms ... 60h	2 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC		RZ7-FSM 4U U23	718.00



RZ7-FSM 3U A40

Symmetrical Recycling Delay

The RZ7-FSF relays provide the functionality of repeating a symmetrical on/off 50% duty cycle output starting with a pulse. The RZ7-FSG relays provide the functionality of repeating a symmetrical on/off 50% duty cycle output starting with a pause. When supply voltage is applied, output contact changes state after time period t and then repeatedly changes again after every period t, continuing until supply voltage is removed.

24-48V DC/24-240V AC

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
50ms ... 60h	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC		RZ7-FSH 3V U23	647.00



RZ7-FSH 3V U23

Star-Delta

The RZ7-FEY relays provide the timing sequence to start a load in star and transition to delta. When supply voltage is applied, output contact Y closes for time period t. After time period t, plus a fixed time period t_Δ (50-65 ms) output contact Δ closes.

24-48V DC/24-240V AC

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
500ms ... 10s	2 NO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC		RZ7-FSY 2C U23	457.00
1.5 ... 30s	2 NO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC		RZ7-FSY 2D U23	457.00
3s ... 1min	2 NO	DIN-35 Rail Mount	78.8 x 22.5 x 109	24 - 240V AC / 24 - 48V DC	A	RZ7-FSY 2E U23	457.00



RZ7-FSY 2D U23



RZ7-FSY 2D A40

346-440V AC

Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
500ms ... 10s	2 NO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC	A	RZ7-FSY 2C A40	457.00
1.5 ... 30s	2 NO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC		RZ7-FSY 2D A40	457.00
3s ... 1min	2 NO	DIN-35 Rail Mount	78.8 x 22.5 x 109	346 - 440V AC	A	RZ7-FSY 2E A40	457.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Time Delay Relays

Allen-Bradley Time Delay Relays

- Models available as single-function or multifunction providing application flexibility.
- Mounting options available as DIN or Plug-in to suit application preference.
- Meets a number of international certifications

The Allen-Bradley range of time delay relays contains up to 11 different timing functions. With panel mount and DIN rail timers each unit is easy to program via the front display and can handle applications rated up to 8A applications.



Economy Timing Relays

Timing Function(s)	Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
ON Delay	50ms ... 1s 500ms ... 10s 3s ... 1min 30s ... 10min 3min ... 1h 30min ... 10h	1 CO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24 - 48V DC		700-FEA3TU23	211.15
OFF Delay	50ms ... 1s 500ms ... 10s 3s ... 1min 30s ... 10min 3min ... 1h 30min ... 10h	1 CO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24 - 48V DC		700-FEB3TU23	226.65
ON Delay OFF Delay Flasher (Repeat Cycle) starting with pulse	50ms ... 1s 500ms ... 10s 3s ... 1min 30s ... 10min 3min ... 1h 30min ... 10h	1 CO	DIN-35 Rail Mount	80 x 17.5 x 70	24 - 240V AC / 24 - 48V DC	I	700-FEM3TU23	281.84



700-FEA3TU23

700-FS Advanced Timing Relays

Timing Function(s)	Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
Flasher (Repeat Cycle) starting with pulse	50ms ... 1s 150ms ... 3s 500ms ... 10s 3s ... 1min 9s ... 3min 30s ... 10min 3min ... 1h 9min ... 3h 30min ... 10h 3 ... 60h	1 CO	DIN-35 Rail Mount	78.8 x 22.5 x 101	24 - 240V AC / 24 - 48V DC	I	700-FSH3VU23	338.64



700-FSH3VU23

Dial Timing Relays

Note: All Timing Relays are Panel Mounted

Timing Function(s)	Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
ON Delay;One shot;Repeat Cycle ON-Start;One Shot (delayed)	50ms ... 300h	2 CO (1 Instantaneous + 1 On-Delay)	Panel Mount	48 x 48 x 67.3	100 - 240V AC / 100 - 125V DC	I	700-HRP42TA17	207.00
ON Delay;OFF Delay;One shot;Repeat Cycle OFF-Start;Repeat Cycle ON-Start;Signal ON-delay;Signal OFF-delay;One Shot (delayed)	50ms ... 300h	2 CO On-Delay	Panel Mount	48 x 48 x 67.3	100 - 240V AC / 100 - 125V DC		700-HR52TA17	247.34
ON Delay;OFF Delay;One shot;Signal ON-delay;Signal OFF-delay;Repeat Cycle ON-Start;Repeat Cycle OFF-Start	50ms ... 300h	2 CO On-Delay	Panel Mount	48 x 48 x 67.3	24 - 48V AC / 12 - 48V DC		700-HR52TU24	247.34



700-HRP42TA17



700-HNK41AZ24

Ultra-Slim Multifunction Timing Relays

Timing Function(s)	Time Range(s)	Contacts	Mounting	H x W x D (mm)	Power Supply (V AC / V DC)	Item Type	Catalogue No.	\$AU
ON Delay One shot Repeat Cycle OFF-Start Repeat Cycle ON-Start	1 ... 10min 100ms ... 1s 1 ... 10s 6s ... 1min	1 CO	Base Mount	28.8 x 12.8 x 47.4	24V DC		700-HNK41AZ24	141.60

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Time Switches

Finder Time Switches

- Intelligent timing control of your loads to maximize efficiency and sustainability.
- Available in a weekly model for standard applications or weekly with astro functionality to capitalize on usage around sunrise and sunset times.
- Time switch models (35mm width) available with NFC communication capability. The NFC allows users to create/edit programs on their smartphones and tablets which can then be transferred seamlessly, securely, and wirelessly using NFC to the time switch unit. Using NFC, programs and values can also be read from time switch unit.
- The NFC time switch units are available in two programming modes, Smart and Classic!
- Simple selection of Australian daylight savings settings to ensure smooth transition and reliable operation all year round.



Finder digital time switches (DGT / 12 Series) are available in a weekly or weekly + astro models. They are suited for applications that require a finer level of control, or for events that typically change throughout the week. Through a simple and intuitive user interface you can set the time and program weekly ON/OFF events to a 1-minute resolution. The weekly time switches are also capable of a pulse function allowing resolution to 1-second of output actuation.

The 35mm wide time switch units are now available with NFC (Near Field Communication) technology. The NFC feature allows users to create/edit programs on their smartphones and tablets via a free to download app (Finder Toolbox NFC) which can then be transferred seamlessly, securely, and wirelessly using NFC to the time switch unit. Using NFC, you can just as easily read programs and values from the time switch unit.

The NFC time switch units come with two programming modes, that's the **Smart** and **Classic** modes. With Smart mode, the time switch is programmed/configured using a smartphone or tablet with NFC capability whereas with classic mode the joystick on the time switch unit is used for programming or configuring purposes.

The 12 series range also includes 17.5mm wide units (DGT1230SLIM & DGT1024SLIM) which save the user panel space when installed. Although these units do not have NFC capability, they can still be programmed/configured using the keys on the unit and an easy to follow, intuitive menu structure.

Daily Time Switches

The 12 series daily time switch provides control of daily schedules through a mechanical clock. The time switches are available in 36 mm or 17.5 mm (1 C/O) packages dependent on your space constraints and application.

Digital Time Switches

Control Voltage (V AC / V DC)	Contacts	Un (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)		H x W x D (mm)	Item Type	Catalogue No.	\$AU
110...230	1 CO	230	4000 / 750	NFC Smart Programming / Classic Joystick	88.8 x 35 x 60.8		DGT1230NFC	342.00
12...24	1 CO	230	4000 / 750	NFC Smart Programming / Classic Joystick	88.8 x 35 x 60.8		DGT1024NFC	417.00
110...230	2 CO	230	4000 / 750	NFC Smart Programming / Classic Joystick	88.8 x 35 x 60.8		DGT2230NFC	545.00



DGT2230NFC

Weekly Time Switches

The DGT series weekly time switch provides intelligent control of weekly schedules through an intuitive menu structure that makes programming and maintenance simple. The time switches are available in 35 mm (1 C/O or 2 C/O) or 17.5 mm (1 C/O) packages dependent on your space constraints and application.

Digital Time Switches

Control Voltage (V AC / V DC)	Contacts	Un (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Values (qty stored)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
230 /	1 CO	250	4000 / 420	30	90 x 17.8 x 63		DGT 1 230SLIM	239.00
24 / 24	1 CO	250	4000 / 420	30	90 x 17.8 x 63		DGT 1 024SLIM	323.00



DGT 1 230SLIM

Weekly + Astro Time Switches

The DGT series Astro time switches include weekly time switch functionality with the additional allowance to align control with sunrise and sunset times by specifying your location. This would typically be used for energy efficiency measures to control heating/cooling and more specifically in conforming to building services requirements for time switch control of external lighting.

Every Astro switch comes with an insertable programming key which can be used to transfer programs from time switch to time switch or from PC to time switch.



DGTA2024NFC

Control Voltage (V AC / V DC)	Contacts	Rated Load (VA, AC-1 / AC-15)	Un (V AC / V DC)		H x W x D (mm)	Item Type	Catalogue No.	\$AU
110...230	1 CO	4000 / 750	4000 / 750	NFC Smart Pro- gramming / Classic Joystick	88.8 x 35 x 60.8		DGTA1230NFC	464.00
12...24	2 CO	4000 / 750	4000 / 750	NFC Smart Pro- gramming / Classic Joystick	88.8 x 35 x 60.8		DGTA2024NFC	656.00
110...230	2 CO	4000 / 750	4000 / 750	NFC Smart Pro- gramming / Classic Joystick	88.8 x 35 x 60.8		DGTA2230NFC	656.00

Time Switches

Finder Mechanical Time Switches

- Simple to use Mechanical Time Switches
- Long life battery backup versions
- Slim, Panel mount and Din mount styles
- Daily and Weekly versions

Finder mechanical time switches (12 Series) are available in daily or weekly models. They are programmable to have the same program every day or a different program for each of the 7 days of the week.

For a comprehensive set of easy programming guides visit the NHP website.



Daily Time Switches

The 12 series daily time switch provides control of daily schedules through a mechanical clock. The time switches are available in 36 mm or 17.5 mm (1 C/O) packages dependent on your space constraints and application.

Mechanical Time Switches

Control Voltage (V AC)	Contacts	Un (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Power Reserve (time)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
250	1 NO	230	4000 / 420	100hr	90 x 17.5 x 64.5		121182300000PAS	179.00
250	1 CO	230	4000 / 420	100hr	91.5 x 72 x 51.4		123182300000PAS	195.00
250	1 CO	230	4000 / 750	100hr	105 x 36 x 60		120182300000PAS	217.00
250	1 NO	230	4000 / 420		90 x 17.5 x 64.5		121182301000PAS	231.00



120182300000PAS

Weekly Time Switches

The DGT series weekly time switch provides intelligent control of weekly schedules through an intuitive menu structure that makes programming and maintenance simple. The time switch is available in 35 mm (1 C/O).

Mechanical Time Switches

Control Voltage (V AC)	Contacts	Un (V AC / V DC)	Rated Load (VA, AC-1 / AC-15)	Power Reserve (time)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
250	1 CO	230	4000 / 420	100hr	92.5 x 72 x 51.4		123182300007PAS	229.00



123182300007PAS

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

This page intentionally left blank

Termination and Wiring Systems

Cable Management

Cable Ducting and DIN Rail	810
Cable Glands and Sleeves	814

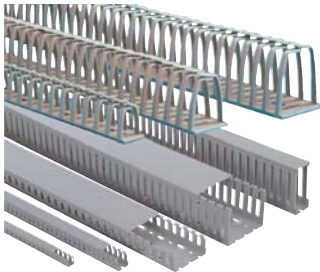
Terminals and Pre-Wired Cables

Pre-Wired Cables and Connection Systems	816
Allen-Bradley® 1492 Programmable Controller Wiring Systems	Index 816
Allen-Bradley Connection systems	Index 825
Carlo Gavazzi Connection Systems	831
Terminals - Screw	832
Sprecher + Schuh Screw Type Terminals V7-W	Index 832
Terminal Marker Cards Custom Order Form	840
Allen-Bradley Terminal Blocks	843
Terminals - Screwless	847
Allen-Bradley Push-in Terminals	Index 847
Allen-Bradley Terminal Marking System	857

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Cable Ducting and DIN Rail

Cable Duct



- Slotted, solid and flexible duct styles for any application
- Complete with cover featuring no-slip design
- Full range of sizes from 15x18mm to 200x80mm in standard 2m lengths
- Rigid, high quality construction with self-extinguishing PVC
- Wide range of complementary accessories including spare covers, separators, wire retainers and identification tags

Our wiring systems feature excellent assembly functionality and are ideal for any type of power and control panel where performance remains unaltered over time even under the heaviest operating conditions.

PVC Cable Duct

The T1 standard slotted and T1E narrow slotted range has been widely accepted for its versatility and ability to withstand harsh conditions and environments. Ideal for small to large size wiring jobs, this specially formulated PVC allows repeated opening and closing on the duct fingers without breaking. The TA Solid range is also available with completed solid walls offer extra strength when slotted ducting is not required.

The wire retainers with predetermined break-lines T1 slotted and T1E narrow slotted range has been widely accepted for its versatility and ability to withstand harsh conditions and environments. Ideal for small to medium size wiring jobs, this specially formulated PVC allows repeated opening and closing on the duct fingers without breaking. Where the ducting catches alight in the case of fire, the PVC properties of the cable ducting will allow the flame to extinguish. - Rigid PVC, RAL 7030 Grey - Self extinguishing - Complete with cover - High quality no-slip cover design - Standard lengths of 2 metres

Standard Slotted Duct - T1

2 Metre Length (MOQ Applies)



T1.25.30

Item Description	Item Type	Catalogue No.	SAU
CABLE DUCT STANDARD SLOT W25xH30xL2000mm (BOX OF 36 = 72M)	I	T1.25.30	30.00
CABLE DUCT STANDARD SLOT W25xH40xL2000mm (BOX OF 36 = 72M)	I	T1.25.40	36.00
CABLE DUCT STANDARD SLOT W25xH60xL2000mm (BOX OF 24 = 48M)	I	T1.25.60	46.00
CABLE DUCT STANDARD SLOT W40xH40xL2000mm (BOX OF 20 = 40M)	I	T1.40.40	47.00
CABLE DUCT STANDARD SLOT W25xH80xL2000mm (BOX OF 24 = 48M)	I	T1.25.80	62.00
CABLE DUCT STANDARD SLOT W60xH40xL2000mm (BOX OF 12 = 24M)	I	T1.60.40	62.00
CABLE DUCT STANDARD SLOT W80xH40xL2000mm (BOX OF 12 = 24M)	I	T1.80.40	69.00
CABLE DUCT STANDARD SLOT W40xH80xL2000mm (BOX OF 16 = 32M)	I	T1.40.80	74.00
CABLE DUCT STANDARD SLOT W60xH60xL2000mm (BOX OF 12 = 24M)	I	T1.60.60	77.00
CABLE DUCT STANDARD SLOT W25xH100xL2000mm (BOX OF 8 = 16M)	I	T1.25.100	91.00
CABLE DUCT STANDARD SLOT W80xH60xL2000mm (BOX OF 12 = 24M)	I	T1.80.60	91.00
CABLE DUCT STANDARD SLOT W60xH80xL2000mm (BOX OF 12 = 24M)	I	T1.60.80	92.00
CABLE DUCT STANDARD SLOT W40xH100xL2000mm (BOX OF 8 = 16M)	I	T1.40.100	108.00
CABLE DUCT STANDARD SLOT W80xH80xL2000mm (BOX OF 12 = 24M)	I	T1.80.80	112.00
CABLE DUCT STANDARD SLOT W100xH60xL2000mm (BOX OF 8 = 16M)	I	T1.100.60	664.00
CABLE DUCT STANDARD SLOT W60xH100xL2000mm (BOX OF 4 = 8M)	I	T1.60.100	119.00
CABLE DUCT STANDARD SLOT W80xH100xL2000mm (BOX OF 4 = 8M)	I	T1.80.100	129.00
CABLE DUCT STANDARD SLOT W100xH80xL2000mm (BOX OF 8 = 16M)	I	T1.100.80	801.00
CABLE DUCT STANDARD SLOT W100xH100xL2000mm (BOX OF 4 = 8M)	I	T1.100.100	459.00
CABLE DUCT STANDARD SLOT W150xH100xL2000mm (BOX OF 4 = 8M)	I	T1.150.100	218.00

Pricing in this document is for information only. Please access the NHP Customer Portal under 'My Account'.

Narrow Slotted Duct - T1E

Per Length (2 Metre Length)

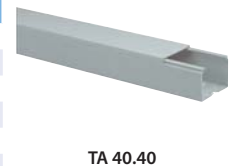
Width (mm)	Height (mm with cover)	Length (mm)	Package (qty)	Item Type	Catalogue No.	\$AU
25	40	2000	1	I	T1-E 25X40 G	32.00
40	40	2000	1	I	T1-E 40X40 G	46.00
25	80	2000	1	I	T1-E 25X80 G	57.00
40	60	2000	1	I	T1-E 40X60 G	58.00
40	80	2000	1	I	T1-E 40X80 G	69.00
60	60	2000	1	I	T1-E 60X60 G	75.00
40	100	2000	1	I	T1E40X100G	84.00
80	60	2000	1	I	T1-E 80X60 G	86.00
60	80	2000	1	I	T1-E 60X80 G	92.00
60	100	2000	1	I	T1E60X100G	110.00
80	80	2000	1	I	T1-E 80X80 G	110.00
80	100	2000	1	I	T1E80X100G	131.00
100	100	2000	1		T1E100X100GBOX	431.00
80	40	2000	1		T1E80X40GBOX	622.00
100	80	2000	1		T1E100X80GBOX	758.00
25	60	2000	1		T1E25X60GBOX	829.00



Solid Duct - TA

Per Length (2 Metre Length)

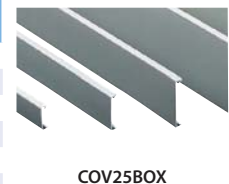
Width (mm)	Height (mm with cover)	Length (mm)	Package (qty)	Item Type	Catalogue No.	\$AU
40	40	2000	1	I	TA 40.40	46.00
60	60	2000	1	I	TA 60.60	73.00
80	60	2000	1	I	TA 80.60	86.00
100	40	2000	1	I	TA 100-40	121.00
100	80	2000	1	I	TA 100.80	127.00
120	60	2000	1	I	TA 120.60	130.00
200	80	2000	1	I	TA 200.80	236.00



PVC Cable Duct Accessories - T1, T1E and TA

Spare Covers

Item Description	Item Type	Catalogue No.	\$AU
Cover For 25mm Wide Ducting	I	COV25BOX	350.00
Cover For 40mm Wide Ducting	I	COV40BOX	400.00
Cover For 60mm Wide Ducting	I	COV60BOX	525.00
Cover For 80mm Wide Ducting	I	COV80BOX	575.00
Cover For 100mm Wide Ducting	I	COV100BOX	600.00
Cover For 120mm Wide Ducting	I	COV120BOX	700.00
Cover For 150mm Wide Ducting	I	COV150BOX	1,020.00



Separator

Item Description	Item Type	Catalogue No.	\$AU
Separator For 40mm High Duct	I	SEP-E40	21.00
Separator For 80mm High Duct		SEP-E80	24.00



Wiring Retainers



CL40.40

Duct Width (mm)	Duct Height (mm)	Item Type	Catalogue No.	\$AU
40	40		CL40.40	6.40
40	60		CL40.60	6.75
60	40		CL60.40	6.75
40	80		CL40.80	7.20
60	60		CL60.60	7.60
60	80		CL60.80	8.20
60	100		CL60.100	8.55
80	80		CL80.80	10.00
100	80		CL100.80	11.00
80	100		CL80.100	11.00
100	100		CL100.100	17.00
150	100		CL150.100	18.00

Duct Fixing Rivets and Tools



RT6

Item Description	Item Type	Catalogue No.	\$AU
Duct Fixing Rivets 4mm (QTY 100)	I	DUCTAFIX R4	46.00
Duct Fixing Rivets 6mm (QTY 100)		DUCTAFIX R6	94.00
Rivet Tool For R6 Rivets	I	RT6	365.00

Mounting Inserts



ZP2 FIXING

Item Description	Item Type	Catalogue No.	\$AU
Fixing Lug		ZP2 FIXING	2.55

Ductamark Identification Tag



DUCTAMARK 1

Item Description	Item Type	Catalogue No.	\$AU
Identification Tag		DUCTAMARK 1	2.30

Cable Duct Cutting Tool

Item Description	Item Type	Catalogue No.	\$AU
Cable Duct Cutting Tool	I	4F	655.00

Cable Ducting and DIN Rail

NHP DIN Rail

- Broad range of materials including zinc plated steel, aluminium and copper
- Solid or slotted styles for easy mounting.
- Various sizes in both 15mm and 35mm widths with 5.5, 7.5 or 15mm depths
- Up to 3m lengths available

DIN rail is (RoHS) compliant as it is treated with galvanic zinc plating and passivation.



Aluminium

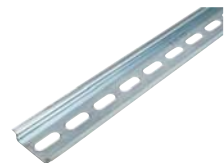
Item Description	Item Type	Catalogue No.	\$AU
Din rail 35mm * 7.5mm 2 meter length - Aluminium		NDRA-35-2	47.00
Din rail 35mm * 7.5mm 3 meter length - Aluminium		NDRA-35-3	75.00



NDRA-35-2

Steel

Item Description	Item Type	Catalogue No.	\$AU
Steel DIN rail, Slotted (2 metres)		SDR-2	49.00



SDR-2

Accessories

Item Description	Item Type	Catalogue No.	\$AU
DIN Rail End Cap Plastic Suits 35X7.5mm Price Per Piece		DINCAP	1.60



DINCAP

Cable Glands and Sleeves

nVent HOFFMAN Self Sealing Cable Glands



- Easily installed and economically priced
- High ingress protection, IP 67
- Temperature resistance: -40°C to +110°C.
- Suitable for holes in materials of 0.5 to 4mm thickness.
- Chemical and oil resistant
- Excellent insulation and mechanical properties
- Made from one piece EPDM and halogen free

The nVent HOFFMAN CED double protection cable entry provides an easy to use rubber grommet for cable installation.



CED16

IP 67 Self Sealing Cable Glands

Gland Size	ØDiameter (mm, min-max)	ØCutout (mm)	D (mm)	Depth in Enclo- sure (mm depth)	ØExternal (mm)	Item Type	Catalogue No.	\$AU
M16	5 - 9	16.5	17.7	11	21		CED16	1.90
M20	8 - 13	20.5	20	13.4	25.5		CED20	3.10
M25	11 - 17	25.5	21.3	15.3	30.5		CED25	3.85
M32	15 - 20	32.5	24.6	18.6	38.5		CED32	5.65
M40	19 - 28	40.5	29.5	21.7	48.5		CED40	12.00
M50	27 - 35	50.5	34.8	25	60.5		CED50	23.00

Pricing in this document is invalid – for pricing and availability please access the My Account portal under 'My Account'

Cable Glands and Sleeves

Eriflex Cable Sleeves

- High temperature resistance and Halogen free material
- Ideal for all cable management applications
- Gives flexible mechanical protection to cable looms

The Eriflex Cable Sleeves offer quick and easy screening and mechanical protection to the wire bundle which remains flexible although rigidly held. Ideal for all applications where flexibility and protection is required.



Glass Fibre Braided Sleeving

Erico Glass fibre braided sleeving provides thermal insulation and mechanical protection and is expandable on a 1 to 3 ratio with working temperatures from -70°C to +400°C.

Item Description	Item Type	Catalogue No.	\$AU
Glass Fibre Braided Sleeving 8-24mm	I	556210	21.00
Glass Fibre Braided Sleeving 10-30mm		556220	22.00



556210

Pre-Wired Cables and Connection Systems

Allen-Bradley® 1492 Programmable Controller Wiring Systems

ControlLogix Pre-Wired Cables, Terminal Block to IFM Connector	Page 816
ControlLogix Module Wired Cables, Terminal Block to Flying Lead	Page 818
CompactLogix Pre-Wired Cables, Terminal Block to IFM Connector	Page 818
CompactLogix Module Wired Cables, Terminal Block to Flying Lead	Page 820
MicroLogix/Micro800 Module Wired Cables, Terminal Block to Flying Lead	Page 821
SLC Pre-Wired Cables, Terminal Block to IFM Connector	Page 821
SLC Module Wired Cables, Terminal Block to Flying Lead	Page 821
Digital Interface Modules (IFM)	Page 821
Analogue Interface Modules (AIFMs)	Page 822
PLC-5 to ControlLogix Conversion Modules Pre-Wired Cables	Page 823
PLC-5 to ControlLogix Conversion Modules	Page 823
PLC-5 to ControlLogix Conversion Mounting Assemblies	Page 823
Pre-Wired Cable Accessories	Page 824



- Increases machine building productivity
- Simplifies design and engineering time
- Reduces wiring time and wiring errors
- Benefits from quality-looking panels
- Supports conversions from Modicon 800 and 1771 PLC-5® systems to 1756 ControlLogix® I/O
- Various models and cable lengths of the 1492 Programmable Controller wiring systems are available on ab.com. Contact NHP for further information

The bulletin 1492 pre-wired cables are designed to minimize control wiring in a panel. Pre-wired cables, when used with an IFM, replace the point-to-point wiring between Allen-Bradley® programmable controller I/O modules and individual terminal blocks. The pre-wired cables have a removable terminal block or wiring arm at the PLC end of the cable and a cable connector on the other end to connect to the IFM. All of the pre-wired cables use a #22 AWG wire and are 100% tested for continuity to make a perfect connection every time. The I/O-ready cables have an I/O removable terminal block or wiring arm factory-wired to one end to of the cable and free connectors on the other end for wiring into standard terminal blocks or other type of connectors. I/O-ready cables have individual color-coded conductors for quick wire-to-terminal coordination. The I/O-ready cables use #18 AWG conductors for higher current applications or longer cable runs. The Digital IFM-ready cables have a cable connector that attached to the IFM factory wired to one end and free connectors ready to wire to I/O modules or other components on the other end. IFM-ready cables use #22 AWG wire and have individual color-coded conductors for quick wire-to-terminal coordination.

ControlLogix Pre-Wired Cables, Terminal Block to IFM Connector

ControlLogix Digital Pre-Wired Cables

1756-IA16, 1756-IM16I, 1756-OA16I, 1756-IB16D, 1756-IB16I, 1756-IH16I, 1756-OB8EI, 1756-OB16D (except SIL IFM), 1756-OB16I, 1756-OH8I, 1756-OW16I, 1756-OX8I (ALL 8 and 16pt using 1756-TBCH) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For Isolated 1756 16-pt I/O Modules, 40 conductors, #22 AWG, W/1756-TBCH Connector & IFM 40-pin connector, Length 0.5 Meter (1.64 Feet)	I	1492-CABLE005Y	446.89
Pre-Wired Cable For Isolated 1756 16-Pt I/O Modules, 40 Conductors, #22 AWG, W/1756-Tbch Connector & IFM 40-Pin Connector, Length 1.0 Meter (3.28 Feet)		1492-CABLE010Y	446.89
Pre-Wired Cable For Isolated 1756 16-Pt I/O Modules, 40 Conductors, #22 AWG, W/1756-Tbch Connector & IFM 40-Pin Connector, Length 2.5 Meter (8.2 Feet)		1492-CABLE025Y	537.75
Pre-Wired Cable For Isolated 1756 16-Pt I/O Modules, 40 Conductors, #22 AWG, W/1756-Tbch Connector & IFM 40-Pin Connector, Length 5.0 Meter (16.4 Feet)	I	1492-CABLE050Y	628.56

1756-IA16, 1756-IN16, 1756-OA16, 1756-IB16, 1756-IC16, 1756-IV16, 1756-OB16E, 1756-OV16E (ALL 16pt using 1756-TBNH) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For Std. 1756 16-Pt I/O Modules, 20 Conductors, #22 AWG, W/1756-TBNH Connector & IFM 20-Pin Connector, Length 1.0 Meter (3.28 Feet)		1492-CABLE010X	234.33
Pre-Wired Cable For Std. 1756 16-Pt I/O Modules, 20 Conductors, #22 AWG, W/1756-TBNH Connector & IFM 20-Pin Connector, Length 2.5 Meter (8.2 Feet)		1492-CABLE025X	257.95

1756-IA32, 1756-IB32, 1756-IV32, 1756-OB32, 1756-OV32E, 1756-OB16D (SIL IFM only) (ALL 32pt using TBCH) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1756 32-Pt I/O Modules, 40 Conductors, #22 AWG, W/1756-Tbch Connector & IFM 40-Pin Connector, Length 1.0 Meter (3.28 Feet)		1492-CABLE010Z	446.89
Pre-Wired Cable For 1756 32-Pt I/O Modules, 40 Conductors, #22 AWG, W/1756-Tbch Connector & IFM 40-Pin Connector, Length 2.5 Meter (8.2 Feet)		1492-CABLE025Z	537.75
Pre-Wired Cable For Isolated 1756 16-Pt I/O Modules, 40 Conductors, #22 AWG, W/1756-Tbch Connector & IFM 40-Pin Connector, Length 5.0 Meter (16.4 Feet)		1492-CABLE050Z	628.56



1492-CABLE010Z

ControlLogix Analogue Pre-Wired Cables

1756-IF16 (Differential, Current), 1756-IF8H (Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1756-IF16 (Diff. Current) or 1756-IF8H (Current/Hart) Analog Input Module, 9 Twisted-Pair Conductors, #22 AWG, Shielded, W/1756-TBCH Connector & AIFM 25-Pin D-Shell Connector, Length 1.0 Meter (3.28 feet)		1492-ACABLE010UD	472.32
Pre-Wired Cable For 1756-IF16 (Diff. Current) or 1756-IF8H (Current/Hart) Analog Input Module, 9 Twisted-Pair Conductors, #22 AWG, Shielded, W/1756-TBCH Connector & AIFM 25-Pin D-Shell Connector, Length 2.5 Meter (8.2 feet)		1492-ACABLE025UD	563.16
Pre-Wired Cable For 1756-IF16 (Diff. Current) or 1756-IF8H (Current/Hart) Analog Input Module, 9 Twisted-Pair Conductors, #22 AWG, Shielded, W/1756-TBCH Connector & AIFM 25-Pin D-Shell Connector, Length 5.0 Meter (16.4 Feet)		1492-ACABLE050UD	653.96



1492-ACABLE010UD

1756-IF16 (Single-Ended, Current), 1756-IF16H (Single-Ended) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1756-IF16 (S-Ended Current) Analog Input Module, 20 Conductors, #22 AWG, Shielded, W/1756-TBCH Connector & AIFM 25-Pin D-Shell Connector, Length 1.0 Meter (3.28 feet)		1492-ACABLE010UB	472.32
Pre-Wired Cable For 1756-IF16 (S-Ended Current) Analog Input Module, 20 Conductors, #22 AWG, Shielded, W/1756-TBCH Connector & AIFM 25-Pin D-Shell Connector, Length 2.5 Meter (8.2 feet)		1492-ACABLE025UB	563.16
Pre-Wired Cable For 1756-IF16 (S-Ended Current) Analog Input Module, 20 Conductors, #22 AWG, Shielded, W/1756-TBCH Connector & AIFM 25-Pin D-Shell Connector, Length 5.0 Meter (16.4 Feet)		1492-ACABLE050UB	653.96



1492-ACABLE010UB

1756-IF8 (Single-Ended, Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1756-IF8 (S-Ended Current) Analog Input Module, 20 Conductors, #22 AWG, Shielded, W/1756-TBCH Connector & AIFM 25-Pin D-Shell Connector, Length 2.5 Meter (8.2 feet)		1492-ACABLE025TB	563.16
Pre-Wired Cable For 1756-IF8 (S-Ended Current) Analog Input Module, 20 Conductors, #22 AWG, Shielded, With 1756-TBCH Connector & AIFM 25-Pin D-Shell Connector, Length 5 Meter (16.4 Feet)		1492-ACABLE050TB	653.96



1492-ACABLE025TB

1756-OF4 (Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1756-OF4 (Current) Analog Output Module, 20 Conductors, #22 AWG, Shielded, W/1756-TBNH Connector & AIFM 15-Pin D-Shell Connector, Length 2.5 Meter (8.2 feet)		1492-ACABLE025VB	361.52



1492-ACABLE025VB

1756-OF8 (Current), 1756-OF8H (Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1756-OF8 (Current) or 1756-OF8H (Current/Hart) Analog Output Module, 9 Twisted-Pair Conductors, #22 AWG, Shielded, W/1756-TBNH Connector & AIFM 25-Pin D-Shell Connector, Length 2.0 Meter (8.2 feet)		1492-ACABLE025WB	381.50
Pre-Wired Cable For 1756-OF8 (Current) or 1756-OF8H (Current/Hart) Analog Output Module, 9 Twisted-Pair Conductors, #22 AWG, Shielded, W/1756-TBNH Connector & AIFM 25-Pin D-Shell Connector, Length 5.0 Meter (16.4 Feet)		1492-ACABLE050WB	445.09



1492-ACABLE050WB

ControlLogix Module Wired Cables, Terminal Block to Flying Lead

1756-IA16D, 1756-IA16, 1756-IN16, 1756-OA8, 1756-OA8D, 1756-OA8E, 1756-OA16, 1756-ON8, 1756-IB16, 1756-IC16, 1756-IV16, 1756-OB8, 1756-OB16E, 1756-OC8, 1756-OV16E Module Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Module Ready Cable, 40 Conductors 4 Not Connected, #18 Awg, W/1756-TBNH Connector, Length 2.5 Meter (8.2 Feet)		1492-CABLE025TBNH	257.95
Digital I/O Module Ready Cable, 20 Conductors, #18 Awg, W/1756-TBNH Connector, Length 5.0 Meter (16.4 Feet)		1492-CABLE050TBNH	283.38

1756-IA16I, 1756-IA32, 1756-IM16I, 1756-OA16I, 1756-IB16D, 1756-IB16I, 1756-IB32, 1756-IH16I, 1756-IV32, 1756-OB8EI, 1756-OB16D, 1756-OB16I, 1756-OB16IS, 1756-OB32, 1756-OH8I, 1756-OV32E, 1756-OW16I, 1756-OX8I Module Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Module Ready Cable, 40 Conductors 4 Not Connected, #18 Awg, W/1756-TBCH Connector, Length 2.5 Meter (8.2 Feet)		1492-CABLE025TBCH	539.54
Digital I/O Module Ready Cable, 40 Conductors 4 Not Connected, #18 Awg, W/1756-TBCH Connector, Length 5.0 Meter (16.4 Feet)		1492-CABLE050TBCH	628.56



1492-CABLE025TBCH

CompactLogix Pre-Wired Cables, Terminal Block to IFM Connector

CompactLogix Digital Pre-Wired Cables

1769-IQ16, 1769-IQ16F Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-IQ16 And -IQ16F Modules, 20 Conductor, #22 AWG, W/1769-RTBN18 And 20-Pin IFM Connector, Length 1.0 Meter (3.28 Feet)		1492-CAB010B69	162.39
Pre-Wired Cable For 1769-IQ16 And -IQ16F Modules, 20 Conductor, #22 AWG, W/1769-RTBN18 And 20-Pin IFM Connector, Length 2.5 Meter (8.2 Feet)		1492-CAB025B69	185.13



1492-CAB010B69

1769-IQ32 Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-IQ32 Module, 40 Conductors, #22 AWG,(2) 1769-RTBN18 W/40-Pin IFM Connector, Length 1.0 Meter (3.28 Feet)		1492-CAB010J69	272.50
Pre-Wired Cable For 1769-IQ32 Module, 40 Conductors, #22 Awg,(2) 1769-RTBN18 W/40 Pin Ifm Connector, Length 2.5 Meter (8.2 Feet)		1492-CAB025J69	326.99
Pre-Wired Cable For 1769-IQ32 Module, 40 Conductors, #22 Awg,(2) 1769-RTBN18 W/40 Pin Ifm Connector, Length 5.0 Meter (16.4 Feet)	I	1492-CAB050J69	394.23



1492-CAB010J69

1769-OA16 (All IFMs except Master [LED indication] IFMs) / OW16 (All IFMs except LED Indicating Narrow IFMs) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-OA16 And -OW16 Modules Using Two Commons, 20 Conductors, #22 AWG, W/ 1769-RTBN18 And 20-Pin IFM Connector, Length 2.5 Meter (8.2 Feet)	I	1492-CAB025M69	185.13

1769-OA16 (Master [LED indication] IFMs) / OW16 (LED Indicating Narrow IFMs) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Prewired Cable for 1769-OA16 and -OW16 modules using one common, 20 Conductors, #22 AWG, w/ 1769-RTBN18 and 20-Pin IFM connector, length 2.5 meter (8.2 feet)	I	1492-CAB025H69	185.13

1769-OA8, OW8 Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Prewired Cable for 1769-OA8 and -OW8 modules, 20 Conductors, #22 AWG, w/ 1769-RTBN10 and 20-Pin IFM connector, length 2.5 meter (8.2 feet)	I	1492-CAB025C69	185.13

1769-OB16, OV16 Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-OB16 And -OV16 Modules, 20 Conductors, #22 AWG, W/ 1769-RTBN18 And 20-Pin IFM Connector, Length 2.5 Meter (8.2 Feet)		1492-CAB025E69	185.13

1769-OB32 Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-OB32 Module, 40 Conductors, #22 AWG,(2) 1769-RTBN18 W/40-Pin IFM Connector, Length 1.0 Meter (3.28 Feet)	I	1492-CAB010K69	272.50
Pre-Wired Cable For 1769-OB32 Module, 40 Conductors, #22 AWG,(2) 1769-RTBN18 W/40 Pin IFM Connector, Length 2.5 Meter (8.2 Feet)	I	1492-CAB025K69	326.99



1492-CAB010K69

1769-OW8I Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-wired Cable for 1769-OW8I Module, 20 Conductors, #22 AWG, with 1769-RTBN10 and 20-Pin IFM Connector, Length 1.0 meter (3.28 feet)	I	1492-CAB010D69	162.39

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 5370 L1 Embedded I/O Modules 1.0 Meter (3.28 feet) 2x20 Pin	I	1492-CAB01020L1	295.00
Pre-Wired Cable For 5370 L1 Embedded I/O Modules 2.5 Meter (8.2 feet) 2x20 Pin	I	1492-CAB02520L1	326.06
Pre-Wired Cable For 5370 L1 Embedded I/O Modules 2.5 Meter (8.2 feet) 40 Pin	I	1492-CAB02540L1	326.06

CompactLogix Analogue Pre-Wired Cables

1769-OF4 (Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Module Ready Cable For 1769 Analogue Output 2.5 Meter (8.2 feet)	I	1492-ACAB025AC69	208.90

1769-OF4CI (Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Module Ready Cable For 1769 Analogue Input 2.5 Meter (8.2 feet)	I	1492-ACAB025AE69	208.90

1769-IF8 (Differential, Voltage) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Module Ready Cable For 1769 Analogue Input 2.5 Meter (8.2 feet)	I	1492-ACAB025EE69	341.50

1769-IF4 (Differential, Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-IF4 (Diff. Current) Analog Input, 5 Twisted Conductors, #22 AWG, Shielded, With 1769-RTBN18 Connector & AIFM 15 Pin D-Shell Connector, Length 2.5 Meter (8.2 Feet)	I	1492-ACAB025BD69	208.90

1769-IF4 (Single-Ended, Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-IF4 (S-Ended Current) Analog Input, 5 Twisted Conductors, #22 AWG, Shielded, With 1769-RTBN18 Connector & AIFM 15 Pin D-Shell Connector, Length 2.5 Meter (8.2 Feet)	I	1492-ACAB025BB69	208.90

1769-IF4 (Single-Ended, Voltage) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
1769-IF4 SING-END VOLTAGE PREWIRED CABLE 2.5M	I	1492-ACAB025BA69	208.90

1769-IF8 (Differential, Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-IF8 (Diff. Current) Analog Input, 20 Conductors, #22 AWG, Shielded, With Two 1769-RTBN18 Connector & AIFM 25 Pin D-Shell Connector, Length 1 Meter (3.28 Feet)	I	1492-ACAB010ED69	283.38
Pre-Wired Cable For 1769-IF8 (Diff. Current) Analog Input, 20 Conductors, #22 AWG, Shielded, W/Two 1769-RTBN18 Connectors & AIFM 25-Pin D-Shell Connector, Length 2.5 Meter (8.2 Feet)	I	1492-ACAB025ED69	341.50



1492-ACAB025ED69

1769-IF8 (Single-Ended, Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-IF8 (S-Ended Current) Analog Input, 20 Conductors, #22 AWG, Shielded, w/two 1769-RTBN 18 Connectors & AIFM 25-Pin D-Shell Connector, Length 2.5 Meter (8.2 feet)		1492-ACAB025EB69	341.50

1769-IF8 (Single-Ended, Voltage) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Prewired Cable for 1769-IF8 (S-Ended) Analog Input, 20 conductors, #22 AWG, shielded, With Two 1769-RTBN18 connector & AIFM 25-Pin D-shell connector, length 2.5 meter (8.2 feet)		1492-ACAB025EA69	341.50

1769-OB16, 1769-OV16 Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
PRE WIRED ANALOGUE CABLE	I	1492-ACAB025E69	305.19

1769-OF2 (Current) Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-OF2 (Current) Analog Output, 5 Twisted Conductors, #22 AWG, Shielded, With 1769-RTBN10 Connector & AIFM 15 Pin D-Shell Connector, Length 2.5 Meter (8.2 Feet)	I	1492-ACAB025AB69	208.90

1769-OF8C, 1769-OF8V Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1769-OF8C or -OF8V Analog Output, 20 Conductors, #22 AWG, Shielded, W/1769-RTBN 18 Connector & AIFM 25-Pin D-Shell Connector, Length 2.5 Meter (8.2 feet)		1492-ACAB025D69	305.19



1492-ACAB025D69

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Module Ready Cable For 5370 L2 Embedded I/O Modules 2.5 Meter (8.2 feet) 2x20 Pin	I	1492-CAB02520DIOL2	326.06
Digital I/O Module Ready Cable For 5370 L2 Embedded I/O Modules 2.5 Meter (8.2 feet) 40 Pin	I	1492-CAB02540DIOL2	326.06

L2 Embedded Analogue I/O Pre-Wired Cables, Current In/Out

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 5370 L2 Embedded I/O Modules 2.5 Meter (8.2 feet)	I	1492-ACAB025AIOCL2	POA
Pre-Wired Cable For 5370 L2 Embedded I/O Modules 1.0 Meter (3.28 feet)	I	1492-ACAB010AIOCL2	256.19

CompactLogix Module Wired Cables, Terminal Block to Flying Lead

1769-IA8I, 1769-IA16, 1769-IM12, 1769-OA16, 1769-IQ16, 1769-IQ16F, 1769-OB16, 1769-OV16, 1769-OW8I, 1769-OW16 Module Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Ready Cable Using Type RTN18, 20 Conductor, #18 AWG, With 1769-RTN18 connector, Length 1.0 Meter (3.28 feet)	I	1492-CAB010RTN18	164.43
Digital I/O Ready Cable Using Type RTN18, 20 Conductor, #18 AWG, w/ 1769-RTN18 connector, length 2.5 meter (8.2 feet)		1492-CAB025RTN18	185.13



1492-CAB010RTN18

1769-IQ32 Module Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Ready Cable Using Type RTN321, 40 Conductor (2 Not Connected), #18 AWG, W/ 1769-Rtn18 Connector, Length 2.5 Meter (8.2 Feet)		1492-CAB025RTN32I	346.97

1769-OB32 Module Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Ready Cable Using Type RTN320, 40 Conductor, #22 AWG, w/ 1769-RTN18 connector, length 2.5 meter (8.2 feet)		1492-CAB025RTN32O	346.97

MicroLogix/Micro800 Module Wired Cables, Terminal Block to Flying Lead

MicroLogix1200/Micro8xx Expansion I/O Wired Terminal Cables

2085IQ32T, 1762-IQ32T, 1762-OB32T, 1762-OV32T Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Module Ready Cable, 2085 / 1762 32 DI/DO Wired Terminal Cable, Top Exit 1.0m	I	1492-CAB010U62	238.50
Digital I/O Module Ready Cable, 2085 / 1762 32 DI/DO Wired Terminal Cable, Top Exit 2.5m		1492-CAB025U62	319.39



1492-CAB010U62

SLC Pre-Wired Cables, Terminal Block to IFM Connector

SLC Digital I/O Pre-Wired Cables

1746-IB32, 1746-IV32, 1746-OB32, 1746-OB32E, 1746-OV32, 2085-IQ32T Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For 1746 32-Pt DC I/O Modules, 40 Conductors, #22 AWG, W/1746-N3 Connector & IFM 40-Pin Connector, Length 1.0 Meter (3.28 Feet)		1492-CABLE010H	243.41
Pre-Wired Cable For 1746 32-Pt DC I/O Modules, 40 Conductors, #22 AWG, W/1746-N3 Connector & IFM 40-Pin Connector, Length 2.5 Meter (8.2 Feet)		1492-CABLE025H	332.44

SLC Module Wired Cables, Terminal Block to Flying Lead

1746-IQ32T, 1746-OB32T, 1746-OV32T Module Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Digital I/O Module Ready Cable, 40 Conductors, #22 AWG, W/1746-N3 Connector, Length 2.5 Meter (8.2 Feet)		1492-CABLE025N3	332.44

Digital Interface Modules (IFM)

Digital IFMs are available with either a 20- or 40-pin cable connector. This is determined by the number of connections required for the I/O module. The number of terminals varies with the type of IFM from one to four terminals per I/O point.

Standard Terminal IFMs

Standard Terminal IFMs provide one field-side wiring terminal per programmable controller input or output point, as well as enough terminals for the I/O module power connections. The standard terminals are ideal for applications where the I/O device commons are terminated in the field or remotely from the I/O panel.

Item Description	Item Type	Catalogue No.	\$AU
Digital Interface Module 20-Point Feed-Through Digital IFM, Standard		1492-IFM20F	159.87
Digital Interface Module 40-Point Feed-Through Digital IFM, Standard		1492-IFM40F	236.90
Digital Interface Module 20-Point Feed-Through Digital IFM, Extra Terminals	I	1492-IFM20F-2	239.81
Digital Interface Module 40-Point Feed-Through Digital IFM, Extra Terminals		1492-IFM40F-2	489.77

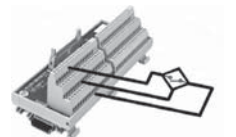


1492-IFM20F-2

Feed-Through Digital IFM

The Feed-through IFMs provided the same capability as normal terminal blocks, but in a more condensed package.

Item Description	Item Type	Catalogue No.	\$AU
Digital Interface Module 20-Point Feed-Through Digital IFM, 3-Wire Sensor Type Inputs	I	1492-IFM20F-3	374.96
Digital Interface Module 40-Point Feed-Through Digital IFM, 3-Wire Sensor Type Inputs	I	1492-IFM40F-3	624.94



1492-IFM20F-3

Fusible Terminal Modules

Fusible modules provide a convenient method of adding overcurrent protections into your programmable controller wiring. These modules have 5 x 20 fuse holders on-board and are available with and without blown fuse indication. The 24 V, 120 V, and 240 V blown fuse indicators reduce the troubleshooting time to locate and replace a blown fuse on the IFM. Fusible modules have an easy-to-remove, transparent plexiglass cover that prevents objects from contacting fuse circuitry under normal operation. Removal of fuses from the standard fuse holder is aided by fuse pullers (fuses not provided). The fusible modules also have two or four terminals per I/O point to create a power bus for input and output load connections. Fusible modules are available in both isolated (Cat. No. 1492-IFM20F-FS24-2) and non-isolated (Cat. No. 1492-IFM20F-F24-2) versions. There are a select number of fusible IFMs available for input modules.



1492-IFM20F-F-2

Item Description	Item Type	Catalogue No.	\$AU
IFM Digital 20 Pin Fusible OUT-2/PT	I	1492-IFM20F-F-2	374.96
40-Point Isolated Fusible Digital IFM, 5 x 20mm Fuse Clips, Extra Terminals for Outputs	I	1492-IFM40F-FS-2	404.03
Digital Interface Module 20-Point Fusible Digital IFM, 5 X 20mm Fuse Clips, 24V AC/DC Blown Fuse Indicators, Extra Terminals For Outputs	I	1492-IFM20F-F24-2	489.77
20-Point Fusible Digital IFM, 5 x 20mm Fuse Clips, 24V AC/DC Blown Fuse Indicators, Extra Terminals for Inputs	I	1492-IFM20F-F24A-2	489.77
Digital Interface Module 40-Point Isolated Fusible Digital IFM, 5 X 20mm Fuse Clips, 24V AC/DC Blown Fuse Indicators, Extra Terminals For Outputs	I	1492-IFM40F-FS24-2	511.57
IFM DIGITAL 40PIN FUSIBLE OUT-4/PT-ISO	I	1492-IFM40F-FS-4	656.90
Digital Interface Module 40-Pin Fusible 24V AC/DC In-4/Pt-Iso-Blown	I	1492-IFM40F-FS24A-4	704.86
40-Point Isolated Fusible Digital IFM, 5 x 20mm Fuse Clips, 24V AC/DC Blown Fuse Indicators, Extra Terminals for Outputs	I	1492-IFM40F-F24-2	879.27

LED Terminal Modules

Voltage-indicating LEDs are available on standard, extra terminal, and sensor IFMs. The LEDs provide field-side troubleshooting diagnostics: the on/off status of an input device or the on/off status of the programmable controller output circuit. When used in conjunction with the logic-side programmable controller LEDs, the IFM LEDs can help determine whether a problem resides in the I/O module or in the field device/wiring. LED IFMs are available in both Isolated (Cat. No. 1492-IFM20DS24-4) and non-Isolated (Cat. No. 1492-IFM20D120) versions for 24 V, 120 V, and 240 V applications.



1492-IFM20D120

Item Description	Item Type	Catalogue No.	\$AU
IFM Digital 20 Pin LED 120V AC/DC	I	1492-IFM20D120	297.94
20-Point Digital IFM, 24V AC/DC LED Indicators, Standard	I	1492-IFM20D24	297.94
Digital Interface Module 40-Point, 24V AC/DC LED Indicators, Standard	I	1492-IFM40D24	479.59
Digital Interface Module 40-Pin Led 24/48V AC/DC Out-4/Pt-Iso	I	1492-IFM40DS24-4	547.91
Digital Interface Module Digital 40-Pin LED 24V AC/DC In-2/Pt	I	1492-IFM40D24A-2	739.74
40-Point Digital IFM, 24V AC/DC LED Indicators, 3-Wire Sensor Type Inputs	I	1492-IFM40D24-3	879.27

Relay Terminal Modules

Relay master XIMs feature field-replaceable relays with 120 V or 24 V rated coils. The field-side Form C contacts are rated 240 V 10 A (derated to 12 A per adjacent pair on the XIM). The Form C relay output provides isolated output channels and a different voltage level from one output channel to the next. Other features include coil-side LED indicating the output module status, and transient suppression on each coil. In addition, some relay masters have 5x20 fuse holders so customers can fuse the output contacts. Available in 16 pt or 32 pt modules, the high density relay modules eliminate the need for extender relay modules. Available in easily replaceable plug-in style electromechanical or solid-state relays. LED indicator lights are provided for each output circuit with removable terminal blocks (RTBs) available as an option for connecting the field devices.



1492-XIMTR4024-32R

Item Description	Item Type	Catalogue No.	\$AU
Digital Interface Module Relay Expander Module, 24V DC, 16 Relays With Fusing	I	1492-XIM24-16RF	1,037.67
Digital Interface Module 40-Pin Relay Master Digital IFM, 24V DC, 16 Relays With Fusing	I	1492-XIM4024-16RF	1,066.41
Digital Interface Module 40-Pin High Density Mechanical Relay, 24V DC, 32 Relays, Mechanical High Density Digital Relay Interface Module	I	1492-XIMTR4024-32R	1,181.38

Analogue Interface Modules (AIFMs)

The Analogue AIFMs are available with either 15- or 25-pin D-Shell connections. This is determined by the number of connections that are required by the I/O module.

Feed-Through Modules

Feed-through IFMs provide the same capability as normal terminal blocks but in a more condensed package. Standard terminal IFMs provide three field-side wiring terminals per programmable controller analogue input or output point, which includes enough terminals for the device shield and power connections.

Fixed Terminal Block

1492-AIFM6S-3

Item Description	Item Type	Catalogue No.	\$AU
Analogue Interface Module Feed-Through 4 Channel Analogue IFM, 3 Terminals Per Channel	I	1492-AIFM4-3	206.70
Analogue Interface Module Feed-Through Isolated 6 Channel Analogue IFM, 3-4 Terminals Per Input	I	1492-AIFM6S-3	233.66
Analogue Interface Module Feed-Through 8 Channel Analogue IFM, 3 Terminals Per Input	I	1492-AIFM8-3	260.62

Fusible Terminal Modules

The fusible analogue interface input modules provide a convenient method to fuse the input power source on the field side. The field-side power source is distributed through individual on-board 5 x 20 fuse holders. The AIFMs have a 24 V DC blown fuse indicator to reduce the troubleshooting time required to locate and replace a blown fuse. Fusible modules have an easy-to-remove transparent plexiglass cover to prevent objects from contacting fuse circuitry under normal operation. Standard fuse holders reside in the IFM, aiding in the removal of a fuse with a fuse puller (fuses are not included). Isolation switch plugs, or 'dummy fuses', are also available to isolate an input circuit once power is removed. In addition, once the circuit has been isolated and power restored, the input loop current can be measured in 2-wire transmitter applications. The fusible modules also have three or five terminals per I/O analogue input point to create a power bus for device shield and power connections.

Item Description	Item Type	Catalogue No.	\$AU
Analogue Interface Module Fusible 8 Channel Analogue IFM, 24V Blown Fuse Indicators, 5 Terminals Per Input		1492-AIFM8-F-5	465.82
Analogue Interface Module 16 Analogue Inputs 3Pin Fusible Blown Fuse Led		1492-AIFM16-F-3	620.09
Fusible 16 Channel Analog IFM, 24V Blown Fuse Indicators, 5 Terminals per Input		1492-AIFM16-F-5	772.87



1492-AIFM8-F-5

PLC-5 to ControlLogix Conversion Modules Pre-Wired Cables**PLC-5 to ControlLogix Conversion Analogue Pre-Wired Cables**

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For Conversion from 1771 to 1756 Digital I/O Modules 0.5 Meter (1.64 feet)		1492-CONCAB005X	358.44
Pre-Wired Cable For Conversion from 1771 to 1756 Digital I/O Modules 1.0 Meter (3.28 feet)	I	1492-CONCAB010X	375.19
Pre-Wired Cable For Conversion from 1771 to 1756 Digital I/O Modules 0.5 Meter (1.64 feet)		1492-CONCAB005Y	569.05
Pre-Wired Cable For Conversion from 1771 to 1756 Digital I/O Modules 1.0 Meter (3.28 feet)	I	1492-CONCAB010Y	589.98



1492-CONCAB005X

PLC-5 to ControlLogix Conversion Analogue Pre-Wired Cables

Item Description	Item Type	Catalogue No.	\$AU
Pre-Wired Cable For Conversion from 1771 to 1756 Analogue I/O Modules 0.5 Meter (1.64 feet)	I	1492-CONACAB005E	358.44
Pre-Wired Cable For Conversion from 1771 to 1756 Analogue I/O Modules 1.0 Meter (3.28 feet)	I	1492-CONACAB010E	375.19
Pre-Wired Cable For Conversion from 1771 to 1756 Analogue I/O Modules 0.5 Meter (1.64 feet)		1492-CONACAB005B	460.27
Pre-Wired Cable For Conversion from 1771 to 1756 Analogue I/O Modules 0.5 Meter (1.64 feet)		1492-CONACAB005D	460.27
Pre-Wired Cable For Conversion from 1771 to 1756 Analogue I/O Modules 1.0 Meter (3.28 feet)	I	1492-CONACAB010B	475.61
Pre-Wired Cable For Conversion from 1771 to 1756 Analogue I/O Modules 1.0 Meter (3.28 feet)	I	1492-CONACAB010D	475.61



1492-CONACAB005B

PLC-5 to ControlLogix Conversion Modules**PLC-5 to ControlLogix Digital Conversion Modules**

Item Description	Item Type	Catalogue No.	\$AU
Swing-Arm Conversion Module 1771-IAD to 1756-IA16 or 1771-IBD to 1756-IB16		1492-CM1771-LD001	289.21
Swing-Arm Conversion Module 1771-OAD to 1756-OA16 or 1771-OB16 to 1756-OB16E		1492-CM1771-LD006	354.61

PLC-5 to ControlLogix Conversion Analogue Conversion Modules

Item Description	Item Type	Catalogue No.	\$AU
Swing-Arm Conversion Module 1771-OFE2 to 1756-OF6CI or 1771-OFE1 to 1756-OF6VI		1492-CM1771-LA003	310.05
Swing-Arm Conversion Module 1771-IFE to 1756-IF16 (Single-ended Current) or 1771-IFE to 1756-IF16 (Single-ended Voltage)		1492-CM1771-LA001	332.51
Swing-Arm Conversion Module 1771-IFE to 1756-IF16 (Differential Current) or 1771-IFE to 1756-IF16 (Differential Voltage)		1492-CM1771-LA002	332.51



1492-CM1771-LA002

PLC-5 to ControlLogix Conversion Mounting Assemblies

Item Description	Item Type	Catalogue No.	\$AU
Mounting Assembly For 1771-A4B To 1756-A13 Or 1756-A17 Chassis		1492-MUA4-A13-A17	606.04



1492-MUA4-A13-A17

Pre-Wired Cable Accessories

Removable Terminal Blocks



1492-RTB20N

Item Description	Item Type	Catalogue No.	\$AU
Removable Terminal Block Screw Style 20-Pole	I	1492-RTB20N	34.01

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Pre-Wired Cables and Connection Systems

Allen-Bradley Connection systems

Pico, 3-Pin	Page 825
Pico, 4-Pin	Page 825
AC Micro, 3-Pin	Page 825
AC Micro, 4-Pin	Page 826
AC Micro, 6-Pin	Page 826
DC Micro, 4-Pin	Page 827
DC Micro, 5-Pin	Page 828
DC Micro, 8-Pin	Page 829
Mini, 3-Pin	Page 829
Mini, 4-Pin	Page 830
Mini, 5-Pin	Page 830
M23, 19-Pin	Page 830
Safety Connection Systems	Page 830

Cables and Cordsets provide secure connections for proximity sensors, limit switches, photoelectric sensors, and other field devices. Allen-Bradley offer a broad line of cordsets (connectors at each end) and patchcords (connector at one end, leads on the other), splitters and tees, distribution boxes, V- and Y-cables, field-attachable connectors and panel-mount receptacles. These components are available in a variety of connector configurations and housing materials.



Pico, 3-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	IP Rating	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67	2	I	889P-F3AB-2	30.73
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67	5		889P-F3AB-5	43.78



889P-F3AB-2

12

Pico, 4-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	IP Rating	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67	5	I	889P-F4AB-5	45.80



889P-F4AB-5

AC Micro, 3-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	IP Rating	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	2		889R-F3ECA-2	47.38
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	5		889R-F3AEA-5	59.70
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	10	I	889R-F3ECA-10	80.25



889R-F3ECA-2

AC Micro, 4-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	IP Rating	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	5		889R-F4AEA-5	63.08



889R-F4AEA-5

AC Micro, 6-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	5		889R-F6ECA-5	79.85



889R-F6ECA-5

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

DC Micro, 4-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	IP Rating	Cable (colour)	Cable (m)	Item Type	Catalogue No.	SAU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	2		889D-F4AC-2	26.12
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Right Angle	IP69K	Yellow	2		889D-R4AC-2	26.12
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	Red	2	I	889D-F4NE-2	35.63
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	5		889D-F4AC-5	36.74
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Right Angle	IP69K	Yellow	5		889D-R4AC-5	36.74
Cordset (1 Connector, 1 Set of Flying Leads)	Male	Right Angle	IP69K	Yellow	5		889D-E4AC-5	39.14
Cordset (1 Connector, 1 Set of Flying Leads)	Male	Straight Through	IP69K	Yellow	5		889D-M4AC-5	39.14
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	Red	5	I	889D-F4NE-5	53.17
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	10		889D-F4AC-10	54.43
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Right Angle	IP69K	Yellow	10		889D-R4AC-10	54.43
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Right Angle	IP69K	Yellow	5		889D-P4AC-5	56.67
Cordset (1 Connector, 1 Set of Flying Leads)	Male	Right Angle	IP69K	Yellow	10		889D-E4AC-10	56.84
Cordset (1 Connector, 1 Set of Flying Leads)	Male	Straight Through	IP69K	Yellow	10	I	889D-M4AC-10	56.84
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	15		889D-F4AC-15	72.13
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	Red	10	I	889D-F4NE-10	82.42
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	20		889D-F4AC-20	89.83
Cordset (1 Connector, 1 Set of Flying Leads)	Male	Right Angle	IP69K	Yellow	20	I	889D-E4AC-20	92.24
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	Red	15	I	889D-F4NE-15	111.67
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	30	I	889D-F4AC-30	125.23
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	Red	20	I	889D-F4NE-20	140.92
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	Red	30	I	889D-F4NE-30	199.41

889D-F4AC-2



Patchcords

Type	Connector A (type)	Connector B (type)	IP Rating	Cable (colour)	Cable (m)	Item Type	Catalogue No.	\$AU
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP69K	Yellow	2	I	889D-F4ACDM-2	45.17
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP67, IP69K	Red	0.3	I	889D-F4NEDM-0M3	49.62
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP67, IP69K	Red	0.6	I	889D-F4NEDM-0M6	51.39
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP67, IP69K	Red	1	I	889D-F4NEDM-1	53.73
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP69K	Yellow	5		889D-F4ACDM-5	55.78
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP67, IP69K	Red	2	I	889D-F4NEDM-2	59.57
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP69K	Yellow	10		889D-F4ACDM-10	73.48
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP67, IP69K	Red	5	I	889D-F4NEDM-5	77.12
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP67, IP69K	Red	10	I	889D-F4NEDM-10	106.36
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP67, IP69K	Red	15	I	889D-F4NEDM-15	135.61
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP67, IP69K	Red	20	I	889D-F4NEDM-20	164.85
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 4-pin, Female, Straight Through	M12 x 1, DC Micro, 4-pin, Male, Straight Through	IP67, IP69K	Red	30	I	889D-F4NEDM-30	223.33

Terminal Chambers

Item Description	Item Type	Catalogue No.	\$AU
Terminal Chamber, DC Micro (M12), Right-Angle, Female, 4-Pin, 4-6mm (0.16-0.24 Inch)		871A-TR4-D	58.33
Terminal Chamber, DC Micro (M12), Straight Female, 4-Pin, 6-8mm (0.24-0.32 Inch)		871A-TS4-D1	58.33
Terminal Chamber, DC Micro (M12), Straight Male, 4-Pin, 4-6mm (0.16-0.24 Inch)		871A-TS4-DM	58.33
Terminal Chamber, DC Micro (M12), Straight Male, 4-Pin, 6-8mm (0.24-0.32 Inch)		871A-TS4-DM1	58.33

Insulation Displacement Connectors

Item Description	Item Type	Catalogue No.	\$AU
Insulation Displacement Connector, DC Micro (M12), Straight Female, 4-Pin, 4-5.1mm (0.16-0.20 In)		889D-F4DC-H	34.96
Insulation Displacement Connector, DC Micro (M12), Straight Male, 4-Pin, 4-5.1mm (0.16-0.20 In)		889D-M4DC-H	34.96

DC Micro, 5-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	IP Rating	Cable (colour)	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	5		889D-F5AC-5	53.86
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	2		889D-F5AC-2	41.31
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	2	I	889D-R5AC-2	41.31
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	10		889D-F5AC-10	74.77
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	15	I	889D-F5AC-15	95.70
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K	Yellow	20	I	889D-F5AC-20	116.62



889D-F4ACDM-2



871A-TS4-DM



889D-F4DC-H



889D-R5AC-2

Patchcords

Type	Connector A (type)	Connector B (type)	Cable (colour)	Item Type	Catalogue No.	\$AU
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 5-pin, Female, Straight Through	M12 x 1, DC Micro, 5-pin, Male, Straight Through	Red	I	889D-F5NCDM-0M3	67.14
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 5-pin, Female, Straight Through	M12 x 1, DC Micro, 5-pin, Male, Straight Through	Red	I	889D-F5NCDM-0M6	68.42
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 5-pin, Female, Straight Through	M12 x 1, DC Micro, 5-pin, Male, Straight Through	Red	I	889D-F5NCDM-1	70.14
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 5-pin, Female, Straight Through	M12 x 1, DC Micro, 5-pin, Male, Straight Through	Red	I	889D-F5NCDM-2	74.42
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 5-pin, Female, Straight Through	M12 x 1, DC Micro, 5-pin, Male, Straight Through	Red	I	889D-F5NCDM-5	87.25

889D-F5NCDM-0M3



DC Micro, 8-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	IP Rating	Cable (colour)	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K, IP67	Yellow	2		889D-F8AB-2	67.02
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K, IP67	Yellow	5		889D-F8AB-5	87.17
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K, IP67	Yellow	10		889D-F8AB-10	120.78
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K, IP67	Yellow	15		889D-F8AB-15	154.37
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K, IP67	Yellow	10	I	889D-F8AC-10	155.75
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K, IP67	Yellow	20		889D-F8AB-20	187.95
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP69K, IP67	Yellow	30		889D-F8AB-30	255.15

889D-F8AB-2



Patchcords

Type	Connector A (type)	Connector B (type)	IP Rating	Cable (colour)	Cable (m)	Item Type	Catalogue No.	\$AU
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 8-pin, Female, Straight Through	M12 x 1, DC Micro, 8-pin, Male, Straight Through	IP67, IP69K	Red	0.3	I	889D-F8NBDM-0M3	95.84
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 8-pin, Female, Straight Through	M12 x 1, DC Micro, 8-pin, Male, Straight Through	IP67, IP69K	Red	0.6	I	889D-F8NBDM-0M6	97.92
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 8-pin, Female, Straight Through	M12 x 1, DC Micro, 8-pin, Male, Straight Through	IP67, IP69K	Red	1	I	889D-F8NBDM-1	100.67
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 8-pin, Female, Straight Through	M12 x 1, DC Micro, 8-pin, Male, Straight Through	IP67, IP69K	Red	2	I	889D-F8NBDM-2	107.58
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 8-pin, Female, Straight Through	M12 x 1, DC Micro, 8-pin, Male, Straight Through	IP67, IP69K	Yellow	5		889D-F8ABDM-5	127.37
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 8-pin, Female, Straight Through	M12 x 1, DC Micro, 8-pin, Male, Straight Through	IP67, IP69K	Red	5	I	889D-F8NBDM-5	128.28
Patchcord (Connector at Each End)	M12 x 1, DC Micro, 8-pin, Female, Straight Through	M12 x 1, DC Micro, 8-pin, Male, Straight Through	IP67, IP69K	Yellow	10		889D-F8ABDM-10	160.97

889D-F8NBDM-0M3



Mini, 3-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	IP Rating	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67	1.83		889N-F3AFC-6F	42.95
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67	3.66	I	889N-F3AFC-12F	58.39

889N-F3AFC-6F



Mini, 4-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Right Angle	6.1		889N-R4AFC-20F	98.16



889N-R4AFC-20F

Terminal Chambers

Item Description	Item Type	Catalogue No.	\$AU
Terminal Chamber, Mini, Straight Female, 4-Pin, 6-8mm (0.24-0.32 Inch)	I	871A-TS4-N1	65.38



871A-TS4-N1

Mini, 5-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	IP Rating	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP69K	1.83		889N-F5AF-6F	63.02



871A-TS5-N1

Terminal Chambers

Item Description	Item Type	Catalogue No.	\$AU
Terminal Chamber, Mini, Straight Female, 5-Pin, 6-8mm (0.24-0.32 Inch)	I	871A-TS5-N1	72.40

M23, 19-Pin

Cordsets

Type	Gender (ConnectorA)	Orient. (ConnectorA)	IP Rating	Cable (m)	Item Type	Catalogue No.	\$AU
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP68, IP67	2	I	889M-F19RM-2	262.01
Cordset (1 Connector, 1 Set of Flying Leads)	Female	Straight Through	IP67, IP68	10		889M-F19RM-10	379.95

Safety Connection Systems

Item Description	Item Type	Catalogue No.	\$AU
Shorting Plug, 8-Pin		898D-81RU-DM	53.17
898D-438Y-D8, T-Port, Dual-Channel, For use with SensaGuard Switches only	I	898D-438Y-D8	138.03
Distribution Box, DC Micro 19-Pin M23 Main Male Connector, No LEDs, 4 Input Ports (Dual Signals) 5-Pin, Grey		898D-58DT-M19	577.70
Safety Wired Distribution Box, 19-Pin M23 Main Male Connector, PNP LEDs, 4 Female Ports (Dual OSSD) 6-Pin, Red	I	898D-P84RT-M19	702.45
Safety Wired Distribution Box, 19-Pin M23 Main Male Connector, PNP LEDs, 8 Female Ports (Dual OSSD) 8-Pin, Red		898D-P88RT-M19	913.02

Pre-Wired Cables and Connection Systems

Carlo Gavazzi Connection Systems

- M8 or M12 style connection cables to suit AC or DC sensors
- Different cable lengths available
- M8 or M12 plugs available

Carlo Gavazzi has a complete range of cable assemblies with suitable female connectors to complement the Carlo Gavazzi sensors.



Connectors and Cables for Sensors

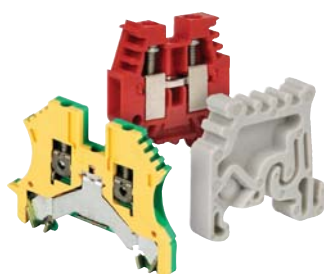
Item Description	Item Type	Catalogue No.	\$AU
CONB Series M12 Female Straight Connector with 5m PVC cable, DC, 4-Wire, IP69k		CONB14NF-S5W	93.00
CONG Series, 3-pole Female Angled Socket, M12, 5m cable		NCONH6AS5	177.00



Terminals - Screw

Sprecher + Schuh Screw Type Terminals V7-W

Through Terminals	Page 832
Double Deck Terminals	Page 833
Earth Terminals	Page 834
Double-deck Diode Terminals	Page 835
Triple Deck Terminal Blocks	Page 835
Isolating Terminals	Page 835
Duo Multiple Tie Terminals	Page 836
Proximity Switch Terminals	Page 836
Fuse Terminals	Page 836
Fuses for use with V7/1492 Fuse Terminals	Page 837
Terminal Marking System for use with V7 Terminals	Page 837
Accessories for V7 Terminals	Page 841



- Designed for ease of wiring, secure connections and durability
- Comprehensive range, offering a wide array of terminal types for various circuits and functions
- Terminals accommodate wire sizes from 0.5 to 70mm² wire cross section
- Cone shaped guide allows easy wire insertion
- Specialty terminals including two-level, grounding, diode, isolating, fuse, sensor and thermocouple terminals
- UL recognized, IEC and CSA certified.

The V7 range of Sprecher + Schuh terminals are designed to meet the three most important criteria when selecting a terminal block line - ease of wiring, secure connections and durability. The V7 range is a comprehensive array of terminal types for various circuits and functions from control to low level power. Aside from the broad selection of standard feed-through terminals various other types can be selected from including: - Two level terminals - Ground terminals - Dual connection terminals - Diode terminals - Plug-in style terminals - Various isolating terminals - Fuse terminals - Sensor terminals

Through Terminals

Available from 2.5 to 70mm², Sprecher + Schuh feed-through terminals provide the simplest method of connecting a pair of conductors. Sold as single units.



V7-W3

2.5mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Through 2.5mm ² Grey	5	50	Grey	2	800 V / 24 A		V7-W3	5.55
Terminal Through 2.5mm ² Blue	5	50	Blue	2	800 V / 24 A		V7-W3-B	5.70
Terminal Through 2.5mm ² Red	5	50	Red	2	800 V / 24 A		V7-W3-RE	5.70
Terminal Through 2.5mm ² White	5	50	White	2	800 V / 24 A		V7-W3-W	5.70



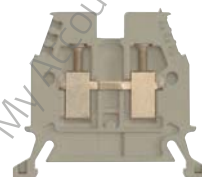
V7-W4-BL

4mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Through 4mm ² Black	6	50	Black	2	800 V / 32 A		V7-W4-BL	6.05
Terminal Through 4mm ² Grey	6	50	Grey	2	800 V / 32 A		V7-W4	5.80
Terminal Through 4mm ² Blue	6	50	Blue	2	800 V / 32 A		V7-W4-B	5.80
Terminal Through 4mm ² Red	6	50	Red	2	800 V / 32 A		V7-W4-RE	6.05
Terminal Through 4mm ² White	6	50	White	2	800 V / 32 A		V7-W4-W	6.05

6mm²

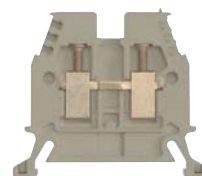
Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Through 6mm ² Grey	7	50	Grey	2	800 V / 41 A		V7-W6	8.10
Terminal Through 6mm ² Blue	7	50	Blue	2	800 V / 41 A		V7-W6-B	9.95



V7-W6

10mm²

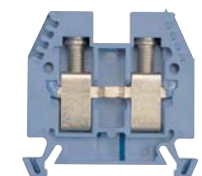
Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Through 10mm ² Grey	8	50	Grey	2	800 V / 57 A		V7-W10	9.40
Terminal Through 10mm ² Blue	8	50	Blue	2	800 V / 57 A		V7-W10-B	10.00



V7-W10

16mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Through 16mm ² Grey	11	50	Grey	2	800 V / 76 A		V7-W16S	16.00
Terminal Through 16mm ² Blue	11	50	Blue	2	800 V / 76 A		V7-W16S-B	16.00



V7-W16S-B

35mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Through 35mm ² Grey	14	50	Grey	2	750 V / 138 A		V7-W35	27.00
Terminal Through 35mm ² Blue	14	50	Blue	2	750 V / 138 A		V7-W35-B	29.00



V7-W35

70mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Through 70mm ² Grey	23	50	Grey	2	750 V / 175 A		V7-W70	94.00
Terminal Through 70mm ² Blue	23	50	Blue	2	750 V / 175 A	I	V7-W70-B	98.00



V7-W70

Double Deck Terminals

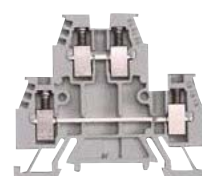
Available in 2.5mm² and 4mm² these double deck terminals provide a space saving way of connecting 2 different pairs of conductors. Sold as single units.

2.5mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Screw Terminal 2.5mm ² 24A Grey	5	50	Grey	4	500 V / 24 A		V7-WD3	22.00

4mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Through Double Deck 4mm ² Grey	6	50	Grey	4	500 V / 32 A		V7-WD4	22.00
Terminal Through Double Deck 4mm ² Blue	6	50	Blue	4	500 V / 32 A		V7-WD4-B	24.00



V7-WD4

Earth Terminals

Earth terminals are identified by their green/yellow housing colour, they are used to ground connections within the panel as well as the block itself to the DIN rail that it sits on. These earth terminals are available from 2.5 to 70mm². Sold as single units.

4mm²

V7-EBD3-Y

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
End Plate Yellow For V7WG4	1.5	50	Yellow			V7-EB3-Y	2.95
End Plate For V7WDG4C	1.5	50	Yellow			V7-EBD3-Y	4.50
Terminal Earth 4mm ² Green/Yellow	6	50	Green & Yellow (Earth)	2		V7-WG4	21.00
Terminal Double Earth 4mm ²	6	50	Green & Yellow (Earth)	4		V7-WDG4C	42.00

6mm²

V7-WG6

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
End Plate Yellow For V7WG6/WG10	1.5	50	Yellow			V7-EB10-Y	5.60
Terminal Earth 6mm ² Green/Yellow	7	50	Green & Yellow (Earth)	2		V7-WG6	25.00

10mm²

V7-WG10S

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
Terminal Earth 10mm ² Green/Yellow	8	10	Green & Yellow (Earth)	2		V7-WG10S	36.00

16mm²

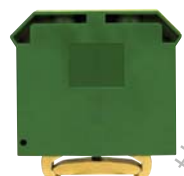
V7-WG16

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
Terminal Earth 16mm ² Green/Yellow	13	10	Green & Yellow (Earth)	2		V7-WG16	61.00

35mm²

V7-WG35

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
Terminal Earth 35mm ² Green/Yellow	18	50	Green & Yellow (Earth)	2		V7-WG35	98.00

70mm²

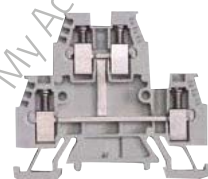
V7-WG70

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
Terminal Earth 70mm ² Green/Yellow	22	50	Green & Yellow (Earth)	2		V7-WG70	135.00

Double-deck Diode Terminals

Double deck diode terminals provide a space saving method of connecting two pairs of conductors via a diode in either forward or reverse bias. Sold as single units.

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Through Double Deck 2.5mm ²	6	50	Grey	4	300 V / 10 A		V7-WD4C	23.00
V7 Diode Terminal Forward Bias	6	50	Grey	4	300 V / 1 A		V7-WD4DF	42.00



V7-WD4C

Triple Deck Terminal Blocks

Triple deck terminals provide a space saving method of connecting three pairs of conductors. Sold as single units.

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Triple Deck 2.5mm ² Grey	5.1	50	Grey	6	250 V / 24 A		V7-WTF3	35.00



V7-WTF3

Isolating Terminals

The Sprecher + Schuh range of isolating terminals covers fuse, plug and knife disconnect type terminals. Easy to use and also provides visual indication via LED / neon if needed. Sold as single units.

Fuse and plug disconnect terminal blocks 4 mm²

5 x 20mm fuse, 4mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Fuse 4-10M 5 x 20	8	50	Black	2	500 / 6.3		V7-WFB4	35.00
Terminal Fuse 4-10M 5 x 20 LED Indicator	8	50	Black	2	500 / 6.3		V7-WFB424	50.00
Terminal Fuse 4-10M 5 x 20 Neon Indicator	8	50	Black	2	500 / 6.3	I	V7-WFB4250	57.00



V7-WFB424

6.3 x 32mm fuse, 4mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Screw terminal for 6.3x32mm fuse and 4mm ² conductor. No Indication.	9.1	50	Black	4	500 / 12		V7-H6	48.00
Screw terminal for 6.3x32mm fuse and 4mm ² conductor. LED Indication.	9.1	50	Black	4	500 / 12	I	V7-H5	61.00



V7-H6

Fuse and disconnect terminals 2.5 mm²

Plug-in Style Block

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Disconnect 2.5mm ²	6	50	Grey	2	800 / 32		V7-W4P	17.00



V7-W4P



V7-FP4

Inserts for Plug-in Style Blocks

Item Description	W (mm)	Package (qty)	Housing (colour)	Item Type	Catalogue No.	\$AU
Disconnect Plug For V7W4P/W4PT	6	50	Grey	I	V7-DP4	9.65
5 x 20mm Fuse Disconnect Plug No Indication	6	50	Dark Grey	I	V7-FP4	24.00
5 x 20mm Fuse Disconnect Plug Wth 24V LED	6	50	Dark Grey	I	V7-FP424	42.00

Knife disconnect terminal blocks 2.5 mm² and 6 mm²2.5mm²

V7-WKD3

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Knife Disconnect 2.5mm ² Grey	5	50	Grey	2	800 / 15		V7-WKD3	25.00

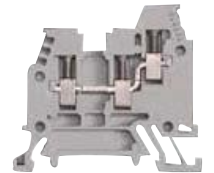
6mm²

V7-WKD6

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Knife Disconnect 6mm ² Grey	9	50	Grey	2	800 / 32		V7-WKD6	82.00

Duo Multiple Tie Terminals

Allows two conductors on one side, one conductor on the other side to junctioning conductors together. Sold as single units.



V7-W3TW

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Duo Multi Tie 2.5mm ² Grey	5	50	Grey	3	800 V / 24 A		V7-W3TW	15.00

Proximity Switch Terminals

These proximity switch terminals are suitable for use with sensors and other similar products which require an NPN or PNP set up. Sold as single units.



V7-WTS3

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Sensor Terminal Block 3 Wire 2.5mm ²	6	50	Grey	4	250 V / 24 A		V7-WTS3	48.00

Fuse Terminals

These fuse terminals come with the provision to install a fuse of up to 6.3A rating in either 5 x 20mm or 6.3 x 32mm fuse sizes. Sold as single units.



V7-WFB10V

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Terminal Fuse 10mm ² T/S 5X20mm ²	8	50	Dark Grey	2	250 V / 10 A		V7-WFB10V	42.00
Terminal Fuse 10mm ²	9	50	Dark Grey	2	250 V / 10 A	I	V7-WFB10VA	48.00

Fuses for use with V7/1492 Fuse Terminals

5 x 20mm

FuseRating (A)	Item Type	Catalogue No.	\$AU
1		V4-1F	2.40
2		V4-2F	2.40



V4-1F

6.3 x 32mm

FuseRating (A)	Item Type	Catalogue No.	\$AU
0.5	I	V4-05FA1	2.60
10		V4-10FA1	2.60
1	I	V4-1FA1	2.60
2		V4-2FA1	2.60



V4-10FA1

Terminal Marking System for use with V7 Terminals

To view the V7 Marker Card printing form please visit: www.nhp.com.au/forms (Australia) or www.nhp-nz.com/forms (New Zealand)

Blank Marker Cards - Contains 100 Marker Tags

Item Description	Item Type	Catalogue No.	\$AU
Marker Card Blank 5X9mm ²		V7-SM5X9	22.00
Marker Card Blank 6X12mm ²		V7-SM6X12	22.00
Marker Card Blank 5X12mm ²		V7-SM5X12	23.00



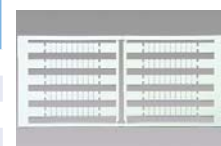
V7-SM5X9

Pre-marked Tags

V7 pre-marked tags take the hassle out of marking all of your terminal blocks. These marker cards come pre-printed with many different sequences available.

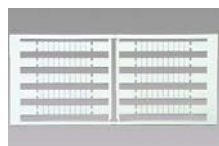
Sequential Cards to suit 2.5 mm² Terminals

Item Description	Item Type	Catalogue No.	\$AU
Marking Tag 5mm ² Strip 0~9		V7-SM5X9H00	62.00
Marking Tag 5mm ² Strip 1~10		V7-SM5X9H01	62.00
Marking Tag 5mm ² Strip 11~20		V7-SM5X9H02	62.00
Marking Tag 5mm ² Strip 21~30		V7-SM5X9H03	62.00
Marking Tag 5mm ² Strip 31~40		V7-SM5X9H04	62.00
Marking Tag 5mm ² Strip 41~50		V7-SM5X9H05	62.00
Marking Tag 5mm ² Strip 51~60	A	V7-SM5X9H06	62.00
Marking Tag 5mm ² Strip 61~70	A	V7-SM5X9H07	62.00
Marking Tag 5mm ² Strip 71~80	A	V7-SM5X9H08	62.00
Marking Tag 5mm ² Strip 81~90	A	V7-SM5X9H09	62.00
Marking Tag 5mm ² Strip 91~100	A	V7-SM5X9H10	62.00
Marking Tag 5mm ² Strip 1~100		V7-SM5X9H100	62.00
Marking Tag 5mm ² Strip 101~200		V7-SM5X9H200	62.00
Marking Tag 5mm ² Strip 201~300	A	V7-SM5X9H300	62.00



V7-SM5X9H05

Sequential Cards to suit 4 mm² Terminals



V7-SM6X12H08

Item Description	Item Type	Catalogue No.	\$AU
Marking Tag 6mm ² Strip 1~10		V7-SM6X12H01	62.00
Marking Tag 6mm ² Strip 11~20		V7-SM6X12H02	62.00
Marking Tag 6mm ² Strip 21~30		V7-SM6X12H03	62.00
Marking Tag 6mm ² Strip 31~40		V7-SM6X12H04	62.00
Marking Tag 6mm ² Strip 41~50		V7-SM6X12H05	62.00
Marking Tag 6mm ² Strip 51~60		V7-SM6X12H06	62.00
Marking Tag 6mm ² Strip 61~70		V7-SM6X12H07	62.00
Marking Tag 6mm ² Strip 71~80	A	V7-SM6X12H08	62.00
Marking Tag 6mm ² Strip 81~90	A	V7-SM6X12H09	62.00
Marking Tag 6mm ² Strip 91~100	A	V7-SM6X12H10	62.00
Marking Tag 6mm ² Strip 1~100		V7-SM6X12H100	62.00
Marking Tag 6mm ² Strip 101~200	A	V7-SM6X12H200	62.00
Marking Tag 6mm ² Strip 201~300	A	V7-SM6X12H300	62.00

Series MP 6 mm for V7-W4 to V7-W70



V7-MP-K

Item Description	Item Type	Catalogue No.	\$AU
Marking Tag, for V7W4 to V7W70, Q-Strip of 10 tags	A	V7-MP-Q	5.10
Marking Tag, for V7W4 to V7W70, Y-Strip of 10 tags	A	V7-MP-Y	5.10
Marking Tag, for V7W4 to V7W70, Z-Strip of 10 tags	A	V7-MP-Z	5.10
Marking Tag, for V7W4 to V7W70, I-Strip of 10 tags	A	V7-MP-I	5.25
Marking Tag, for V7W4 to V7W70, J-Strip of 10 tags	A	V7-MP-J	5.25
Marking Tag, for V7W4 to V7W70, 0...9-Strip of 10 tags		V7-MP	5.60
Marking Tag, for V7W4 to V7W70, 0-Strip of 10 tags		V7-MP-0	5.60
Marking Tag, for V7W4 to V7W70, 1-Strip of 10 tags		V7-MP-1	5.60
Marking Tag, for V7W4 to V7W70, 2-Strip of 10 tags		V7-MP-2	5.60
Marking Tag, for V7W4 to V7W70, 3-Strip of 10 tags		V7-MP-3	5.60
Marking Tag, for V7W4 to V7W70, 4-Strip of 10 tags		V7-MP-4	5.60
Marking Tag, for V7W4 to V7W70, 5-Strip of 10 tags	I	V7-MP-5	5.60
Marking Tag, for V7W4 to V7W70, 6-Per Strp 10		V7-MP-6	5.60
Marking Tag, for V7W4 to V7W70, 7-Per Strp 10	I	V7-MP-7	5.60
Marking Tag, for V7W4 to V7W70, 8-Per Strp 10		V7-MP-8	5.60
Marking Tag, for V7W4 to V7W70, 9-Per Strp 10		V7-MP-9	5.60
Marking Tag, for V7W4 to V7W70, A-Per Strp 10		V7-MP-A	5.60
Marking Tag, for V7W4 to V7W70, 'AC' Symbol	A	V7-MP-AC	5.60
Marking Tag, for V7W4 to V7W70, Blank-Strip of 10 tags		V7-MP-BLANK	5.60
Marking Tag, for V7W4 to V7W70, C-Strip of 10 tags	I	V7-MP-C	5.60
Marking Tag, for V7W4 to V7W70, D-Strip of 10 tags	I	V7-MP-D	5.60
Marking Tag, for V7W4 to V7W70, E-Strip of 10 tags	I	V7-MP-E	5.60
Marking Tag, for V7W4 to V7W70, F-Strip of 10 tags	I	V7-MP-F	5.60
Marking Tag, for V7W4 to V7W70, G-Strip of 10 tags	A	V7-MP-G	5.60
Marking Tag, for V7W4 to V7W70, H-Strip of 10 tags	I	V7-MP-H	5.60
Marking Tag, for V7W4 to V7W70, K-Strip of 10 tags	I	V7-MP-K	5.60
Marking Tag, for V7W4 to V7W70, L-Strip of 10 tags	I	V7-MP-L	5.60
Marking Tag, for V7W4 to V7W70, N-Strip of 10 tags	I	V7-MP-N	5.60
Marking Tag, for V7W4 to V7W70, P-Strip of 10 tags	I	V7-MP-P	5.60
Marking Tag, for V7W4 to V7W70, '+' Symbol	I	V7-MP-POS	5.60
Marking Tag, for V7W4 to V7W70, R-Strip of 10 tags	I	V7-MP-R	5.60
Marking Tag, for V7W4 to V7W70, S-Strip of 10 tags	I	V7-MP-S	5.60
Marking Tag, for V7W4 to V7W70, T-Strip of 10 tags	I	V7-MP-T	5.60
Marking Tag, for V7W4 to V7W70, U-Strip of 10 tags	A	V7-MP-U	5.60
Marking Tag, for V7W4 to V7W70, V-Strip of 10 tags	I	V7-MP-V	5.60
Marking Tag, for V7W4 to V7W70, W-Strip of 10 tags	A	V7-MP-W	5.60
Marking Tag, for V7W4 to V7W70, X-Strip of 10 tags	I	V7-MP-X	5.60
Marking Tag, for V7W4 to V7W70, M-Strip of 10 tags	A	V7-MP-M	23.00

Series MP5 5 mm for V7-W3 Terminals

Item Description	Item Type	Catalogue No.	\$AU
Marking Tags 5mm S Card of 100	I	V7-MP5-S	31.00
Marking Tags 5mm T Card of 100	I	V7-MP5-T	31.00
Marking Tag, for V7W3, 0-Card of 100 tags	I	V7-MP5-0	35.00
Marking Tag, for V7W3, 1-Card of 100 tags	I	V7-MP5-1	35.00
Marking Tag, for V7W3, 0-9 Card of 100 tags	I	V7-MP5-10	35.00
Marking Tag, for V7W3, 2-Card of 100 tags	I	V7-MP5-2	35.00
Marking Tag, for V7W3, 3-Card of 100 tags	I	V7-MP5-3	35.00
Marking Tag, for V7W3, 4-Card of 100 tags	I	V7-MP5-4	35.00
Marking Tag, for V7W3, 5-Card of 100 tags	I	V7-MP5-5	35.00
Marking Tag, for V7W3, 6-Card of 100 tags	I	V7-MP5-6	35.00
Marking Tag, for V7W3, 7-Card of 100 tags	I	V7-MP5-7	35.00
Marking Tag, for V7W3, 8-Card of 100 tags	I	V7-MP5-8	35.00
Marking Tag, for V7W3, 9-Card of 100 tags	I	V7-MP5-9	35.00
Marking Tag, for V7W3, ~ Card of 100 tags	A	V7-MP5-AC	35.00
Marking Tag, for V7W3, Bnk-Card of 100 tags	I	V7-MP5-BLANK	35.00
Marking Tag, for V7W3, C-Card of 100 tags	A	V7-MP5-C	35.00
Marking Tag, for V7W3, D-Card of 100 tags	A	V7-MP5-D	35.00
Marking Tag, for V7W3, = Card of 100 tags	A	V7-MP5-DC	35.00
Marking Tag, for V7W3, - Card of 100 tags	A	V7-MP5-GND	35.00
Marking Tag, for V7W3, K-Card of 100 tags	I	V7-MP5-K	35.00
Marking Tag, for V7W3, L-Card of 100 tags	I	V7-MP5-L	35.00
Marking Tag, for V7W3, - Card of 100 tags	A	V7-MP5-NEG	35.00
Marking Tag, for V7W3, U-Card of 100 tags	I	V7-MP5-U	35.00
Marking Tag, for V7W3, V-Card of 100 tags	I	V7-MP5-V	35.00
Marking Tag, for V7W3, W-Card of 100 tags	I	V7-MP5-W	35.00
Marking Tag, for V7W3, Z-Card of 100 tags	A	V7-MP5-Z	35.00
Marking Tag, for V7W3, + Card of 100 tags	I	V7-MP5-POS	36.00

V7-MP5-1



Group Marker Carrier

Item Description	Item Type	Catalogue No.	\$AU
Group Marker Carrier For V7		V7-GM35	8.85



V7-GM35

Terminal Marker Cards | Custom Order Form

CUSTOMER DETAILS		CUSTOMER SERVICE ONLY	
Company Name		Purchase Order Number	
Company Contact		NHP Sales Order Number	
Contact Number		NHP Sales Representative	
Email Address		Date	

Custom terminal marker cards can be printed horizontally or vertically.

Refer to the NHP pricelists for blank terminal marker Cat No. and the number of rows and columns per marker card.



1492-MXxX, 1492-SMXxX



sprecher+schuh

V7-SMXxX, V7-MPxx, V7-MP5xx



Vertical orientation



Horizontal orientation

Custom marker card details:

CAT NO.	REPEAT SEQUENCE	ORIENTATION	QUANTITY	WHAT TO PRINT
V7-SM6x12	Yes	Vertical	4	Example 1-50
Note 1 Refer to the NHP pricelists for the relevant terminal marker card Cat No.	Note 2 Repeat sequence refers to repeating the sequence of numbers that are to be printed. For example where there are multiple terminal rails with similar numbering then the sequence of numbers (e.g: 1 to 14) can be repeated until the number card is filled up.	Note 3 Vertical or Horizontal Orientation of how the text will appear with respect to the terminal. Refer to the above diagram.	Note 4 Number of terminal marker cards required.	Note 5 Refer to NHP pricelists for the quantity of marker tags per card. For custom text, a table of the marker card can be drawn with the custom text marked out. Generally 2 digits can be printed on the cards horizontally and 3 digits vertically. If more digits are required then please consult with NHP.



sprecher+schuh

 **Allen-Bradley**

Accessories for V7 Terminals

Centre Jumper Links

Item Description	Item Type	Catalogue No.	\$AU
Centre Jumper Link For V7W3/WD	I	V7-CJL5	4.10
Centre Jumper Link For V7W4/WD	I	V7-CJDL6	4.20
Centre Jumper Link For V7W4/WD	I	V7-CJL6	4.30



V7-CJL6

Centre Jumpers

Item Description	Item Type	Catalogue No.	\$AU
Jumper Bar Centre 2 Pole For V7W3		V7-CJ5-2	5.70
Jumper Bar Centre 2 Pole For V7W4		V7-CJ6-2	7.35
Jumper Bar Centre 2 Pole For V7W6		V7-CJ7-2	7.45
Jumper Bar Centre 2 Pole for V7WD4		V7-CJD6-2	8.35
Jumper Bar Centre 3 Pole For V7W3		V7-CJ5-3	8.50
Jumper Bar Centre 2 Pole For V7W10		V7-CJ8-2	9.95
Jumper Bar Centre 3 Pole For V7W4		V7-CJ6-3	10.00
Jumper Bar Centre 3 Pole For V7W6		V7-CJ7-3	12.00
Jumper Bar Centre 3 Pole for V7WD4		V7-CJD6-3	14.00
Jumper Bar Centre 3 Pole For V7W10		V7-CJ8-3	17.00
Jumper Bar Centre 2 Pole For V7W16		V7-CJS11-2	18.00
Jumper Bar Centre 3 Pole For V7W16		V7-CJS11-3	25.00
Jumper Bar Centre 10 Pole For V7W3		V7-CJ5-10	27.00
Jumper Bar Centre 2 Pole For V7W35		V7-CJ14-2	35.00
Jumper Bar Centre 10 Pole For V7W4		V7-CJ6-10	37.00
Jumper Bar Centre 10 Pole For V7WT		V7-CJT5-10	37.00
Jumper Bar Centre 10 Pole For V7W6		V7-CJ7-10	40.00
Jumper Bar Centre 10 Pole For V7W3		V7-CJD5-10	40.00
Jumper Bar Centre 10 Pole for V7WD4		V7-CJD6-10	40.00
Jumper Bar Centre 3 Pole For V7W35		V7-CJ14-3	49.00
Jumper Bar Centre 10 Pole For V7W10		V7-CJ8-10	49.00
Jumper Bar Centre 10 Pole For V7W10		V7-CJS11-10	83.00
Jumper Bar Centre 50 Pole for V7WD4		V7-CJD6-50	97.00
Jumper Bar Centre 50 Pole For V7W4		V7-CJ6-50	140.00
Jumper Bar Centre 40 Pole For V7W6		V7-CJ7-40	146.00
Jumper Bar Centre 50 Pole For V7W3		V7-CJ5-50	165.00
Jumper Bar Centre 50 Pole For V7WT		V7-CJT5-50	179.00



V7-CJ6-2

Side Jumpers

Item Description	Item Type	Catalogue No.	\$AU
Jumper Bar Side 10 Pole For V7W3		V7-SJ5-10	16.00
Jumper Bar Side 10 Pole For V7W4		V7-SJ6-10	16.00
Jumper Bar Side 10 Pole For V7W10		V7-SJ8-10	20.00
Jumper Bar Side 10 Pole For V7WFB4		V7-SJFB8-10	31.00



V7-SJ5-10

Component Plug

Item Description	Item Type	Catalogue No.	\$AU
V7 Component Plug Bare		V7-CP4	25.00



V7-CP4

End Plates



V7-EBD3

Item Description	Item Type	Catalogue No.	\$AU
End Plate Grey For V7W3/W4		V7-EB3	2.40
End Plate Grey For V7WKD3		V7-EBKD3	3.75
End Plate Grey For V7WD3/WD4		V7-EBD3	4.20
End Plate Grey 4 V7WB10V/10VA		V7-EBFB10V	4.70
End Plate for V7W6/W10/W16S Grey		V7-EB10	5.10
End Plate Grey For V7W3TW		V7-EB3TW	5.10
End Plate V7-N37 for V7-H4,H5,H6		V7-N37	5.40
End Plate For V7WTF3		V7-EBTF3	7.10
End Plate Grey For V7WTS3	I	V7-EBTS3	7.10
End Plate Grey For V7W35		V7-EB35	10.00

Separation Plates



V7-SP3

Item Description	Item Type	Catalogue No.	\$AU
Separation Plate For V7W3		V7-SP3	2.60
Separation Plate Grey For V7WD		V7-SPD3	3.50

Partition Plates



V7-PP10

Item Description	Item Type	Catalogue No.	\$AU
Snap In Partition For V7W6/W10		V7-PP10	4.50
Snap In Partition For V7W3/W4		V7-PP3	4.70
Snap In Partition For V7WTS	I	V7-PPTS3	5.10
Snap In Partition For V7WD3/WD4		V7-PPD3	6.20
Snap In Partition For V7W35		V7-PP35	7.10
Snap In Partition For V7WFB4/V7H6		V7-PPSL3	7.45

End Clamps



V7-EAH35

Item Description	Item Type	Catalogue No.	\$AU
End Clamp Standard For V7		V7-EA35	9.40
End Clamp Heavy Duty For V7		V7-EAH35	20.00

Test Plugs



V7-TA40

Item Description	Item Type	Catalogue No.	\$AU
Test Plug For V7W4/W6/W10/WD4/WD6/WDG4P/WD4	I	V7-TP28	14.00
Test Plug Adaptor For V7W4/W6/W10	I	V7-TA40	57.00

Warning Plates



V7-EWP6-4

Item Description	Item Type	Catalogue No.	\$AU
Warning Plate For V7W4		V7-EWP6-4	18.00

Terminals - Screw

Allen-Bradley Terminal Blocks

Through Terminals	Page 843
Earth Terminals	Page 844
Double Level Terminals	Page 845
Isolating Terminals	Page 845
Plug-in Style Terminals	Page 845
Fuse Terminals	Page 845
Diode Terminals	Page 846
Accessories for 1492 Terminals	Page 846

- Copper current bar and tin-plated surface
- Counter-sinking of clamping screws
- Multiple center jumper options—screw-type or three channels for plug-in type
- Four-sided wire funnel guides for easy wire insertion
- Finger-safe housings to prevent accidental contact with live circuits
- Compatible with high visibility snap-in marker cards
- CE marked and UL recognised
- DIN Rail mountable, allowing terminal blocks to be placed on the same channel as contactors, starters, relays, and other control devices
- Self-extinguishing, polyamide 6.6 housing material with UL 94-V0 flammability rating



Screw terminations are a time-proven method of wire connection. Their greatest advantage is the ability to connect multiple wires to a single terminal, saving panel space and providing decent visual indication of wire connection. The 1492-J/W range is a comprehensive array of terminal types for various circuits and functions from control to low level power. Aside from the broad selection of standard feed-through terminals many other types of terminals can be offered including: - Two level terminals - Ground terminals - Dual connection terminals - Diode terminals - Plug-in style terminals - Various isolating terminals - Fuse terminals - Sensor terminals

Through Terminals

Available in wire sizes from 2.5 to 120mm², the Allen-Bradley 1492-J/W range of feed-through terminals provides the simplest method of connecting conductors. Sold as single units.

2.5 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Feed Through Terminal 2.5mm Grey	5.1	100	Grey	2	800 V / 24 A		1492-J3	3.07



1492-J3

12

4 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Feed Through Terminal 4mm Grey	6.1	100	Grey	2	800 V / 32 A		1492-J4	3.38



1492-J4

6 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Feed Through Terminal 6mm Grey	8.1	100	Grey	2	800 V / 41 A		1492-J6	4.75



1492-J6



1492-J10

10 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Feed Through Terminal 10mm Grey	10	50	Grey	2	1000 V / 57 A		1492-J10	5.90



1492-J16

16 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Feed Through Terminal 16mm Grey	12	50	Grey	2	1000 V / 76 A		1492-J16	10.12



1492-J35

35 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Feed Through Terminal 35mm Grey	15.9	40	Grey	2	1000 V / 125 A		1492-J35	19.18

Earth Terminals

Earth terminals are identified by their green/yellow housing colour, they are used to ground connections within the panel as well as the block itself to the DIN rail that it sits on. Available in wire sizes ranging from 2.5 to 35mm². Sold as single units



1492-JG3

2.5 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
Screw Terminal Earth 2.5mm 1 Conductor Green/Yellow	5.1	100	Green & Yellow (Earth)	2		1492-JG3	15.40



1492-JG4

4 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
Screw Terminal Earth 4mm 1 Conductor Green/Yellow	6.1	100	Green & Yellow (Earth)	2		1492-JG4	15.86



1492-JG6

6 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
Screw Terminal Earth 6mm 1 Conductor Green/Yellow	8.1	50	Green & Yellow (Earth)	2		1492-JG6	17.09



1492-JG10

10 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
Screw Terminal Earth 10mm 1 Conductor Green/Yellow	10	50	Green & Yellow (Earth)	2	I	1492-JG10	18.65

35 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Item Type	Catalogue No.	\$AU
Screw Terminal Earth 35mm 1 Conductor Green / Yellow	16	50	Green & Yellow (Earth)	2		1492-JG35	32.68



1492-JG35

Double Level Terminals

Available in 2.5 and 4 mm² these double level terminals provide a space saving way of connecting 2 different pairs of conductors. Sold as single units.

2.5 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Screw Terminal 2.5mm 2 Conductor 24A Grey	5.1	100	Grey	4	400 V / 24 A		1492-JD3	10.10



1492-JD3

4 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Screw Terminal 4mm 2 Conductor 32A Grey	6.1	100	Grey	4	400 V / 32 A		1492-JD4	13.44



1492-JD4

Isolating Terminals

The Allen-Bradley range of isolating terminals covers fuse, plug and knife disconnect type terminals. Easy to use and also provides visual indication via LED / neon if needed. Sold as single units.

Knife Disconnect Isolating Terminal 2.5 mm²

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Screw Terminal K/ Disconnect 2.5mm 1 Conductor 24A Grey	5.1	50	Grey	2	500 V / 24 A	I	1492-JKD3	11.47



1492-JKD3

Plug-in Style Terminals

These terminals allow for extra components to be inserted between the two conductors at the user's discretion. Sold as single units.

2.5 mm² 2 Conductor

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Screw Terminal Plug In 2.5mm 2 Conductor 24A Grey	5.1	50	Grey	4	500 V / 24 A	I	1492-JD3P	14.66



1492-JD3P

Fuse Terminals

These fuse terminals come with the provision to install a fuse of up to 6.3A size in either 5x20 mm or 6.3x32 mm. Sold as single units.

Fuse terminal with no indication

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Fuse Terminal 4mm Black Non-Indicating	8	50	Black	2	500 V / 6.3 A		1492-WFB4	48.12



1492-WFB4

Fuse terminal with LED indication

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Fuse Terminal 4mm Black w/LED	8	50	Black	2	500 V / 6.3 A		1492-WFB424	90.99

Diode Terminals

Diode terminals provide a space saving method of connecting a pair of conductors via a diode in either forward or reverse bias. Sold as single units.



1492-JD3FB

Item Description	W (mm)	Package (qty)	Housing (colour)	Number of Conductors	Voltage Rating / Max Current (V AC/DC, A)	Item Type	Catalogue No.	\$AU
Screw Terminal 2.5mm 2 Conductor 6.3A Grey Fuse Arm	8	50	Grey	4	500 V / 6.3 A		1492-JD3FB	29.99

Accessories for 1492 Terminals

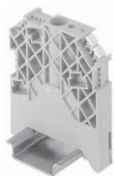
Centre Jumpers



1492-CJJ5-10

Item Description	Item Type	Catalogue No.	\$AU
Centre Jumper Screwed for 1492J3 Varieties 10P		1492-CJJ5-10	11.41
Centre Jumper Screwed for 1492J4/J4M 10P		1492-CJJ6-10	15.53

End Anchor



1492-EAHJ35

Item Description	Item Type	Catalogue No.	\$AU
End Anchor for 1492-J		1492-EAJ35	5.40
Heavy Duty End Anchor for 1492-J		1492-EAHJ35	10.63

End Plates



1492-EBJ3

Item Description	Item Type	Catalogue No.	\$AU
End Plate for 1492J3/J4/J6/J10 Varieties Grey		1492-EBJ3	2.00
End Plate for 1492/J3/J4/J6/J10 Varieties Grey		1492-EBJ16	2.35
End Barrier for 1492-JD3FB/JDG3FB		1492-EBJD3FB	3.09
End Plate for 1492JD3 Grey		1492-EBJD3	3.43
End Plate for 1492JD3P Grey	I	1492-EBJD3P	3.53

Fuse Plugs



1492-FPK2

Item Description	Item Type	Catalogue No.	\$AU
Fuse Plug for 1492L3P/J3P/JD3P/JDG3P/LD3R No Indication	I	1492-FPK2	11.96

Side Jumpers



1492-SJFB8-10

Item Description	Item Type	Catalogue No.	\$AU
SIDE JUMPER FOR ALL 1492JD3 VARIANTS 10P GRAY INSULATED	I	1492-SJ5A-10	5.91
SIDE JUMPER FOR ALL 1492JD3 VARIANTS 24P GRAY INSULATED	I	1492-SJ5A-24	12.04
Insulated Side Jumper 10 pole for 1492-WM3		1492-SJM5-10	12.69
Side Jumper 10 pole for 1492-WFB4		1492-SJFB8-10	38.57

Terminals - Screwless

Allen-Bradley Push-in Terminals

Feed-Through Blocks

Page 847

Control Power Distribution Blocks

Page 851

Sensor Blocks

Page 853

Accessories

Page 853

Notable features include

- Simple insertion of wire with minimal force.
- No strand breakage during wire insertion/removal
- No post-connection retightening or adjustment
- Plastic actuators for shock prevention
- Easy-to-see terminals from the front
- Universally-located test points for fast inspection and easy commissioning
- Application-driven designs (power distribution and sensor/signal blocks)
- Marker areas on the side and front for easy identification and quick installation.
- Easy, quick, safe and reliable wiring



The Allen-Bradley (AB) range of 1492-P terminal blocks make use of an innovative "Push-in" connection technology feature which makes wiring simpler, quicker, and more efficient while maintaining safe connections.

With the 1492-P range, a solid or ferruled conductor can be directly inserted, with minimal force, into the terminal block without using any tools and is just as easily removed from it by simply pressing on the orange coloured plastic actuator on the terminal body. Stranded conductors are inserted/removed by simply pressing down the actuator, the design mechanism also helps to prevent any strand breakage. The plastic actuator on the terminal provides a safe method of inserting and disconnecting wire as it prevents contact with live metal parts.

The push-in connection technology feature offers considerable time savings in wiring terminal blocks while maintaining safe and reliable connections. The terminals provide improved wiring accuracy and ensure quality connections are made, eliminating the need to make any post connection adjustments.

By using AB 1492-P terminal blocks, you will benefit from these wiring efficiencies, as they provide a way to rapidly connect and manage wiring of terminal blocks in a more effective manner, which in turn helps boost overall productivity and deliver cost savings. Test points are also located to test connections that have been made, this is beneficial to conduct fast inspection and easy commissioning. The terminals are also vibration-resistant and therefore prevent failure of connections when used in such conditions.

The range includes an array of different terminals such as feed-through, disconnect, fuse, plug-in and earth terminals. These types can be selected in different wire sizes, colours, number of levels (single and multi-level) and connections on the terminal body. Application driven designs are also available which have been developed to make convenient and easy connections with a small terminal profile for space saving requirements. This includes designs for control power distribution and sensor/signal blocks.

The 1492-P range is supported by a range of accessories including cross-connects, end plates, barriers, plugs and a host of marking solutions.

Feed-Through Blocks

1.5mm² Push-In Terminals

Single Deck

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	2	500V, 17.5A	3.5mm	Grey		1492-P2	2.20
Standard Terminal	3	500V, 17.5A	3.5mm	Grey	I	1492-P2T	2.79
Standard Terminal	4	500V, 17.5A	3.5mm	Grey	I	1492-P2Q	3.99
Standard Terminal	2	500V, 17.5A	3.5mm	Blue	I	1492-P2-B	2.36
Standard Terminal	3	500V, 17.5A	3.5mm	Blue	I	1492-P2T-B	2.82
Standard Terminal	4	500V, 17.5A	3.5mm	Blue	I	1492-P2Q-B	4.04
Earth Terminal	2	500V	3.5mm	Green & Yellow (Earth)	I	1492-PG2	8.20
Earth Terminal	3	500V	3.5mm	Green & Yellow (Earth)	I	1492-PG2T	9.91
Earth Terminal	4	500V	3.5mm	Green & Yellow (Earth)		1492-PG2Q	10.85
End Barrier	2			Grey		1492-EBP2	1.02
End Barrier	3			Grey	I	1492-EBP2T	1.06
End Barrier	4			Grey	I	1492-EBP2Q	1.10
End Barrier	2			Blue	I	1492-EBP2-B	1.04
End Barrier	3			Blue	I	1492-EBP2T-B	1.10
End Barrier	4			Blue	I	1492-EBP2Q-B	1.14



1492-P2

Note: To select the correct end barrier for the selected terminal block, match the number of conductors field value. E.g. if the selected terminal block takes '2' conductor connections, the correct end barrier to select for it will also have a value of '2' conductors. After that, select colour preference of the end barrier.

N3503D_dSELN-S01

2.5mm² Push-In Terminals

Single Deck



1492-P3

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	2	800V, 24A	5.1mm	Grey		1492-P3	2.54
Standard Terminal	2	800V, 24A	5.1mm	Blue		1492-P3-B	2.70
Standard Terminal	2	800V, 24A	5.1mm	Orange		1492-P3-OR	2.70
Standard Terminal	3	800V, 24A	5.1mm	Grey		1492-P3T	3.19
Standard Terminal	3	800V, 24A	5.1mm	Blue		1492-P3T-B	3.42
Standard Terminal	3	800V, 24A	5.1mm	Orange	I	1492-P3T-OR	3.42
Standard Terminal	4	800V, 24A	5.1mm	Grey		1492-P3Q	3.51
Standard Terminal	4	800V, 24A	5.1mm	Blue		1492-P3Q-B	3.63
Standard Terminal	4	800V, 24A	5.1mm	Orange		1492-P3Q-OR	3.63
Earth Terminal	2	800V	5.1mm	Green & Yellow (Earth)		1492-PG3	9.25
Earth Terminal	3	800V	5.1mm	Green & Yellow (Earth)		1492-PG3T	10.40
Earth Terminal	4	800V	5.1mm	Green & Yellow (Earth)		1492-PG3Q	13.55
End Barrier	2			Grey		1492-EBP3	1.36
End Barrier	2			Blue		1492-EBP3-B	1.46
End Barrier	3			Grey		1492-EBP3T	1.41
End Barrier	3			Blue	I	1492-EBP3T-B	1.47
End Barrier	4			Grey		1492-EBP3Q	1.47
End Barrier	4			Blue	I	1492-EBP3Q-B	1.51

Note: To select the correct end barrier for the selected terminal block, match the number of conductors field value. E.g. if the selected terminal block takes '2' conductor connections, the correct end barrier to select for it will also have a value of '2' conductors. After that, select colour preference of the end barrier.

N3503D_dSELN-S01

Single Deck with Accessory Plug-in Slot Only



1492-P3P

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	2	500V, 20A	5.1mm	Grey	I	1492-P3P	6.77
Standard Terminal	3	500V, 20A	5.1mm	Grey	I	1492-P3PT	9.16
Standard Terminal	4	500V, 20A	5.1mm	Grey	I	1492-P3PQ	10.84

Note: For end plates, select 1492-EBP3Q (for 2 conductor), 1492-EBPKD3T (for 3 conductor) and 1492-EBPKD3Q (for 4 conductor).

N3503D02.02.06_dSELN-S01

Single Deck with Plug-in Slot plus Fixed Connection



1492-P31P

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	1	800V, 24A	5.1mm	Grey	I	1492-P31P	2.64
Standard Terminal	1	800V, 24A	5.1mm	Blue	I	1492-P31P-B	2.81
Earth Terminal	1	800V	5.1mm	Green & Yellow (Earth)	I	1492-PG31P	8.09

Note: For end plates, select 1492-EBP3 (Grey) or 1492-EBP3-B (Blue).

N3503D02.02.07_dSELN-S01

Single Deck, Knife Disconnect



1492-PKD3

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	2	500V, 20A	5.1mm	Grey		1492-PKD3	8.94
Standard Terminal	2	500V, 20A	5.1mm	Blue	I	1492-PKD3-B	9.47
Standard Terminal	3	500V, 20A	5.1mm	Grey	I	1492-PKD3T	12.06
Standard Terminal	3	500V, 20A	5.1mm	Blue	I	1492-PKD3T-B	12.77
Standard Terminal	4	500V, 20A	5.1mm	Grey		1492-PKD3Q	14.26
Standard Terminal	4	500V, 20A	5.1mm	Blue		1492-PKD3Q-B	15.16
End Barrier	3			Grey	I	1492-EBPKD3T	1.47
End Barrier	3			Blue	I	1492-EBPKD3T-B	1.49
End Barrier	4			Grey		1492-EBPKD3Q	1.53
End Barrier	4			Blue	I	1492-EBPKD3Q-B	1.54

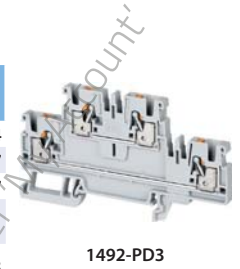
Notes: To select the correct end barrier for the selected terminal block, match the number of conductors field value. E.g. if the selected terminal block takes '2' conductor connections, the correct end barrier to select for it will also have a value of '2' conductors. After that, select colour preference of the end barrier.

For 1492-PKD3 and 1492-PKD3-B, select end plates 1492-EBP3Q (Grey) or 1492-EBP3QB (Blue).

N3503D02.02.08_dSELN-S01

Double Deck

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	4	800V, 24A	5.1mm	Grey		1492-PD3	7.74
Standard Terminal	4	800V, 24A	5.1mm	Blue		1492-PD3-B	8.17
Standard Terminal	4	800V, 24A	5.1mm	Orange	I	1492-PD3-OR	8.17
Standard Terminal, Connected	4	800V, 24A	5.1mm	Grey		1492-PD3C	11.91
Standard Terminal, Connected	4	800V, 24A	5.1mm	Blue	I	1492-PD3C-B	13.13
Earth Terminal	4	800V	5.1mm	Grey	I	1492-PDG3	14.93
Earth Terminal, Connected	4	800V	5.1mm	Green & Yellow (Earth)		1492-PDG3C	16.21
End Barrier	4			Grey		1492-EBPD3	1.74
End Barrier	4			Blue	I	1492-EBPD3-B	1.83



Double Deck with Plug-in Slot plus Fixed Connection

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	2	800V, 24A	5.1mm	Grey	I	1492-PD32P	6.55
Standard Terminal	2	800V, 24A	5.1mm	Blue	I	1492-PD32P-B	6.95
Standard Terminal, Connected	2	800V, 24A	5.1mm	Grey	I	1492-PD32PC	10.81
Earth Terminal	2	800V	5.1mm	Green & Yellow (Earth)	I	1492-PDG32P	10.49
Earth Terminal, Connected	2	800V	5.1mm	Green & Yellow (Earth)	I	1492-PDG32PC	17.31



Note: For end plates, select 1492-EBPD3 (Grey) or 1492-EBPD3B (Blue).

N3503D02.02.02_dSELN-501

Triple Deck

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	6	800V, 24A	5.1mm	Grey		1492-PT3	11.75
Standard Terminal	6	800V, 24A	5.1mm	Blue	I	1492-PT3-B	12.44
Standard Terminal, Connected	6	800V, 24A	5.1mm	Grey	I	1492-PT3C	17.57
Standard Terminal, Connected	6	800V, 24A	5.1mm	Blue	I	1492-PT3C-B	18.64
Earth Terminal	6	800V, 24A	5.1mm	Grey	I	1492-PTG3	17.50
Earth Terminal, Connected	6	800V, 24A	5.1mm	Green & Yellow (Earth)	I	1492-PTG3C	22.60
End Barrier	6			Grey		1492-EBPT3	2.73
End Barrier	6			Blue	I	1492-EBPT3-B	2.86



Quadruple Deck

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	7	600V, 24A	5.1mm	Grey	I	1492-PQ3	24.52
End Barrier	7			Grey	I	1492-EBPQ3	2.84



4mm² Push-In Terminals

Single Deck



1492-P4

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	2	800V, 32A	6.1mm	Grey		1492-P4	2.79
Standard Terminal	3	800V, 32A	6.1mm	Grey		1492-P4T	4.30
Standard Terminal	4	800V, 32A	6.1mm	Grey		1492-P4Q	4.57
Standard Terminal	2	800V, 32A	6.1mm	Blue		1492-P4-B	2.94
Standard Terminal	3	800V, 32A	6.1mm	Blue	I	1492-P4T-B	4.44
Standard Terminal	4	800V, 32A	6.1mm	Blue	I	1492-P4Q-B	5.06
Standard Terminal	2	800V, 32A	6.1mm	Orange		1492-P4-OR	2.94
Earth Terminal	2	800V	6.1mm	Green & Yellow (Earth)		1492-PG4	10.67
Earth Terminal	3	800V	6.1mm	Green & Yellow (Earth)		1492-PG4T	11.10
Earth Terminal	4	800V	6.1mm	Green & Yellow (Earth)		1492-PG4Q	15.22
End Barrier	2			Grey		1492-EBP4	1.47
End Barrier	3			Grey		1492-EBP4T	1.47
End Barrier	4			Grey		1492-EBP4Q	1.51
End Barrier	2			Blue	I	1492-EBP4-B	1.51
End Barrier	3			Blue	I	1492-EBP4T-B	1.51
End Barrier	4			Blue	I	1492-EBP4Q-B	1.60

Note: To select the correct end barrier for the selected terminal block, match the number of conductors field value.
E.g. if the selected terminal block takes '2' conductor connections, the correct end barrier to select for it will also have a value of '2' conductors. After that, select colour preference of the end barrier.

N3503D_dSELN-S01

Single Deck, Fused

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Fused	2	250V, 6.3A	6.1mm	Black		1492-PFB4	26.84
Fused	2	150V, 6.3A	6.1mm	Black	I	1492-PFB4120	45.58
Fused	2	36V, 6.3A	6.1mm	Black	I	1492-PFB424	50.78
Fused	2	250V, 6.3A	6.1mm	Black	I	1492-PFB4250	50.78
Fused	2	70V, 6.3A	6.1mm	Black	I	1492-PFB448	45.58

Note: For end plates, select 1492-EBP4T (Grey) or 1492-EBP4TB (Blue).

N3503D02.03.03_dSELN-S01

Double Deck



1492-PD4

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	4	800V, 32A	6.1mm	Grey		1492-PD4	7.87
Standard Terminal	4	800V, 32A	6.1mm	Blue	I	1492-PD4-B	8.30
Standard Terminal	4	800V, 32A	6.1mm	Black	I	1492-PD4-BL	8.30
Standard Terminal	4	800V, 32A	6.1mm	Green	I	1492-PD4-G	8.30
Standard Terminal	4	800V, 32A	6.1mm	Orange	I	1492-PD4-OR	8.30
Standard Terminal	4	800V, 32A	6.1mm	Red	I	1492-PD4-RE	8.30
Standard Terminal	4	800V, 32A	6.1mm	White	I	1492-PD4-W	8.30
Standard Terminal	4	800V, 32A	6.1mm	Yellow	I	1492-PD4-Y	8.30
Standard Terminal	4	800V, 32A	6.1mm	Grey	I	1492-PD4C	13.93
Standard Terminal	4	800V, 32A	6.1mm	Blue	I	1492-PD4C-B	16.20
Earth Terminal	4	800V	6.1mm	Green & Yellow (Earth)	I	1492-PDG4	17.95
Earth Terminal	4	800V, 32A	6.1mm	Green & Yellow (Earth)	I	1492-PDG4C	23.84

Note: For end plates, select 1492-EBPD4 (Grey) or 1492-EBPD4B (Blue).

N3503D02.03.01_dSELN-S01

Single Deck, Knife Disconnect



1492-PKD4

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Isolation	2	500V, 24A	6.1mm	Grey	I	1492-PKD4	9.57
Isolation	2	500V, 24A	6.1mm	Blue	I	1492-PKD4-B	10.24

6mm² Push-In Terminals

Single Deck

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	2	800V, 41A	8.1mm	Grey		1492-P6	3.63
Standard Terminal	2	800V, 41A	8.1mm	Blue		1492-P6-B	3.91
Standard Terminal	2	800V, 41A	8.1mm	Orange	I	1492-P6-OR	3.91
Standard Terminal	3	800V, 41A	8.1mm	Grey		1492-P6T	6.68
Standard Terminal	3	800V, 41A	8.1mm	Blue	I	1492-P6T-B	7.08
Earth Terminal	2	800V	8.1mm	Green & Yellow (Earth)		1492-PG6	13.71
Earth Terminal	3	800V	8.1mm	Green & Yellow (Earth)		1492-PG6T	15.93
End Barrier	2			Blue		1492-EBP6-B	1.49
End Barrier	2			Grey		1492-EBP6	1.51
End Barrier	3			Grey		1492-EBP6T	1.51
End Barrier	3			Blue	I	1492-EBP6T-B	1.64
Distribution Terminal	2	800V, 41A	8.1mm	Grey	I	1492-P6D	7.08
Distribution Terminal	2	800V, 41A	8.1mm	Blue	I	1492-P6D-B	7.54

Note: To select the correct end barrier for the selected terminal block, match the number of conductors field value.
E.g. if the selected terminal block takes '2' conductor connections, the correct end barrier to select for it will also have a value of '2' conductors. After that, select colour preference of the end barrier.

N3503D_dSELN-S01



1492-P6D

10mm² Push-In Terminals

Single Deck

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	2	1000V, 57A	10mm	Grey	I	1492-P10	4.75
Standard Terminal	2	1000V, 57A	10mm	Blue	I	1492-P10-B	5.02
Standard Terminal	2	1000V, 57A	10mm	Orange	I	1492-P10-OR	5.02
Standard Terminal	3	1000V, 57A	10mm	Grey	I	1492-P10T	15.55
Standard Terminal	3	1000V, 57A	10mm	Blue	I	1492-P10T-B	17.86
Earth Terminal	2	1000V	10mm	Green & Yellow (Earth)	I	1492-PG10	14.48
Earth Terminal	3	1000V	10mm	Green & Yellow (Earth)	I	1492-PG10T	37.66

Notes: For end plates, select 1492-EBP10/16 (for 2 conductor) and 1492-EBP10/16T (for 3 conductor).

N3503D02.05_dSELN-S01



1492-P10

16mm² Push-In Terminals

Single Deck

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	2	1000V, 76A	12mm	Grey		1492-P16	7.41
Standard Terminal	2	1000V, 76A	12mm	Blue	I	1492-P16-B	7.72
Standard Terminal	2	1000V, 76A	12mm	Orange	I	1492-P16-OR	7.72
Standard Terminal	3	1000V, 76A	12mm	Grey	I	1492-P16T	20.24
Standard Terminal	3	1000V, 76A	12mm	Blue	I	1492-P16T-B	23.25
Earth Terminal	2	1000V	12mm	Green & Yellow (Earth)		1492-PG16	18.33
Earth Terminal	3	1000V	12mm	Green & Yellow (Earth)	I	1492-PG16T	39.58
Distribution Terminal	2	800V, 76A	12mm	Grey	I	1492-P16D	8.34
Distribution Terminal	2	800V, 76A	12mm	Blue	I	1492-P16D-B	9.47

Notes: For end plates, select 1492-EBP10/16 (for 2 conductor) and 1492-EBP10/16T (for 3 conductor).

N3503D02.06.01_dSELN-S01



1492-P16

Control Power Distribution Blocks

1.5mm²

6 End

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Distribution Terminal	6	500V, 17.5A	3.5mm	Grey	I	1492-P6PD2E-6B	12.06
Distribution Terminal	6	500V, 17.5A	3.5mm	Grey	I	1492-P6PD2E-6RE	12.06

3+3 End

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Distribution Terminal	6	250V, 16A	3.5mm	Grey	I	1492-P6PD2E-3B3RE	13.24

2.5mm²

5 End



1492-P10PD3E-5B

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Distribution Terminal	5	800V, 24A	5.1mm	Grey	I	1492-P10PD3E-5B	14.79

2+2 End



1492-P10PD3E-2B2RE

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Distribution Terminal	4	500V, 24A	5.1mm	Grey	I	1492-P10PD3E-2B2RE	13.24

6mm²

1 Start

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Distribution Terminal	1	500V, 41A	8.1mm	Grey	I	1492-P6PD2S-1B	10.95
Distribution Terminal	1	500V, 41A	8.1mm	Grey	I	1492-P6PD2S-1RE	10.95

1+1 Start

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Distribution Terminal	2	250V, 41A	8.1mm	Grey	I	1492-P6PD2S-1B1RE	19.18

1 Start + 1 Ground

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Distribution Terminal, Earth Terminal	2	250V, 41A	8.1mm	Grey	I	1492-P6PD2S-1RE1G	31.66

10mm²

1 Start



1492-P10PD3S-1RE

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Distribution Terminal	1	800V, 57A	10mm	Grey	I	1492-P10PD3S-1B	24.52
Distribution Terminal	1	800V, 57A	10mm	Grey	I	1492-P10PD3S-1RE	24.52

1+1 Start



1492-P10PD3S-1B1RE

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Distribution Terminal	2	500V, 41A	10mm	Grey	I	1492-P10PD3S-1B1RE	33.60

1 Start + 1 Ground

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Distribution Terminal, Earth Terminal	2	500V, 41A	10mm	Grey	I	1492-P10PD3S-1RE1G	39.20

Sensor Blocks

Standard Terminal

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal	4	250V, 13.5A	3.5mm	Grey	I	1492-PS2-3	10.77
Standard Terminal	5	250V, 13.5A	3.5mm	Grey	I	1492-PS2-4	13.60

Standard Terminal with Earth

Terminal	Conductor (qty)	Un, Ie (max) (V AC/DC, A)	Width (mm)	Housing (colour)	Item Type	Catalogue No.	\$AU
Standard Terminal with Earth	5	250V, 13.5A	3.5mm	Grey	I	1492-PSG2-4	17.67

End Barrier

Terminal	Conductor (qty)	Housing (colour)	Item Type	Catalogue No.	\$AU
End Barrier	4	Grey	I	1492-EBPS-3	1.85
End Barrier	5	Grey	I	1492-EBPGS-4	1.95
End Barrier	5	Grey	I	1492-EBPS-4	1.95



1492-EBPS-3

Accessories

1.5mm²

Select these accessories for use with 1.5mm² 1492-P terminals

Centre Jumper

Poles	Housing (colour)	Item Type	Catalogue No.	\$AU
2	Orange	I	1492-CJP2-2	1.12
2	Blue	I	1492-CJP2-2-B	1.15
3	Orange	I	1492-CJP2-3	2.03
3	Blue	I	1492-CJP2-3-B	2.11
4	Orange	I	1492-CJP2-4	2.51
4	Blue	I	1492-CJP2-4-B	2.62
5	Orange	I	1492-CJP2-5	3.12
5	Blue	I	1492-CJP2-5-B	3.25
6	Orange	I	1492-CJP2-6	3.90
6	Blue	I	1492-CJP2-6-B	4.05
7	Orange	I	1492-CJP2-7	4.87
7	Blue	I	1492-CJP2-7-B	5.07
8	Orange	I	1492-CJP2-8	6.10
8	Blue	I	1492-CJP2-8-B	6.34
9	Orange	I	1492-CJP2-9	7.64
10	Orange	I	1492-CJP2-10	9.38
10	Blue	I	1492-CJP2-10-B	9.75
20	Orange	I	1492-CJP2-20	16.77
50	Orange	I	1492-CJP2-50	35.32
50	Blue	I	1492-CJP2-50-B	36.77



1492-CJP2-50

2.5mm²

Select these accessories for use with 2.5mm² 1492-P terminals

Centre Jumper



1492-CJP3-2

Poles	Housing (colour)	Item Type	Catalogue No.	\$AU
2	Orange		1492-CJP3-2	1.04
2	Blue	I	1492-CJP3-2-B	1.24
3	Orange		1492-CJP3-3	2.00
3	Blue	I	1492-CJP3-3-B	2.20
4	Blue	I	1492-CJP3-4-B	2.70
4	Orange		1492-CJP3-4	2.93
5	Orange		1492-CJP3-5	3.21
5	Blue	I	1492-CJP3-5-B	3.34
6	Orange		1492-CJP3-6	3.97
6	Blue	I	1492-CJP3-6-B	4.16
7	Orange	I	1492-CJP3-7	4.96
7	Blue	I	1492-CJP3-7-B	5.17
9	Orange	I	1492-CJP3-9	7.71
9	Blue	I	1492-CJP3-9-B	8.02
10	Orange		1492-CJP3-10	8.89
10	Blue	I	1492-CJP3-10-B	9.82
20	Orange		1492-CJP3-20	16.92
20	Blue	I	1492-CJP3-20-B	17.58
50	Orange	I	1492-CJP3-50	35.47
50	Blue	I	1492-CJP3-50-B	36.94

4mm²

Select these accessories for use with 4mm² 1492-P terminals

Centre Jumper



1492-CJP4-2

Number of Poles	Housing (colour)	Item Type	Catalogue No.	\$AU
2	Orange		1492-CJP4-2	1.69
2	Blue	I	1492-CJP4-2-B	1.69
3	Orange	I	1492-CJP4-3	2.32
3	Blue	I	1492-CJP4-3-B	2.32
4	Orange		1492-CJP4-4	2.82
4	Blue	I	1492-CJP4-4-B	2.82
5	Orange	I	1492-CJP4-5	3.45
5	Blue	I	1492-CJP4-5-B	3.45
10	Orange		1492-CJP4-10	9.97
10	Blue	I	1492-CJP4-10-B	9.97
50	Orange	I	1492-CJP4-50	36.94
50	Blue	I	1492-CJP4-50-B	36.94

End Barrier



1492-EBPD4

Item Description	Item Type	Catalogue No.	\$AU
End Barrier/Plate for use with terminals 1492-PD4*, 1492-PD4C*, 1492-PDG4, 1492-PDG4C, Grey Colour		1492-EBPD4	1.83
End Barrier/Plate for use with terminals 1492-PD4*, 1492-PD4C*, 1492-PDG4, 1492-PDG4C, Blue Colour	I	1492-EBPD4-B	1.95

6mm²

Select these accessories for use with 6mm² 1492-P terminals

Centre Jumper

Number of Poles	Housing (colour)	Item Type	Catalogue No.	\$AU
2	Orange	I	1492-CJP6-2	1.73
3	Orange		1492-CJP6-3	3.21
4	Orange	I	1492-CJP6-4	4.96

10/16mm²

Select these accessories for use with 10/16mm² 1492-P terminals

Centre Jumper

Poles	Housing (colour)	Item Type	Catalogue No.	\$AU
2	Grey	I	1492-CJP10-2	2.35
2	Grey	I	1492-CJP16-2	3.79



1492-CJP10-2

End Barrier

Item Description	Item Type	Catalogue No.	\$AU
End Barrier used with terminals 1492-P10, 1492-P16, 1492-PG10, 1492-PG16, Grey Colour		1492-EBP10/16	1.65
End Barrier used with terminals 1492-P10, 1492-P16, 1492-PG10, 1492-PG16, Blue Colour	I	1492-EBP10/16-B	1.77
End Barrier used with terminals 1492-P10T, 1492-P16T, 1492-PG10T, 1492-PG16T, Grey Colour	I	1492-EBP10/16T	2.32
End Barrier used with terminals 1492-P10T, 1492-P16T, 1492-PG10T, 1492-PG16T, Blue Colour	I	1492-EBP10/16T-B	2.63



1492-EBP10/16T

End Anchor

Item Description	Item Type	Catalogue No.	\$AU
1492 Terminal Block Accessories End Anchor, Screwless End Retainer for 35 mm DIN Rail		1492-ERL35	2.31
Terminal Block End Anchor, Screw, Standard Duty, Grey, Package Qty 50		1492-EAP35	4.30



1492-EAP35

Plug-in Modules

Start Plugs

Terminal	Wire Size (max)	Housing (colour)	Item Type	Catalogue No.	\$AU
Start Plug	2.5 mm ²	Grey	I	1492-P3SSTP	3.05
Start Plug	2.5 mm ²	Blue	I	1492-P3SSTP-B	3.18
Start Plug	2.5 mm ²	Green	I	1492-P3SSTP-G	3.18



1492-P3SSTP-G

Middle Plugs

Terminal	Wire Size (max)	Housing (colour)	Item Type	Catalogue No.	\$AU
Middle Plug	2.5 mm ²	Grey	I	1492-P3MSTP	2.82
Middle Plug	2.5 mm ²	Blue	I	1492-P3MSTP-B	2.93
Middle Plug	2.5 mm ²	Green	I	1492-P3MSTP-G	2.93



1492-P3MSTP

End Plugs

Terminal	Wire Size (max)	Housing (colour)	Item Type	Catalogue No.	\$AU
End Plug	2.5 mm ²	Grey	I	1492-P3ESTP	3.05
End Plug	2.5 mm ²	Blue	I	1492-P3ESTP-B	3.18
End Plug	2.5 mm ²	Green	I	1492-P3ESTP-G	3.18

End Barriers

Terminal	Wire Size (max)	Housing (colour)	Item Type	Catalogue No.	\$AU
End Barrier	2.5 mm ²	Grey	I	1492-P3STPEB	1.49



1492-P3STPEB

Test Plugs



1492-PTPS

Terminal	Wire Size (max)	Housing (colour)	Item Type	Catalogue No.	\$AU
Start Test Plug	10 mm ²	Black	I	1492-PTPS	21.97
End Test Plug	1.5 mm ²	Black	I	1492-P2TPE	21.97
End Test Plug	2.5 mm ²	Black	I	1492-P3TPE	23.11
End Test Plug	4 mm ²	Black	I	1492-P4TPE	24.25
End Test Plug	6 mm ²	Black	I	1492-P6TPE	25.56
End Test Plug	10 mm ²	Black	I	1492-P10TPE	26.85

Plug Accessories



1492-P3STP

Terminal	Wire Size (max)	Housing (colour)	Item Type	Catalogue No.	\$AU
Coding Element	2.5 mm ²	Grey	I	1492-P3STPCE	0.59
Locking Element	2.5 mm ²	Grey	I	1492-P3TPLE	0.59
Protective Cover	2.5 mm ²	Grey	I	1492-P3STPPC	0.71
Single Plug	2.5 mm ²	Grey	I	1492-P3STP	3.05

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Terminals - Screwless

Allen-Bradley Terminal Marking System

The Allen-Bradley series of terminal marking systems provide users the facility to mark different types of industrial components for their applications. The marking system covers products such as terminal blocks, wires, cables etc. which can be marked quickly with minimal drying time.



ClearMultiprint Marking System

The ClearMultiprint marking system marks terminal block tags, heat shrink, self-laminating wire, and adhesive labels for use on terminal blocks, wires, cables, and other industrial components.

- Prints up to 250 terminal tags in a minute
- Prints on marker tag rolls that contain hundreds of tags
- Low-maintenance, thermal transfer technology which eliminates ink dry out issues
- High-quality 300 dpi printing
- High contrast black and white printing on white marker tags and wire labels
- Quick installation with linked tags

Tag Printer

Item Description	Item Type	Catalogue No.	\$AU
ClearMultiprint thermal transfer printer, 100-240V AC, includes terminal marker and label ribbons and rollers, ClearTools software, USB cable and power cord	I	1492-PRINTCMP	POA

Consumables

Item Description	Item Type	Catalogue No.	\$AU
ClearMultiprint 60mm printer ribbon for heat shrink printing, black	I	1492-PRIBHS	POA
ClearMultiprint 110mm printer ribbon for label printing, black	I	1492-PRIBLAB	POA
ClearMultiprint 25mm printer ribbon for terminal marker tags, black	I	1492-PRIBTB	POA
ClearMultiprint front roller for label and heat shrink printing	I	1492-PROLLLAB	POA
ClearMultiprint front roller for terminal marker printing	I	1492-PROLLTB	POA

Terminal Markers

Snap-in Linked Marker Rolls

The markers available in the roll are blank markers.

3 x 8mm

Terminal Series (compatible)	Marker Size (W x H)	Markers (per roll)	Package (qty)	Item Type	Catalogue No.	\$AU
1492-P2	3 x 8mm	1000	1	I	1492-MT3X8	106.32



1492-MT3X8

5 x 8mm

Terminal Series (compatible)	Marker Size (W x H)	Markers (per roll)	Package (qty)	Item Type	Catalogue No.	\$AU
1492-P10, 1492-P3	5 x 8mm	800	1	I	1492-MT5X8	79.10

6 x 8mm

Terminal Series (compatible)	Marker Size (W x H)	Markers (per roll)	Package (qty)	Item Type	Catalogue No.	\$AU
1492-P16, 1492-P4	6 x 8mm	600	1	I	1492-MT6X8	47.20

8 x 8mm

Terminal Series (compatible)	Marker Size (W x H)	Markers (per roll)	Package (qty)	Item Type	Catalogue No.	\$AU
1492-P6	8 x 8mm	500	1	I	1492-MT8X8	51.27

Snap-in Linked Marker Cards

5 x 8mm

Terminal Series (compatible)	Marker Size (W x H)	Markers (per card)	Package (qty)	Text	Item Type	Catalogue No.	\$AU
1492-P10, 1492-P3	5 x 8mm	120	5		I	1492-MR5X8	9.51
1492-P10, 1492-P3	5 x 8mm	120	5	Horizontal, Blocks of 10, range 1...10	I	1492-MR5X8H1-10	16.79
1492-P10, 1492-P3	5 x 8mm	120	5	Horizontal, Blocks of 100, range 1...100	I	1492-MR5X8H1-100	16.79
1492-P10, 1492-P3	5 x 8mm	120	5	Horizontal, Blocks of 20, range 1...20	I	1492-MR5X8H1-20	16.79
1492-P10, 1492-P3	5 x 8mm	120	5	Vertical, Blocks of 10, range 1...10	I	1492-MR5X8V1-10	16.79
1492-P10, 1492-P3	5 x 8mm	120	5	Vertical, Blocks of 100, range 1...100	I	1492-MR5X8V1-100	16.79

6 x 8mm

Terminal Series (compatible)	Marker Size (W x H)	Markers (per card)	Package (qty)	Text	Item Type	Catalogue No.	\$AU
1492-P16, 1492-P4, 1492-P6	6 x 8mm	120	5	Horizontal, Blocks of 10, range 1...10	I	1492-MR6X8H1-10	16.79
1492-P16, 1492-P4, 1492-P6	6 x 8mm	120	5	Horizontal, Blocks of 20, range 1...20	I	1492-MR6X8H1-20	16.79
1492-P16, 1492-P4, 1492-P6	6 x 8mm	120	5	Horizontal, Blocks of 50, range 1...50	I	1492-MR6X8H1-50	16.79
1492-P16, 1492-P4, 1492-P6	6 x 8mm	120	5	Horizontal, Blocks of 50, range 51...100	I	1492-MR6X8H51-100	16.79
1492-P16, 1492-P4, 1492-P6	6 x 8mm	120	5	Horizontal, GND on all markers	I	1492-MR6X8HGND	16.79
1492-P16, 1492-P4, 1492-P6	6 x 8mm	120	5	Vertical, Blocks of 10, range 1...10	I	1492-MR6X8V1-10	16.79

Snap-in Individual Marker Cards

3 x 5mm

Terminal Series (compatible)	Marker Size (W x H)	Markers (per card)	Package (qty)	Text	Item Type	Catalogue No.	\$AU
1492-P2	3 x 5mm	100	5	Horizontal, Blocks of 100, range 1...100	I	1492-M3X5H1-100	19.00
1492-P2	3 x 5mm	100	5	Horizontal, Blocks of 20, range 1...20	I	1492-M3X5H1-20	19.00
1492-P2	3 x 5mm	100	5	Horizontal, Upside-down, Blocks of 10, range 1...10	I	1492-M3X5HU1-10	19.00
1492-P2	3 x 5mm	100	5	Vertical, Blocks of 100, range 1...100	I	1492-M3X5V1-100	19.00
1492-P2	3 x 5mm	100	5	Vertical, Blocks of 50, range 1...50	I	1492-M3X5V1-50	19.00

Enclosures and Climate Control

Standard Enclosures

Enclosure Selection		860
Comparison of Enclosure Material		861
Enclosure Quick Order Matrix		862
Terminal Boxes		864
N-Line Thermoplastic Terminal Boxes	Index	864
Enclosure Selection		866
Comparison of Enclosure Material		867
Enclosure Quick Order Matrix		868
Thermoplastic Terminal Boxes	Index	870
Aluminium Terminal Boxes		877
Mild Steel Terminal Boxes		878
Stainless Steel Terminal Boxes		879
Milling Custom Order Form		881
Wall Mount Enclosures		883
Wall Mount Enclosures - GRPC, ABS and PC	Index	883
Wall Mount Enclosures - GRP		886
N-Line Wall Mount Enclosures - Mild Steel		888
Wall Mount Enclosures - Mild Steel	Index	889
Wall Mount Enclosures - Stainless Steel	Index	895
Sloped Roof Wall Mount Enclosures Stainless Steel		897
nVENT HOFFMAN Stainless Steel Wall Mount Hygienic Design Enclosures		898
Floor Standing Enclosures		899
Floor Standing Enclosures - Mild Steel	Index	899
Floor Standing Enclosures - Stainless Steel	Index	906
nVent HOFFMAN Floor Standing Enclosures - Aluminium		909

Climate Control

Filter Fans and Exhaust Fans	911
Heaters and Regulating Devices	914
Heaters	914
Anti-Condensation Heaters and Regulating Devices	916
Air Conditioning Systems	918
Cooling Information Form	920
Heating Information Form	921

Pricing in this document is invalid for pricing availability please access the NHP customer portal under 'My Account'

Enclosure Selection

An industrial enclosure is defined as a solution manufactured from a certain material designed to protect your electrical and electronic componentry from hostile environments.

There are a number of factors to consider when determining the right enclosure for your needs which, when done correctly will ensure the life of internal componentry and the enclosure itself.

1 Physical Size

Consider what componentry is being installed and where inside the enclosure. Also ensure there is adequate space for cabling.

This will determine which style of enclosure you will need starting from small terminal boxes, to medium sized wall mount and large floor standing enclosures.

- Terminal boxes start from size H65 x W50 x D45 mm
- Wall mount enclosures start from size H150 x W150 x D110 mm
- Floor standing enclosures start from size H1600 x W600 x D400 mm

2 IP Rating - Degree of Protection Required

The IP rating is defined in AS 60529 (IEC 60529) where upon successful testing an enclosure will be marked with a two digit classification code, which details the extent of resistance to solid objects, particles and water.

The higher the number the higher the ingress protection level.

For example, in reference to IP67...

The first digit which is 6 reflects the enclosures dust and solid objects ingress protection rating and the second digit which is 7 is the level of protection against water.

Sometimes the letter 'X' is used in place of the first or second digit to indicate that tests have not been made or are not considered relevant.

An additional code that is defined is an enclosures IK rating which reflects the resistance to mechanical impact. The IK rating is also a two digit code but is generally not as important as an IP code.

What level of protection does your equipment require against ingress of solid objects including dust and water?

What type of equipment are you protecting?

3 Environment/Application

The place of installation needs to be considered and the potential threats to the enclosure.

What is the environment the enclosure is going in?

Is the application indoor or outdoor?

Is the enclosure located in a harsh or chemical washdown environment?

This will determine UV light considerations and the need for protection against corrosive substances in the atmosphere such as oils, chemicals, salt or fine dust.

Enclosure performance is dependant on the environment/application as various materials react differently to different situations.

Depending on application and ambient conditions, additional climate control may be required.

NHP has a complete range of cooling and heating products to ensure your equipment is operating at the right temperature. Please refer to the Climate Control Easy Selection Guide for more information.

4 Type of Material

Select the appropriate material for your enclosure based upon the application and environment it is going in. Each material has its own strengths/weaknesses and there are a number to choose from:

ABS and PC enclosures are typically an economical solution due to their material characteristics, whilst GRP, GRPC and Aluminium are regarded as having good impact and corrosion resistance, and of course steel variants having excellent strength with stainless steel having the highest corrosion resistance.

5 Customisation and Accessories

What accessories are required for the enclosure to suit the application?

Does your enclosure need any further modifications before installation?

Are special gland plates required?

Whether you have a terminal box, wall mount enclosure or floor standing cabinet, at NHP we have a large range of accessories available to complement your enclosure solution ranging from mounting plates, DIN rail, rain hoods, mounting brackets, escutcheons, inner doors, locks, plinths, lights, mounting profiles and glazed doors to list a few.

Furthermore, we can provide a range of added services that include the ability to customise your enclosure to your specification through our Milling solution. This state of the art Computer Numerical Control (CNC) machining system can perform milling as well as engraving and cutting to any specification in the x-y-z plane to the highest precision, ensuring your demands are met.

Perfect for pushbuttons, indicators or cable entries.



Scan QR code to view the CNC milling solution in action



Extensive local stockholding



Customised manufactured solutions

Comparison of Enclosure Material

The performance and limitations of an enclosure are dependent on the material it is made of, where the following gives an indication of benefits and drawbacks between the various materials on offer.

	Benefits	Drawbacks
	Acrylonitrile Butadiene Styrene (ABS) <ul style="list-style-type: none"> • Easy machining with normal tools • Easy colouring through pigmentation • Low weight • Good resistance to chemical attack • Excellent insulating properties 	<ul style="list-style-type: none"> • Slightly lower impact resistance and operating temperature range compared with PC • Slightly lower UV resistance compared with PC • No EMC shielding
	Polycarbonate (PC) <ul style="list-style-type: none"> • High impact resistance • Easy machining with normal tools • High IP rating • Wide operating temperature range • Self-extinguishing • Good resistance to chemical attack 	<ul style="list-style-type: none"> • No EMC shielding
	Glass Fibre Reinforced Polycarbonate (GRPC) <ul style="list-style-type: none"> • IP66 high IP rating • Very high impact resistance - able to withstand impact up to IK10 • Excellent protection against vandalism • Easy to machine with standard tools • Self extinguishing • Light weight 	<ul style="list-style-type: none"> • No EMC shielding
	Glass Fibre Reinforced Polyester (GRP) <ul style="list-style-type: none"> • Excellent record of resistance to corrosion and chemical attack • High impact resistance • Rigid construction • High weather resistance • Wide operating temperature range 	<ul style="list-style-type: none"> • No EMC shielding
	Aluminium (AL) <ul style="list-style-type: none"> • Good resistance to chemical attack (painted) • High impact resistance • Wide operating temperature range • Easy earthing • EMC shielding. • Good heat sink properties 	<ul style="list-style-type: none"> • More expensive than PC • Heavier than PC and ABS • Machining with special tools only
	Mild Steel (MS) <ul style="list-style-type: none"> • Good resistance to chemical attack (powder coated RAL 7035) • High impact resistance • Wide operating temperature range • Easy earthing • EMC shielding 	<ul style="list-style-type: none"> • More expensive than PC • Heavier than PC and ABS • Prone to corrosion • Machining with special tools only

Enclosure Quick Order Matrix

NHP offers a wide range of enclosures varying in size from terminal boxes / compact industrial enclosures to wall mount and floor standing solutions.

Different materials are available to best fit the desired application.

Find the enclosure you need quickly and simply by choosing a type and material.

	ACRYLONITRILE BUTADIENE STYRENE (ABS)	POLYCARBONATE (PC)	GLASS FIBRE REINFORCED POLYESTER (GRP)	GLASS FIBRE REINFORCED POLYCARBONATE (GRPC)
Terminal Boxes / Industrial Enclosures Page 864	 N-Line Range	 MNX Range  Euronord Range  Solid Range  EK Range		
Wall Mount Enclosures Page 883	 CAB Range	 CAB Range	 CAB Range	 ARCA Range
Floor Standing Enclosures Page 899				

ALUMINIUM (AL)	MILD STEEL (MS)	STAINLESS STEEL (SS)
 <p>Euronord Range</p>	 <p>STB Range</p>	 <p>SSTB Range</p>
	 <p>MAS / MAD Range</p>  <p>MAP Range</p>  <p>N-Line Range</p>	 <p>ASR/ADR Range</p>  <p>HDW Range</p>  <p>SRE Range</p>
 <p>EKOM Range</p>	 <p>MKS Range</p>  <p>MKD Range</p>  <p>MCS Range</p>  <p>MCD Range</p>  <p>MPG Range</p>	 <p>EKSS Range</p>  <p>EKDS Range</p>  <p>MCSS Range</p>  <p>MCDS Range</p>

Terminal Boxes

N-Line Thermoplastic Terminal Boxes

N-Line ABS Insulated Plastic Terminal Boxes
Mounting Plates
DIN Rail

Page 864

Page 864

Page 865



- Fourteen sizes with plain cover for printing, stickers and switches covering every day applications
- Grey base RAL 7035 with grey or transparent cover with IP65 and IK07 protection ensuring good protection against water and dust ingress
- Cover screws are wire seal compatible to ensure anti-tampering

N-Line insulated ABS plastic terminal boxes are a high quality product to suit economical solutions. IP65/IK07, N-Line insulated plastic enclosures are available with the option of grey or transparent covers. The material is a halogen free, RoHS compliant, fully insulated ABS plastic suitable for indoor use. Mounting screws included, with the option of mounting plates or DIN rail. Extra features include a plain face for printing, stickers and switches, as well as wire seal compatible cover screws for peace of mind.

N-Line ABS Insulated Plastic Terminal Boxes

Enclosures with Grey Cover (Mounting Plates Sold Separately)



NLP 090706

H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
95	65	60		NLP 090706	18.00
110	110	65		NLP 111107	22.00
130	95	65		NLP 131007	25.00
130	130	75		NLP 131308	33.00
187	122	90		NLP 191209	39.00
187	122	134		NLP 191213	60.00
201	163	98		NLP 201610	58.00
240	191	107		NLP 241911	70.00
201	163	142	I	NLP 201614	80.00
240	191	151		NLP 241915	101.00
289	239	107		NLP 292411	108.00
289	239	151		NLP 292415	122.00
344	289	117		NLP 342911	122.00
344	289	157		NLP342916	164.00

Enclosures with Transparent Cover (Mounting Plates Sold Separately)



NLP 090706 T

H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
95	65	60		NLP 090706 T	24.00
110	110	65		NLP 111107 T	25.00
130	95	65		NLP 131007 T	33.00
130	130	75		NLP 131308 T	45.00
187	122	90		NLP 191209 T	55.00
201	163	98		NLP 201610 T	84.00
240	191	107		NLP 241911 T	97.00
289	239	107		NLP 292411 T	147.00
344	289	117		NLP 342911 T	163.00

Mounting Plates



MP 1912

H x W (mm)	Suits Enclosure (mm H x W)	Material	Thickness (mm)	Item Type	Catalogue No.	\$AU
140 x 100	187 x 122	Zinc Galvanized Steel	1.5		MP 1912	13.00
155 x 140	201 x 163	Zinc Galvanized Steel	1.5		MP 2016	18.00
210 x 160	240 x 191	Zinc Galvanized Steel	1.5		MP 2419	21.00
265 x 215	289 x 239	Zinc Galvanized Steel	1.5		MP 2924	30.00
315 x 265	344 x 289	Zinc Galvanized Steel	1.5		MP 3429	35.00

DIN Rail

Length (mm)	Enclosure (mm width)	Item Type	Catalogue No.	\$AU
140	163		DR140	10.00
100	122		DR100	11.00
160	191		DR160	11.00
215	239		DR215	13.00
265	289		DR265	13.00
210	240		DR210	14.00
316	344		DR316	16.00



DR215

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal [NHP Account](#)

Enclosure Selection

An industrial enclosure is defined as a solution manufactured from a certain material designed to protect your electrical and electronic componentry from hostile environments.

There are a number of factors to consider when determining the right enclosure for your needs which, when done correctly will ensure the life of internal componentry and the enclosure itself.

1 Physical Size

Consider what componentry is being installed and where inside the enclosure. Also ensure there is adequate space for cabling.

This will determine which style of enclosure you will need starting from small terminal boxes, to medium sized wall mount and large floor standing enclosures.

- Terminal boxes start from size H65 x W50 x D45 mm
- Wall mount enclosures start from size H150 x W150 x D110 mm
- Floor standing enclosures start from size H1600 x W600 x D400 mm

2 IP Rating - Degree of Protection Required

The IP rating is defined in AS 60529 (IEC 60529) where upon successful testing an enclosure will be marked with a two digit classification code, which details the extent of resistance to solid objects, particles and water.

The higher the number the higher the ingress protection level.

For example, in reference to IP67...

The first digit which is 6 reflects the enclosures dust and solid objects ingress protection rating and the second digit which is 7 is the level of protection against water.

Sometimes the letter 'X' is used in place of the first or second digit to indicate that tests have not been made or are not considered relevant.

An additional code that is defined is an enclosures IK rating which reflects the resistance to mechanical impact. The IK rating is also a two digit code but is generally not as important as an IP code.

What level of protection does your equipment require against ingress of solid objects including dust and water?

What type of equipment are you protecting?

3 Environment/Application

The place of installation needs to be considered and the potential threats to the enclosure.

What is the environment the enclosure is going in?

Is the application indoor or outdoor?

Is the enclosure located in a harsh or chemical washdown environment?

This will determine UV light considerations and the need for protection against corrosive substances in the atmosphere such as oils, chemicals, salt or fine dust.

Enclosure performance is dependant on the environment/application as various materials react differently to different situations.

Depending on application and ambient conditions, additional climate control may be required.

NHP has a complete range of cooling and heating products to ensure your equipment is operating at the right temperature. Please refer to the Climate Control Easy Selection Guide for more information.

4 Type of Material

Select the appropriate material for your enclosure based upon the application and environment it is going in. Each material has its own strengths/weaknesses and there are a number to choose from:

ABS and PC enclosures are typically an economical solution due to their material characteristics, whilst GRP, GRPC and Aluminium are regarded as having good impact and corrosion resistance, and of course steel variants having excellent strength with stainless steel having the highest corrosion resistance.

5 Customisation and Accessories

What accessories are required for the enclosure to suit the application?

Does your enclosure need any further modifications before installation?

Are special gland plates required?

Whether you have a terminal box, wall mount enclosure or floor standing cabinet, at NHP we have a large range of accessories available to complement your enclosure solution ranging from mounting plates, DIN rail, rain hoods, mounting brackets, escutcheons, inner doors, locks, plinths, lights, mounting profiles and glazed doors to list a few.

Furthermore, we can provide a range of added services that include the ability to customise your enclosure to your specification through our Milling solution. This state of the art Computer Numerical Control (CNC) machining system can perform milling as well as engraving and cutting to any specification in the x-y-z plane to the highest precision, ensuring your demands are met.

Perfect for pushbuttons, indicators or cable entries.



Scan QR code to view the CNC milling solution in action



Extensive local stockholding



Customised manufactured solutions

Comparison of Enclosure Material

The performance and limitations of an enclosure are dependent on the material it is made of, where the following gives an indication of benefits and drawbacks between the various materials on offer.

	Benefits	Drawbacks
	Acrylonitrile Butadiene Styrene (ABS) <ul style="list-style-type: none"> • Easy machining with normal tools • Easy colouring through pigmentation • Low weight • Good resistance to chemical attack • Excellent insulating properties 	<ul style="list-style-type: none"> • Slightly lower impact resistance and operating temperature range compared with PC • Slightly lower UV resistance compared with PC • No EMC shielding
	Polycarbonate (PC) <ul style="list-style-type: none"> • High impact resistance • Easy machining with normal tools • High IP rating • Wide operating temperature range • Self-extinguishing • Good resistance to chemical attack 	<ul style="list-style-type: none"> • No EMC shielding
	Glass Fibre Reinforced Polycarbonate (GRPC) <ul style="list-style-type: none"> • IP66 high IP rating • Very high impact resistance - able to withstand impact up to IK10 • Excellent protection against vandalism • Easy to machine with standard tools • Self extinguishing • Light weight 	<ul style="list-style-type: none"> • No EMC shielding
	Glass Fibre Reinforced Polyester (GRP) <ul style="list-style-type: none"> • Excellent record of resistance to corrosion and chemical attack • High impact resistance • Rigid construction • High weather resistance • Wide operating temperature range 	<ul style="list-style-type: none"> • No EMC shielding
	Aluminium (AL) <ul style="list-style-type: none"> • Good resistance to chemical attack (painted) • High impact resistance • Wide operating temperature range • Easy earthing • EMC shielding. • Good heat sink properties 	<ul style="list-style-type: none"> • More expensive than PC • Heavier than PC and ABS • Machining with special tools only
	Mild Steel (MS) <ul style="list-style-type: none"> • Good resistance to chemical attack (powder coated RAL 7035) • High impact resistance • Wide operating temperature range • Easy earthing • EMC shielding 	<ul style="list-style-type: none"> • More expensive than PC • Heavier than PC and ABS • Prone to corrosion • Machining with special tools only

Enclosure Quick Order Matrix

NHP offers a wide range of enclosures varying in size from terminal boxes / compact industrial enclosures to wall mount and floor standing solutions.

Different materials are available to best fit the desired application.
Find the enclosure you need quickly and simply by choosing a type and material.

	ACRYLONITRILE BUTADIENE STYRENE (ABS)	POLYCARBONATE (PC)	GLASS FIBRE REINFORCED POLYESTER (GRP)	GLASS FIBRE REINFORCED POLYCARBONATE (GRPC)
Terminal Boxes / Industrial Enclosures Page 864	 <i>N-Line Range</i>	 <i>MNX Range</i>  <i>Euronord Range</i>  <i>Solid Range</i>  <i>EK Range</i>		
Wall Mount Enclosures Page 883	 <i>CAB Range</i>	 <i>CAB Range</i>	 <i>CAB Range</i>	 <i>ARCA Range</i>
Floor Standing Enclosures Page 899				

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

ALUMINIUM (AL)	MILD STEEL (MS)	STAINLESS STEEL (SS)
<div><p>Euronord Range</p></div>	<div><p>STB Range</p></div>	<div><p>SSTB Range</p></div>
	<div><div><p>MAS / MAD Range</p></div><div><p>MAP RangeN-Line Range</p></div></div>	<div><p>ASR/ADR Range</p></div> <div><p>HDW RangeSRE Range</p></div>
<div><p>EKOM Range</p></div>	<div><div><p>MKS RangeMKD RangeMCS Range</p></div><div><p>MCD RangeMPG Range</p></div></div>	<div><p>EKSS RangeEKDS Range</p></div> <div><p>MCSS RangeMCDS Range</p></div>

Terminal Boxes

Thermoplastic Terminal Boxes

Cardmaster Range	Page 870
MX Range	Page 870
Euronord PC/ABS Range	Page 872
Solid Range	Page 873
Accessories to suit EK/Solid Terminal Boxes	Page 874
Inspection Windows and Accessories	Page 876



- Available in RAL 7035 light grey with the option of a transparent cover in most ranges in polycarbonate, ABS and aluminium material types meaning NHP is sure to have the right solution for any situation
- Available in up to IP66/67 protection rating meaning your components are protected against the worst of water/dust plus immersion
- Large range of accessories to suit including mounting plates, DIN rail, extension walls, pressure compensation devices and inner doors providing flexibility and expandability when adding to existing builds

No matter the conditions your components must withstand, or how well they need to fit the surrounding design and architecture, we have just the right enclosure for all needs. NHP can also customise enclosure products to customer specification using our CNC milling machine - holes, vents, whatever is required. Comes in six different styles of enclosure to suit every application including flat, recessed or gland plate ready surfaces. Offered in polycarbonate, ABS, aluminium and glass fibre reinforced polyester (GRP).
To download the CNC milling machine form for this product please visit: www.nhp.com.au/forms (Australia) or www.nhp-nz.com/forms (New Zealand).

Cardmaster Range

Cardmaster enclosures provide the ultimate solution for instrumentation packaging. Ideal for measurement, monitoring and process control equipment. Modern, durable materials are combined with an easy and reliable locking system and transparent door options. PCB guides, knock-outs, a terminal wiring compartment and wall mounting options make installing and using Cardmaster easy.

- IP65 rated, IK07 (side surface) IK08 (front surface)
- Impact resistant polycarbonate (halogen Free) or ABS
- Separate compartment for terminal wiring
- Easy and reliable locking system with blue RAL 5023 polyamide latches, transparent door and built in PCB card guides
- RoHS compliant

Cardmaster PC Enclosures (Mounting Plates Sold Separately)



PC 21/18-3

H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
185	213	119		PC 21/18-3	285.00

MX Range

With over 120 options carrying a IP66/67 rating the MX range is the enclosure of choice if there is a large requirement for different sized enclosures with the same design. With a recessed surface area the MX is ideal for membrane keyboards. Available in halogen free, impact resistant polycarbonate with polyamide cover screws.

- IP66/67 rated, IK08 (PC)
- Grey RAL 7035 coloured base
- Smoked transparent cover or grey cover option
- Thermoplastic elastomer/polyurethane gasket
- RoHS compliant

MNX PC Enclosures with Grey Cover (Mounting Plates Sold Separately)

High Base

H (mm)	W (mm)	D (mm)	Lid Depth (mm)	Base Depth (mm)	Item Type	Catalogue No.	\$AU
80	130	60	10	50		PC 100/60 HG	88.00
80	130	75	25	50		PC 100/75 HG	93.00
80	130	125	75	50		PC 100/125HG	94.00
130	130	75	25	50		PC 125/75 HG	105.00
130	130	100	50	50		PC 125/100 HG	109.00
130	130	125	75	50		PC 125/125 HG	112.00
130	180	75	25	50		PC 150/75 HG	124.00
130	180	100	50	50		PC 150/100 HG	133.00
130	180	125	75	50		PC 150/125 HG	136.00
130	180	150	100	50		PC 150/150 HG	138.00
180	180	75	25	50		PC 175/75 HG	168.00
180	180	100	50	50		PC 175/100 HG	166.00
180	180	125	75	50		PC 175/125 HG	176.00
180	180	150	100	50		PC 175/150 HG	188.00
180	255	75	25	50		PC 200/75 HG	278.00
180	255	100	50	50		PC 200/100 HG	281.00
180	255	150	100	50		PC 200/150 HG	290.00



PC 125/100 HG

Low Base

H (mm)	W (mm)	D (mm)	Lid Depth (mm)	Base Depth (mm)	Item Type	Catalogue No.	\$AU
130	130	75	50	25	I	PC 125/75 LG	107.00
130	180	100	75	25	I	PC 150/100 LG	126.00



PC 150/100 LG

Metric Knockouts

H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
180	130	100		PCM 150/100 G	142.00

MNX PC Enclosures with Transparent Cover (Mounting Plates Sold Separately)

High Base

H (mm)	W (mm)	D (mm)	Lid Depth (mm)	Base Depth (mm)	Item Type	Catalogue No.	\$AU
130	130	75	25	50		PC 125/75 HT	108.00
130	130	100	50	50	I	PC 125/100 HT	109.00
130	180	60	10	50		PC 150/60 HT	124.00
130	180	75	25	50		PC 150/75 HT	124.00
130	180	100	50	50		PC 150/100 HT	129.00
180	180	150	100	50		PC 175/150 HT	191.00
180	255	75	25	50	I	PC 200/75 HT	283.00
180	255	100	50	50		PC 200/100 HT	285.00
180	255	150	100	50		PC 200/150 HT	291.00



PC 125/100 HT

Mounting Plates - Steel

H x W (mm)	Material	Thickness (mm)	Suits Enclosure (mm H x W)	Item Type	Catalogue No.	\$AU
98 x 48	Zinc Galvanized Steel	1.5	130 x 80		MIV100	13.00
98 x 98	Zinc Galvanized Steel	1.5	130 x 130		MIV125	13.00
148 x 98	Zinc Galvanized Steel	1.5	180 x 130		MIV150	15.00
148 x 148	Zinc Galvanized Steel	1.5	180 x 180		MIV175	23.00
223 x 148	Zinc Galvanized Steel	1.5	255 x 180		MIV200	27.00



MIV125

DIN Rail



MIV10

Length (mm)	Enclosure (mm width)	Item Type	Catalogue No.	\$AU
100	130		MIV10	12.00
150	180		MIV15	16.00

Wall Fastening Lugs



FP 22046

Enclosure	Item Type	Catalogue No.	\$AU
Suits all enclosure sizes.	I	FP 22046	9.65

Wing Head Screws suit MNX

Enclosure	Item Type	Catalogue No.	\$AU
MNX low cover/low base	I	MBS LH	12.00

Other accessories for MNX



FP 10674

Item Description	Item Type	Catalogue No.	\$AU
Wall Fastening Lug Including Screws (Qty 2)	I	FP 10674	12.00

Euronord PC/ABS Range

Perfect for housing terminals and other DIN rail devices, the Euronord range is easy to install and has a perfectly flat material surface. With over 100 enclosures across four different material types, the Euronord range provides incredible interchangeability when replacing existing units. Available in halogen free, impact resistant polycarbonate or ABS with a polyurethane gasket and ferritic stainless steel phillips head cover screws.

- IP66/67 rated, PC: IK08 (front surface) IK07 (side surface), ABS: IK07
- Grey RAL 7035 coloured base
- Transparent cover (polycarbonate only) or grey cover option
- Polyurethane gasket
- RoHS compliant

Euronord ABS Enclosures (Mounting Plates Sold Separately)



AB 081206

H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
80	120	55		AB 081206	129.00
120	160	90		AB 121609	200.00
160	250	90		AB 162509	317.00

Euronord PC Enclosures with Grey Cover (Mounting Plates Sold Separately)



PC 162509

H (mm)	W (mm)	D (mm)	Base Depth (mm)	Item Type	Catalogue No.	\$AU
160	250	90	75		PC 162509	359.00
160	250	125	75		PC 162513	443.00

Euronord PC Enclosures with Transparent Cover (Mounting Plates Sold Separately)

H (mm)	W (mm)	D (mm)	Base Depth (mm)	Item Type	Catalogue No.	\$AU
120	160	95	60		PCT 121609	298.00



PCT 121609

Mounting Plates - Steel

Dimensions (mm H x W)	Item Type	Catalogue No.	\$AU
111 x 134		TM 1216	20.00
151 x 224		TM 1625	24.00



TM 1216

Wall Fastening Lugs

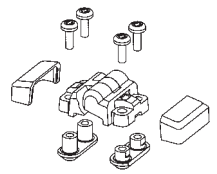
Item Description	Item Type	Catalogue No.	\$AU
Wall Fastening Lugs Suit Fibox Euronord (Qty 4)		TF 28037	46.00



TF 28037

Hinge Sets

Item Description	Item Type	Catalogue No.	\$AU
Hinge Set Plastic Suit Fibox MNX/Euronord PC/ABS		TH A	31.00



TH A

Solid Range

The Solid range is a superb all-rounder, both indoors and outdoors. With an IP66/67 protection rating, a wide range of accessories including a 180° hinged cover for easy access, the Solid range is the all-purpose solution.

- IP66/67 rated, PC: IK08 (side surface) IK09 (front surface), ABS: IK08
- Halogen free, impact resistant polycarbonate or ABS
- Totally insulated, polyurethane gasket and polyamide screws
- Grey RAL 7035 coloured base with option of transparent or grey cover
- RoHS compliant

Solid ABS Enclosures with Grey Cover (Mounting Plates Sold Separately)

H (mm)	W (mm)	D (mm)	Base Depth (mm)	Item Type	Catalogue No.	\$AU
188	188	130	100		ABS 191913 G	148.00
188	278	130	100		ABS 281913 G	175.00
188	188	180	100		ABS 191918 G	187.00
188	278	180	100		ABS 281918 G	206.00
188	378	130	100		ABS 381913 G	224.00
278	278	130	100		ABS 282813 G	233.00
188	378	180	100		ABS 381918 G	265.00
278	278	180	100		ABS 282818 G	272.00
278	378	130	100		ABS 382813 G	279.00
280	380	180	100		ABS 382818G	329.00
278	558	130	100		ABS 562813 G	443.00
378	558	180	150		ABS 563818 G	606.00



ABS 381918 G



ABS 191913 T

Solid ABS Enclosures with Transparent Cover (Mounting Plates Sold Separately)

H (mm)	W (mm)	D (mm)	Base Depth (mm)	Item Type	Catalogue No.	\$AU
188	188	130	100		ABS 191913 T	163.00
188	278	130	100		ABS 281913 T	212.00



PC 562813 G

Solid PC Enclosures with Grey Cover (Mounting Plates Sold Separately)

H (mm)	W (mm)	D (mm)	Base Depth (mm)	Item Type	Catalogue No.	\$AU
188	188	130	100		PC 191913 G	235.00
188	188	180	100		PC 191918 G	257.00
188	278	130	100		PC 281913 G	281.00
188	278	180	100		PC 281918 G	319.00
188	378	130	100		PC 381913 G	374.00
278	278	130	100		PC 282813 G	391.00
278	278	180	100		PC 282818 G	418.00
188	378	180	100		PC 381918 G	418.00
278	378	130	100		PC 382813 G	489.00
278	378	180	100		PC 382818 G	521.00
278	558	130	100		PC 562813 G	736.00
378	558	180	150		PC 563818 G	1,020.00



PC 381913 T

Solid PC Enclosures with Transparent Cover (Mounting Plates Sold Separately)

H (mm)	W (mm)	D (mm)	Base Depth (mm)	Item Type	Catalogue No.	\$AU
188	188	180	100		PC 191918 T	257.00
188	188	130	100		PC 191913 T	280.00
188	278	130	100		PC 281913 T	286.00
188	278	180	100		PC 281918 T	325.00
188	378	130	100		PC 381913 T	374.00
278	278	130	100		PC 282813 T	391.00
278	278	180	100		PC 282818 T	418.00
188	378	180	100		PC 381918 T	418.00
278	378	130	100		PC 382813 T	498.00
278	378	180	100		PC 382818 T	511.00
278	558	130	100		PC 562813 T	736.00
378	558	180	150		PC 563818 T	1,001.00

Solid PC Bases

Polycarbonate covers can be found in the 'EK/Solid Accessories' section



PC 3819

H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
190	190	100		PC 1919	125.00
190	280	100		PC 2819	168.00
190	380	100	I	PC 3819	204.00
280	280	100		PC 2828	225.00
280	380	100		PC 3828	260.00

Accessories to suit EK/Solid Terminal Boxes

Grey EK/Solid PC Enclosure Covers



EKH 30G

Enclosure (mm H x W x D)	Lid Depth (mm)	Item Type	Catalogue No.	\$AU
190 x 190 x 130	30		EKH 30G	90.00
190 x 280 x 130	30		EKJ 30G	102.00
190 x 280 x 180	80		EKJ 80G	138.00
190 x 380 x 130	30		EKM 30G	153.00
280 x 280 x 180	80		EKO 80G	175.00
280 x 380 x 130	30		EKP 30G	218.00
280 x 380 x 180	80		EKP 80G	241.00
380 x 560 x 180	80		EKU 30G	366.00

Transparent EK/Solid PC Enclosure Covers

Enclosure (mm H x W x D)	Lid Depth (mm)	Item Type	Catalogue No.	\$AU
190 x 190 x 130	30		EKH 30T	88.00
280 x 190 x 130	30		EKJ 30T	102.00
190 x 190 x 180	80	I	EKH 80T	105.00
190 x 280 x 180	80		EKJ 80T	138.00
190 x 380 x 130	30		EKM 30T	153.00
280 x 280 x 130	30		EKO 30T	163.00
280 x 280 x 180	80		EKO 80T	175.00
280 x 380 x 130	30		EKP 30T	218.00
280 x 380 x 230	80		EKP 80T	241.00
280 x 560 x 130	30		EKT 30T	352.00
380 x 560 x 180	80		EKU 30T	366.00



Grey EK/Solid PC Enclosure Covers with Pre-Fitted Hinges and Cover Screws

Enclosure (mm H x W)	Lid Depth (mm)	Item Type	Catalogue No.	\$AU
190 x 190	30		EKH 30G-2FSH	124.00
190 x 280	30		EKJ 30G-2FSH	164.00
190 x 280	80		EKJ 80G-2FSH	190.00
280 x 280	30		EKO 30G-2FSH	211.00
280 x 380	30		EKP 30G-2FSH	241.00
280 x 280	80		EKO 80G-2FSH	249.00
280 x 380	80		EKP 80G-2FSH	302.00



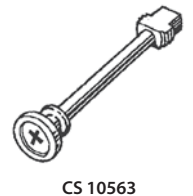
Transparent EK/Solid PC Enclosure Covers with Pre-Fitted Hinges and Cover Screws

Enclosure (mm H x W)	Lid Depth (mm)	Item Type	Catalogue No.	\$AU
190 x 190	30		EKH 30T-2FSH	124.00
190 x 280	30		EKJ 30T-2FSH	164.00
190 x 280	80	I	EKJ 80T-2FSH	190.00
280 x 280	30	I	EKO 30T-2FSH	211.00
280 x 380	30		EKP 30T-2FSH	241.00
380 x 560	30	I	EKU 30T-3FSH	374.00



Cover Screws for EK/Solid

Item Description	Item Type	Catalogue No.	\$AU
Screw Suit EK/Solid Extension Wall		MB 10666	4.20
Screw Wing Head Suit 30mm EK/Solid Cover		HS 10255	4.75
Screw Phillips Head For 30/100mm Cover		CS 10256	4.80
Screw Slotted Sealable Suit 30mm EK/Solid Cover		SS 10535	5.35
Screw Wing Head Suit 80mm EK/Solid Cover		HS 10562	6.10
Screw Phillips Head For 80mm Cover		CS 10563	6.80



Extension Walls for EK/Solid

Enclosure (mm H x W)	D (mm)	Item Type	Catalogue No.	\$AU
190 x 280	50		EKJZR	186.00
280 x 280	50		EKOZR	213.00
280 x 380	50		EKPZR	229.00
380 x 560	50		EKUZR	320.00



Mounting Plates for EK/Solid - Steel

H x W (mm)	Material	Thickness (mm)	Item Type	Catalogue No.	\$AU
190 x 190	Zinc Galvanized Steel	1.5		EKHVT	23.00
190 x 280	Zinc Galvanized Steel	1.5		EKJVT	35.00
190 x 380	Zinc Galvanized Steel	1.5		EKMVT	49.00
280 x 280	Zinc Galvanized Steel	1.5		EKOVT	51.00
280 x 380	Zinc Galvanized Steel	1.5		EKPVT	62.00
280 x 560	Zinc Galvanized Steel	1.5		EKTVT	188.00
380 x 560	Zinc Galvanized Steel	1.5		EKUVT	214.00



Mounting Plates for EK/Solid - Insulated



EKHVTP

H x W (mm)	Material	Thickness (mm)	Item Type	Catalogue No.	\$AU
190 x 190	Plastic	3		EKHVTP	35.00
190 x 280	Plastic	3		EKJVTP	46.00
190 x 380	Plastic	3		EKMVTP	53.00
280 x 280	Plastic	3		EKOVTP	59.00
280 x 380	Plastic	3		EKPVTP	80.00
380 x 560	Plastic	3		EKUVTP	142.00

Hinge Sets



HS 10532

Item Description	Item Type	Catalogue No.	\$AU
Hinge Wing Head Suit 30mm Solid Cover		HS 10532	13.00
Hinge Set Polycarbonate To Suit EK/Solid		MB 10622 S	38.00

Wall Fastening Lugs for EK/Solid



MB 10674

Item Description	Item Type	Catalogue No.	\$AU
Wall Fastening Lugs Suit Solid (Qty 4)		MB 10674	26.00

Ventilation and Drainage Devices



MB 10564

Item Description	Item Type	Catalogue No.	\$AU
Ventilation Device IP33		MB 10631	16.00
Ventilation Device IP44 50X70mm		MB 10564	37.00

Inspection Windows and Accessories

These inspection windows can be used with any product and are a perfect complement to a complete panelboard or electrical cabinet.

Inspection Windows



L13

Item Description	Cutout H x W (mm)	Window H x W (mm)	IP Rating	Item Type	Catalogue No.	\$AU
Inspection Window 2 DIN Module Opening W77 x H60mm	94 x 77	78 x 49	IP54		L02	92.00
Inspection Window 4 DIN Module Opening W78 x H50mm	94 x 77	78 x 49	IP54		L04	93.00
Inspection Window 6 DIN Module Opening W114 x H50mm	130 x 77	114 x 49	IP54		L06	111.00
Inspection Window 8 DIN Module Opening W146 x H50mm	163 x 77	147 x 49	IP54		L08	119.00
Inspection Window 10 DIN Module Opening W200 x H50mm	200 x 77	184 x 49	IP54		L10	149.00
Inspection Window 13 DIN Module Opening W243 x H64mm	257 x 108	213 x 46	IP65		L13	175.00
Inspection Window 12 DIN Module Opening W220 x H100mm	248 x 128	213 x 93	IP65		L12II	179.00
Inspection Window 24 DIN Module Opening W220 x H190mm	248 x 218	213 x 185	IP65		L24II	203.00
Inspection Window 26 DIN Module Opening W241 x H295mm	248 x 218	213 x 185	IP65		L43II	416.00

Terminal Boxes

Aluminium Terminal Boxes

- Over 20 standard sizes meeting requirements for small junction boxes up to larger outdoor control enclosures
- Excellent chemical resistance, good heat-sink properties and short term heat ratings provide the best value for money protection of your components
- With an IP rating of IP66/67/68 the ALN range protects not only against dust/water ingress but against submersion in 1.2m of water for up to 2 hours
- Captive stainless steel cover screws ensure every component of the enclosure is suitable for harsh environments

Aluminium enclosures provide chemical resistance and a short term temperature rating of -40 to +120°C. With an IP66/67/68 protection rating, the ALN terminal boxes provide the highest IP protection in the market, suitable for submersion up to 1.2m for up to 2 hours. Knocks, chemicals, temperatures that swing from tropical to frozen, or where EMC protection is an issue – these enclosures beat the competition in guarding against it all. Consider the Fibox aluminium range for the harshest environments where stainless steel or GRP is not an option.



Terminal Boxes (Mounting Plate Sold Separately)

H (mm)	W (mm)	D (mm)	Item Type	Catalogue No.	\$AU
66	60	46	I	ALN 060605	142.00
66	100	46		ALN 061005	163.00
81	77	57		ALN 080806	192.00
81	127	57		ALN 081306	253.00
81	177	57		ALN 081806	288.00
81	252	57		ALN 082506	418.00
125	124	81		ALN 121208	435.00
125	222	81		ALN 122208	509.00
163	364	91		ALN 161609	585.00
263	162	91		ALN 162609	744.00
230	230	180		ALN 233318	2,077.00



ALN 233318

Terminal Boxes

Mild Steel Terminal Boxes



- 1.2mm mild steel construction provides a good level of corrosion protection in indoor environments
- Body is folded and seam welded ensuring IP66 and IK08 protection ratings to take all knocks, bumps and sprays
- Wall mounting holes are pre-punched with wall mount brackets, hinges and mounting plates available allowing flexibility between the same box in changing applications
- Comprehensive approvals and standards including CE, GOST and UL
- Accessories compatible between STB and SSTB range making installation across the ranges quick and easy

nVent HOFFMAN (previously Eldon) STB mild steel terminal boxes are manufactured to the highest quality in light grey RAL 7035 powder coat finish. Perfect for indoor terminal, pushbutton or instrumentation applications the STB range is available in two different depths to accommodate different requirements. Using 1.2mm mild steel these enclosures are folded and fully seam welded, including four pre-drilled holes for easy wall mounting. The IP66 rating is ensured by an injected one piece polyurethane gasket guaranteeing protection against dust and water ingress.



STB 151508

Terminal Boxes (Mounting Plates and DIN Profile Sold Separately)

H (mm)	W (mm)	D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
150	150	80	1.24		STB 151508	203.00
150	150	120	1.46		STB 151512	231.00
150	300	120	2.56		STB 153012	257.00
200	200	80	2		STB 202008	237.00
200	200	120	2.3		STB 202012	240.00
200	300	80	2.82		STB 203008	237.00
200	300	120	3.19		STB 203012	280.00
200	400	120	4.09		STB 204012	306.00
300	300	120	4.54		STB 303012	310.00
300	400	120	5.79		STB 304012	357.00
300	500	120	7.04		STB 305012	388.00
400	400	120	7.49		STB 404012	398.00

STB/SSTB Accessories

Mounting Plates - Steel



BMP 2020

H x W (mm)	Material	Thickness (mm)	Suits Enclosure (mm H x W)	Item Type	Catalogue No.	\$AU
125 x 120	Zinc Galvanized Steel	2	150 x 150		BMP 1515	35.00
175 x 170	Zinc Galvanized Steel	2	200 x 200		BMP 2020	35.00
125 x 270	Zinc Galvanized Steel	2	150 x 300		BMP 1530	36.00
175 x 270	Zinc Galvanized Steel	2	200 x 300		BMP 2030	39.00
175 x 370	Zinc Galvanized Steel	2	200 x 400		BMP 2040	46.00
275 x 270	Zinc Galvanized Steel	2	300 x 300		BMP 3030	53.00
275 x 370	Zinc Galvanized Steel	2	300 x 400		BMP 3040	67.00
275 x 470	Zinc Galvanized Steel	2	300 x 500		BMP 3050	81.00
375 x 370	Zinc Galvanized Steel	2	400 x 400	I	BMP 4040	97.00

DIN Profiles Required to fit DIN Rail



BPP 15

Item Description	Item Type	Catalogue No.	\$AU
DIN Profiles To Suit nVent HOFFMAN STB/SSTB H150mm		BPP 15	34.00
DIN Profiles To Suit nVent HOFFMAN STB/SSTB H200mm		BPP 20	35.00
DIN Profiles To Suit nVent HOFFMAN STB/SSTB H300mm	I	BPP 30	63.00

Wall Mounting Brackets

Description	Item Type	Catalogue No.
Wall Mount Brackets Zinc Steel Eldon NLS/MAS/MAD (QTY 4)		AW41

AW41_dCHRT_S01

Terminal Boxes

Stainless Steel Terminal Boxes

- 1mm body/1.5mm lid AISI 316L stainless steel construction provides chemical resistance in harsh, corrosive and chemical environments
- 400 pre-grained dairy finish ensures no surface pitting corrosion
- Body is folded and seam welded ensuring IP66 and IK08 protection ratings to take all knocks, bumps and sprays
- No pre-drilled holes and corner formed edges ensures no potential contamination points
- Comprehensive approvals and standards compliance including CE, KEMA, CUL and UL
- Accessories compatible between STB and SSTB range making installation across the ranges quick and easy
- Injected white silicone gasket provides higher UV and chemical resistance than traditional polyurethane gaskets

When it comes to the harshest of outdoor environments, only 316L marine grade stainless steel will do. The nVent HOFFMAN (previously Eldon) SSTB terminal box range is fully UL and IP66 certified with 316L grade stainless steel and a 400 dairy finish, ensuring your vital componentry is protected against the worst of seaside corrosion, outdoor elements and wash-down chemicals. With fully welded construction providing no bacteria contamination points, the SSTB range can be mounted any way you want. The special white gasket features higher UV and chemical resistance than traditional polyurethane (PUR) gaskets with almost zero water absorption for a longer life expectancy. Stainless steel wall mount brackets compliment the range as well as mild steel DIN rail supports and mounting plates.



Terminal Boxes (Mounting Plate and DIN Profile Sold Separately)

H (mm)	W (mm)	D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
150	150	80	1.1		SSTB 151508-316	819.00
150	300	80	1.8		SSTB 153008-316	1,190.00
150	300	120	2.15		SSTB 153012-316	1,190.00
200	200	80	1.65		SSTB 202008-316	1,098.00
200	200	120	1.95		SSTB 202012-316	1,115.00
200	300	120	2.15		SSTB 203012-316	1,242.00
200	400	120	3.2		SSTB 204012-316	1,488.00
300	300	120	2.55		SSTB 303012-316	1,446.00
300	400	120	3.2		SSTB 304012-316	1,538.00
300	500	120	3.9		SSTB 305012-316	1,624.00
400	400	120	3.2		SSTB 404012-316	1,590.00



SSTB 151508-316

SSTB Accessories

Wall Mounting Brackets

Item Description	Item Type	Catalogue No.	\$AU
Wall Mount Brackets 316 S/S nVent HOFFMAN SSTB/ASR/ADR (Qty 4)		AWS41-316	239.00



AWS41-316

Hinge Sets

Item Description	Item Type	Catalogue No.	\$AU
Hinge Set Suit nVent HOFFMAN SSTB Terminal Boxes (Qty 2)		SSTB H 02	329.00



SSTB H 02

Mounting Plates - Steel

H x W (mm)	Material	Thickness (mm)	Suits Enclosure (mm H x W)	Catalogue No.
125 x 120	Zinc Galvanized Steel	2	150 x 150	BMP1515
125 x 270	Zinc Galvanized Steel	2	150 x 300	BMP1530
175 x 170	Zinc Galvanized Steel	2	200 x 200	BMP2020
175 x 270	Zinc Galvanized Steel	2	200 x 300	BMP2030
175 x 370	Zinc Galvanized Steel	2	200 x 400	BMP2040
275 x 270	Zinc Galvanized Steel	2	300 x 300	BMP3030
275 x 370	Zinc Galvanized Steel	2	300 x 400	BMP3040
275 x 470	Zinc Galvanized Steel	2	300 x 500	BMP3050
375 x 370	Zinc Galvanized Steel	2	400 x 400	BMP4040

DIN Profiles Required to fit DIN Rail

Item Description	Catalogue No.
Din Profiles To Suit STB H150mm	BPP 15
Din Profiles To Suit STB H200mm	BPP 20
Din Profiles To Suit STB H300mm	BPP 30

BMP1515_dCHRT-S01

Milling | Custom Order Form



CUSTOMER DETAILS		CUSTOMER SERVICE ONLY	
Account Number		Purchase Order Number	
Company Name		NHP Sales Order Number	
Company Contact		NHP Sales Representative	
Contact Number		Production Order Number	
Email Address		Date	

Note: One order form required for each different enclosure type.

Existing order

Drawing number	Price /unit	Order quantity	Total
MD-M005678	\$22.00	20	\$440.00
	\$		\$

New order

Enclosure / Cat No.	Order quantity ¹⁾
PC382818G	5

Customisation information

Enclosure material	MILLING		ENGRAVING		Total
	Price/hole	No. holes	Price/character	No. characters	
PC/ABS enclosure	\$1.00		\$1.00		\$
GRP (Polyester) enclosure	\$2.00		\$2.00		\$
AL (Aluminium) enclosure	\$4.00		\$4.00		\$

Turns

	Price/turn ¹⁾	No. turns	Total
All enclosure types	\$1.00		\$

Set up fee

No. enclosures	Price	Total
Ten or more enclosures	\$60.00	\$
Less than ten enclosures	\$120.00	\$

DRAWING ATTACHED? (CAD / PDF):

Yes ☐ Alternatively complete your customisation requirements on template provided on page 2.

FIBOX

Notes: 1) Turn refers to number of sides being worked on.

This form is available at nhp.com.au/forms

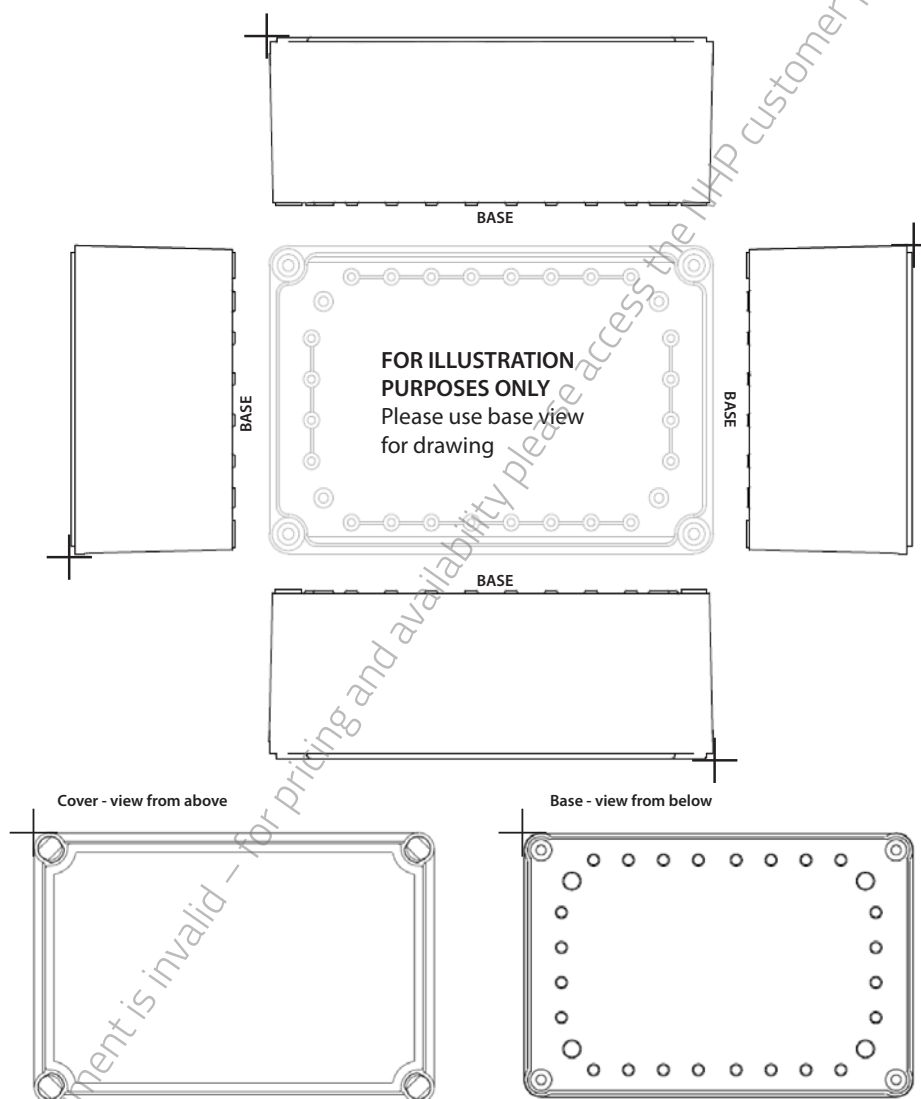
Milling | Custom Order Form

Drawing Example



Crosshair indicates reference point for measurements.

Mark all required customisations below with measurements in mm. Tolerances $\pm 0.5\text{mm}$



Please email the complete form to: sales@nhp-nz.com (New Zealand) and nhpsales@nhp.com.au (Australia).

FIBOX

This form is available at nhp.com.au/forms

NFB0XMILLINGF_D02

Wall Mount Enclosures

Wall Mount Enclosures - GRPC, ABS and PC

ARCA GRPC Wall Mount Enclosures
ARCA Accessories
Wall Mount Enclosures - CAB PC/ABS
CAB PC/ABS Accessories

Page 883

Page 883

Page 885

Page 885

- Fully electrically insulated, corrosion proof and weighing up to 60% less than steel makes them a perfect alternative to stainless steel
- Easily customised and machined with easy to use accessories makes installation a dream
- UV protection according to UL 508 and IP66 rating ensures the ARCA enclosures stand the test of time in outdoor conditions
- IK10 impact protection rating provides excellent protection against vandalism
- Patented strong hinge design to withstand regular door opening to 120° and the fitting of door mounted components
- Compatible with the majority of NHP's existing standard enclosure locking options to ensure a secure solution for every application
- Patented lockable inner door – no tools required for mounting
- Patented easy to use DIN-rail frame set design – no special tools required – easy and quick mounting
- Mounting pods on the base, cover and four base sides
- Variable depth option for internal plates
- Double corner design with mounting holes outside the ingress protected area
- Option for steel or insulated mounting plates



Fibox thermoplastic cabinets enclose and protect your equipment and devices in all conditions, even the harshest and most demanding environments. The new ARCA glass fibre reinforced polycarbonate enclosure is the future of wall mounted cabinets, combining the strength of steel with lightweight and corrosion free material.

ARCA GRPC Wall Mount Enclosures

Wall Mount Enclosures with Grey Cover (Mounting Plates Sold Separately)

H x W x D (mm)	Item Type	Catalogue No.	\$AU
200 x 300 x 150	I	ARCA 203015	498.00
300 x 200 x 150		ARCA 302015	493.00
300 x 400 x 150		ARCA 304015	643.00
300 x 400 x 210	I	ARCA 304021	649.00
400 x 300 x 150		ARCA 403015	639.00
400 x 300 x 210		ARCA 403021	655.00
400 x 500 x 210		ARCA 405021	817.00
400 x 600 x 210	I	ARCA 406021	817.00
500 x 400 x 210		ARCA 504021	809.00
500 x 700 x 300		ARCA 507030	1,552.00
600 x 400 x 210		ARCA 604021	857.00
600 x 800 x 300		ARCA 608030	1,987.00
700 x 500 x 300		ARCA 705030	1,552.00
800 x 600 x 300		ARCA 806030	1,866.00



ARCA 302015

ARCA Accessories

Inner Doors

Enclosure (mm H x W)	Item Type	Catalogue No.	\$AU
200 x 300	I	IDS ARCA 2030	394.00
300 x 200	I	IDS ARCA 3020	394.00
400 x 300		IDS ARCA 4030	492.00
300 x 400	I	IDS ARCA 3040	503.00
500 x 400		IDS ARCA 5040	550.00
400 x 500	I	IDS ARCA 4050	559.00
600 x 400		IDS ARCA 6040	578.00
400 x 500	I	IDS ARCA 4060	605.00
700 x 500		IDS ARCA 7050	767.00
500 x 700	I	IDS ARCA 5070	782.00
600 x 800	I	IDS ARCA 6080	973.00
800 x 600		IDS ARCA 8060	982.00



IDS ARCA 5040

Mounting Plates - Insulated



MPS ARCA8060 P

Enclosure (mm H x W x D)	H (mm)	W (mm)	Thickness (mm)	Material	Item Type	Catalogue No.	\$AU
300 x 200 x 150	250	150	4.5	Formica		MPS ARCA3020 P	35.00
400 x 300 x 150	350	250	4.5	Formica		MPS ARCA4030 P	69.00
500 x 400 x 210	450	320	4.5	Formica		MPS ARCA5040 P	123.00
600 x 400 x 210	550	350	6	Formica		MPS ARCA6040 P	127.00
700 x 500 x 300	630	430	6	Formica		MPS ARCA7050 P	277.00
800 x 600 x 300	730	530	6	Formica		MPS ARCA8060 P	319.00

Mounting Plates - Steel



MPS ARCA 6040

Enclosure (mm H x W x D)	H (mm)	W (mm)	Thickness (mm)	Material	Item Type	Catalogue No.	\$AU
300 x 200 x 150	250	150	2	Zinc Galvanized Steel		MPS ARCA 3020	43.00
400 x 300 x 150	350	250	2	Zinc Galvanized Steel		MPS ARCA 4030	82.00
500 x 400 x 210	450	320	2	Zinc Galvanized Steel		MPS ARCA 5040	145.00
600 x 400 x 210	550	350	2	Zinc Galvanized Steel		MPS ARCA 6040	160.00
700 x 500 x 300	630	430	2	Zinc Galvanized Steel		MPS ARCA 7050	312.00
800 x 600 x 300	730	530	2	Zinc Galvanized Steel		MPS ARCA 8060	397.00

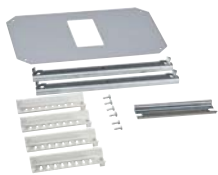
Depth Adjustment Kits



CBS ARCA 30

Enclosure	Item Type	Catalogue No.	\$AU
Suits ARCA Depth 210mm		CBS ARCA 21	152.00
Suits ARCA Depth 300mm	I	CBS ARCA 30	163.00

DIN Rail Frame Sets



DRS ARCA 302015

Enclosure (mm H x W x D)	Module Rows (qty)	Modules (qty per row)	Item Type	Catalogue No.	\$AU
200 x 300 x 150	1	11	I	DRS ARCA 203015	309.00
300 x 200 x 150	1	5	I	DRS ARCA 302015	286.00
300 x 400 x 150	1	16	I	DRS ARCA 304015	384.00
300 x 400 x 210	1	16	I	DRS ARCA 304021	403.00
400 x 300 x 150	2	10	I	DRS ARCA 403015	365.00
400 x 300 x 210	2	10	I	DRS ARCA 403021	365.00
400 x 500 x 210	2	22	I	DRS ARCA 405021	497.00
400 x 600 x 210	2	27	I	DRS ARCA 406021	649.00
500 x 400 x 210	3	16	I	DRS ARCA 504021	469.00
500 x 700 x 300	3	32	I	DRS ARCA 507030	593.00
600 x 400 x 210	3	16	I	DRS ARCA 604021	550.00
600 x 800 x 300	3	38	I	DRS ARCA 608040	788.00
700 x 500 x 300	4	21	I	DRS ARCA 705030	582.00
800 x 600 x 300	4	27	I	DRS ARCA 806030	739.00

Wall Mounting Brackets - Stainless Steel



WMK ARCA 40

Item Description	Item Type	Catalogue No.	\$AU
Wall Mount Brackets ARCA Up To H600xW400mm 40mm Gap (Qty 4)	I	WMK ARCA 40	163.00
Wall Mount Brackets ARCA Up To H7050xW8060mm 10mm Gap (Qty 4)		WMK ARCA 10M	211.00
Wall Mount Brackets ARCA Up To H7050xW8060mm 40mm Gap (Qty 4)	I	WMK ARCA 40M	229.00

ARCA Protection Window



PW 343009T

Item Description	Item Type	Catalogue No.	\$AU
ARCA Protection Window IP66 340x300x90mm Transparent	I	PW 343009T	676.00
ARCA Protection Window IP66 450x400x90mm Transparent	I	PW 454009T	950.00

Wall Mount Enclosures - CAB PC/ABS

CAB PC high impact resistant polycarbonate wall mounting cabinets withstand harsh industrial and outdoor environments whereas CAB ABS is the economical option for indoor applications.

CAB ABS Enclosures (Mounting Plates Sold Separately)

Grey Covers

H x W x D (mm)	Cover (colour)	Lock (type)	Item Type	Catalogue No.	\$AU
150 x 150 x 110	Grey	Latch		CAB ABS 151511 G	126.00
300 x 200 x 180	Grey	DIN - 1/4 Turn		CAB ABS 302018 G 3B	307.00
300 x 300 x 180	Grey	DIN - 1/4 Turn		CAB ABS 303018 G 3B	331.00
400 x 300 x 180	Grey	DIN - 1/4 Turn		CAB ABS 403018 G 3B	418.00
500 x 400 x 200	Grey	DIN - 1/4 Turn		CAB ABS 504020 G 3B	635.00



CAB ABS 302018 G 3B

CAB PC Enclosures (Mounting Plates Sold Separately)

Grey Covers

H x W x D (mm)	Cover (colour)	Lock (type)	Item Type	Catalogue No.	\$AU
300 x 200 x 180	Grey	DIN - 1/4 Turn		CAB PC 302018 G3B	394.00
300 x 300 x 180	Grey	DIN - 1/4 Turn		CAB PC 303018 G3B	507.00
400 x 300 x 180	Grey	DIN - 1/4 Turn		CAB PC 403018 G3B	632.00
500 x 400 x 200	Grey	DIN - 1/4 Turn		CAB PC 504020 G3B	893.00
600 x 400 x 220	Grey	DIN - 1/4 Turn		CAB PC 604022 G3B	1,435.00



CAB PC 302018 G3B

Transparent Covers

H x W x D (mm)	Cover (colour)	Lock (type)	Item Type	Catalogue No.	\$AU
300 x 200 x 180	Clear / Transparent	DIN - 1/4 Turn		CAB PC 302018 T3B	401.00
300 x 300 x 180	Clear / Transparent	DIN - 1/4 Turn		CAB PC 303018 T3B	507.00
400 x 300 x 180	Clear / Transparent	DIN - 1/4 Turn		CAB PC 403018 T3B	632.00
500 x 400 x 200	Clear / Transparent	DIN - 1/4 Turn		CAB PC 504020 T3B	893.00



CAB PC 403018 T3B

CAB PC/ABS Accessories

Mounting Plates - Metal

Item Description	Item Type	Catalogue No.	\$AU
Mounting Plate Steel W125xH125mm Suit 150x150mm CAB PC/ABS	I	EKIV15	15.00
Mounting Plate Steel W170xH270mm Suit 200x300mm CAB PC/ABS		EKIV23	36.00
Mounting Plate Steel W270xH270mm Suit 300x300mm CAB PC/ABS		EKIV33	44.00
Mounting Plate Steel W270xH370mm Suit 300x400mm CAB PC/ABS		EKIV43	59.00
Mounting Plate Steel W370xH470mm Suit 400x500mm CAB PC/ABS		EKIV54	69.00



EKIV15

External Mounting Brackets

Item Description	Item Type	Catalogue No.	\$AU
Wall Mounting Brackets Suit CAB PC/ABS (Qty 4)		FP 12017	39.00



FP 12017

Wall Mount Enclosures

Wall Mount Enclosures - GRP



- Fully electrically insulated, corrosion and chemical resistant and weighing up to 60% less than steel
- Easily customised and machined with easy to use accessories makes installation a dream
- Flame resistant to UL 94 V-0
- Suitable for harsh applications where stainless steel is not an option
- One piece body for improved mechanical resistance, providing an IP66, IK10 rating

Suitable for steel works, oil refineries, breweries and various other corrosive applications the CAB range has excellent chemical resistance. The CAB range is also double insulated, ensuring your components are protected. Flame resistant up to 70°C in continuous use using UL 94 V-0 approved, halogen free material. Consideration should be given to the CAB range in harsh, corrosive environments.

Wall Mount Enclosures - GRP

CAB GRP Enclosures (Mounting Plates Sold Separately)



CAB 302017

H x W x D (mm)	Item Type	Catalogue No.	\$AU
315 x 215 x 170		CAB 302017	667.00
415 x 315 x 170		CAB 403017	916.00
515 x 415 x 230		CAB 504023	1,152.00
615 x 415 x 230		CAB 604023	1,568.00
735 x 535 x 270		CAB 705027	2,321.00
835 x 635 x 300		CAB 806030	2,777.00
1035 x 835 x 300		CAB 1008030	4,181.00

CAB GRP Accessories

Fixed Inner Doors



FP 6040-D

Enclosure	Item Type	Catalogue No.	\$AU
Suits CAB GRP 6040	I	FP 6040-D	304.00

Mounting Plates - Steel



MP 3020

Enclosure	Item Type	Catalogue No.	\$AU
Suits CAB 302017	I	MP 3020	120.00
Suits CAB 403017		MP 4030	191.00
Suits CAB 504023		MP 5040	242.00
Suits CAB 604023		MP 6040	354.00
Suits CAB 705027		MP 7050	434.00
Suits CAB 1008030		MP 10080	792.00
Suits CAB 806030		MP 8060	860.00

Mounting Plates - Insulated



MP 4030 P

Enclosure	Item Type	Catalogue No.	\$AU
Suits CAB 403017	I	MP 4030 P	165.00
Suits CAB 604023		MP 6040 P	306.00

Wall Mounting Brackets



TF CAB

Item Description	Item Type	Catalogue No.	\$AU
Wall Mounting Lugs Polyamide Suit Fibox CAB GRP (Qty 4)		TF CAB	100.00
Wall Mounting Lugs Stainless Steel Suit Fibox CAB GRP (Qty 4)		MF CAB	112.00

Hinge Kits

Item Description	Item Type	Catalogue No.	\$AU
Hinge Set To Suit CAB GRP FP Fixed Inner Doors	I	MB CAB	73.00



Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Wall Mount Enclosures

N-Line Wall Mount Enclosures - Mild Steel



- 14 sizes in RAL 7035 light grey powder coating, with IP66 and IK10 protection ensuring a good quality product.
- Includes 2mm galvanised steel mounting plate, gland plate, quarter turn double-bit 3mm insulated lock and key providing all you need for installation straight away
- Reversible door allows for flexibility in installation with the same enclosure able to be used in double the applications
- Recommended for indoor use only.

Suitable where an economic, long-lasting and easy to use product is required, consider the NLS range for HVAC, telecommunications and other indoor applications. RAL 7035 powder coated high quality mild steel, an IP66/IK10 protection rating and reversible door, the NLS range is suitable for a variety of indoor applications. Included in delivery is a 2mm galvanised steel mounting plate, gland plate, double-bit 3mm lock, with pre-drilled holes providing the option to install AW41 wall mounting brackets.

Wall Mount Enclosures - Nline



NLS0202015

H x W x D (mm)	Mounting Plate (mm H x W)	GlandPlate (qty)	Gland Plate Opening (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
200 x 200 x 155	170 x 150	1	110 x 56	1	3		NLS0202015	343.00
300 x 250 x 155	270 x 200	1	110 x 56	1	4.4		NLS0302515	398.00
300 x 300 x 210	270 x 250	1	210 x 96	1	6.5		NLS0303021	424.00
400 x 300 x 210	370 x 250	1	210 x 96	1	7.5		NLS0403021	467.00
400 x 400 x 210	370 x 350	1	310 x 96	1	9.5		NLS0404021	525.00
500 x 400 x 210	470 x 350	1	310 x 96	1	11.7		NLS0504021	515.00
500 x 500 x 210	470 x 450	1	410 x 96	1	14		NLS0505021	701.00
600 x 400 x 210	570 x 350	1	310 x 96	2	13.2		NLS0604021	636.00
600 x 400 x 300	570 x 350	1	310 x 96	2	15.7		NLS0604030	1,004.00
600 x 600 x 210	570 x 550	1	510 x 96	2	20.5		NLS0606021	864.00
600 x 600 x 300	570 x 510	1	510 x 96	2	24		NLS0606030	1,127.00
800 x 600 x 210	770 x 550	1	510 x 96	2	27		NLS0806021	1,063.00
800 x 600 x 300	770 x 550	1	510 x 96	2	30.5		NLS0806030	1,206.00
1000 x 800 x 300	970 x 750	2	310 x 96	1	50.5		NLS1008030	2,040.00

Wall Mount Enclosures

Wall Mount Enclosures - Mild Steel

Wall Mount Enclosures - MAS Single Door	Page 889
Wall Mount Enclosures - MAD Double Door	Page 891
Wall Mount Enclosures - MAP Single Door Horizontal	Page 891
MAS / MAD / MAP / ASR / ADR / SRE Accessories	Page 891

- Over 50 stocked sizes ensuring you have a high quality product ready for any situation in exactly the right size
- IP66 (MAS) / IP55 (MAD) and IK10 protection with fully folded and seam welded mild steel construction providing the highest protection for your internal components, for a range of indoor applications (NOTE - Optional glazed door models are IP55 / IK08)
- Wall fixing holes are pressed out 2mm allowing for the enclosure to lay on its back with no damage to the rear
- Strengthened over folded front frame serves as a gutter to keep liquids away from the polyurethane gasket
- Concealed hinges with captive hinge pins provide 130° opening and clean smooth lines, plus easy removal for maintenance and extra resistance to vibration
- Gland plate installed as standard towards the rear of the enclosure to make for easy wiring
- Comes with galvanised mounting plate as standard with gland plate opening same width as mounting plate for easy installation. Mounting plate is marked at 10mm intervals for easy horizontal positioning of equipment
- Reversible door allows for flexibility in installation with the same enclosure able to be used in double the applications
- A large range of custom locking options available to replace the standard 3mm double-bit lock
- Recommended for indoor use only



Practical, efficient and with a wide range of standard sizes and accessories available from stock, the MAS/MAD range offers a solution to virtually every size imaginable. With a one piece injected polyurethane gasket, as well as a strengthened overfolded frame (which acts as a gutter) the IP66 (IP55 on MAD models) protection rating is ensured leaving you with piece of mind that your components will be protected. The nVent HOFFMAN (previously Eldon) MAS/MAD range has earthing points on the body and door, pre-drilled wall mounting holes, captive hinge pins and the gland plate is positioned to the rear of the cabinet, all reducing installation and maintenance time and costs.

Wall Mount Enclosures - MAS Single Door

MAS Single Door Wall Mount Enclosures - RAL 7035 Light Grey (Includes Mounting Plate)

155mm Deep

H x W x D (mm)	Mounting Plate (mm H x W)	Gland Plate (qty)	Gland Plate Opening (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
200 x 200 x 155	170 x 150	1	110 x 56	1	2.7		MAS0202015R5	351.00
250 x 200 x 155	220 x 150	1	110 x 56	1	3.5		MAS0252015R5	391.00
200 x 300 x 155	170 x 250	1	110 x 56	1	3.8		MAS0203015R5	401.00
300 x 250 x 155	270 x 200	1	110 x 56	1	4.6		MAS0302515R5	409.00
300 x 300 x 155	270 x 250	1	210 x 56	1	5.2		MAS0303015R5	416.00
250 x 250 x 155	220 x 200	1	110 x 56	1	4		MAS0252515R5	440.00
350 x 250 x 155	320 x 200	1	110 x 56	1	5.3		MAS0352515R5	457.00
300 x 500 x 155	270 x 450	1	410 x 56	1	9.2		MAS0305015R5	523.00



MAS0202015R5

210mm Deep

H x W x D (mm)	Mounting Plate (mm H x W)	Gland Plate (qty)	Gland Plate Opening (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
300 x 300 x 210	270 x 250	1	210 x 96	1	6		MAS0303021R5	435.00
400 x 300 x 210	370 x 250	1	210 x 96	1	7.5		MAS0403021R5	473.00
500 x 400 x 210	470 x 350	1	310 x 96	1	11.4		MAS0504021R5	506.00
400 x 400 x 210	370 x 350	1	310 x 96	1	9.8		MAS0404021R5	514.00
500 x 300 x 210	470 x 250	1	210 x 96	1	9		MAS0503021R5	514.00
400 x 600 x 210	370 x 550	1	510 x 96	1	13.4		MAS0406021R5	611.00
600 x 400 x 210	570 x 350	1	310 x 96	2	13.7		MAS0604021R5	652.00
400 x 500 x 210	370 x 450	1	410 x 96	1	11.4		MAS0405021R5	700.00
500 x 500 x 210	470 x 450	1	410 x 96	1	13.5		MAS0505021R5	726.00
600 x 500 x 210	570 x 450	1	410 x 96	2	16.3		MAS0605021R5	864.00
600 x 600 x 210	570 x 550	1	510 x 96	2	21.9		MAS0606021R5	877.00
700 x 500 x 210	670 x 450	1	410 x 96	2	21.5		MAS0705021R5	897.00
800 x 600 x 210	770 x 550	1	510 x 96	2	28		MAS0806021R5	1,041.00
800 x 800 x 210	770 x 750	1	310 x 96	2	35		MAS0808021R5	1,414.00



MAS0303021R5



MAS0504026R5

260mm Deep

H x W x D (mm)	Mounting Plate (mm H x W)	Gland Plate (qty)	Gland Plate Opening (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
500 x 400 x 260	470 x 350	1	310 x 96	1	11.2		MAS0504026R5	563.00
500 x 300 x 260	470 x 250	1	210 x 96	1	9.2		MAS0503026R5	700.00
700 x 500 x 260	670 x 450	1	410 x 96	2	23.2		MAS0705026R5	1,301.00



MAS1006030R5

300mm Deep

H x W x D (mm)	Mounting Plate (mm H x W)	Gland Plate (qty)	Gland Plate Opening (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
500 x 400 x 300	470 x 350	1	310 x 96	1	12.9		MAS0504030R5	668.00
500 x 500 x 300	470 x 450	1	410 x 96	1	15.6		MAS0505030R5	960.00
600 x 500 x 300	570 x 450	1	410 x 96	2	18.4		MAS0605030R5	960.00
600 x 400 x 300	570 x 350	1	310 x 96	2	15.3		MAS0604030R5	1,041.00
600 x 600 x 300	570 x 510	1	510 x 96	2	24.6		MAS0606030R5	1,154.00
800 x 400 x 300	770 x 350	1	310 x 96	2	23		MAS0804030R5	1,187.00
800 x 600 x 300	770 x 550	1	510 x 96	2	31.7		MAS0806030R5	1,251.00
600 x 800 x 300	770 x 750	2	310 x 96	2	31.5		MAS0608030R5	1,558.00
800 x 800 x 300	770 x 750	2	310 x 96	2	39		MAS0808030R5	1,707.00
1000 x 600 x 300	970 x 550	1	510 x 96	1	39		MAS1006030R5	1,754.00
1200 x 600 x 300	1170 x 550	1	510 x 96	1	47		MAS1206030R5	2,076.00
1000 x 800 x 300	970 x 750	2	310 x 96	1	49.2		MAS1008030R5	2,109.00
1200 x 800 x 300	1170 x 750	2	310 x 96	1	60		MAS1208030R5	2,352.00



MAS1008040R5

400mm Deep

H x W x D (mm)	Mounting Plate (mm H x W)	Gland Plate (qty)	Gland Plate Opening (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
600 x 600 x 400	570 x 550	1	510 x 96	2	27		MAS0606040R5	1,558.00
800 x 800 x 400	770 x 750	2	310 x 96	2	43		MAS0808040R5	1,866.00
800 x 600 x 400	770 x 550	1	510 x 96	2	35		MAS0806040R5	2,158.00
1000 x 800 x 400	970 x 750	2	310 x 96	1	54		MAS1008040R5	2,352.00
1200 x 800 x 400	1170 x 750	2	310 x 96	1	66		MAS1208040R5	2,628.00

MAS Single Door Wall Mount Enclosures - X15 Orange (Includes Mounting Plate)



MAS1208030R5X15

H x W x D (mm)	Mounting Plate (mm H x W)	Gland Plate (qty)	Gland Plate Opening (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
400 x 400 x 210	370 x 350	1	310 x 96	1	8.6		MAS0404021R5X15	510.00
600 x 400 x 210	570 x 350	1	310 x 96	1	15.4		MAS0604021R5X15	646.00
600 x 600 x 210	570 x 550	1	510 x 96	1	21		MAS0606021R5X15	869.00
800 x 600 x 210	770 x 550	1	510 x 96	2	28		MAS0806021R5X15	1,050.00
800 x 600 x 300	770 x 550	1	510 x 96	2	31		MAS0806030R5X15	1,239.00
1000 x 600 x 300	970 x 550	1	510 x 96	1	38		MAS1006030R5X15	1,735.00
1000 x 800 x 300	970 x 750	2	310 x 96	1	47		MAS1008030R5X15	2,088.00
1200 x 600 x 300	1170 x 550	1	510 x 96	1	51		MAS1206030R5X15	2,136.00
1200 x 800 x 300	1170 x 750	2	310 x 96	1	60		MAS1208030R5X15	2,329.00

Wall Mount Enclosures - MAD Double Door

MAD Double Door Wall Mount Enclosures (Includes Mounting Plate)

H x W x D (mm)	Mounting Plate (mm H x W)	Gland Plate (qty)	Gland Plate Opening (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
600 x 800 x 300	570 x 750	2	310 x 96	1	31		MAD0608030R5	1,767.00
800 x 1200 x 300	770 x 1150	2	510 x 96	1	60		MAD0801230R5	3,032.00
1000 x 1000 x 300	970 x 950	2	410 x 96	1	63		MAD1001030R5	3,113.00
1200 x 1000 x 300	1170 x 950	2	410 x 96	1	74		MAD1201030R5	3,518.00
800 x 1200 x 400	770 x 1150	2	510 x 96	1	65	I	MAD0801240R5	3,630.00
1200 x 1200 x 300	1170 x 1150	2	510 x 96	1	86		MAD1201230R5	3,824.00
1400 x 1000 x 300	1370 x 950	2	410 x 96	1	84		MAD1401030R5	3,923.00
1200 x 1200 x 400	1170 x 1150	2	510 x 96	1	92		MAD1201240R5	3,988.00



MAD0608030R5

Wall Mount Enclosures - MAP Single Door Horizontal

The MAP is an incredibly versatile enclosure, for use in either stand-alone applications, or in conjunction with MAS/MAD as a cableway.

- Versatile enclosure series for use in either stand-alone applications, or in conjunction with MAS/MAD as a cableway

Complete MAP Enclosures (Gaskets Sold Separately)

H x W x D (mm)	Mounting Plate (mm H x W)	Gland Plate (qty)	Gland Plate Opening (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
300 x 600 x 300	270 x 550	2	96 x 510	1	15		MAP0306030R5	1,423.00
300 x 800 x 300	270 x 750	4	96 x 310	2	18	I	MAP0308030R5	1,557.00



MAP0306030R5

MAS / MAD / MAP / ASR / ADR / SRE Accessories

Inner Doors

Door (mm height)	Door (mm width)	Item Type	Catalogue No.	\$AU
400	300		ADI04030R5	481.00
500	400		ADI05040R5	530.00
400	400		ADI04040R5	556.00
600	400		ADI06040R5	561.00
600	600		ADI06060R5	671.00
700	500		ADI07050R5	737.00
800	600		ADI08060R5	778.00
1000	600		ADI10060R5	968.00
1000	800		ADI10080R5	1,038.00
1200	600		ADI12060R5	1,073.00
1200	800		ADI12080R5	1,187.00



ADI04030R5

Glazed Doors

ADT glazed doors can be fitted to MAS enclosures to allow the internal components to be seen when the door is closed, keeping out unauthorised persons and maintaining the ingress protection. Available in a range of standard sizes, the glazed doors can be easily retrofitted to replace the standard door on the MAS enclosure.

- Finished in RAL 7035 structured powder coat (to match the standard enclosure finish)
- IP55 ingress protection
- IK07 impact protection
- 1.2mm mild steel for enclosures with height or width less than 500mm
- 1.5mm mild steel for enclosures with a height or width of 500mm or greater (but less than 800mm)
- 2mm mild steel for enclosures with a height or width 800mm or greater
- Fitted with 3mm acrylic glass

Door (mm height)	Door (mm width)	Item Type	Catalogue No.	\$AU
300	400		ADT04030R5	233.00
600	500	I	ADT06050R5	420.00
600	600		ADT06060R5	568.00
1200	800	I	ADT12080R5	1,313.00



ADT04030R5

Modular Chassis



AC03025R5

H (mm)	W (mm)	Module Rows (qty)	Modules (qty per row)	Item Type	Catalogue No.	\$AU
300	250	2	8		AC03025R5	248.00
400	300	3	11		AC04030R5	307.00
500	400	3	16		AC05040R5	388.00
600	400	4	16		AC06040R5	481.00
600	600	4	27		AC06060R5	549.00
800	600	6	27		AC08060R5	693.00

Depth Adjustment Kits



AMG 210

Enclosure (mm depth)	Item Type	Catalogue No.	\$AU
210		AMG 210	513.00
300		AMG 300	555.00
400		AMG 400	802.00

Wall Mounting Brackets

Mounting brackets for safe wall fixing. It includes the sealing washers to guarantee the IP rating.

- 3 mm zinc plated steel
- 4 brackets with mounting accessories
- Can be externally mounted in two different positions on wall mounted enclosures
- Wall mounted enclosures can be easily installed in the field without the need for internal access



AW41

Item Description	Item Type	Catalogue No.	\$AU
Wall Mount Brackets Zinc Steel nVent HOFFMAN STB/NLS/MAS (Qty 4)		AW41	48.00

Description	Item Type	Catalogue No.
Wall Mounting Brackets (Pack of 4) Stainless Steel Suits SSTB and ASR/ADR Range		AWS41316

AWS41316_dCHRT_S01

Combination Locks and Handles



ALT561

Item Description	Item Type	Catalogue No.	\$AU
Latch Tongue Required With LMT6 Locks		LTL2	20.00
Lock Plastic Handle Suit nVent HOFFMAN MAS/MAD		ALT560	31.00
Lock Flush CI001 Key		2534	103.00
Lock Flush CI003 Key		2536	103.00
Padlocking Cover 304 Stainless Steel Suit nVent HOFFMAN Standard Lock MAS/MAD		PLC 01	114.00
Lock Wing Handle Padlockable Suit nVent HOFFMAN MAS/MAD		LF 002	121.00
Lock Mini T-Handle 604 Key Suit nVent HOFFMAN MAS		LMT6 604	125.00
Lock Mini T-Handle 92268 Key Suit nVent HOFFMAN MAS		LMT6 92268	125.00
Lock Mini T-Handle CI001 Key Suit nVent HOFFMAN MAS		LMT6 CL001	125.00
Lock Chrome Padlockable Swing Handle Suit nVent HOFFMAN MAS/MAD		SHPAD	186.00
Lock Chrome T-Handle C21323 Key Suit nVent HOFFMAN MAS/MAD		ALT561	230.00
Lock Chrome T-Handle CI001 Key Suit nVent HOFFMAN MAS/MAD		ALT 561 CL001	241.00
Lock Chrome Wing Handle C21323 Suit nVent HOFFMAN MAS/MAD		ALT 562	258.00

Combination Locks and Handles - Inserts to Suit Standard Enclosure Lock



ALI503

Item Description	Item Type	Catalogue No.	\$AU
Insert Zinc Die Cast 3mm DIN		ALI 503	16.00
Insert Zinc Die Cast 5mm DIN		ALI 505	16.00
Insert Triangle Zinc Die Cast 8mm	I	ALI 524	16.00
Insert Square Zinc Die Cast 8mm		ALI 525	16.00

Combination Locks and Handles - Keys to Suit

Item Description	Item Type	Catalogue No.	\$AU
Key DIN 3mm		LSK503	26.00
Key DIN 5mm		LSK505	26.00
Key Square 7mm		LSK523	26.00
Key Square 8mm		LSK524	26.00
Key Triangular 8mm		LSK527	26.00
Multi Key DIN 3/5mm Square 8mm Triangle 8mm		LSMK01	50.00



LSMK01

Locks and Locking Handles - nVent Branded

Item Description	Item Type	Catalogue No.	\$AU
Lock Standard nVent HOFFMAN ASR Chrome Plate DIN 3mm Double Bit		ALL503N	56.00
Lock Standard nVent HOFFMAN MAS Plastic DIN 3mm Double Bit		ALL503N	69.00

Rain Hoods

Enclosure (mm width)	Enclosure (mm depth)	Item Type	Catalogue No.	\$AU
300	210		ARF 03021R5	325.00
400	210		ARF 04021R5	354.00
400	300	I	ARF 04030R5	402.00
600	210		ARF 06021R5	410.00
600	300		ARF 06030R5	470.00
800	300	I	ARF 08030R5	564.00
800	400		ARF 08040R5	680.00



ARF 03021R5

Ventilation Louvres

RAL 7035 Light Grey

H (mm)	W (mm)	Item Type	Catalogue No.	\$AU
120	120		E21407R5	32.00
160	160		E21410R5	35.00
220	220		E21418R5	60.00



E21407R5

Door Stops

Item Description	Item Type	Catalogue No.	\$AU
Door Stop Zinc Plated Steel Suit nVent HOFFMAN MAS/MAD Wall Mount Enclosures		ADO202	257.00



ADO202

Hinges

Item Description	Item Type	Catalogue No.	\$AU
Hinge Kit 130 Degrees To Suit nVent HOFFMAN MAS/MAD (Qty 6)		MMSH06	70.00
Hinge Kit 180 Degrees Suit nVent HOFFMAN MAS/MAD Up To H800mm (Qty 2)	I	MMH02	148.00



MMH02

Plinths - Side Panels

Enclosure (mm height)	Enclosure (mm depth)	Item Type	Catalogue No.	\$AU
100	300		PA 1030	173.00
100	400		PA 1040	186.00



PA 1030



P 1060

Plinths - Front and Back Panels

Enclosure (mm height)	Enclosure (mm width)	Item Type	Catalogue No.	\$AU
100	600		P 1060	445.00
100	800		P 1080	497.00

Miscellaneous Accessories

Door Switch



ADSW01

Item Description	Item Type	Catalogue No.	\$AU
Door Switch Suit nVent HOFFMAN MAS/MAD/ASR/ADR/SRE Enclosures	I	ADSW01	350.00

Pricing in this document is invalid – for pricing and availability please access the NHP custom portal under 'Wall Mount'

Wall Mount Enclosures

Wall Mount Enclosures - Stainless Steel

Wall Mount Enclosures – Stainless Steel

Page 895

Stainless Steel Accessories (see also Mild Steel Wall Mount Accessories)

Page 896

- AISI 316L (ASR/ADR/SRE) & 304 (HDW) pre-grained stainless steel body and door with 400 finish
- Corner formed enclosure door
- High cleanliness design means dirt, debris and bacteria cannot accumulate
- Compatible with MAS/MAD range of accessories
- Mounting plate marked at 10mm intervals for easy equipment positioning

For aggressive environments where sea-air or corrosive elements are present, the nVent HOFFMAN (previously ELDON) 316L marine grade stainless steel ASR/ADR range is the solution. The design is characterized by a sturdy cradiform body, folded from a cold pressed sheet steel plate. The enclosure's edge is folded in the shape of a channel to avoid water stagnating on the seal. Maximum protection for the user and the equipment is achieved thanks to the high protection degrees IP66 (single door), IP55 (double door). The ASR/ADR range feature a high cleanliness design that eliminates places where dirt and bacteria can accumulate. The special white silicone gasket features higher UV and chemical resistance than traditional polyurethane (PUR) gaskets with almost zero water absorbption for a longer life expectancy. Stainless Steel wall mount enclosures are often used in environments such as food processing, breweries, marine applications, and any area exposed to corrosive chemicals. The enclosures can be secured to the wall using bolts, which are fixed directly through the rear wall of the enclosure, the bolts are protected inside with plastic washers, or wall mounting brackets, which are screwed at the rear of the enclosure.

A range of accessories such as depth adjustment kits, inner doors, rain hoods (ASR/ADR) and various locking options complement the range and provide a comprehensive enclosure solution for all arduous locations.



Wall Mount Enclosures – Stainless Steel

The nVent HOFFMAN ASR/ADR range, designed with cleanliness and ingress protection in mind, provides high resistance to corrosion and ensures performance of equipment. Intended for harsh environments, the ASR/ADR range is the ideal solution for food and chemical industries, pharmaceutical plants, outdoor applications, marine environments and other arduous locations where corrosion and vandalism are likely to occur.

- AISI 316L pre-grained stainless steel. Body: 1.2mm to 1.5mm, Door: 1.5mm to 2mm, Mounting Plate: 2mm galvanised steel
- Corner formed enclosure door with 130° opening. Can be mounted for both left or right opening
- Customised double-bit 3mm lock with anti-vibration mechanism (1000mm high and above have three point locking)
- Mounting Plate marked at 10mm intervals for easy horizontal positioning (Use AMG accessory to adjust depth)

ASR Single Door Enclosures

H x W x D (mm)	Mounting Plate (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
300 x 200 x 150	270 x 150	1	3.6		ASR0302015-316	1,356.00
360 x 240 x 150	330 x 190	1	4.8		ASR0362415-316	1,405.00
400 x 300 x 150	370 x 250	1	6		ASR0403015-316	1,766.00
400 x 300 x 210	370 x 250	1	6.4		ASR0403021-316	1,798.00
400 x 400 x 210	370 x 350	1	10		ASR0404021-316	2,119.00
400 x 600 x 210	370 x 550	1	14.9		ASR0406021-316	2,367.00
500 x 400 x 210	470 x 350	1	12.8		ASR0504021-316	2,157.00
600 x 400 x 210	570 x 350	2	15.4		ASR0604021-316	2,416.00
600 x 600 x 210	570 x 550	2	21.4		ASR0606021-316	2,922.00
600 x 600 x 300	570 x 550	2	23.7		ASR0606030-316	3,541.00
800 x 600 x 210	770 x 550	2	27.1		ASR0806021-316	3,836.00
800 x 600 x 300	770 x 550	2	29.2		ASR0806030-316	4,235.00
800 x 800 x 300	770 x 750	2	37.5		ASR0808030-316	4,748.00
1000 x 800 x 300	970 x 750	1	49		ASR1008030-316	5,139.00
1200 x 800 x 300	1170 x 750	1	57.5		ASR1208030-316	6,142.00
1200 x 800 x 400	1170 x 750	1	61		ASR1208040-316	7,262.00
1400 x 800 x 400	1370 x 750	1	73		ASR1408040-316	8,628.00



ASR0302015-316

ADR Double Door Enclosures

H x W x D (mm)	Mounting Plate (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
1200 x 1200 x 400	1170 x 1150	1	89.7		ADR1201240-316	9,005.00



ADR1201240-316

Stainless Steel Accessories (see also Mild Steel Wall Mount Accessories)

The ASR series is built on the same platform as the MAS Wall Mount range. For a full range of accessories including inner doors, wall mounting brackets, depth adjustment kits and more, please refer to the Mild Steel wall mount accessories section.

Glazed Doors

ADCS glazed doors can be fitted to ASR and SRE enclosures to allow the internal components to be seen when the door is closed, keeping out unauthorised persons and maintaining the ingress protection. Available in a range of standard sizes, the glazed doors can be easily retrofitted to replace the standard door on the ASR and SRE enclosure.

- 400 pre-grained 316L stainless steel (to match the standard enclosure finish)
- IP55 ingress protection
- IK07 impact protection
- 1.5mm mild steel for enclosures with height or width less than 600mm
- 2mm mild steel for enclosures with a height or width 600mm or greater
- Fitted with 4mm acrylic glass



ADCS04030-316

Door (mm height)	Door (mm width)	Item Type	Catalogue No.	\$AU
400	300		ADCS04030-316	671.00
500	400	I	ADCS05040-316	945.00
300	600	I	ADCS04060-316	1,097.00
600	400		ADCS06040-316	1,134.00
600	600		ADCS06060-316	1,495.00
1000	800	I	ADCS10080-316	2,835.00

Ventilation Louvres

Ventilation Louvres allow air to circulate inside the enclosure and thus reduce the risk of moisture damage in indoor applications. Typically used in pairs, it is recommended to place one louvre low near the bottom of the enclosure, with the second louvre placed close to the enclosure roof on the opposite side. Where a higher ingress protection rating is required, it is recommended to use a pressure compensation device. A filter fan is recommended if additional ventilation/airflow is required. In all cases it is recommended to fit a drainage device to the bottom of the enclosure. Please refer to the Climate Control section for available options.



E21407SS

Item Description	Item Type	Catalogue No.	\$AU
Ventilation Louvre 316 Stainless Steel 120x120mm		E21407SS	72.00
Ventilation Louvre 316 Stainless Steel 160x160mm		E21410SS	86.00
Ventilation Louvre 316 Stainless Steel 220x220mm		E21418SS	148.00

Rain Hoods - 316 Stainless Steel

ASST031-316

Enclosure	Item Type	Catalogue No.	\$AU
Suits Width 300mm Depth 150mm		ASST031-316	585.00
Suits Width 300mm Depth 210mm		ASST032-316	642.00
Suits Width 400mm Depth 210mm		ASST042-316	723.00
Suits Width 600mm Depth 210mm		ASST062-316	1,063.00
Suits Width 600mm Depth 300mm		ASST063-316	1,295.00
Suits Width 800mm Depth 300mm		ASST083-316	1,584.00
Suits Width 800mm Depth 400mm		ASST084-316	1,779.00

Hinge Kits

MMHS02

Item Description	Item Type	Catalogue No.	\$AU
Hinge Kit 180 Degrees 316 Stainless Steel Suit nVent HOFFMAN ASR/ADR/SRE (Qty 2)	I	MMHS02	301.00

Locks

SHPAD316A

Item Description	Item Type	Catalogue No.	\$AU
Lock Flush 1333 Key		8004A	110.00
Lock Wing Knob 1333 Key		8006A	110.00
Lock Double Bit DIN 3mm 316 Stainless Steel		ALLS 316	309.00
Lock 316 Stainless Steel Padlockable Swing Handle For nVent HOFFMAN ASR/SRE		SHPAD316A	713.00

Wall Mount Enclosures

Sloped Roof Wall Mount Enclosures Stainless Steel

- Ideal for heavy industry and mining applications
- AISI 316L pre-grained stainless steel body and door with 400 finish for maximum corrosion resistance
- IP66 ingress protection
- IK10 impact resistance guarantees toughness and high resistance to vandalism
- Compatible with MAS range of accessories
- 38 degree sloped roof prevents accumulation of liquids, dusts or other debris

The new generation of slope roof wall mount enclosures features a 38 degree sloped roof (the angle of repose of coal) and uses marine grade 316 stainless steel. With wall mounting flanges top and bottom for easy mounting, no extra holes have to be drilled into the enclosure thus preserving the IP66 integrity. The special white silicone gasket features higher UV and chemical resistance than traditional polyurethane (PUR) gaskets with almost zero water absorption for a longer life expectancy.

Sloped Roof Enclosures (SRE)

- Four standard sizes accommodating most common applications
- Fully welded construction
- Flanges top and bottom for mounting
- Corner formed enclosure door with 130 opening and concealed hinges
- Multiple earthing studs to simplify wiring and save time
- A large range of custom locking options available to replace the standard 3mm double-bit lock
- Mounting plate marked at 10mm intervals for easy horizontal positioning (use AMG accessory to adjust depth)
- Available in natural (-316) or X15 orange (X15) powder coat finish

H x W x D (mm)	Mounting Plate (mm H x W)	Locks (qty)	Weight (kg)	Item Type	Catalogue No.	\$AU
300 x 200 x 150	270 x 150	1	5	I	SRE0302015-316	2,651.00
400 x 300 x 210	370 x 250	1	8		SRE0403021-316	2,966.00
600 x 400 x 260	350 x 570	2	16		SRE0604026-316	4,156.00
800 x 600 x 300	770 x 550	2	31		SRE0806030-316	5,916.00
300 x 200 x 150	150 x 270	1	5	I	SRE0302015316X15	2,879.00
400 x 300 x 210	250 x 370	1	8		SRE0403021316X15	3,236.00
600 x 400 x 260	350 x 570	2	16	I	SRE0604026316X15	4,584.00
800 x 600 x 300	770 x 550	2	31	I	SRE0806030316X15	6,400.00



SRE0302015-316

Wall Mount Enclosures

nVENT HOFFMAN Stainless Steel Wall Mount Hygienic Design Enclosures



The nVent HOFFMAN (previously Eldon) Hygienic Design HDW range is designed and constructed with special materials for high sanitary operations and ease of thorough cleaning. The gapless design, the self-drainable high-polished surfaces, together with a high protection degree help reduce non operative hours, such as cleaning and maintenance, which leads to increased productivity.

Wall Mount Enclosures – Hygienic Design Range – Stainless Steel

The wall mounted Hygienic Design HDW range is optimized for protection of electrical and electronic equipment in food processing and pharmaceutical applications. Manufactured in high quality AISI 304 grade stainless steel, with a maximum protection degree of IP66 and IP69K to ensure your assets are protected in hot, high pressure wash-down environments.

The enclosures have a self-draining design with 30° sloping roof to prevent tools or other objects from being left or placed on it, and for fluids to drain off rapidly. The seal integrity is achieved via a removable one piece silicone gasket that is easy to clean and is replace. The hinges are inside the sealing zone to create an exceptionally easy-to-clean design on the outside and eliminate any external cavity between the enclosure and its door. The HDW range is especially suitable for applications in the food, beverage and pharmaceutical industries where the enclosures are cleaned at high temperatures with chemical agents.

A range of dedicated hygienic design accessories is also available, enabling customers to tailor the enclosure to their specific needs. The enclosure design follows the principles stated in EC Directive 2006/42/EC, EN 1672-2, EN ISO 14159 and is also EHEDG certified according to the Hygienic Design guidelines 8 and 13.

- 30° sloping roof: The enclosure is designed with a 30° sloping roof that allows liquids to easily drain. In addition all enclosure surfaces are self-draining incorporating an angle that prevent liquid stagnation
- Smart hinges, and hygiene-compliant lock inserts: The HDW enclosure hinges are externally mounted maximizing the internal space for components in the enclosure. Covered by an all-round seal that fulfils HD principles
- All-round removable gap-free blue silicone seal: The enclosure incorporates a one piece silicone gasket that creates a continuous surface between the enclosure body and door avoiding gaps and dead ends where bacteria could grow. The gasket can be removed for periodical maintenance and is easily exchangeable in case of being damaged



HDW0442215

H x W x D (mm)	Mounting Plate (mm H x W)	Locks (qty)	Item Type	Catalogue No.	\$AU
442 x 220 x 155	350 x 138	2		HDW0442215	1,620.00
552 x 390 x 210	430 x 308	2		HDW0553921	2,236.00
605 x 610 x 300	430 x 528	2		HDW0606130	3,170.00
672 x 510 x 210	550 x 428	2	I	HDW0675121	3,236.00
552 x 810 x 210	430 x 750	3	I	HDW0558121	3,384.00
772 x 390 x 210	650 x 308	2	I	HDW0773921	3,658.00
772 x 610 x 210	650 x 528	2		HDW0776121	3,910.00
825 x 810 x 300	650 x 750	3	I	HDW0828130	4,264.00
1225 x 810 x 300	1050 x 728	3		HDW1228130	4,936.00
1425 x 810 x 300	1250 x 728	3		HDW1428130	5,408.00

Hygienic Design Accessories (see also Mild Steel Wall Mount Accessories)

Wall Mounting Brackets

Item Description	Item Type	Catalogue No.	\$AU
Wall Mounting Bracket (Sold Individually) 304 S/Steel nVent HOFFMAN Hygienic 50mm Gap	I	AWHD050	359.00
Wall Mounting Bracket (Sold Individually) 304 S/Steel nVent HOFFMAN Hygienic 300mm Gap	I	AWHD300	484.00

Cable Glands

Item Description	Item Type	Catalogue No.	\$AU
Cable Glands nVent HOFFMAN Hygienic Design M12 (Qty 5)	I	CGHD12	542.00
Cable Glands nVent HOFFMAN Hygienic Design M16 (Qty 5)	I	CGHD16	546.00
Cable Glands nVent HOFFMAN Hygienic Design M20 (Qty 5)	I	CGHD20	596.00
Cable Glands nVent HOFFMAN Hygienic Design M25 (Qty 5)	I	CGHD25	726.00

Levelling Feet

Item Description	Item Type	Catalogue No.	\$AU
Levelling Feet nVent HOFFMAN Hygienic Design (Qty 4)	I	LFHD04	999.00

Floor Standing Enclosures

Floor Standing Enclosures - Mild Steel

Mild Steel - MKS (Single Door Fully Welded)	Page 899
Mild Steel - MKD (Double Door Compact)	Page 900
Mild Steel - MCS (Single Door Bayable)	Page 900
Mild Steel - MCD (Double Door Bayable)	Page 900
Side Panels to Suit MCS/MCD Enclosures	Page 901
Mild Steel - MPG Console	Page 901
Floor Standing Enclosure Accessories - Suitable for Mild Steel and Stainless Steel	Page 901



Mild Steel - MKS (Single Door Fully Welded)

With a removable rear and roof panel to allow easy hole punching and hinges for left or right hand opening, MKS satisfies the toughest of demands. With an IP55 protection rating as standard, the MKS range can achieve IP66 with the BG01 gasket kit.

- Powder coated mild steel RAL 7035 provides a good level of corrosion resistance in indoor applications
- Fully welded IP55 (IP66 with gasket kit) and IK10 resulting in exceptional strength and rigidity
- Large range of accessories including plinths, baying kits, fan covers, rain hoods, lifting devices and locks
- Comprehensive standards and approvals including CE, CSA, GL, KEMA, UL and Lloyd's Register

1600mm High

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1600 x 600 x 400	92		MKS16064R5	4,895.00
1600 x 800 x 400	113		MKS16084R5	5,297.00
1600 x 1000 x 400	131		MKS16104R5	5,698.00



MKS16064R5

1800mm High

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1800 x 600 x 400	100		MKS18064R5	4,366.00
1800 x 800 x 400	123		MKS18084R5	4,831.00
1800 x 1000 x 400	142		MKS18104R5	5,762.00



MKS18064R5

2000mm High

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
2000 x 600 x 400	111		MKS20064R5	5,377.00
2000 x 800 x 400	133		MKS20084R5	5,713.00
2000 x 1000 x 400	158		MKS20104R5	6,402.00



MKS20064R5

Mild Steel - MKD (Double Door Compact)

With a removable rear and roof panel to allow easy hole punching and hinges for left or right hand opening, MKD satisfies the toughest of demands.

- Powder coated mild steel RAL 7035 provides a good level of corrosion resistance in indoor applications
- Fully welded (IP55 and IK10) resulting in exceptional strength and rigidity
- Large range of accessories including plinths, baying kits, fan covers, rain hoods, lifting devices and locks ensuring suitable for a wide range of industry segments and application
- Meets standards and approvals including CE, CSA, GL, KEMA, UL and Lloyd's Register



MKD16124R5

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1600 x 1200 x 400	163		MKD16124R5	6,389.00
1800 x 1200 x 400	175		MKD18124R5	6,676.00
2000 x 1200 x 400	195		MKD20124R5	8,166.00
1800 x 1600 x 400	222		MKD18164R5	8,875.00
2000 x 1600 x 400	242		MKD20164R5	9,532.00

Mild Steel - MCS (Single Door Bayable)

With a removable back panel and separately ordered side panels the MCS bayable range is the ultimate solution when large enclosures need to be configured.

- Powder coated mild steel RAL 7035 provides a good level of corrosion resistance in indoor applications
- Conforms to IP55 and IK10 resulting in excellent strength and rigidity
- Bayable construction allows endless opportunities to house large equipment and provide future expandability
- Large range of accessories including plinths, baying kits, fan covers, rain hoods, lifting devices and locks
- Meets standards and approvals including CE, CSA, GL, KEMA, UL and Lloyd's Register

Side panels must be ordered separately and are supplied as a pack of two.



MCS18064R5

1800mm High

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1800 x 600 x 400	91		MCS18064R5	4,127.00
1800 x 600 x 500	95		MCS18065R5	4,430.00
1800 x 800 x 400	113		MCS18084R5	4,655.00
1800 x 800 x 500	117		MCS18085R5	4,895.00
1800 x 1000 x 400	135		MCS18104R5	5,456.00
1800 x 1000 x 500	139		MCS18105R5	5,554.00

2000mm High

MCS20064R5

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
2000 x 600 x 400	100		MCS20064R5	4,516.00
2000 x 600 x 500	119		MCS20065R5	4,891.00
2000 x 800 x 400	123		MCS20084R5	4,895.00
2000 x 800 x 500	127		MCS20085R5	5,135.00
2000 x 600 x 600	124	I	MCS20066R5	5,297.00
2000 x 800 x 600	132		MCS20086R5	5,392.00
2000 x 1000 x 500	150	I	MCS20105R5	5,970.00
2000 x 1000 x 400	146		MCS20104R5	6,066.00
2000 x 1000 x 600	155	I	MCS20106R5	6,419.00
2000 x 1000 x 800	175	I	MCS20108R5	6,725.00

Mild Steel - MCD (Double Door Bayable)

With a removable back panel and separately ordered side panels the MCD bayable range is the ultimate solution when large enclosures need to be configured.

- Powder coated mild steel RAL 7035 provides a good level of corrosion resistance in indoor applications
- Conforms to IP55 and IK10 resulting in excellent strength and rigidity
- Bayable construction allows endless opportunities to house large equipment and provide future expandability
- Large range of accessories including plinths, baying kits, fan covers, rain hoods, lifting devices and locks
- Meets standards and approvals including CE, CSA, GL, KEMA, UL and Lloyd's Register

Side panels must be ordered separately and are supplied as a pack of two.



MCD18164R5

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1800 x 1600 x 400	196	I	MCD18164R5	6,371.00
1800 x 1200 x 500	178		MCD18125R5	6,402.00
1800 x 1200 x 400	173		MCD18124R5	6,419.00
2000 x 1200 x 400	185		MCD20124R5	7,078.00
2000 x 1200 x 500	190		MCD20125R5	7,190.00
2000 x 1200 x 800	205	I	MCD20128R5	7,270.00
2000 x 1200 x 600	195		MCD20126R5	7,493.00
2000 x 1600 x 400	226	I	MCD20164R5	9,757.00

Side Panels to Suit MCS/MCD Enclosures

Supplied as a pack of two.

H (mm)	D (mm)	Item Type	Catalogue No.	\$AU
1800	400		SPM1804R5	787.00
1800	500		SPM1805R5	869.00
2000	400		SPM 2004R5	812.00
2000	500		SPM 2005R5	904.00
2000	600		SPM 2006R5	1,038.00
2000	800	I	SPM 2008R5	1,237.00

SPM1804R5

Mild Steel - MPG Console

The MPG is a simple but effective one-piece console and is available in four sizes. The top desk panel is held open by a self-engage / self-release mechanical panel stay and combines with the removable rear panel and front door, to ensure convenient access. A range of 19" accessories adds further versatility.

- Mounting plate: Standard mounting plate in base unit
- Cable inlet: Bottom opening for cable access. Bottom plate for cable glanding supplied as standard
- Lock: Double-bit 3mm locks for top panel. For base, two double-bit 3mm locks. Other options available. See wall mounting section
- Protection: Single door: IP66/NEMA 4, 12 13 Double doors: IP55/NEMA 12 and 13
- Delivery: Mounting plate and suitable nuts and washers for earthing. The console is delivered on a wooden pallet

H x W x D (mm)	Usable Depth (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
985 x 600 x 400	333	54		MPG 06R5	3,709.00
985 x 800 x 400	333	65		MPG 08R5	4,110.00
985 x 1000 x 400	333	78	I	MPG 10R5	4,559.00
985 x 1200 x 400	333	89		MPG 12R5	4,975.00



MPG 06R5

Floor Standing Enclosure Accessories - Suitable for Mild Steel and Stainless Steel

Plinth - Front/rear Pieces, Mild Steel

Plinth (mm height)	Enclosure (mm width)	Item Type	Catalogue No.	\$AU
100	400		PF 1040	413.00
100	600		PF 1060	481.00
100	800		PF 1080	554.00
100	1000		PF 1100	678.00
100	1200		PF 1120	812.00
200	600	I	PF 2060	751.00
200	800	I	PF 2080	823.00



PF 1040

Plinth - Side Pieces, Mild Steel

Plinth (mm height)	Enclosure (mm depth)	Item Type	Catalogue No.	\$AU
100	400		PS 1040	175.00
100	500		PS 1050	175.00
100	600		PS 1060	209.00
100	800	I	PS 1080	275.00
200	400	I	PS 2040	244.00



PS 1040

Plinth Combining Profiles / Cable Bars

PCP Plinth combining profiles connect between the plinth's front and rear corner pieces and act as a stabiliser and allow cables to be routed between bayed enclosures under the enclosure floor. it includes a 25mm hole pattern. When used with 200mm high plinths, the PCP may be mounted at three different heights - top, middle or bottom.

Suits Enclosure (mm depth)	Item Type	Catalogue No.	\$AU
400		PCP 04	251.00
500	I	PCP 05	251.00
600	I	PCP 06	270.00



PCP 04

Plinth - Side Pieces to Suit MPG



PST 1040

Plinth (mm height)	Suits Enclosure (mm depth)	Item Type	Catalogue No.	\$AU
100	400		PST 1040	158.00

Mounting Plate Brackets



MPD02

Item Description	Item Type	Catalogue No.	\$AU
Depth Adjustment Kit Mounting Plate nVent HOFFMAN Floor Standing Enclosures (Qty 2)		MPD02	55.00
Bracket Mounting Plate nVent HOFFMAN Floor Standing Enclosures (Qty 6)	I	MPA 06	233.00

Inner Doors (Single Door Series Only)



DI1806R5

Suits Enclosure (mm height)	Suits Enclosure (mm width)	Item Type	Catalogue No.	\$AU
1800	600	I	DI1806R5	2,329.00
2000	600	I	DI2006R5	2,415.00
1800	800		DI1808R5	2,433.00
2000	800		DI2008R5	2,584.00
1800	1000	I	DI1810R5	4,266.00

Door Mounting Kits



DNMK01

Item Description	Item Type	Catalogue No.	\$AU
Door Mounting Kit Suit nVent HOFFMAN Floor Standing Mild Steel Single Door Enclosures MKS/MCS	I	DNMK01	161.00
Door Mounting Kit Suit nVent HOFFMAN Floor Standing Mild Steel Double Door Enclosures MKD/MCD	I	DNMK02	341.00

Baying Brackets - Internal



CCI6

Item Description	Item Type	Catalogue No.	\$AU
Baying Kit Internal Suit nVent HOFFMAN Floor Standing MCS/MCSS/MCD/MCDS (Qty 6)		CCI6	204.00

Baying Brackets - Internal Corner for Extra Re-enforcement



CCM04

Item Description	Item Type	Catalogue No.	\$AU
Baying Kit Internal Corner Suit nVent HOFFMAN Floor Standing MCS/MCSS/MCD/MCDS (Qty 4)		CCM04	497.00

Baying Brackets - External (For Use When Separation Plates are Present)



CCE06

Item Description	Item Type	Catalogue No.	\$AU
Baying Kit External Suit nVent HOFFMAN Floor Standing MCS/MCD (Qty 2)		CCE06	123.00

Baying Brackets - Suit Separation Plate

Item Description	Item Type	Catalogue No.	\$AU
Internal Baying Kit Separation Plate nVent HOFFMAN Floor Standing Enclosures (Qty 6)		CCJ06	227.00



CCJ06

Lifting Devices for Bayed Cabinets

Item Description	Item Type	Catalogue No.	\$AU
Lifting Device Zinc Plated Steel nVent HOFFMAN Floor Standing Enclosures (Qty 2)		LC02	136.00



LC02

Lifting Eye Bolts

Item Description	Item Type	Catalogue No.	\$AU
Lifting Eye Bolt Zinc Plated Steel M12 nVent HOFFMAN Floor Standing Enclosures (Qty 4)		LE 9304	119.00



LE 9304

Filler Plates

Suits Enclosure (mm height)	Item Description	Item Type	Catalogue No.	\$AU
1800	Filler Plate Zinc Plated Steel nVent HOFFMAN Floor Standing Enclosures H1800mm		MPF1800	428.00
2000	Filler Plate Zinc Plated Steel nVent HOFFMAN Floor Standing Enclosures H2000mm		MPF2000	453.00



MPF1800

Separation Plates

Suits Enclosure (mm height)	Suits Enclosure (mm depth)	Item Type	Catalogue No.	\$AU
1800	400		SPD1804	633.00
2000	400		SPD2004	737.00
1800	500	I	SPD1805	740.00



SPD1804

Locking Devices

Inserts for Swing Handles

Item Description	Item Type	Catalogue No.	\$AU
Lock Insert DIN 3mm		LI503	23.00
Adapter Half Profile Cylinder Custom Barrel DIN18252		LHC534	28.00
Lock Insert DIN 3mm		LHC528	79.00
Lock Insert Pushbutton		LHC536	79.00

Locking Handles - nVent HOFFMAN Branded

Item Description	Item Type	Catalogue No.	\$AU
Lock Cover Standard No Insert	I	LLH500N	79.00
Lock Cover Swing Handle No Insert	I	LLH501N	349.00
Lock Cover Swing Handle Mild Steel No Insert Suits Half Cylinders	I	LLH502N	456.00
Lock Cover Swing Handle Padlockable No Insert	I	LLH503N	456.00



LLH500N

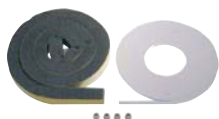
Hinges - 180 Degree Opening



DHN 180

Item Description	Item Type	Catalogue No.	\$AU
Hinge Kit 180 Degrees Suit nVent HOFFMAN Floor Standing Enclosures (Qty 4)	I	DHN 180	354.00

Bottom Plate Gaskets



BG01

Item Description	Item Type	Catalogue No.	\$AU
Gasket Kit Bottom Plate IP66 Suit nVent HOFFMAN Floor Standing MKS/MKD Enclosures		BG01	110.00

Ventilated Shelves



SHC0806

Suits Enclosure (mm height)	Suits Enclosure (mm width)	Shelf (mm height)	Shelf (mm width)	Item Type	Catalogue No.	\$AU
600	800	600	800	I	SHC0806	932.00

Enclosure Lights

LED 025



02540.0-01

Item Description	Item Type	Catalogue No.	\$AU
AC Input Connector For LED 025 Lamp		264-057	26.00
Cc Input Connector For LED 025 Lamp		264-059	36.00
Lamp 100-240V AC 5W LED 025 On/Off Screw W/Connector	K	LED-0254.0-001	340.00
Lamp 100-240V AC 5W LED 025 On/Off Switch Screw		02540.0-01	396.00
Lamp 24-48V DC 5W LED 025 On/Off Screw W/Connector	K	LED-0254.0-101	506.00

TLCL



TLCL 8703524

Lamp (type)	Ue (V AC)	Ue (V DC)	Lamp (W)	Item Type	Catalogue No.	\$AU
LED	240		7.9		TLCL 87035	1,158.00
LED		24	7.9		TLCL 8703524	1,158.00

Door Switches



TLCS 01

Item Description	Item Type	Catalogue No.	\$AU
Door Switch For TLCL Lights 25W 1.5M Cable nVent HOFFMAN Floor Standing Enclosures		TLCS 01	245.00
Door Switch 3A 230V Fits On Hole Pattern nVent HOFFMAN Floor Standing Enclosures		DSW01	344.00

Connection Cables for TLC Light



TLCS 600

Item Description	Cable (m)	Item Type	Catalogue No.	\$AU
Cable For Door Switch For TLC87035 Lights nVent HOFFMAN Floor Standing Enclosures	1.5		TLCS 600	139.00

Document Pockets

Usable Depth (mm)	Material	Colour	Item Type	Catalogue No.	\$AU
30	TP (Thermoplastic)	Light Grey (RAL 7035)		DRA4	36.00
68	1.35mm Powder Coated Mild Steel	Light Grey (RAL 7035)		DRB0303R5	314.00



DRB0303R5

Door Stops

Item Description	Item Type	Catalogue No.	\$AU
Door Stop Zinc Plated Steel nVent HOFFMAN Floor Standing Enclosures		DSTP 02	161.00



DSTP 02

Touch-up Paint

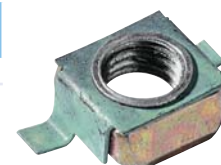
Colour	Volume (mL)	Item Type	Catalogue No.	\$AU
Light Grey	12		BFT7035	76.00



BFT7035

Cage Nuts

Thread (size)	Package (qty)	Item Type	Catalogue No.	\$AU
M6 x 1	50		CNM 615	128.00



CNM 615

Carrier Bars

Suits Enclosure (mm depth)	Load/Pair (kg max)	Item Type	Catalogue No.	\$AU
600	140	I	CB600	411.00



CB600

Click-in Profiles (Supplied as Set of 4)

Profile Length (mm)	Suits Enclosure (mm depth)	Suits Enclosure (mm width)	Item Type	Catalogue No.	\$AU
435	500	500	I	CLPK 500	489.00
535	600	600	I	CLPK 600	515.00
335	400	400		CLPK 400	542.00



CLPK 500

Drawing Desks

Suits Enclosure (mm width)	Item Type	Catalogue No.	\$AU
600		DDK 600R5	622.00
800	I	DDK 800R5	649.00



DDK 600R5

Floor Standing Enclosures

Floor Standing Enclosures - Stainless Steel

Stainless Steel - EKSS (Single Door Fully Welded)	Page 906
Stainless Steel - EKDS (Double Door Fully Welded)	Page 906
Stainless Steel - MCSS (Single Door Bayable)	Page 907
Stainless Steel - MCDS (Double Door Bayable)	Page 907
Stainless Steel Accessories	Page 908



- AISI 316L marine grade stainless steel provides high level corrosion protection in harsh environments
- High ingress protection rating insures component protection
- Available in standard sizes accommodating a number of applications

The nVent HOFFMAN (previously ELDON) stainless steel range of floor standing enclosures have been designed to protect components in the harshest of environments, making them ideal for use in industries such as food and beverage, pharmaceutical, mining, marine and others. Available in fully welded and bayable solutions in different sizes, it incorporates special features such as corner formed doors and panels, polished flush weldings and stainless steel locking systems making the enclosures easy to clean in washdown scenarios. This is fully supported by a range of accessories in both stainless and mild steel options.

Stainless Steel - EKSS (Single Door Fully Welded)

The EKSS stainless steel range has an innovative and improved design which includes a 400 finish facilitating high cleanliness and corrosion resistance. Along with a sturdy construction, which includes a 25 mm hole pattern, this range provides an ideal solution for food and chemical industries, outdoor applications and marine environments.

- Fully welded with IP66 and IK10 protection resulting in exceptional strength and rigidity
- Large range of stainless steel accessories including plinths, baying kits, fan covers, rain hoods, lifting devices and locks to fully support and configure the enclosure
- Removable rear panel gives easy access to the enclosure
- Comprehensive standards and approvals including CE, GL, KEMA, UL and Lloyd's Register

1800mm High

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1800 x 600 x 400	90		EKSS 18064-316	12,791.00
1800 x 800 x 400	109		EKSS 18084-316	13,513.00
1800 x 1000 x 400	128.3		EKSS 18104-316	14,815.00



EKSS 18064-316

2000mm High

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
2000 x 800 x 400	119.3		EKSS 20084-316	15,096.00
2000 x 1000 x 400	135	I	EKSS 20104-316	15,938.00



EKSS 20084-316

Stainless Steel - EKDS (Double Door Fully Welded)

The EKDS range of stainless steel double door enclosures employ the same innovative and improved design features of the EKSS series. They are ideal for use in confined spaces as with single door enclosures, when opened, take too much space in front of the enclosure. Ideal for applications in harsh environments due to their sturdy built and high ingress protection.

- Fully welded with IK10 impact protection and either IP55 or IP66 ingress protection (model dependent) resulting in exceptional strength and rigidity
- Large range of stainless steel accessories including plinths, baying kits, fan covers, rain hoods, lifting devices and locks to fully support and configure the enclosure
- Due to its increased loading capacity, heavier loads can be supported
- Comprehensive standards and approvals including CE, GL, KEMA, UL and Lloyd's Register

IP66 1800mm High (With Centre Mullion)

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1800 x 1200 x 400	151.9		EKDS 181244X-316	20,268.00
1800 x 1600 x 400	198	I	EKDS 181644X-316	27,498.00



EKDS 181244X-316

IP66 2000 mm High (With Centre Mullion)

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
2000 x 1200 x 400	166.8		EKDS 201244X-316	22,345.00
2000 x 1600 x 400	216.4		EKDS 201644X-316	24,141.00



EKDS 201244X-316

Stainless Steel - MCSS (Single Door Bayable)

The MCSS range of stainless steel single door floor standing enclosures sets new standards when it comes to strength and ease of use. The sturdy construction of the nVent HOFFMAN MCSS range, with its 1.5mm thick stainless steel profile frame and 25mm hole pattern in all directions, make it ideal for use in applications in harsh environments. These can be configured as a stand-alone system or bayed together by the use of external or internal brackets as required for larger installations.

- Bayable, allowing endless opportunities to house large equipment and provide future expandability
- Conforms to IP55 and IK10 rating, which provides component protection with excellent strength and rigidity
- Large range of stainless steel accessories including plinths, baying kits, fan covers, rain hoods, lifting devices and locks to fully support and configure the enclosure
- Comprehensive standards and approvals including CE, GL, KEMA, UL and Lloyd's Register

1800mm High

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1800 x 800 x 500	117	I	MCSS 18085-316	13,497.00



MCSS 18085-316

2000mm High

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
2000 x 800 x 600	132	I	MCSS 20086-316	17,997.00



MCSS 20086-316

Stainless Steel - MCDS (Double Door Bayable)

The MCDS range of stainless steel double door enclosures are ideal for use in confined spaces where with single door enclosures, when opened, take too much space in front of the enclosure. Designed for outdoor, harsh environments due to its sturdy construction and design.

- Bayable, allowing endless opportunities to house large equipment and provide future expandability
- Conforms to IP55 and IK10 rating which provides component protection, excellent strength and rigidity
- Large range of stainless steel accessories including plinths, baying kits, fan covers, rain hoods, lifting devices and locks to fully support and configure the enclosure
- Due to its increased loading capacity, heavier loads can be supported
- Comprehensive standards and approvals including CE, GL, KEMA, UL and Lloyd's Register

1800mm High

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1800 x 1200 x 500	178	I	MCDS 18125-316	22,012.00



MCDS 18125-316

Stainless Steel Accessories

A large range of stainless steel accessories are available to support and configure the enclosure range including plinths, panels, rain hoods, filter fan covers and door mounting kits.

Additional accessories are available, please refer to nVent HOFFMAN Mild Steel Floor Standing Enclosure Accessories.

Plinths - Front/rear Pieces, Stainless Steel

The stainless steel plinth consists of four corner pieces with removable front covers to allow for installation of cables.

- The stainless steel plinth creates extra space below the enclosure which makes it easier to install cables
- The plinth allows enclosures to be fixed to the floor therefore no need for interior access



PFS 1060-316

Plinth (mm height)	Enclosure (mm width)	Item Type	Catalogue No.	\$AU
100	600	I	PFS 1060-316	1,871.00
100	800		PFS 1080-316	1,981.00
100	1000	I	PFS 1100-316	2,128.00
100	1200		PFS 1120-316	2,342.00

Plinths - Side Pieces, Stainless Steel

Plinth side pieces cover the openings of the PFS plinth thereby protecting the extra space created underneath the enclosure.



PSS 2040-316

Plinth (mm height)	Enclosure (mm depth)	Item Type	Catalogue No.	\$AU
100	400		PSS 1040-316	517.00
100	500	I	PSS 1050-316	563.00
100	600	I	PSS 2040-316	604.00
100	600	I	PSS 1060-316	611.00
100	600	I	PSS 2050-316	699.00
100	600	I	PSS 2060-316	712.00

Side Panels

Stainless steel side panels are required to complete any bayable/bayed enclosure assembly to ensure ingress protection is maintained. The SPMS are supplied as a set of two, so one set is needed per stand-alone enclosure or per bayed assembly.



SPMS 1805-316

Enclosure (mm H x D)	Material	Package (qty)	Item Type	Catalogue No.	\$AU
1800 x 500	1.5mm Stainless Steel, 316	2	I	SPMS 1805-316	2,677.00
2000 x 600	1.5mm Stainless Steel, 316	2	I	SPMS 2006-316	4,301.00

Stainless Steel Locking Handles - nVent HOFFMAN Branded

Item Description	Item Type	Catalogue No.	\$AU
Lock Cover Swing Handle Stainless Steel No Insert	I	LLHS501N	365.00
Lock Cover For Stainless Steel Enclosure S/Handle No Insert Suit Half Cylinders	I	LLHS502N	462.00



LLHS501N

Filter Fan Covers - 316 Stainless Steel

Provides additional protection to the filter fans against the ingress of water in outdoor or wash down environment.



EFCS20-316

H x W x D (mm)	Fan	Item Type	Catalogue No.	\$AU
275 x 175 x 100	Suits GSV1000		EFCS20-316	886.00
375 x 275 x 100	Suits GSV1500 / GSV2000 / GSV250X		EFCS2530-316	1,047.00

Floor Standing Enclosures

nVent HOFFMAN Floor Standing Enclosures - Aluminium

- Double wall design provides natural convection cooling
- Sloped roof design with integrated rain hood
- Secure multi-point Espagnolette door locking system
- Anti-vandalism design with concealed hinges and screws
- IK10 impact resistance
- Marine grade aluminium for corrosion resistance
- Mounting plate position is adjustable
- Custom versions possible (colours, dimensions, inner doors etc) to suit specific projects, contact NHP for details
- IP66 (single door models) and IP55 (multi-door models) ingress protection

The nVent HOFFMAN (previously EKOM) EKOM range is designed with anti-vandalism and corrosion protection in mind. The aluminium construction and double wall design is an ideal solution for optimum heat management in the harsh Australian climate and satisfies the toughest demands in rail and roadways traffic applications and telecommunication systems.



EKOM Double Wall Aluminium Outdoor Enclosures

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1200 x 600 x 600	62	I	EKOM 12066	15,344.00
1200 x 800 x 600	52	I	EKOM 12086	16,751.00
1400 x 800 x 600	76	I	EKOM 14086	19,318.00
1200 x 1200 x 600	80	I	EKOM 12126	22,731.00



EKOM 12066

ECOM ITS Cabinet VicRoads Approved

H x W x D (mm)	Weight (kg)	Item Type	Catalogue No.	\$AU
1600 x 800 x 600	90	I	ECOM16086ITS2	44,599.00
1600 x 800 x 600	90	I	ECOM16086ITS	44,646.00

EKOM Accessories

Gland Plates - Aluminium

Enclosure (mm W x D)	Item Type	Catalogue No.	\$AU
600 x 400	I	CBPA 064	673.00



CBPA 064

Mounting Plates - Aluminium

Enclosure (mm H x W)	Item Type	Catalogue No.	\$AU
1200 x 600	I	MPAL 1206	1,331.00
1200 x 800	I	MPAL 1208	1,417.00
1400 x 600	I	MPAL 1406	1,518.00
1400 x 800	I	MPAL 1408	1,620.00



MPAL 1206

Mounting Plates - Steel

Enclosure (mm H x W)	Item Type	Catalogue No.	\$AU
1200 x 600	I	MP 1206	520.00



MP 1206



PFAL 1064

Plinths - Aluminium (Complete Plinth Front/Rear + Sides)

Enclosure (mm W x D)	Plinth (mm height)	Item Type	Catalogue No.	\$AU
600 x 400	100	I	PFAL 1064	1,636.00
600 x 600	100	I	PFAL 1066	1,853.00
1200 x 400	100	I	PFAL 1124	2,056.00
1200 x 600	100	I	PFAL 1126	2,309.00
1800 x 400	100	I	PFAL 1184	3,603.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'my account'

Filter Fans and Exhaust Fans

Filter and Exhaust Fans

- Unimpeded air flow from 35-1870m³/hr across the GSV filter fan and TSV exhaust fan range ensures a similar platform can be used across all applications
- IP54 as standard on Kryos³ models, IP43 on TSV ensures low ingress while removing excess heat
- 24V DC, 110V AC and 230V AC models available provides solutions for various applications
- Reversible fan flow on all GSV models for added flexibility when applications change
- Simple clip-in (GSV) or screw-in (TSV) mounting ensures quick and easy installation
- Contact NHP for a custom cooling solution

Designed for easy mounting and autonomous use, ventilation is the perfect solution for when your required internal temperature is higher than the maximum ambient temperature. With most applications the need to run your ventilation 24/7 is not required, and the use of a KTS thermostat is recommended. This will extend the life of your ventilation product and decrease the frequency of cleaning / replacing filters. A range of axial fans to promote internal air flow is also available, and complements the use of filter fans or air conditioners by making sure the fresh air reaches all corners of the enclosure.

GSV Filter Fans

With an easy clip-on mounting system the GSV filter fans can be installed in no time at all, and wired up with ease due to the screwless terminal connections. The fan motors are reversible on all sizes, meaning that the same model can be used for air in or air out in all cases. With efficient IP54 filter mats the GSV series provides a low maintenance, low cost solution.

GSV - Fans, Grilles and Filters

- High heat resistant and self-extinguishing ABS plastic housing
- Easy clip-on mounting and screwless terminals
- Long life ball bearing fans
- Efficient filter mats
- Reversible fan motor on all sizes for maximum flexibility

GSV1000 - 35 m³/hr

Fan Flow (m ³ /hr unimpeded)	Supply Voltage (V AC / V DC)	Frequency (Hz)	H x W x D (mm)	Cutout (H x W, mm)	Item Type	Catalogue No.	\$AU
35	115V AC	50 / 60 Hz	119 x 119 x 58	92 x 92		GSV 1000 203	340.00
35	230V AC	50 / 60 Hz	119 x 119 x 58	92 x 92		GSV 1000 220	340.00
35	24V DC		119 x 119 x 58	92 x 92		GSV 1000 211	372.00



GSV 1000 220

GSV1500 - 67m³/hr

Fan Flow (m ³ /hr unimpeded)	Supply Voltage (V AC / V DC)	Frequency (Hz)	H x W x D (mm)	Cutout (H x W, mm)	Item Type	Catalogue No.	\$AU
67	230V AC	50 / 60 Hz	152 x 152 x 75	125 x 125		GSV 1500 220	525.00
67	115V AC	50 / 60 Hz	152 x 152 x 75	125 x 125		GSV 1500 203	548.00
67	24V DC		152 x 152 x 75	125 x 125		GSV 1500 211	601.00



GSV 1500 220

GSV2000 - 108m³/hr

Fan Flow (m ³ /hr unimpeded)	Supply Voltage (V AC / V DC)	Frequency (Hz)	H x W x D (mm)	Cutout (H x W, mm)	Item Type	Catalogue No.	\$AU
108	230V AC	50 / 60 Hz	204 x 204 x 98	177 x 177		GSV 2000 220	607.00
108	115V AC	50 / 60 Hz	204 x 204 x 98	177 x 177		GSV 2000 203	661.00
108	24V DC		204 x 204 x 98	177 x 177		GSV 2000 211	769.00



GSV 2000 220

GSV2500 - 190 m³/hr

Fan Flow (m ³ /hr unimpeded)	Supply Voltage (V AC / V DC)	Frequency (Hz)	H x W x D (mm)	Cutout (H x W, mm)	Item Type	Catalogue No.	\$AU
190	230V AC	50 / 60 Hz	250 x 250 x 118	223 x 223		GSV 2500 220	654.00
190	115V AC	50 / 60 Hz	250 x 250 x 118	223 x 223		GSV 2500 203	670.00
190	24V DC		250 x 250 x 118	223 x 223		GSV 2500 211	983.00



GSV 2500 220

GSV2501 - 370 m³/hr

GSV 2501 220

Fan Flow (m ³ /hr unimpeded)	Supply Voltage (V AC)	Frequency (Hz)	H x W x D (mm)	Cutout (H x W, mm)	Item Type	Catalogue No.	\$AU
270	230V AC	50 / 60 Hz	250 x 250 x 99	223 x 223		GSV 2501 220	762.00
270	115V AC	50 / 60 Hz	250 x 250 x 99	223 x 223		GSV 2501 203	769.00

GSV3000 - 500 m³/hr

GSV 3000 220

Fan Flow (m ³ /hr unimpeded)	Supply Voltage (V AC)	Frequency (Hz)	H x W x D (mm)	Cutout (H x W, mm)	Item Type	Catalogue No.	\$AU
500	230V AC	50 / 60 Hz	318 x 318 x 139	291 x 291		GSV 3000 220	953.00
500	115V AC	50 / 60 Hz	318 x 318 x 139	291 x 291		GSV 3000 203	983.00

GSV3001 - 615 / 990 m³/hr

GSV 3001 220

Fan Flow (m ³ /hr unimpeded)	Supply Voltage (V AC)	Frequency (Hz)	H x W x D (mm)	Cutout (H x W, mm)	Item Type	Catalogue No.	\$AU
700	230V AC	50 / 60 Hz	318 x 318 x 135	291 x 291		GSV 3001 220	1,000.00
700	115V AC	50 / 60 Hz	318 x 318 x 135	291 x 291		GSV 3001 203	1,256.00

GSV3002 - 615 / 990 m³/hr

GSV 3002 220

Fan Flow (m ³ /hr unimpeded)	Supply Voltage (V AC)	Frequency (Hz)	H x W x D (mm)	Cutout (H x W, mm)	Item Type	Catalogue No.	\$AU
850	230V AC	50 / 60 Hz	318 x 318 x 161	291 x 291		GSV 3002 220	1,658.00
850	400V AC	50 Hz	318 x 318 x 161	291 x 291		GSV 3002 262	1,871.00

GSF - Grilles and Filters for use in Conjunction with the GSV Fan, Filter and Grilles. Optimum Placement is on the Other Side of the Enclosure to Promote Maximum Air Flow.

- High heat resistant and self-extinguishing ABS plastic housing
- Easy clip-on mounting and screwless terminals
- Efficient filter mats



GSF 10

Fan	H x W x D (mm)	Cutout (H x W, mm)	Item Type	Catalogue No.	\$AU
GSV1000	119 x 119 x 28.5	92 x 92		GSF 10	71.00
GSV1500	152 x 152 x 32.5	125 x 125		GSF 15	81.00
GSV2000	204 x 204 x 33.5	177 x 177		GSF 20	155.00
GSV2500 / GSV2501	250 x 250 x 47.5	223 x 223		GSF 25	193.00
GSV3000 / GSV3001 / GSV3002	318 x 318 x 34	291 x 291		GSF 30	294.00

AVAFAGS - Spare Filters for GSV and GSF Units

- High heat resistant and self-extinguishing ABS plastic housing
- Easy clip-on mounting and screwless terminals
- Efficient filter mats



AVA FAGS 10

Fan	H x W (mm)	Item Type	Catalogue No.	\$AU
GSV1000	119 x 119		AVA FAGS 10	63.00
GSV1500	152 x 152		AVA FAGS 15	88.00
GSV2000	204 x 204		AVA FAGS 20	118.00
GSV2500	250 x 250		AVA FAGS 25	125.00
GSV3000	318 x 318		AVA FAGS 30	159.00

Axial Fans

Useful for further promoting internal air flow in large cabinets, axial fans are the perfect addition to ensure that your climate control solution works for you. With a range of fans available from 150-410 m³/hr in different voltages, as well as finger guards, axial fans can provide that extra polish to your switchboard.

Axial Fans - 150 to 183 m³/hr

Fan Flow (m ³ /hr unimpeded)	Supply Voltage (V AC / V DC)	Frequency (Hz)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
183	24V DC		120 x 120 x 38		DC 12 312 BTP	313.00
165	230V AC	50 / 60 Hz	120 x 120 x 38		AC 12 320 BTP	318.00



DC 12 312 BTP

Axial Fans - 306 to 410 m³/hr

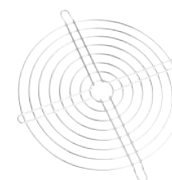
Fan Flow (m ³ /hr unimpeded)	Supply Voltage (V AC / V DC)	Frequency (Hz)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
306	230V AC	50 / 60 Hz	171 x 151 x 51		AC 17 320 BTP	594.00



AC 17 320 BTP

Finger Guards for DC17 / AC17 Axial Fans

Fan	H x W x D (mm)	Item Type	Catalogue No.	\$AU
DC17 / AC17	171 x 151 x 51		GNM 25	16.00



GNM 25

AVAFAGH - Spare Filters for GHV and GHF Units

Fan	Grille (compatible)	H x W (mm)	Item Type	Catalogue No.	\$AU
GHV1000	GHF10	119 x 119		AVA FAGH 10	68.00
GHV1500	GHF15	152 x 152		AVA FAGH 15	86.00
GHV2000	GHF20	204 x 204		AVA FAGH 20	127.00
GHV2500 / GHV2501	GHF25	250 x 250		AVA FAGH 25	136.00
GHV3000 / GHV30	GHF30	318 x 318		AVA FAGH 30	173.00



AVA FAGH 10

Heaters and Regulating Devices

Heaters



- Convection heaters from 10-150W
- Fan heaters from 100-950W
- Covers all possible heating / anti-condensation applications
- Contact NHP for a custom heating or anti-condensation solution

With NHP's range of anti-condensation heaters and regulating devices we can provide a broad range of heating capacities such as convection style for small narrow enclosures, and fan heater style for larger enclosures.

Convection Heaters

PTC convection heaters are ideal for use in tall, narrow enclosures. These heaters function best when mounted near the bottom of the enclosure in conjunction with a thermostat mounted in the upper section, in order to maintain the desired temperature and provide a simple method of keeping your enclosure moisture free. Convection heaters are the simplest method of anti-condensation heating.

- 10-150W versions available
- 120-240V AC/DC nominal voltages
- Easy DIN rail mounting on all models

HGK047 Series - Miniature Variable PTC Heaters with Moulded Power Lead

Miniature HGK047 heaters are perfect for small enclosures where minimal heating is needed. Designed for permanent operation with an aluminium chimney style body, this model allows maximum vertical air flow.

- Efficient design and operation
- 120-240 V AC/DC (min 110V, max 265V)
- Clip-on DIN rail fixing



HGK 04700

Heating (W @20°C)	Ue (V AC / V DC)	Frequency (Hz)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
10	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	364 x 25 x 50		HGK 04700	180.00
20	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	372 x 25 x 50		HGK 04701	205.00
30	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	382 x 25 x 50		HGK 04702	229.00

HG140 Series - Variable PTC Heaters with Insulated Spring Clamp Terminals

The HG140 series of semiconductor heaters have an aluminium profile designed to create a chimney effect, distributing the heat upwards. Perfect for permanent operation in tall, narrow enclosures, these heaters are a time saving and simple method of preventing condensation.

- Fast heat up time
- Clip-on DIN rail fixing
- Spring clamp terminals



HG14012

Heating (W @20°C)	Ue (V AC / V DC)	Frequency (Hz)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
15	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	109 x 70 x 60		HG 14000	262.00
30	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	109 x 70 x 60		HG 14001	289.00
45	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	109 x 70 x 60		HG 14003	317.00
45	12 - 24V AC / 12 - 24V DC	50 / 60 Hz	109 x 70 x 60		HG14012	317.00
60	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	184 x 70 x 60		HG 14005	403.00
75	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	184 x 70 x 60		HG 14006	426.00
100	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	184 x 70 x 60		HG 14007	506.00
150	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	264 x 70 x 60		HG 14008	678.00

CS060/CSK060 Series - Touch-Safe Semiconductor Heaters

The design of the CS060/CSK060 range supports natural convection which results in warm air being circulated throughout the enclosure. The surface areas on the accessible sides of the housing are kept down as a result of the heater design, meaning that there is little to no chance of unintentional contact with hot surfaces.

- Double insulated
- 120-240 V AC/DC (min 110V, max 265V)
- Low surface temperature

Heating (W @20°C)	Ue (V AC / V DC)	Frequency (Hz)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
20	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	98 x 38 x 75		CSK 06030	193.00
50	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	110 x 60 x 90		CS 06000.0-00	264.00
100	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	110 x 60 x 90		CS 06010.0-00	415.00
150	110 - 265V AC / 110 - 265V DC	50 / 60 Hz	150 x 60 x 90		CS 06020.0-00	496.00



CSK 06030

Anti-Condensation Fan Heaters

Fan heaters are ideal when higher heating capacities or greater air circulation is required. With any large enclosure there will be a need to push the air into every section of the cabinet, thus a fan heater will be necessary. Models from 100 to 1200W are available with some larger models containing in built thermostats, reducing the parts requirement of the system.

HGL046 Series - Compact Fan Heaters

The HGL046 series of vertical fan heater is designed for long life and high usage. With an anodised extruded aluminium profile, temperature safety cut-out and long life fans (50,000 hours) the HGL046 series is available in 250W or 400W.

- Compact vertical design
- Long service life - ball bearing fans have a life of 50,000 hours at +25 °C
- Maintenance free
- Temperature safety cut-out
- Clip-on DIN rail fixing

Heating (W @20°C)	Ue (V AC)	Frequency (Hz)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
250	230V AC	50 / 60 Hz	182 x 100 x 85		HGL 04640	756.00
400	230V AC	50 / 60 Hz	222 x 100 x 85		HGL 04641	899.00



HGL 04640

CR027 Series - Semiconductor Fan Heaters

The powerful CR027 series fan heaters provide features not seen in many other heaters. With a visual indicator, integrated thermostat including safety cut-out, the CR027 is a top shelf solution.

- Compact design
- Easy DIN rail mounting
- Double insulated
- Temperature safety cut out
- Integrated thermostat

Heating (W @20°C)	Ue (V AC)	Frequency (Hz)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
550	220 - 240V AC	50 / 60 Hz	165 x 100 x 128		CR 02701.0-00	1,022.00



CR 02701.0-00

CR130 Series - High Performance Fan Heaters

The CR130 performance fan heater is designed for fixing to the inside wall of a large enclosure. With integrated thermostat and safety cut-out, this heater is a high end solution for the most demanding of heating requirements.

- Easy DIN rail mounting
- Double insulated
- Temperature safety cut out
- Integrated thermostat

Heating (W @20°C)	Ue (V AC)	Frequency (Hz)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
950	230V AC	50 / 60 Hz	99 x 160 x 182		CR130510	1,271.00



CR130510

Heaters and Regulating Devices

Anti-Condensation Heaters and Regulating Devices



- A large range of thermostats (cooling and heating), hygrostats and hygrotherms for control of heating and cooling
- Pressure compensation devices to prevent build up of condensation in areas of rapid temperature rise, or high pressure spray
- Drainage device for the removal of excess moisture
- Contact NHP for a custom heating or cooling solution

NHP can provide complementary products such as pressure compensation devices and control thermostats to ensure your enclosure is kept in 100% condition at all times, reducing down time and maintenance costs.

Regulating Devices

When you have selected the correct heating and cooling products for your enclosure the appropriate temperature and humidity controls are recommended. KTO, KTS, FZK, ZR, MFR and ETF thermostats and control products are recommended for use with all heating and ventilation products to maintain your desired temperature inside your enclosure. Thermostats will also extend the life span of ventilation products and reduce the need to clean/change filters.

Compact Thermostats for Cooling Applications

Switch Max	Setpoint (range)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
10A @ 250V AC, 15A @ 120V AC, 30W @ 24-72V DC	0 ... 60°C	60 x 33 x 43		KTS 11101000	152.00



KTS 11101000

Compact Thermostats for Heating Applications

Switch Max	Setpoint (range)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
10A @ 250V AC, 15A @ 120V AC, 30W @ 24-72V DC	0 ... 60°C	60 x 33 x 43		KTO 11100000	152.00



KTO 11100000

Dual Thermostats (Two Thermostats in Single Casing) for Heating and Cooling

Switch Max	Setpoint (range)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
10A @ 250V AC, 15A @ 120V AC, 30W @ 24-72V DC	0 ... 60°C	67 x 50 x 46		ZR 01172	261.00



ZR 01172

Mechanical Hygrostats for Anti-Condensation Applications

Switch Max	Setpoint (range)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
5A @ 250V AC, 20W @ DC (min. 20V AC/100mA)	35 ... 95% RH	67 x 50 x 38		MFR 012	444.00



MFR 012

Mechanical Thermostats for Heating or Cooling Applications

Switch Max	Setpoint (range)	H x W x D (mm)	Item Type	Catalogue No.	\$AU
NC: 10A @ 120/250V AC, 30W @ DC; NO: 5A @ 120/250V AC, 30W @ DC	5 ... 60°C	67 x 50 x 38		FZK 01100	237.00



FZK 01100

Pressure Compensation and Drainage Devices

Easy to install pressure compensation devices provide a simple and efficient way of reducing moisture damage in smaller enclosures. A semi-permeable membrane inside the plug allows air and humidity to leave the enclosure. In the opposite direction, it only allows dry air into the enclosure while humidity and dust from the outside are blocked by the membrane. Available in thermoplastic and 303 stainless steel for wash-down environments. The DD084 drainage device allows water to escape the enclosure at a rate of up to 200ml/h and is protected against high pressure, high temperature sprays, making it perfect for wash-down environments. Every enclosure mounted outside should have a pair of pressure compensation devices and a drainage device fitted, as required by AS/NZS3000:2018, Clause 1.7.2 (i).

Pressure Compensation Plugs - Plastic IP55

Material	IP Rating	Package (qty)	Thread (size)	ØCutout (mm)	Install (position)	Item Type	Catalogue No.	\$AU
Plastic	IP55	2	PG29	37	Variable fitting position		DA08400	94.00



DA08400

Pressure Compensation Plugs - Plastic IP66

Material	IP Rating	Package (qty)	Thread (size)	ØCutout (mm)	Install (position)	Item Type	Catalogue No.	\$AU
Plastic	IP66, IPX9K	2	M12 x 1.5	17	Variable fitting position		DA28406	84.00
Plastic	IP66, IPX9K	2	M40 x 1.5	40	Variable fitting position		DA28400	122.00



DA28406

Pressure Compensation Plugs - 303 Stainless Steel IP66

Material	IP Rating	Package (qty)	Thread (size)	ØCutout (mm)	Install (position)	Item Type	Catalogue No.	\$AU
Stainless Steel, 303	IP66		M12 x 1.5		Make cutout Ø12-12.2mm (0.48") in enclosure side wall and mount vent plug with nut. Ensure sealing gaskets are external and holes are free of burrs. For optimal pressure compensation, use 2 devices on opposite sides towards the top of the enclosure.		28402.0-01	153.00
Stainless Steel, 303	IP66, IPX9K	1	M40 x 1.5	40	Variable fitting position		DA28455	422.00



28402.0-01

DD084 - Drainage Devices

- High degree of protection
- Good drainage performance
- Ideal for wash down areas
- Easy to install
- Robust, weather and UV protected housing
- Allows up to 200ml/h water flow out of the enclosure

Material	IP Rating	Package (qty)	Thread (size)	ØCutout (mm)	Install (position)	Item Type	Catalogue No.	\$AU
Plastic	IP66, IP67, IP69K	2	M50 x 1.5	50.5	Make cutout Ø50.5+0.5mm (2.0") in enclosure bottom and mount drainage device with nut. Ensure sealing gasket is on the outer side panel of the enclosure and the hole is free of burrs.		DD 084	62.00



DD 084

Air Conditioning Systems

Air Conditioners



- Large cooling capacity range of 330W to 10kW models means all possible cooling applications are covered from small DOL starters to large variable speed drives
- Indoor models in RAL 7035 powder coated mild steel, 304 stainless steel and 316 stainless steel for harsh environments
- Outdoor models in RAL 7035 zinc annealed powder coated mild steel, 304 stainless steel and 316 stainless steel for harsh environments
- Single-phase and three-phase models with IP54 (IP55 available for CVE/CVO) protection across all models making sure your components are protected from the elements
- XCB (CVE/CVO) and ECB (ETE) controllers come as standard with almost all A/C models and provide alarm contacts, sequencing capabilities (XCB only), energy savings (XCB only) and Modbus communications (XCB only) providing seamless integration into existing systems
- Contact NHP for a custom cooling solution

The CVE, ETE and CVO air conditioners are the ultimate solution for cooling when your required internal temperature is lower than the maximum ambient temperature or where there is large component heat loss. With all units available in RAL 7035 powder coated mild steel, 304 stainless steel or 316 stainless steel we have all of your air conditioning needs covered. Available as standard IP54, with the added option of an IP55 gasket, the CVE/CVO models offer the highest ingress protection on the market. Additional communication modules and sequencing cables allow for connection to BMS systems as well as up to 25% less energy usage than older models.

CVE Indoor Air Conditioners

The CVE range of air conditioners are suitable for use in indoor environments. Available as standard IP54, with the added option of an IP55 gasket, the CVE models have only three cut-out sizes across the range for uniform installation in similar applications. Included on the front panel of the A/C is a newly designed controller with bright display and test feature to ensure proper operation while commissioning.

- IP54 (seal maintained between air conditioning unit and enclosure) with internal components protected from water/dust ingress
- CFC free R134a compliant refrigerant
- Long life ball bearing fans and hermetic compressor with integral motor protection plus self cleaning condenser coil meaning no periodic cleaning of coils required and 100% cooling capacity at all times
- XCB digital controller with display, with provisions to trigger external alarm (except CVE03). Factory set at 35°C
- Modbus communications, remote temperature probe and A/C sequencing cables available for use in BMS and monitoring applications
- Smart Energy Management (SEM) means up to 25% less energy usage than other models

CVE Mild Steel

CE Certified



CVE 3000 220 8000

Cooling (W @L35/L35)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Housing (material)	Item Type	Catalogue No.	\$AU
360	230V @50Hz / 230V @60Hz	442.5 x 324 x 206	Powder Coated Mild Steel		CVE 0300 220	5,339.00
550	230V @50Hz / 230V @60Hz	642 x 313 x 223	Powder Coated Mild Steel		CVE 0500 220 8000	6,377.00
850	230V @50Hz / 230V @60Hz	642 x 313 x 223	Powder Coated Mild Steel		CVE 0800 220 8000	6,714.00
1500	230V @50Hz / 230V @60Hz	912.5 x 410 x 248	Powder Coated Mild Steel		CVE 1500 220 8000	10,821.00
2100	230V @50Hz / 230V @60Hz	1005.5 x 409 x 263	Powder Coated Mild Steel		CVE 2000 220 8000	11,746.00
3000	230V @50Hz / 230V @60Hz	1217.5 x 511 x 347.5	Powder Coated Mild Steel		CVE 3000 220 8000	13,647.00
4000	400V @50Hz / 460V @60Hz	1217.5 x 511 x 347.5	Powder Coated Mild Steel		CVE 4000 261 8000	17,340.00

CVO Weather Protected Air Conditioners

Designed specifically for use in areas demanding protection against the elements, the CVO range is constructed in zinc annealed mild steel with powder coating protection by default. NHP also carries stock of 316 stainless steel versions. With no electrical components on the front face and security torx screws fixing the front panel the CVO range is the perfect anti-vandalism solution.

- IP54 (seal maintained between air conditioning unit and enclosure) with internal components protected from water/dust ingress
- Long life ball bearing fans and hermetic compressor with integral motor protection plus self-cleaning condenser coil meaning no periodic cleaning of coils required and 100% cooling capacity at all times
- Smart Energy Management (SEM) means up to 25% less energy usage than other models
- Zinc annealed mild steel construction provides extra corrosion resistance, stainless steel option available

CVO Zinc Plated Steel

CE Certified



CVO 1500 220 8000

Cooling (W @L35/L35)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Housing (material)	Item Type	Catalogue No.	\$AU
850	230V @50Hz / 230V @60Hz	634.5 x 313 x 235.5	Powder Coated Zinc-Plated Steel		CVO 0800 220 8000	9,474.00
1500	230V @50Hz / 230V @60Hz	906 x 410 x 272	Powder Coated Zinc-Plated Steel	I	CVO 1500 220 8000	10,849.00
3950	400V @50Hz / 460V @60Hz	1211 x 511 x 356	Powder Coated Zinc-Plated Steel		CVO 4000 261 8000	21,374.00

CVO 316 Stainless Steel

CE Certified

Cooling (W @L35/L35)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Housing (material)	Item Type	Catalogue No.	\$AU
2100	230V @50Hz / 230V @60Hz	996 x 409 x 286	Stainless Steel, 316		CVO 2000 220 8-S316	18,453.00



CVO 2000 220 8-S316

Controller Displays for CVO

Item Description	Item Type	Catalogue No.	\$AU
Controller Display for CVO - Necessary for Set Point Changes		ACA KPD	554.00



ACA KPD

ETE Top Mount Indoor Air Conditioners

The ETE horizontal mount air conditioners are perfect for when there is a lack of space present on the side or front of the switchboard. Utilising CFC free R3134a refrigerant, long life ball bearing fans and a hermetic compressor with integral motor protection the ETE range is built to last. All models come with a self-cleaning condenser coil meaning no periodic cleaning of the coils is required under standard operating conditions.

- IP54 (seal maintained between air conditioning unit and enclosure)
- CFC free R134a compliant refrigerant making sure all regulations are met
- Long life ball bearing fans and hermetic compressor with integral motor protection plus self-cleaning condenser coil meaning no periodic cleaning of coils required and 100% cooling capacity at all times
- ECB digital thermostat, electronic controller with provisions to trigger external alarm (EVE04) and above. Factory set at 35°C

ETE Mild Steel

Cooling (W @L35/L35)	Supply Voltage (V AC / V DC)	H x W x D (mm)	Housing (material)	Item Type	Catalogue No.	\$AU
900	230V @50Hz / 230V @60Hz	335 x 600 x 325	Powder Coated Mild Steel		ETE 0901 220 7000	8,364.00
2000	230V @50Hz / 230V @60Hz	450 x 600 x 400	Powder Coated Mild Steel		ETE 2000 220 7000	12,696.00



ETE 0901 220 7000

Cooling | Information Form



CUSTOMER DETAILS			
Account Number		Company Name	
Company Contact		Contact Number	
Email Address		NHP Sales Representative	
Date			

Please complete this form and send to your sales representative or local NHP branch for a customised climate control solution.

Details:

APPLICATION		TEMPERATURE		ENCLOSURE DIMENSIONS	
Indoor	<input type="checkbox"/>	Enclosure temperature request (°C):		Width (mm)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Outdoor	<input type="checkbox"/>	Max ambient temperature (°C)		Height (mm)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Area application will be located: (eg. Ballarat, Vic)				Depth (mm)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

LOCATION		ENCLOSURE MATERIAL		ENCLOSURE COLOUR	
Base covered	<input type="checkbox"/>	Mild steel	<input type="checkbox"/>	White, light blue	<input type="checkbox"/>
Back covered	<input type="checkbox"/>	Aluminium	<input type="checkbox"/>	Grey, yellow	<input type="checkbox"/>
Base + back covered	<input type="checkbox"/>	Stainless steel	<input type="checkbox"/>	Red, blue, brown	<input type="checkbox"/>
Base + side covered	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Black	<input type="checkbox"/>
Base back + side covered	<input type="checkbox"/>			Other	<input type="checkbox"/>
Base back side + side covered	<input type="checkbox"/>				

TOTAL HEAT CREATED DUE TO COMPONENTS: W (Watts loss)

Additional Information Applicable / Application Drawing:



To fill the order form in online scan the QR code.



This form is available at nhp.com.au/forms

NCOSMOTEC-COOLINGF_D01

Heating | Information Form

NHP

CUSTOMER DETAILS

Account Number		Company Name	
Company Contact		Contact Number	
Email Address		NHP Sales Representative	
Date			

Please complete this form and send to your sales representative or local NHP branch for a customised climate control solution.

Details:

APPLICATION		TEMPERATURE		ENCLOSURE DIMENSIONS	
Indoor	<input type="checkbox"/>	Lowest ambient temperature (°C):		Width (mm)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Outdoor	<input type="checkbox"/>	Desired internal temperature (°C)		Height (mm)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Area application will be located: (eg. Ballarat, Vic)				Depth (mm)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

LOCATION	ENCLOSURE MATERIAL	
Base covered	<input type="checkbox"/>	Mild steel <input type="checkbox"/>
Back covered	<input type="checkbox"/>	Aluminium <input type="checkbox"/>
Base + back covered	<input type="checkbox"/>	Stainless steel <input type="checkbox"/>
Base + side covered	<input type="checkbox"/>	Polyester <input type="checkbox"/>
Base back + side covered	<input type="checkbox"/>	
Base back side + side covered	<input type="checkbox"/>	

Additional Information Applicable / Application Drawing:



To fill the order form in online scan the QR code.



This form is available at nhp.com.au/forms

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

This page intentionally left blank

Signalling Devices

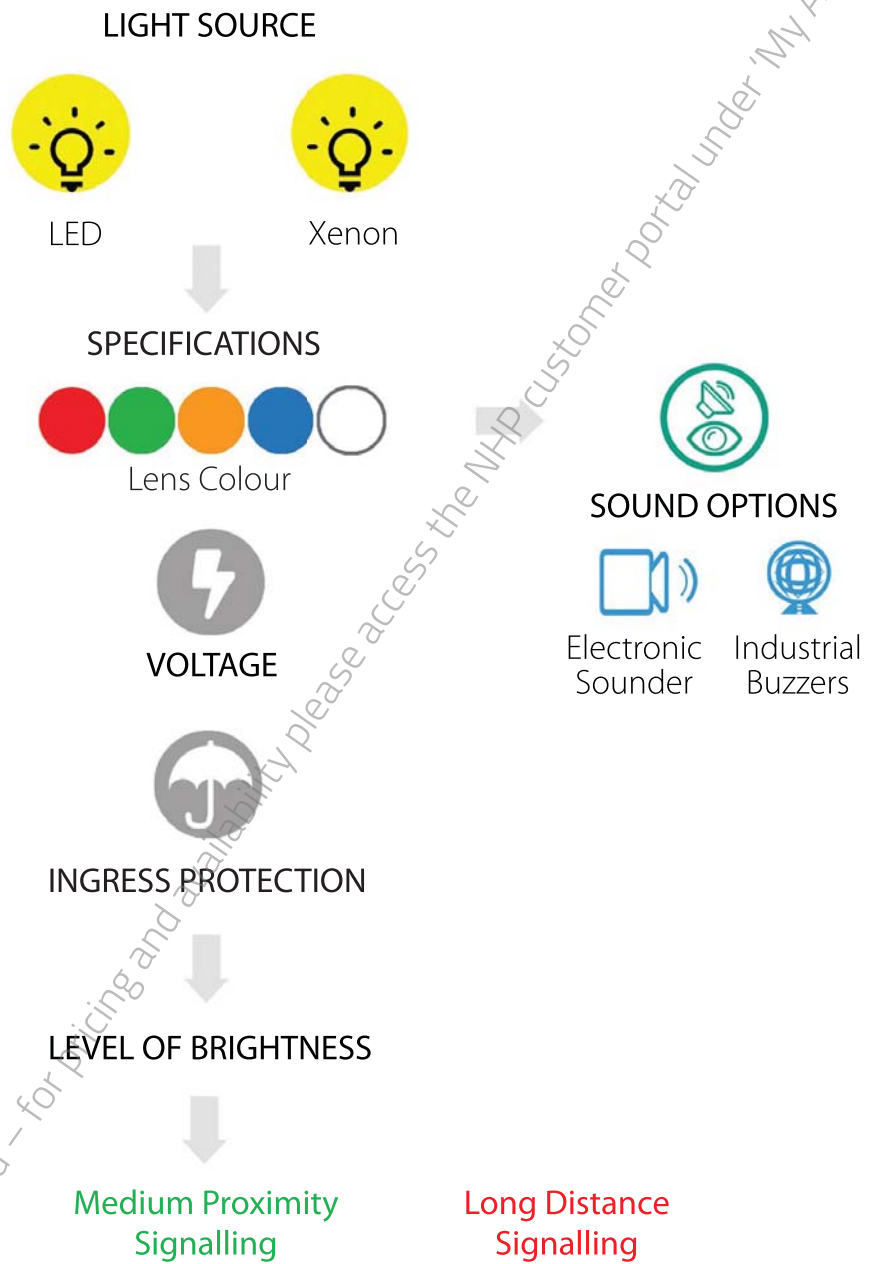
Sight Indication

Beacon Selection Guide	924
Beacons	925
RemLive Indication	935
Stack Lights	936
Moflash Stack Lights	936
Allen-Bradley Stack Lights	937
Allen-Bradley Control Tower Stack Lights 70mm	939

Sound Indication

Sounder Selection Guide	943
Buzzers, Hooters and Bells	944
Moflash Buzzers, Hooters and Bells	944
Allen-Bradley Buzzers (855P Panel mount)	945
Electronic Sounders	946
Sirens	948
Typical Decibel Range for Sound Indication	950

Beacon Selection Guide



Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Beacons

Moflash Beacons

- Complete visual signalling range from high efficiency static or flashing LED's to high discharge Xenon beacons to rotating parabolic reflector beacons, we have the solution suitable for your application.
- Available in a variety of frame sizes and with accessories such as protective cages and brackets to cater to your mounting requirements.
- Multiple colour varieties available including Red, Green, Amber and Blue to convey whichever message is required.

The Moflash and Klaxon beacons offer a wide choice of light outputs, sizes, voltages and provide the option of selectable operation modes such as steady, flashing (LED), strobing (Xenon), rotating and more.



LED Beacons

LED beacons are suited for long life applications, typically achieving 100,000 hours of service. Allowing for static or flashing operation in many units, the MOLED and Flashguard units span a range of sizes and colours including Amber, Red, Green, Blue and White.

MOLED80 Series - LED Beacons

The MOLED80 incorporates 12 ultra bright Surface Mount LEDs offering an economic solution for a wide range of general signalling solutions.

Ideally suited for local indication the beacon is controlled by either two wires (flashing mode) or three (static mode).

The beacons are supplied fully assembled and ready for immediate installation.

The unit offers two mounting options, either Stud Mount or Surface Mounting using the two piece fixing plate supplied. One plate is fixed to the appropriate surface the other to the beacon, the two plates then 'Snap Fit' together.

60 Flashes Per Minute

-20+55° Celsius

Static or Flashing Beacons - 10-100V DC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	10 - 100V DC	0.09	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOLED80-02A	157.00
Red	10 - 100V DC	0.09	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOLED80-02R	157.00
Green	10 - 100V DC	0.09	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOLED80-02G	157.00
Blue	10 - 100V DC	0.09	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOLED80-02B	157.00



MOLED80-02A

Static or Flashing Beacons - 115 / 230V AC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	115 / 230V AC	0.02	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOLED80-04A	157.00
Red	115 / 230V AC	0.02	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOLED80-04R	157.00
Green	115 / 230V AC	0.02	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOLED80-04G	157.00
Blue	115 / 230V AC	0.02	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOLED80-04B	157.00



MOLED80-04R

MOLED100 Series - LED Beacons

The MOLED100 economy series is suitable for light commercial & industrial signalling applications where local indication is required. These beacons have two selectable stages of alarm, flashing or continuous (static) mode, selectable by a jumper link on the PCB. The design also allows for a third wire connection giving flexibility to switch from a pre-set static mode to flashing. The LED ECO range has been designed predominantly to offer a cost effective solution against more traditional incandescent types of lamps, whether through new plant and machinery installations or existing facility upgrades. The design allows for termination inside the enclosure through the base.
160 Flashes Per Minute
-25+55° Celsius

Static or Flashing Beacons - 8-20V AC/DC



MOLED100-01G

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	10 - 17 V AC/DC	0.43	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	I	MOLED100-01A	162.00
Green	10 - 17 V AC/DC	0.43	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	I	MOLED100-01G	162.00
Red	10 - 17 V AC/DC	0.43	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOLED100-01R	162.00

Static or Flashing Beacons - 20-30V AC/DC



MOLED100-02A

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	20 - 30 V AC/DC	0.11	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOLED100-02A	162.00
Green	20 - 30 V AC/DC	0.11	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOLED100-02G	162.00
Red	20 - 30 V AC/DC	0.11	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOLED100-02R	162.00

Static or Flashing Beacons - 85-280V AC / 40-380V DC



MOLED100-05R

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	85 - 280 V AC/ DC	0.035	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOLED100-05A	162.00
Green	85 - 280 V AC/ DC	0.035	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOLED100-05G	162.00
Red	85 - 280 V AC/ DC	0.035	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOLED100-05R	162.00

MOLEDA100 Series - Audible LED Beacons

Audible LED Beacons - 20-30V AC/DC



MOLEDA100-02A

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	20 - 30 V AC	0.11	Surface Mount, Wall Mount	IP65	Fixed (non-re-mov- able) Terminal Block		MOLEDA100-02A	175.00
Green	20 - 30 V AC	0.11	Surface Mount, Wall Mount	IP65	Fixed (non-re-mov- able) Terminal Block	I	MOLEDA100-02G	175.00
Red	20 - 30 V AC	0.11	Surface Mount, Wall Mount	IP65	Fixed (non-re-mov- able) Terminal Block		MOLEDA100-02R	175.00

Audible LED Beacons - 85-280V AC / 40-380V DC



MOLEDA100-05R

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	85 - 280 V AC	0.035	Surface Mount, Wall Mount	IP65	Fixed (non-re-mov- able) Terminal Block		MOLEDA100-05A	175.00
Green	85 - 280 V AC	0.035	Surface Mount, Wall Mount	IP65	Fixed (non-re-mov- able) Terminal Block	I	MOLEDA100-05G	175.00
Red	85 - 280 V AC	0.035	Surface Mount, Wall Mount	IP65	Fixed (non-re-mov- able) Terminal Block		MOLEDA100-05R	175.00

MOLED195 Series - LED Beacons

The MOLED195 beacon has been designed for industrial & commercial signalling applications where low maintenance & long life are the pre-requisite requirement with 36LEDs

These beacons have two stages of alarm, flashing (pre-set to either 60 or 120 FPM) or continuous (static) mode, selectable by a jumper link on the PCB.

The design also allows for a third wire connection giving the flexibility to switch from a pre-set static mode to a pre-set flashing mode.

The design allows for termination inside the enclosure. The LED195 deep base version offers 2 x M20 side knockouts and 1 x M20 rear.

The shallow base (low profile version) allows for cable entry of up to 5mm on the side of the unit (x2) and 1 x M20 knockout at the rear.

60/120 Flashes Per Minute

-25+55° Celsius

Static or Flashing Beacons 20 - 30V AC/DC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Item Type	Catalogue No.	\$AU
Amber	20 - 30 V AC/DC	0.12	Surface Mount; Wall Mount	IP65		MOLED195-02WH-A	235.00
Red	20 - 30 V AC/DC	0.12	Surface Mount; Wall Mount	IP65		MOLED195-02WH-R	235.00
Green	20 - 30 V AC/DC	0.12	Surface Mount; Wall Mount	IP65		MOLED195-02WH-G	235.00
Blue	20 - 30 V AC/DC	0.12	Surface Mount; Wall Mount	IP65		MOLED195-02WH-B	235.00
Clear / Transparent	20 - 30 V AC/DC	0.12	Surface Mount; Wall Mount	IP65		MOLED195-02WH-C	235.00



MOLED195-02WH-A

Static or Flashing Beacons 85 - 280V AC/DC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Item Type	Catalogue No.	\$AU
Amber	85 - 280 V AC/DC	0.035	Surface Mount; Wall Mount	IP65		MOLED195-05WH-A	235.00
Red	85 - 280 V AC/DC	0.035	Surface Mount; Wall Mount	IP65		MOLED195-05WH-R	235.00
Green	85 - 280 V AC/DC	0.035	Surface Mount; Wall Mount	IP65		MOLED195-05WH-G	235.00
Blue	85 - 280 V AC/DC	0.035	Surface Mount; Wall Mount	IP65		MOLED195-05WH-B	235.00
Clear / Transparent	85 - 280 V AC/DC	0.035	Surface Mount; Wall Mount	IP65		MOLED195-05WH-C	235.00



MOLED195-05WH-A

MOLEDD125 Series - LED Beacons

The MOLEDD and MOLEDA125 series are suitable for security, process control & industrial applications, where low maintenance and long life are the pre-requisite requirement.

These beacons offer a three stage alarm option, selected by a jumper link on the PCB: 1. Continuous mode 2. Flashing mode at 1Hz 3.

Flashing mode at 2Hz An advantage of the Continuous mode is that it can be controlled via a remote source (ie. control panel / plc etc) offering the potential of remote flash option. The design for the DC unit allows for termination inside the enclosure via an M12 sealing grommet in the base. The AC units are supplied with a 1 metre flying lead.

The MOLEDA version incorporates two piezo buzzers situated in the base of the unit that are synchronised to the light mode (the buzzers can be controlled separately of the light on the DC version Only) offering a combined audible & visual warning device.

Static or Flashing Beacons - 24V DC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	24V DC	0.15	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED125-02A	372.00
Red	24V DC	0.17	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED125-02R	372.00
Green	24V DC	0.17	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED125-02G	372.00
Blue	24V DC	0.17	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED125-02B	372.00
Clear / Transparent	24V DC	0.17	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED125-02W	372.00



MOLED125-02R



MOLED125-03A

Static or Flashing Beacons - 115V AC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	115V AC	0.15	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOLED125-03A	372.00
Red	115V AC	0.17	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOLED125-03R	372.00
Green	115V AC	0.17	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOLED125-03G	372.00



MOLED125-04G

Static or Flashing Beacons - 230V AC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	230V AC	0.04	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED125-04A	372.00
Red	230V AC	0.04	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED125-04R	372.00
Green	230V AC	0.04	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED125-04G	372.00
Blue	230V AC	0.04	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED125-04B	372.00
Clear / Trans- parent	230V AC	0.04	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED125-04W	372.00

MOLEDA125 Series - Audible LED Beacons

Static or Flashing Beacons 24V DC



MOLEDA125-02R

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	24V DC	0.155	Surface Mount, Wall Mount	IP65	2-way		MOLEDA125-02A	392.00
Red	24V DC	0.175	Surface Mount, Wall Mount	IP65	2-way		MOLEDA125-02R	392.00
Green	24V DC	0.175	Surface Mount, Wall Mount	IP65	2-way		MOLEDA125-02G	392.00
Blue	24V DC	0.175	Surface Mount, Wall Mount	IP65	2-way		MOLEDA125-02B	392.00

Static or Flashing Beacons 115V AC



MOLEDA125-03A

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	115V AC	0.06	Surface Mount, Wall Mount	IP65	2-way 1m	I	MOLEDA125-03A	524.00
Red	115V AC	0.06	Surface Mount, Wall Mount	IP65	2-way 1m	I	MOLEDA125-03R	524.00
Green	115V AC	0.06	Surface Mount, Wall Mount	IP65	2-way 1m	I	MOLEDA125-03G	524.00

Static or Flashing Beacons 230V AC



MOLEDA125-04A

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	230V AC	0.04	Surface Mount, Wall Mount	IP65	2-way 1m		MOLEDA125-04A	392.00
Red	230V AC	0.04	Surface Mount, Wall Mount	IP65	2-way 1m		MOLEDA125-04R	392.00
Green	230V AC	0.04	Surface Mount, Wall Mount	IP65	2-way 1m		MOLEDA125-04G	392.00
Blue	230V AC	0.04	Surface Mount, Wall Mount	IP65	2-way 1m		MOLEDA125-04B	392.00

MOLEDA125-01 Series - Audible Tri-colour LED Beacons

The MOLEDA125-01 offers maximum flexibility in terms of visual and audible requirements. The beacon can produce 3 colours; Amber, Green and Red in conjunction with an audible signal. Two piezo sounders situated in the base of the unit can be synchronised via external control with any colour and flash rate required.

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber / Green / Red	24V DC	0.35	Mounting Plate (Included), Surface Mount	IP65	2-way Built-in cable with flying leads		MOLEDA125-01	590.00



MOLEDA125-01

MOLED400/401 Series - LED beacons

The LED401/400 series are suitable for security, process control & industrial applications, where low maintenance and long life are the pre-requisite requirement.

These beacons offer four modes of operation selected by a four way switch on the PCB:

1. Continuous mode
2. Flashing mode at 1Hz
3. Rotating mode: Twin column
4. Rotating mode: Single column

An advantage of the continuous mode is that it can be controlled via a remote source (ie. control panel, plc etc) offering the potential of a remote flashing option. The design allows for termination inside the enclosure through the base.

60 Flashes Per Minute

-25+55° Celsius

Static, flashing or rotating - 24V DC

Colour	Un (V AC / V DC)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	24V DC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED401-02A	1,321.00
Red	24V DC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED401-02R	1,321.00
Green	24V DC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED401-02G	1,419.00
Blue	24V DC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED401-02B	1,419.00
Clear / Transparent	24V DC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED401-02C	1,419.00



MOLED401-02A

Static, Flashing or Rotating - 115/230V AC

Colour	Un (V AC / V DC)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	115 / 230V AC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED400-04A	1,321.00
Red	115 / 230V AC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED400-04R	1,321.00
Green	115 / 230V AC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED400-04-G	1,321.00
Blue	115 / 230V AC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED400-04-B	1,419.00
Clear / Transparent	115 / 230V AC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLED400-04-C	1,419.00



MOLED400-04A

MOLEDTL Series - Traffic Light LED Beacons

The MOLED Traffic Light has been designed for industrial & commercial applications where a low maintenance, long life & cost effective solution for car park management, factory traffic control & automated gate & door control systems is required.

The traffic light units are suitable for indoor or outdoor applications and incorporate 36 high output LED's. They can be surface mounted onto any flat vertical surface or conduit box and used as a stand-alone module. Alternatively, the modular design of the traffic light allows for multiple units to be pre-assembled by the installer to create a multiple indication light system. Each unit comes supplied as standard with all components required for multiple assembly for surface mount installation.

These units require external input signals or PLC control to switch visual indication functions (not supplied). However, the amber light incorporates an optional jumper link on the PCB that allows the unit to flash once energised.

Cable termination is inside the enclosure and can be accessed via either the 2 x M20 conduit knockouts (top or bottom) or 1 x M20 rear conduit entry
-25+55° Celsius

Traffic Light LED Beacon - 20-30V AC/DC



MOLEDTL-02A

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	20 - 30 V AC/DC	0.12	Surface Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLEDTL-02A	252.00
Green	20 - 30 V AC/DC	0.12	Surface Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLEDTL-02G	252.00
Red	20 - 30 V AC/DC	0.12	Surface Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLEDTL-02R	252.00

Traffic Light LED Beacon - 85-280V AC / 35-380V DC



MOLEDTL-05R

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	85 - 280 V AC/DC	0.035	Surface Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLEDTL-05A	252.00
Green	85 - 280 V AC/DC	0.035	Surface Mount	IP65	2-way Fixed (non-removable) Terminal Block		MOLEDTL-05G	252.00
Red	85 - 280 V AC/DC	0.035	Surface Mount	IP65	2-way Fixed (non-removable) Terminal Block	I	MOLEDTL-05R	252.00

Traffic Light LED Beacon Double Assembly



MOLEDTL-02-RG

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Red & Green	85 - 280 V AC/DC	0.11	Surface Mount, Wall Mount	IP65	3-way Fixed (non-removable) Terminal Block		MOLEDTL-02-RG	818.00
Red & Green	85 - 280 V AC/DC	0.11	Surface Mount, Wall Mount	IP65	3-way Fixed (non-removable) Terminal Block		MOLEDTL-05-RG	982.00

Traffic Light LED Beacon Triple Assembly



MOLEDTL-02-RAG

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Red, Amber & Green	20 - 30 V AC/DC	0.24	Surface Mount, Wall Mount	IP65	4-way Fixed (non-removable) Terminal Block		MOLEDTL-02-RAG	1,069.00
Red, Amber & Green	85 - 280 V AC/DC	0.11	Surface Mount, Wall Mount	IP65	4-way Fixed (non-removable) Terminal Block		MOLEDTL-05-RAG	1,091.00

Xenon Beacons

Xenon beacons produce an extremely bright flash which is suitable for applications requiring supreme visibility. Available in a range of different voltage ratings, in Amber, Blue, Green and Red these beacons are capable of up to 5,000,000 flashes under the right conditions, making it the perfect choice for a high visibility solution for event signalling and other applications.

MOX80 Series - Xenon Beacons

The MOX80 xenon beacons are a flashing type beacon suitable for local signalling where a low cost solution is required. IP 67 rated with 60 fpm, 2 J light output across 120 degrees from the vertical axis.

Strobe Beacons - 10-100V DC/20-72V AC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	20 - 72V AC / 10 - 100V DC	0.11A,nom	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOX80-02A	115.00
Red	20 - 72V AC / 10 - 100V DC	0.11A,nom	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOX80-02R	115.00



MOX80-02A

Strobe Beacons - 115 / 230V AC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	115 / 230V AC	0.1A@115VAC, 0.05A@230VAC	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOX80-04A	115.00
Red	115 / 230V AC	0.1A@115VAC, 0.05A@230VAC	Mounting Plate (Included), Surface Mount	IP67	0.5m Built-in cable with flying leads		MOX80-04R	115.00



MOX80-04R

MOX195 Series - Xenon Beacons

The shallow base MOX195 series is suitable for applications requiring high light output (up to 5 J) in a compact housing. Available in a wide range of voltages, these beacons come with an IP 65 rating at 60 fpm making them suitable for a wide range of event signalling applications.

Strobe Beacons - 15-28V AC/DC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	15 - 28V AC / 15 - 28V DC	0.31A,nom	Conduit Mount, Wall Mount	IP65	4-way Fixed (non-removable) Terminal Block		MOX195-02WHA	241.00
Red	15 - 28V AC / 15 - 28V DC	0.31A,nom	Conduit Mount, Wall Mount	IP65	4-way Fixed (non-removable) Terminal Block		MOX195-02WHR	241.00
Green	15 - 28V AC / 15 - 28V DC	0.31A,nom	Conduit Mount, Wall Mount	IP65	4-way Fixed (non-removable) Terminal Block		MOX195-02WHG	241.00
Blue	15 - 28V AC / 15 - 28V DC	0.31A,nom	Conduit Mount, Wall Mount	IP65	4-way Fixed (non-removable) Terminal Block	I	MOX195-02WHB	241.00



MOX195-02WHA

Strobe Beacons - 180-250V AC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	180 - 265V AC	0.11A,nom	Conduit Mount, Wall Mount	IP65	3-way Fixed (non-removable) Terminal Block		MOX195-05WHA	241.00
Green	180 - 265V AC	0.11A,nom	Conduit Mount, Wall Mount	IP65	3-way Fixed (non-removable) Terminal Block		MOX195-05WHR	241.00
Green	180 - 265V AC	0.11A,nom	Conduit Mount, Wall Mount	IP65	3-way Fixed (non-removable) Terminal Block	I	MOX195-05WHG	241.00
Blue	180 - 265V AC	0.11A,nom	Conduit Mount, Wall Mount	IP65	3-way Fixed (non-removable) Terminal Block	I	MOX195-05WHB	241.00



MOX195-05WHA

MOX400/401 Series - Xenon Beacons

Where a robust and powerful signal is required the MOX400/401 series is the correct choice. With up to 10 J light output at 360 degrees from the vertical axis these beacons have an IP 65 rating and incorporate a Frensel lens designed to maximise light intensity. They also include two flashing options - 60 fpm or 90 fpm, as well as three point fixing suitable for surface or wall mounting (with additional bracket).

Strobe Beacons - 12 / 24V DC



MOX401-18A

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	12 / 24V DC	0.7A@24VDC, 1.45A@12VDC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	K	MOX401-18A	527.00
Blue	12 / 24V DC	0.7A@24VDC, 1.45A@12VDC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	K	MOX401-18B	527.00
Green	12 / 24V DC	0.7A@24VDC, 1.45A@12VDC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	K	MOX401-18G	527.00

Strobe Beacons - 230V AC



MOX400-22A

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	230V AC	0.06A,nom	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOX400-22A	492.00
Blue	230V AC	0.06A,nom	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	K	MOX400-22B	527.00
Green	230V AC	0.06A,nom	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	K	MOX400-22G	492.00
Red	230V AC	0.06A,nom	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOX400-22R	492.00

MOX500/501 Series - Xenon Beacons

The flagship beacon of the Moflash Xenon range, the MOX500/501 series has up to 24 J light output with 360 degrees visibility. IP 65 rated and suitable for surface/wall mounting these beacons are suitable for applications requiring the highest light output possible. The Bi-Lateral Current Limiter (supplied as standard), must be used on the DC installations

Strobe Beacons - 12 / 24V DC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Red	12 / 24V DC	2.3A@12VDC, 1.3A@24VDC	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOX501-18R	655.00

Strobe Beacons - 230V AC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Blue	230V AC	0.4A,nom	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	K	MOX500-22B	702.00



MOX500-22B

Filament Beacons

The Filament beacons are suitable for continual use, however can take longer for the lamp to fully illuminate than Xenon or LED beacons. These are available in static, flashing or rotating. Fully fitted with a UV resistant polycarbonate dome and ABS base.

MOR400 Series - Rotating filament beacons

Incorporating a parabolic reflector which continuously illuminates a maximum 60 watt filament lamp, the MOR400 series sweeps through 360 degrees and provides an extremely visible warning signal. With an IP 65 rating up to 160 rotations per minute the MOR400 series is suitable for surface, box or wall mounting. The MOR400 series also has 3 point fixing for added strength when used in harsh environments.

Rotating Filament Beacons - 240V AC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	230V AC	0.29	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOR400-05A	337.00
Blue	230V AC	0.29	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	K	MOR400-05B	337.00
Green	230V AC	0.29	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	K	MOR400-05G	337.00
Red	230V AC	0.29	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOR400-05R	337.00



MOR400-05A

Halogen Beacon

The Halogen beacons are suitable for continual use, however can take longer for the lamp to fully illuminate than Xenon or LED beacons. These are available in lower voltage ratings than other beacons in rotating type only. Fully fitted with a UV resistant polycarbonate dome and ABS base, and are generally brighter than filament beacons.

MOR401 Series - Rotating Halogen Beacons

Incorporating a parabolic reflector which continuously illuminates a maximum 70 watt halogen lamp, the MOR401 series sweeps through 360 degrees and provides an extremely visible warning signal. With an IP 65 rating up to 160 rotations per minute the MOR401 series is suitable for surface, box or wall mounting. The MOR401 series also has 3 point fixing for added strength when used in harsh environments.

Rotating Halogen Beacons - 24V DC

Colour	Un (V AC / V DC)	Ie (A)	Mounting	IP Rating	Connection	Item Type	Catalogue No.	\$AU
Amber	24V DC	3	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOR401-14A	337.00
Blue	24V DC	3	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	K	MOR401-14B	337.00
Green	24V DC	3	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block	K	MOR401-14G	337.00
Red	24V DC	3	Surface Mount, Wall Mount	IP65	2-way Fixed (non-re- movable) Terminal Block		MOR401-14R	337.00



MOR401-14A

Accessories for Beacons

The accessories include spare globes/lamps as well as lenses, brackets and cage guards.
Note: Steel Guards cannot be used in conjunction with any mounting brackets

Lenses/Domes

Item Description	Item Type	Catalogue No.	\$AU
Clear dome, suitable for Moflash 400/401/500/501 series	I	MO50068	96.00
Amber dome, suitable for Moflash 400/401/500/501 series		MO50064	105.00
Red dome, suitable for Moflash 400/401/500/501 series		MO50065	105.00
Blue dome, suitable for Moflash 400/401/500/501 series		MO50066	105.00
Green dome, suitable for Moflash 400/401/500/501 series		MO50067	105.00



MO50067

Brackets/Guards



MO50080

Item Description	Item Type	Catalogue No.	\$AU
Traffic light bracket with glands, length 118mm (Single module)	I	MO50124	69.00
Right angle wall mount bracket for beacons , suitable for Moflash 400/401 series		MO50004	76.00
Traffic light bracket with glands, length 227mm (Two module)	I	MO50125	76.00
Traffic light bracket with glands, length 336mm (Three modules)	I	MO50126	81.00
Right angle wall mount bracket, suitable for Moflash 100/125 series		MO50007	88.00
Plastic coated white steel guard, suitable for Moflash 200/201/400/401 series		MO50010	92.00
Plastic coated white steel guard, suitable for Moflash 125 series		MO50003	140.00
Anti vibration mount, suitable for Moflash 125/200/201 series	I	MO50080	149.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Beacons
RemLive Indication

- Super bright display providing operators a quick and easy method of proof of isolation in lock out-tag out procedures
- Fully IP 66 certified ensuring your switchboard maintains its overall ingress protection rating
- Using V0 rated plastics with CE, uL and CSA certifications providing local and international certification compliance
- Applicable to a broad range of voltages from 24-1000V DC and 24-690V AC with only one unit
- Low voltage to the door (3.8V DC) ensuring safety for operators
- Simple 30.5mm footprint makes installation and maintenance a breeze - simply knock out the hole, install the indicator and tighten the lock nut
- Low current consumption (max 50 mA) with resettable fuse link

REMLIVE positive isolation indicators are a convenient means of displaying feedback to operators on the status of electrical installations. The unit simply fits into a 30.5 mm cut out occupying very little panel space, while doing the actual voltage processing via a small unit placed in the board. By monitoring the voltage on L1, L2, L3 and neutral the LEDs on the panel unit will indicate isolation at all times and makes safety checks much easier. Voltage ratings are 24-1000V DC and 24-690 V AC.

Remlive Isolation Indicator - Comes with All Parts Required

Item Description	Item Type	Catalogue No.	\$AU
Remlive Positive Isolation Indicator, 24-690V AC, 24-1000V DC, 5-Core Cable 1.5m		RL-24i	1,252.00



RL-24i

Spare front display unit only

Item Description	Item Type	Catalogue No.	\$AU
Remlive Positive Isolation Indicator, Front Display Only		RL-24iD	700.00



RL-24iD

Stack Lights

Moflash Stack Lights



- Continuously rated
- LED long life
- Low current consumption
- Suitable for surface mounting
- 360° light output around the vertical axis
- Dustproof and Weatherproof

The LED Tower Light Module series is ideally suited for status indication in light commercial & industrial signalling applications where a local signal is required. These beacons have two selectable stages of alarm, flashing or continuous (static) mode, selectable by a slide switch on the PCB.

The LED TLM ECO range has been designed predominantly to offer a cost effective solution against more traditional incandescent types of lamps, whether through new plant and machinery installations or existing facility upgrades.

The design is modular and easily assembled. The units assemble using a twist lock system allowing for quick and easy assembly. All colour modules are supplied with quick fix terminations via an IDC lead that simply push into a male terminal to make the connection. Customer connections are made into the base unit only.

Audible modules are also available. Two ECO Sounder units (LED-TLM-AUD-02 & LED-TLM-AUD-04) offer up to 100dB with either a continuous or pulsed tone output. Both modules are rated at IP65.

An additional High Output Sounder unit is also available, offering up to 120dB and again with either a continuous or pulsed tone output and rated at IP65.

MOEDTLM 70mm Stack Lights

Light Modules

LED Modules



MOEDTLM-02G

Housing/Lens (colour)	Ie	Un (V AC / V DC)	Lamp Included (Y / N, type)	Lamp (mode / colour)	Item Type	Catalogue No.	\$AU
Black / Amber	0.045A@24VDC	/ 24	Yes, LED	Steady / Flashing, Amber lens		MOEDTLM-02A	99.00
Black / Red	0.045A@24VDC	/ 24	Yes, LED	Steady / Flashing, Red lens		MOEDTLM-02R	99.00
Black / Green	0.045A@24VDC	/ 24	Yes, LED	Steady / Flashing, Green lens		MOEDTLM-02G	123.00
Black / Blue	0.045A@24VDC	/ 24	Yes, LED	Steady / Flashing, Blue lens	I	MOEDTLM-02B	130.00
Black / Clear / Transparent	0.045A@24VDC	/ 24	Yes, LED	Steady / Flashing, Clear / Transparent lens	I	MOEDTLM-02W	130.00

Sounder Modules



MOEDTLM-AUD-02

Housing (colour)	Ie	Number of Tones	Item Type	Catalogue No.	\$AU
Black	0.055A@24VDC	2		MOEDTLM-AUD-02	79.00

Accessories

Item Description	Item Type	Catalogue No.	\$AU
Stack Light 'L' shaped mounting base, 10mm pole, bracket and cap	I	MOEDTLM-LCP10	70.00
Stack Light mounting base and cap		MOEDTLM-BC	79.00
Stack Light 'L' shaped mounting base, 100mm pole, bracket and cap	I	MOEDTLM-LCP100	82.00
Stack Light mounting base with 100mm pole, foot and cap		MOEDTLM-FCP100	85.00

Stack Lights

Allen-Bradley Stack Lights

- Available in a multitude of stackable colour configurations that allows you to provide multi-status indication of your application as required.
- Various sizes including 30,40,50,60 and 70mm diameter with either flashing or static modules that provides a versatile solution which can be adapted to your requirements.
- Possible to stack up to 5 high(856T 7 high) with the option of including a Piezo buzzer to combine visual and audio signalling for best effect.

The Allen-Bradley control tower stack lights provide multi-status indication of your application. They are available in three sizes with IP65(856T range IP66/67) ratings to meet the most challenging panel and on machine applications. There are a wide variety of light and sound functions, colours, voltages, and mounting options. These units are ordered in parts and can be stacked between 5-7 modules high.

Allen-Bradley 855E 50mm Tower Lights

The 855E tower lights have a 50mm diameter and are available in stacking configurations of 1 to 5 modules high. IP65 with "No Tools" lens assembly. Surface, vertical, quick release, or pole mounting with top-mounted terminal blocks on all bases.

Light Modules

Socket Mount LED

Housing (colour)	Un (V AC / V DC)	Lamp Included (Y / N, type)	Lamp (mode / colour)	Item Type	Catalogue No.	\$AU
Black	24 / 24	Yes, LED	Steady, Green lens		855E-24TL3	161.21
Black	24 / 24	Yes, LED	Steady, Red lens		855E-24TL4	161.21
Black	24 / 24	Yes, LED	Steady, Amber lens		855E-24TL5	161.21



855E-24TL3

Incandescent

Housing (colour)	Un (V AC / V DC)	Lamp Included (Y / N, type)	Lamp (mode / colour)	Item Type	Catalogue No.	\$AU
Black	24 / 24	Yes, Incandescent	Steady, White light, Green lens		855E-24DN3	54.73
Black	24 / 24	Yes, Incandescent	Steady, White light, Red lens		855E-24DN4	54.73
Black	24 / 24	Yes, Incandescent	Steady, White light, Amber lens		855E-24DN5	54.73



855E-24DN4

Strobing

Housing (colour)	Un (V AC / V DC)	Lamp Included (Y / N, type)	Lamp (mode / colour)	Item Type	Catalogue No.	\$AU
Black	/ 24	Yes, Strobe	, Red lens		855E-24BR4	191.63



855E-24BR4

Sound Modules

Piezo Type

Housing (colour)	Un (V AC / V DC)	Sounder (mode, level@1m)	Tones (qty)	Item Type	Catalogue No.	\$AU
Black	24 / 24	Continuous / Pulsed, 103dB(high) / 88dB(low)	1		855E-B24SA3	138.64



855E-B24SA3

Bases

Once you have chosen your stack light modules choose a base to suit. Available are pole, surface and vertical mount options.

Pole Mount



Item Description	Item Type	Catalogue No.	\$AU
Bulletin 855E, Mounting Base, Black Housing, 10 cm Aluminium Pole-Mount Base, Cap Included		855E-BPM10C	93.37

Surface Mount



Item Description	Item Type	Catalogue No.	\$AU
Bulletin 855E, Mounting Base, Black Housing, Surface-Mount with 1/2 inch NTP Threading, Cap Included		855E-BCBC	56.16

Vertical Mount



Item Description	Item Type	Catalogue No.	\$AU
Bulletin 855E, Mounting Base, Black Housing, Vertical Mount, Cap Included		855E-BVMC	64.52

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Stack Lights

Allen-Bradley Control Tower Stack Lights 70mm

- Up to 7 modules in a single stack
- Outstanding brightness with low power consumption
- Light modules with multi-function capabilities available in seven colours
- Choice of piezoelectric, transducer and recordable sound modules to complement visual indication
- Provides internal DIP switches to select module output or function
- Mounting bases feature push-in terminal connections for
- IP66/67 and Temperature range from -30°C to 70°C

The Allen-Bradley 856T Control Tower™ Stack Light system gives users maximum flexibility in meeting the widest range of applications with a reduced number of components. This system uses a modular design that incorporates brighter LED illumination and a broad offering of sound technologies. All signals in the system are 24 V AC/DC powered, which means that just three power modules can cover the entire system.



Product Selection

4

Select Top Sounder or Beacon



3

Select the Light Modules or In-Line Sounders



2

Select the Power Module



1

Select the Base Mounting Adaptor



K1303D_dSELN-S01

Allen-Bradley 856T 70mm Tower Lights

- 1. Base adaptor (lower portion of the base)** - provides mounting option required by the application.
- 2. Power Module** - adapts the incoming power to the modules in the stack.
- 3. Standard Light Modules** - all of them to work in 24V AC/DC in Steady operation mode.
- 4. Multi function Light Modules** - can operate as Steady, Flashing or Strobe (single- or dual-pulse).
- 5. Specialty Light Modules** - Rotating light module and RGB LED Multi-color available.
- 6. Sound Modules** - Multi-tone piezoelectric and multi-channel Transducer technologies.
- 7. Non stackable light modules (beacons)** - Steady/Flashing, Rotating, Strobe and RGB LED Multi-colour.

Pre-assembled Bases : Step 1 & 2 Base Mounting Adaptor and Power Module combination**24V AC/DC Base and Power module (Step 1 & 2)**

856T-B24SNCK

Item Description	Item Type	Catalogue No.	SAU
Pre-Assembled Base 24V AC/DC 1/2in NPT Surface Mount 7-Circuit With Cap	K	856T-B24SNCK	74.00
Pre-Assembled Base 24V AC/DC 1/2in NPT Pre-Installed Screws 7-Circuit With Cap	K	856T-B24SHCK	83.00
Pre-Assembled Base 24V AC/DC 10cm Aluminium Pole Mount 7-Circuit With Cap	K	856T-B24P10CK	111.00
Pre-Assembled Base 24V AC/DC 25cm Aluminium Pole Mount 7-Circuit With Cap	K	856T-B24P25CK	124.00
Pre-Assembled Base 24VAC/DC 40cm Aluminium Pole Mount 7-Circuit With Cap	K	856T-B24P40CK	144.00
Pre-Assembled Base 24V AC/DC 60cm Aluminium Pole Mount 7-Circuit With Cap	K	856T-B24P60CK	160.00
Pre-Assembled Base 24V AC/DC 10cm Threaded M20 Tube 7-Circuit With Cap	K	856T-B24T10CK	152.00
Pre-Assembled Base 24V AC/DC 25cm Threaded M20 Tube 7-Circuit With Cap	K	856T-B24T25CK	168.00
Pre-Assembled Base 24V AC/DC 1/2in NPT Vertical Mount 7-Circuit With Cap	K	856T-B24VMCK	92.00
Pre-Assembled Base 24V AC/DC 10cm Quick Release Base 7-Circuit With Cap	I	856T-B24Q10C	269.13
Pre-Assembled Base 24V AC/DC 25cm Quick Release Base 7-Circuit With Cap	I	856T-B24Q25C	284.48
Pre-Assembled Base 24V AC/DC 5PIN M12 M30/Thread 7-Circuit With Cap	I	856T-B24QD5C	113.58
Pre-Assembled Base 24V AC/DC 8PIN M12 M30 Thread 7-Circuit With Cap	I	856T-B24QD8C	155.54

120/240V AC Base and Power module (Step 1 & 2)

856T-BA3SNCK

Item description	Item Type	Catalogue No.	SAU
Pre-Assembled Base 120/240V AC 1/2in NPT Surface Mount 3-Circuits With Cap	K	856T-BA3SNCK	99.00
Pre-Assembled Base 120/240V AC 1/2in NPT Surface Mount 7-Circuits With Cap	K	856T-BA7SNCK	155.00
Pre-Assembled Base 120/240V AC 1/2in NPT Pre-Installed Screws 3-Circuits With Cap	K	856T-BA3SHCK	108.00
Pre-Assembled Base 120/240V AC 1/2in NPT Pre-Installed Screws 7-Circuits With Cap	K	856T-BA7SHCK	162.00
Pre-Assembled Base 120/240V AC 1/2in NPT Vertical Mount 3-Circuits With Cap	K	856T-BA3VMCK	118.00
Pre-Assembled Base 120/240V AC 1/2in NPT Vertical Mount 7-Circuits With Cap	K	856T-BA7VMCK	172.00
Pre-Assembled Base 120/240V AC 10cm Threaded M20 Tube 3-Circuits With Cap	K	856T-BA3T10CK	177.00
Pre-Assembled Base 120/240V AC 10cm Threaded M20 Tube 7-Circuits With Cap	K	856T-BA7T10CK	230.00
Pre-Assembled Base 120/240V AC 25cm Threaded M20 Tube 3-Circuits With Cap	K	856T-BA3T25CK	192.00
Pre-Assembled Base 120/240V AC 25cm Threaded M20 Tube 7-Circuits With Cap	K	856T-BA7T25CK	246.00
Pre-Assembled Base 120/240V AC 10cm Aluminium Pole Mount 3-Circuits With Cap	K	856T-BA3P10CK	135.00
Pre-Assembled Base 120/240V AC 10cm Aluminium Pole Mount 7-Circuits With Cap	K	856T-BA7P10CK	189.00
Pre-Assembled Base 120/240V AC 25cm Aluminium Pole Mount 3-Circuits With Cap	K	856T-BA3P25CK	149.00
Pre-Assembled Base 120/240V AC 25cm Aluminium Pole Mount 7-Circuits With Cap	K	856T-BA7P25CK	203.00
Pre-Assembled Base 120/240V AC 40cm Aluminium Pole Mount 3-Circuits With Cap	K	856T-BA3P40CK	170.00
Pre-Assembled Base 120/240V AC 40cm Aluminium Pole Mount 7-Circuits With Cap	K	856T-BA7P40CK	224.00
Pre-Assembled Base 120/240V AC 60cm Aluminium Pole Mount 3-Circuits With Cap	K	856T-BA3P60CK	183.00
Pre-Assembled Base 120/240V AC 60cm Aluminium Pole Mount 7-Circuits With Cap	K	856T-BA7P60CK	236.00

24V AC/DC Inline Multifunction LED Light modules : Step 3

Steady/Flashing/Strobe/Double Strobe Flashing 2Hz Strobe 1.4Hz. Function selected at module via DIP Switch
Multifunction LED light modules can perform Steady, Flashing and Strobe functions



856T-BB3

Item Description	Item Type	Catalogue No.	SAU
Stack Light Inline Multifunction Steady/Flashing/Strobing Green		856T-BB3	258.89
Stack Light Inline Multifunction Steady/Flashing/Strobing Red		856T-BB4	258.89
Stack Light Inline Multifunction Steady/Flashing/Strobing Amber		856T-BB5	258.89
Stack Light Inline Multifunction Steady/Flashing/Strobing Blue		856T-BB6	258.89
Stack Light Inline Multifunction Steady/Flashing/Strobing Clear		856T-BB7	258.89
Stack Light Inline Multifunction Steady/Flashing/Strobing Yellow	I	856T-BB8	258.89
Stack Light Inline Multifunction Steady/Flashing/Strobing Magenta	I	856T-BB9	258.89
Stack Light Inline Steady 7 Colour RGB 24V AC/DC	I	856T-BMC	423.63
Stack Light Top Mount Steady 7 Colour RGB Beacon 24V AC/DC	I	856T-BMB	258.89

24V AC/DC Light Modules : Step 3

Inline and Top mounted light modules are able to function as Steady/Flashing, Stobing, Rotating or Multifunction(combination of several functions).

Inline LED Steady Light Modules

Item Description	Item Type	Catalogue No.	\$AU
Stack Light Inline Steady LED 24V AC/DC Green	I	856T-BT3	177.03
Stack Light Inline Steady LED 24V AC/DC Red	I	856T-BT4	177.03
Stack Light Inline Steady LED 24V AC/DC Amber	I	856T-BT5	177.03
Stack Light Inline Steady LED 24V AC/DC Blue	I	856T-BT6	177.03
Stack Light Inline Steady LED 24V AC/DC Clear	I	856T-BT7	177.03
Stack Light Inline Steady LED 24V AC/DC Yellow	I	856T-BT8	177.03
Stack Light Inline Steady LED 24V AC/DC Magenta	I	856T-BT9	177.03



856T-BT8

Inline LED Rotating Light Modules

Item Description	Item Type	Catalogue No.	\$AU
Stack Light Inline Rotating LED 24V AC/DC Green	I	856T-BR3	271.17
Stack Light Inline Rotating LED 24V AC/DC Red	I	856T-BR4	271.17
Stack Light Inline Rotating LED 24V AC/DC Amber	I	856T-BR5	271.17
Stack Light Inline Rotating LED 24V AC/DC Blue	I	856T-BR6	271.17
Stack Light Inline Rotating LED 24V AC/DC Clear	I	856T-BR7	271.17
Stack Light Inline Rotating LED 24V AC/DC Yellow	I	856T-BR8	271.17



856T-BR6

Top Mount Beacon Shape Rotating LED Light Modules

Item Description	Item Type	Catalogue No.	\$AU
Stack Light Top Mount Rotating LED Beacon 24V AC/DC Red	I	856T-BRB4	258.89
Stack Light Top Mount Rotating LED Beacon 24V AC/DC Amber	I	856T-BRB5	258.89



856T-BRB4

Top Mount Beacon Shaped Steady/Flashing LED Light Modules

Item Description	Item Type	Catalogue No.	\$AU
Stack Light Top Mount Steady/Flashing Beacon 24V AC/DC Green	I	856T-BGB3	215.91
Stack Light Top Mount Steady/Flashing Beacon 24V AC/DC Red	I	856T-BGB4	215.91
Stack Light Top Mount Steady/Flashing Beacon 24V AC/DC Amber	I	856T-BGB5	215.91
Stack Light Top Mount Steady/Flashing Beacon 24V AC/DC Blue	I	856T-BGB6	215.91
Stack Light Top Mount Steady/Flashing Beacon 24V AC/DC Clear	I	856T-BGB7	215.91
Stack Light Top Mount Steady/Flashing Beacon 24V AC/DC Yellow	I	856T-BGB8	215.91



856T-BGB5

Top Mount Beacon Shape Strobing LED Light Module

Item Description	Item Type	Catalogue No.	\$AU
Stack Light Top Mount Strobing Beacon 24V AC/DC Red	I	856T-BSB4	233.31
Stack Light Top Mount Strobing Beacon 24V AC/DC Amber	I	856T-BSB5	233.31
Stack Light Top Mount Strobing Beacon 24V AC/DC Blue	I	856T-BSB6	233.31



856T-BSB4

24V AC/DC Sounders : Step 4

Sounder modules can be selected if required

Top Mount Transducer Style Sounder

Item Description	Operational Voltage, AC/DC	Number of Tones	Item Type	Catalogue No.	\$AU
Stack Light Top Mount TRANSDUCER Sounder 24V AC/DC 105dB	24 / 24	7	I	856T-BTR3	315.17



856T-BTR3



856T-BPL1

Piezo Sounder

Item Description	Operational Voltage, AC/DC	Number of Tones	Item Type	Catalogue No.	\$AU
Stack Light Inline Piezo Sounder 24V AC/DC 102dB	24 / 24	8		856T-BPL1	170.89
Stack Light Top Mount Piezo Sounder 24V AC/DC 105dB	24 / 24	8		856T-BP1	140.19



856T-BMASN

Base Mounting Adapters : Step 1

Item Description	Item Type	Catalogue No.	\$AU
Mounting Base Adaptor 1/2in NPT Surface Mount		856T-BMASN	22.72
Mounting Base Adaptor 1/2in NPT Pre-Installed Screws		856T-BMASH	31.00
Mounting Base Adaptor Vertical Mount		856T-BMAVM	41.34
Mounting Base Adaptor 10cm Aluminium Pole Mount		856T-BMAP10	59.96
Mounting Base Adaptor 25cm Aluminium Pole Mount		856T-BMAP25	74.40
Mounting Base Adaptor 40cm Aluminium Pole Mount		856T-BMAP40	96.08
Mounting Base Adaptor 60cm Aluminium Pole Mount	I	856T-BMAP60	110.52
Mounting Base Adaptor 10cm Threaded M20 Tube	I	856T-BMAT10	103.36
Mounting Base Adaptor 25cm Threaded M20 Tube	I	856T-BMAT25	119.72



856T-BAC7C

Power Module Adaptors : Step 2

Item Description	Item Type	Catalogue No.	\$AU
Power Module 70mm 24V AC/DC 7 Circuits With Cap		856T-B24C	51.68
Power Module 70mm 120/240V AC 3 Circuits With Cap		856T-BAC3C	77.56
Power Module 70mm 120/240V AC 7 Circuits With Cap		856T-BAC7C	134.05

Accessories



856T-ARNG

Item Description	Item Type	Catalogue No.	\$AU
Replacement Flat Gasket For Vertical Mount Base Adaptor	I	856T-AVFG	7.24
Replacement O RING For LIGHT/Power ModuleBase Adaptor	I	856T-ARNG	6.19
Replacement Flat Gasket For Surface Mount Base Adaptor	I	856T-ASFG	7.24
Replacement Black Cap		856T-ABCAP	10.34
Replacement Lens Diffuser KIT	I	856T-ADK	15.56
Replacement Screws For Pole Connection Boxes	I	856T-AJBS	22.72
Transition Module 855T DeviceNet Base to 856T Stack Lights		856T-ATM	56.90

Sounder Selection Guide

An example of how to choose your sounder



Buzzers, Hooters and Bells

Moflash Buzzers, Hooters and Bells



- Wide range including piezo-electric buzzers, motor driven hooters and mechanical bells to suit all requirements
- Piezo buzzers can be visually discreet and produce constant frequency output from 80 to 110dB dependent on model which is perfectly suited to simple signalling applications
- Motor driven hooters provide moderate dB output with an extremely recognizable sound
- Mechanical bells provide the traditional school bell sound in a sturdy construction that will stand the test of time

The Moflash Industrial Buzzer range offers either electro-mechanical buzzers or a heavy duty vibrating buzzer covering a wide range of outputs and voltages. The Hooters and Horns range include a manually operated ES hooter and two motor driven hooters, all producing the unique sound which is one of the most recognisable in signalling. Traditional type bells produce their distinctive sound by means of a hardened striker powered by a solenoid, repeatedly striking the inside edge of metal gong, producing a loud and clear ringing tone.

Electromechanical Bells

These electromechanical bells produce their distinctive sound by means of a hardened striker powered by a solenoid, repeatedly striking the inside edge of metal gong, producing a loud and clear ringing tone. They are suitable for light commercial / industrial use where intermittent audible signalling is required in a localised area.

- Hardened striker powered by solenoids to produce distinctive ringing sound
- Versatile mounting options for flat surfaces utilising four die cast holes or universal mounting plate and gasket supplied as standard
- Aesthetic traditional appearance with grey finish
- Available in 6" / 150mm diameter for most common requirements



A6BM-115AC

Un (V AC / V DC)	Sound Level (dB @1m)	In (A)	IP Rating	Housing (colour)	Item Type	Catalogue No.	\$AU
24V DC	100	0.08	IP44	Grey		W6024VDC	225.00
115V AC	100	0.06	IP44	Grey		W6115VAC	225.00
230V AC	100	0.03	IP44	Grey		W6230VAC	225.00
115V AC	106	0.11	IP66	Grey	I	A6BM-115AC	342.00
230V AC	106	0.06	IP66	Grey	I	A6BM-230AC	342.00
24V DC	106	0.4	IP66	Grey		A6BM-24DC	342.00
24V DC	106	0.4	IP66	Red		A6BM-24DCR	342.00

Buzzer

The most economical choice when it comes to sound signalling, NHP's range of buzzers covers all sound ratings from 80-110 dB. Available in panel and base mount styles in up to IP 65 protection rating.

KKTB Compact Buzzers

These buzzers come in a flat top and trunion top style and produce a rich, low frequency sound ideal for security, fire, automotive and industrial signalling. Easy to install with convenient fixing hole locations.



KL1049650

Un (V AC / V DC)	Sound Level (dB @1m)	In (A)	IP Rating	Item Type	Catalogue No.	\$AU
6 - 14V DC	80	0.03	IP34	I	KL1049646	74.00
10 - 28V DC	80	0.025	IP34		KL1049650	74.00

Buzzers, Hooters and Bells

Allen-Bradley Buzzers (855P Panel mount)

- Complete range of 22.5mm panel mount beacons and piezo electric sounders to provide simple signalling in standard mounting.
- Wide variety of colours available to cater to message requirements.
- Varying output sound intensities from 72-105dB depending on your application.

The panel mount signalling alarms include sounders, sounders with status indicator combination, as well as dual-circuit alarms. These alarms significantly reduce panel space requirements and installation time. These are also rear-securing and finger-safe, adding a high-level of environmental integrity to your panel.



855PB - Panel Mount Selectable Steady or Flashing LED Beacon

Allen-Bradley 855PB 22.5mm single hole mount beacons are the perfect solution where local indication is required and space is at a premium. With multiple voltage ranges available as well as the selection of flashing LED or continuous LED the 855P range is IP 65 rated.

Base / Lens (colour)	Un (V AC / V DC)	Base (mm)	Item Type	Catalogue No.	\$AU
Black / Green	24V AC / 24V DC	45	I	855PB-B24ME322	195.54
Black / Red	24V AC / 24V DC	45		855PB-B24ME422	195.54
Black / Green	24V AC / 24V DC	45	I	855PB-B24LE322	219.25
Black / Red	24V AC / 24V DC	45		855PB-B24LE422	219.25
Black / Amber	24V AC / 24V DC	45		855PB-B24LE522	219.25



855PB-B24ME322

855PC - Panel Mount Combined Sounder with LED Beacon

Base / Lens (colour)	Un (V AC / V DC)	ØBase (mm)	Sound Lvl (dB @1m)	Item Type	Catalogue No.	\$AU
Black / Red	240V AC	45	100	I	855PC-B20ME422	215.29
Black / Amber	240V AC	45	100	I	855PC-B20ME522	215.29
Black / Red	24V AC / 24V DC	45	100		855PC-B24ME422	215.29
Black / Amber	24V AC / 24V DC	45	100	I	855PC-B24ME522	215.29
Black / Amber	240V AC	65	105	I	855PC-B20LE522	273.11
Black / Red	240V AC	65	105	I	855PC-B20LE422	273.11
Black / Red	24V AC / 24V DC	65	105		855PC-B24LE422	273.11
Black / Amber	24V AC / 24V DC	65	105	I	855PC-B24LE522	273.11



855PC-B24LE422

855P - Panel Mount Sounder

Base (colour)	Un (V AC / V DC)	ØBase (mm)	Sound Lvl (100)	Item Type	Catalogue No.	\$AU
Black	240V AC /	45	100		855P-B20SE22	96.09
Black	240V AC /	45	100		855P-B30SE22	96.09
Black	240V AC /	45	100		855P-B20ME22	162.86
Black	240V AC /	45	100		855P-B30ME22	162.86
Black	240V AC /	45	100		855P-B30LE22	237.23



855P-B20ME22

Electronic Sounders

Klaxon Electronic Sounders



- Wide variety of sizes and mounting options to suit a range of applications
- Wide range of voltages and colours available
- Static, flashing or strobe and rotating versions to suit any scenario

The wide voltage range and choice of sound output means there is a model to suit almost any type of application, from fire alarms to general signalling. The electronic sounders include the specific Australian alert (tone 8) and evacuation (tone 9) tones conforming to AS1670.4 as part of up to 64 tones, providing a flexibility unparalleled in the signalling market. Orientation intended for ceiling or wall mounting only.

Nexus Sounders

The Nexus is a high output, low current consumption and multiple tone sounder designed for fire and industrial applications.

- The Nexus sounder is a high output, low current consumption sounder designed for fire and industrial applications
- Is available with a high output xenon beacon, ensuring a very effective audio-visual signal
- 105, 110 and 120dB units available as well as the Nexus Voice model which allows pre-recorded sounds to be played
- Different alarms can be activated with three separate stages (in the 105, stages only available in the DC models)

Klaxon Nexus 105 Sounder



KL980542

Item Description	Item Type	Catalogue No.	\$AU
Nexus 64 tone Electronic sounder, 10-60V DC, IP66, 105dB		KL980542	464.00
Nexus 64 tone Electronic sounder, 110/230V AC, IP66, 105dB		KL980548	562.00

Klaxon Nexus 105 Sounder Beacon



KL980620

Item Description	Item Type	Catalogue No.	\$AU
Nexus 64 tone Electronic sounder, with Clear LED beacon, 10-60V DC, IP66, 113dB	I	KL980658	676.00
Nexus 64 tone Electronic sounder, with Red LED beacon, 10-60V DC, IP66, 113dB		KL980620	676.00
Nexus 64 tone Electronic sounder, with Amber LED beacon, 10-60V DC, IP66, 113dB		KL980621	676.00
Nexus 64 tone Electronic sounder, with Red Xenon Beacon 110/240V AC, IP66, 113dB		KL980549	676.00
Nexus 64 tone Electronic sounder, with Amber Xenon Beacon 110/240V AC, IP66, 113dB		KL980550	676.00

Klaxon Nexus 110 Sounder



KL980557

Item Description	Item Type	Catalogue No.	\$AU
Nexus 64 tone Electronic sounder, 10-60V DC, IP66, 110dB		KL980554	615.00
Nexus 64 tone Electronic sounder, 24-48V AC, IP66, 110dB		KL980605	615.00
Nexus 64 tone Electronic sounder, 110 - 230V AC, IP66, 110dB		KL980557	615.00

Klaxon Nexus 110 Sounder Beacon



KL980622

Item Description	Item Type	Catalogue No.	\$AU
Nexus 64 tone Electronic sounder, with Clear LED Beacon, 10-60V DC, IP66, 116dB	I	KL980662	819.00
Nexus 64 tone Electronic sounder, with Red LED Beacon, 10-60V DC, IP66, 116dB		KL980622	819.00
Nexus 64 tone Electronic sounder, with Amber LED Beacon, 10-60V DC, IP66, 116dB		KL980634	819.00
Nexus 64 tone Electronic sounder, with Red Xenon Beacon 110/240V AC, IP66, 116dB		KL980558	819.00
Nexus 64 tone Electronic sounder, with Amber Xenon Beacon, 110/240V AC, IP66, 116dB		KL980559	819.00

Klaxon Nexus 120 Sounder



KL980545

Item Description	Item Type	Catalogue No.	\$AU
Nexus 64 tone Electronic sounder, with Red LED Beacon 10-60V DC, IP66, 120dB		KL980545	925.00
Nexus 64 tone Electronic sounder, with Red LED Beacon 110/240V AC, IP66, 120dB		KL980551	925.00

Klaxon Nexus 120 Sounder Beacon

Item Description	Item Type	Catalogue No.	\$AU
Nexus 64 tone Electronic sounder, with Clear LED Beacon 10-60V DC, IP66, 120dB	I	KL980638	1,078.00
Nexus 64 tone Electronic sounder, with Red LED Beacon 10-60V DC, IP66, 120dB		KL980635	1,078.00
Nexus 64 tone Electronic sounder, with Amber LED Beacon 10-60V DC, IP66, 120dB		KL980636	1,078.00
Nexus 64 tone Electronic sounder, with Red Xenon Beacon 110/240V AC, IP66, 120dB		KL980552	1,078.00
Nexus 64 tone Electronic sounder, with Amber Xenon Beacon 110/240V AC, IP66, 120dB		KL980553	1,078.00



KL980638

Klaxon Nexus Voice Sounder

Item Description	Item Type	Catalogue No.	\$AU
Nexus 64 tone Electronic sounder, with voice options, 24V DC, IP66 up to 110dB		KL980726	925.00
Nexus 64 tone Electronic sounder, with voice options, 240V AC, IP66 up to 110dB		KL980784	925.00



KL980784

Klaxon Nexus Voice Sounder Beacon

Item Description	Item Type	Catalogue No.	\$AU
Nexus 64 tone Electronic sounder, with voice options, 24V DC, IP66 with Red LED		KL980774	1,272.00
Nexus 64 tone Electronic sounder, with voice options, 24V DC, IP66 with Amber LED	I	KL980775	1,272.00
Nexus 64 tone Electronic sounder, with voice options, 110/230V AC, IP66 with Red Xenon	I	KL980785	1,272.00



KL980774

Sonos Sounders

The SONOS is a general purpose electronic sounder for fire and industrial applications. Twist and click operation of the dome allows easy access to base for cable entry for faster and more reliable installation.

- Faster and more reliable connections with the TimeSaver base.
- The sounder head 'twists and clicks' into the base on commissioning, avoiding the wiring and connection problems associated with traditional sounders.
- Weatherproof protection to IP65 and can be used in various indoor and outdoor applications

Klaxon Sonos Sounder

Item Description	Item Type	Catalogue No.	\$AU
Sonos Electronic Sounder, Red base 9-60V DC, 32 tones, 106dB, IP65		KL2494	190.00
Sonos Electronic Sounder, Red base 110/230V AC, 32 tones, 102dB, IP65		KL2492	253.00



KL2494

Klaxon Sonos Sounder Beacon

Item Description	Item Type	Catalogue No.	\$AU
Sonos Electronic Sounder, Amber LED Beacon, 17-60V DC, 32 tones, 106dB, IP65		KL2496A	411.00
Sonos Electronic Sounder, Red LED Beacon, 17-60V DC, 32 tones, 106dB, IP65		KL2496R	411.00
Sonos Electronic Sounder, Amber LED Beacon, 110/230V AC, 32 tones, 106dB, IP65		KL2497A	411.00
Sonos Electronic Sounder, Red LED Beacon, 110/230V AC, 32 tones, 106dB, IP65		KL2497R	411.00



KL2497A

Sirens

Wide Area Sirens - Motor Driven



- Rugged construction for use in all environments
- High IP rating (IP65) versions available

The wide area motor driven sirens provide a basic solution to address wide area mass alert signalling for all industrial, civil, commercial and environmental requirements by generating a high decibel output (constant frequency) sound. Motor driven sirens are manufactured from cast aluminium and steel for use in outdoor environments. They produce a powerful universally recognised emergency notification signal.

Super M

The Super M is a powerful motor driven siren which emits a very high sound output (at 1600 Hz). Designed for surface mounting, it has a separate mounting bracket which may be secured in position first to allow for easy installation. In addition, it comes pre-wired with 1 metre of cable. It has a weatherproof construction when wall mounted and is suitable for continuous use. The Super M is ideal for applications where a higher sound output is required such as in areas of high background noise.



KLXSM110

Un (V AC / V DC)	Sound Lvl (dB @1m)	Mounting	Sound (mode)	Material	IP Rating	Item Type	Catalogue No.	\$AU
110V AC	127	Wall Mount	Continuous	ABS	IP21		KLXSM110	1,078.00
230V AC	127	Wall Mount	Continuous	ABS	IP21		KLXSM240	1,078.00

Duplo

The Duplo is a powerful motor driven siren which produces a very high sound output (at 1600 Hz) despite its physically compact construction. With its weatherproof design, the Duplo can be used both indoors and outdoors for general safety warning. Due to its rugged construction, the Duplo can be used in arduous conditions including mining and quarrying applications.



KL2214

Un (V AC / V DC)	Sound Lvl (dB @1m)	Mounting	Sound (mode)	Material	IP Rating	Item Type	Catalogue No.	\$AU
230V AC	126	Wall Mount	Alternating; 15min on / 10min off	Aluminium	IP65		KL2214	1,879.00

Mono 72

The Mono 72 is a powerful motor driven siren which produces a clear, high output siren sound at 1800 Hz. With its weatherproof design, the Mono 72 can be used both indoors and outdoors for general safety warning. Due to its rugged construction, the Mono 72 can be used in arduous conditions including mining and quarrying applications.



KL2108

Un (V AC / V DC)	Sound Lvl (dB @1m)	Mounting	Sound (mode)	Material	IP Rating	Item Type	Catalogue No.	\$AU
110V AC	120	Wall Mount	Continuous	Aluminium	IP65		KL2105	660.00
230V AC	120	Wall Mount	Continuous	Aluminium	IP65		KL2108	660.00

S04

The S04 is a weatherproof motor driven siren designed for vertical mounting and designed for outdoor warning (900 Hz) over small/medium areas. Manufactured from cast aluminium, it is rugged in construction, has a continuous rating and is built for a long life outdoors.



KL504240

Un (V AC / V DC)	Sound Lvl (dB @1m)	Mounting	Sound (mode)	Material	IP Rating	Item Type	Catalogue No.	\$AU
230V AC	125	Wall Mount	Continuous	Aluminium	IP55		KL504240	1,879.00

Mini Mono P

The Mini Mono P is a small motor driven siren designed for fire and general alarm signalling (1000 Hz). Designed for ease of mounting, it has a separate mounting plate which connects to the main body with a bayonet locking action and has a locking screw for additional security.

Un (V AC / V DC)	Sound Lvl (dB @1m)	Mounting	Sound (mode)	Material	IP Rating	Item Type	Catalogue No.	\$AU
110 / 230V AC	105	Wall Mount	Continuous	ABS	IP44		KL2303	396.00



KL2303

GP Series

The GP series sirens provide a low frequency traditional air raid sound.

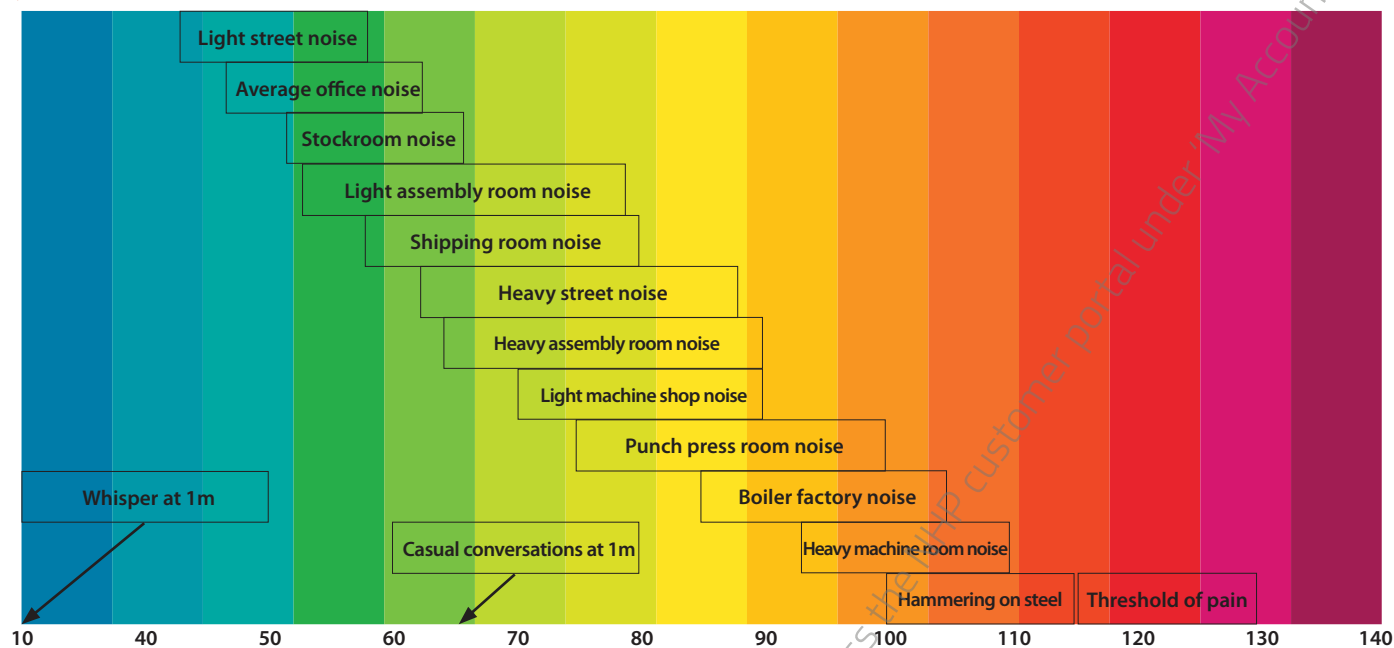
- Audibility range from 127dB to 145dB at 1m
- Cast aluminium and steel construction
- Omni-directional sound coverage

Un (V AC / V DC)	Sound Lvl (dB @1m)	Mounting	Sound (mode)	Material	IP Rating	Item Type	Catalogue No.	\$AU
415V AC	135	Surface Mount	Continuous	Aluminium	IP55	I	GP6	22,433.00
415V AC	145	Surface Mount	Continuous	Aluminium	IP55	I	GP12	54,212.00



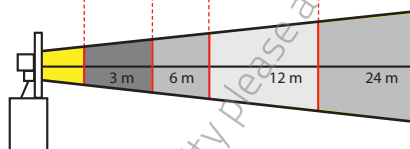
GP6

Typical Decibel Range for Sound Indication



X dB @ Y metres = (X-6) dB @ 2 Y metres

(Double the distance,
subtract six dB)



Decibel Level at Distance From Source

Distance from Source (m)		Decibel Level (dB) at Source																											
	1	65	70	75	80	85	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130		
	2	59	64	69	74	79	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124		
																					108	110	112	114	116	118	120		
	5	51	56	61	66	71	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116		
																					98	100	102	104	106	108	110		
	20	51	56	61	66	71	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116		
																					88	90	92	94	96	98	100		
	50	=	63	41	46	51	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96		
																					78	80	82	84	86	88	90		
200				=	39	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84			
																				68	70	72	74	76	78	80			
500						=	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76			
																				58	60	62	64	66	68	70			
2000										=	=	=	38	40	42	44	46	48	50	52	54	56	58	60	62	64			
																				48	50	52	54	56	58	60			
5000																=	=	38	40	42	44	46	48	50	52	54	56		

Frequency Hz / Attenuation -dB (A)

0 - 500 Hz	- 0 dB (A)
500 - 1000 Hz	- 3 dB (A)
1000 - 2000 Hz	- 5 dB (A)
2000 - 4000 Hz	- 9 dB (A)

Deduct the dB from the above data depending on audio / frequency of the sounder.



300 Hz - 500 Hz



1000 Hz - 3000 Hz

K2201D dCHRT-S01

Hazardous Area Equipment

Hazardous Area Lighting

Hazardous Area Linear Lights	952
------------------------------	-----

Hazardous Area Intrinsically Safe Isolators and I/O Systems

Hazardous Area Intrinsically Safe Isolators	953
---	-----

Hazardous Area Plugs, Sockets and Isolators

Hazardous Area Plugs and Sockets	956
----------------------------------	-----

Hazardous Area Isolators	957
--------------------------	-----

Hazardous Area Field Switching and Sensors

Hazardous Area Field Switches and Sensors	958
---	-----

Hazardous Area Signalling Devices

Hazardous Area Sight	965
----------------------	-----

Hazardous Area Sound	968
----------------------	-----

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Hazardous Area Linear Lights

EXEL Fluorescent Linear Lights



- Body in black antistatic GRP (Glass Reinforced Polyester)
- 4 x M20 Cable entries (3 x IECEx certified plugs supplied)
- Through wiring
- Earth continuity plates on both ends
- Vibration resistant
- EOL ballast (End Of Life)
- Internal white powder coated aluminium frame
- Electronic ballast and safety switch
- Suitable for chemically aggressive and extreme environments

Zones 1, 2 & 21, 22
IECEX CES 07.0001

Ex ed IIC T5
Ex tb T95°C
IP 66

Ambient temp. / Temp. class / Max surface temp.
-40°C + 55°C / T5 / 95°C

Product Selection

Brackets selected as accessory, refer to Linear Light Fitting Mounting Brackets
Fluorescent lamps not included.

EXEL Accessories

EXEL spare parts and accessories which include electronic ballasts, inverters and battery packs etc are available on request.



B18363

Item Description	Item Type	Catalogue No.	\$AU
EXEN-EXEL Transparent Diffuser 18W	I	B18363	120.00

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Hazardous Area Intrinsically Safe Isolators

GM International Intrinsically Safe Isolators

- Wide range of digital and analogue I/Os
- More than 25 modules suitable for SIL 3 applications according to IEC 61508, IEC 61511
- SMD manufacturing and complete absence of electrolytic capacitors ensures minimum 20 years lifetime
- High signal transfer accuracy and repeatability
- Installation in Zone 2
- High packing density
- Three port galvanic isolation to eliminate noise, ground loop problems and to provide intrinsic safety without a high integrity safety earth connection
- Line fault alarm detects open or short circuit of field cables
- Certified for offshore and marine applications

Zones 0, 1, 2, 20, 21, 22

D1000 Series

IECEx BVS 07.0027X

D5000 Series

IECEx BVS 10.0072X

Ambient temperature

-40°C to +60 / +70 °C

The entire D1000 and D5000 series are IECEx certified and approved for Maritime applications by DNV and KR. Multiple Output configurations allow for a wide range of applications, interfacing the majority of devices on the market. Majority of iS Isolators in the range are DIP switch configurability for easy field setup. Software Configurable isolators, e.g the 8 channel Digital Input Module D5231 offers Modbus Output which gives the possibility to read and configure the barrier remotely.

Contact NHP for assistance with:

- Matching Devices to Associated Apparatus
- Assessment of Intrinsically Safe Systems
- Entity Calculations
- Ex Loop Safety Parameters Verification

D1000 Series

The GM International D1000 series Intrinsically safe isolators have a wide range of functions, suitable for multiple applications from analogue in and out, digital in and out, temperature converters and trip converters, serial converters, load cell, encoders and more. D1000 Modules provide the most simple and cost-effective means of implementing Intrinsic Safety into your Hazardous Areas / Locations applications.

If Bus mounting is required, please contact NHP for quote.

Digital Input

D1000 Series Digital input isolators.

Channels	Hazardous Area (signal)	Safe Area (signal)	Ue (V AC min - max)	Ue (V DC min - max)	Safety Integrity Level (SIL / SIL CL)	Item Type	Catalogue No.	\$AU
2	Voltage Free Proximity Switch	CO Relay, Isolated		20 - 30	SIL 2		D1030D	526.00
2	Voltage Free Proximity Switch	CO Relay, Isolated		10 - 30	SIL 2	I	D1031D	526.00
2	Voltage Free Proximity Switch	CO Relay, Isolated	85 - 250		SIL 2	I	D1130D	585.00



D1030D

Digital Outputs

D1000 Series Digital output driver isolators.

Channels	Hazardous Area (signal)	Safe Area (signal)	Ue (V DC min - max)	Safety Integrity Level (SIL / SIL CL)	Item Type	Catalogue No.	\$AU
4	22 mA at 14.5 V (per channel)	Voltage Free	21.5 - 30	SIL 3	I	D1042Q	640.00
4	22 mA at 9.8 V (per channel)	Voltage Free	21.5 - 30	SIL 3	I	D1043Q	640.00



D1042Q

D1000 Series Load Cell Isolators

D1000 series load cell isolators.



D1063S

Channels	Hazardous Area (signal)	Safe Area (signal)	Ue (V DC min - max)	Item Type	Catalogue No.	\$AU
1	Resistance	Resistance	20 - 30		D1063S	1,675.00
1	Resistance	Current: Single-Ended, Isolated Voltage: Single-Ended, Isolated	20 - 30		D1064S	2,088.00

D1000 Series Serial Converters

D1000 series serial converters.



D1061S

Item Description	Ue (V DC min - max)	Item Type	Catalogue No.	\$AU
The D1061S is used to separate Intrinsically Safe RS 422 / RS 485 equipment located in Hazardous Location from a RS 422 / RS 485 / RS 232 controller located in Safe Area.	20 - 30		D1061S	2,088.00

Signal Converter and Trip Amplifier



D1054S

Channels	Hazardous Area (signal)	Safe Area (signal)	Ue (V DC min - max)	Safety Integrity Level (SIL / SIL CL)	Item Type	Catalogue No.	\$AU
1	Current: Single-Ended, Isolated	CO Relay, Isolated	10 - 30	SIL 2	I	D1054S	1,631.00

Power Supplies



PSD1220-098

Item Description	Item Type	Catalogue No.	\$AU
Ex POWER SUPPLY 24V 20A REMOVABLE TERMINAL SIL 3	I	PSD1220-098	4,286.00

D1000 Series Accessories

D1000 Series Accessories and replacement parts.



MOR017

Item Description	Item Type	Catalogue No.	\$AU
D1000 Terminal Block Male For Bus Power Horizontal Output	I	MOR017	20.00
D1000 Terminal Block Female For Bus Power Horizontal Output	I	MOR022	20.00
Cold Junction Compensator For THCS Inputs	I	OPT1091	59.00
D1000 Kit For Bus Mounting 1 Required For EACH Section	I	OPT1096	122.00
PC Adapter For D1000 Programmable Units	I	PPC1092	567.00
Pocket Portable Configurator For GMI D1000 Series	I	PPC1090	597.00

D5000 Series

The GM International D5000 series Intrinsically safe isolators have a wide range of functions, suitable for multiple applications from analogue in and out, digital in and out, temperature converters and trip converters and encoders. With more than 25 modules suitable for SIL 3 applications according to IEC 61508, IEC 61511. Each module features an independent power supply circuit for each channel, meaning dual channel units are equivalent to two single units because of the absence of common circuitry.

Analogue Input

D5000 series analogue input isolators.



D5014S

Channels	Hazardous Area (signal)	Safe Area (signal)	Ue (V AC min - max)	Ue (V DC min - max)	Safety Integrity Level (SIL / SIL CL)	Item Type	Catalogue No.	\$AU
30	Current: Single-Ended, Isolated	Current: Single-Ended, Isolated	30 - 30	30 - 30	SIL 3	I	D5014S	581.00
2	Current: Single-Ended, Isolated	Current: Single-Ended, Isolated		18 - 30	SIL 3		D5014D	1,008.00
4	Current: Single-Ended, Isolated	Current: Single-Ended, Isolated		20 - 30	SIL 2	I	D5212Q	1,352.00

Analogue Outputs

D5000 series analogue output isolators.

Channels	Hazardous Area (signal)	Safe Area (signal)	Ue (V DC min - max)	Safety Integrity Level (SIL / SIL CL)	Item Type	Catalogue No.	\$AU
2	Current: Single-Ended, Isolated	Current: Single-Ended, Isolated	18 - 30	SIL 2	I	D5020D	1,162.00



D5020D

Digital Inputs

D5000 series digital input isolators.

Channels	Hazardous Area (signal)	Safe Area (signal)	Ue (V DC min - max)	Safety Integrity Level (SIL / SIL CL)	Item Type	Catalogue No.	\$AU
1	Voltage Free Proximity Switch	CO Relay, Isolated	18 - 30	SIL 3	I	D5030S	403.00
2	Voltage Free Proximity Switch	CO Relay, Isolated	18 - 30	SIL 3		D5030D	605.00
8	Voltage Free Proximity Switch	Open-Collector	18 - 30	SIL 2		D5231E	1,098.00



D5030S

Digital Output Drivers

D5000 series digital output drivers.

Channels	Hazardous Area (signal)	Safe Area (signal)	Ue (V DC min - max)	Safety Integrity Level (SIL / SIL CL)	Item Type	Catalogue No.	\$AU
1	CO Relay (I & V Limited)	Voltage Free	20 - 30	SIL 3		D5049S	563.00
3	CO Relay (I & V Limited)	Voltage Free	21.5 - 30	SIL 2	I	D5240T	1,216.00



D5240T

Temperature and Trip Converters

D5000 series temperature and trip converters.

Channels	Ue (V DC min - max)	Safety Integrity Level (SIL / SIL CL)	Item Type	Catalogue No.	\$AU
1	18 - 30	SIL 3	I	D5072S087	1,156.00
2	18 - 30	SIL 2	I	D5072D	1,455.00



D5072S087

D5000 Series Accessories

D5000 Series Accessories and replacement parts.

Item Description	Item Type	Catalogue No.	\$AU
D5000 22mm Bus Connector-1 Required For Each Module	I	JDFT050	32.00
D5000 12mm Bus Connector-1 Required For Each Module	I	JDFT049	38.00
D5000 Kit For Bus Mounting-1 Required For Each Section	I	OPT5096	50.00
PC Adapter For D5000 Programmable Units	I	PPC5092	538.00



JDFT050

Hazardous Area Plugs and Sockets

Plugs and Sockets



Zones 1, 2 & 21, 22
IECEx CES 11.0011X
Ex d IIC T5
Ex tD A21
IP 66

PY Series

The PY series of socket outlets are rated up to 32A, 690V AC with either 3, 4 or 5 pin configuration. The socket has an integral switch in the base and is enclosed in a flameproof enclosure.

PY Socket Kit with Cable Entry



PY216BM25

Ie (A,max)	Poles	Ue (V min - max)	Cable Entry	Weight (kg)	Item Type	Catalogue No.	\$AU
16	2P + E	200 - 250	2 x M20	1.7	K	PY216BM20	743.00
16	2P + E	200 - 250	1 x M25	1.7	K	PY216BM25	743.00
32	3P + E	380 - 415	1 x M25	2.1	K	PY332RM25	939.00
32	3P + E	380 - 415	1 x M32	2.1	K	PY332RM32	939.00
32	3P + N + E	380 - 415	1 x M32	2.1	K	PY432RM32	1,145.00

SPY Series

The PY series of socket outlets and SPY series of plugs are rated up to 32A, 690V AC with either 3, 4 or 5 pin configuration. The socket has an integral switch in the base and is enclosed in a flameproof enclosure. The integral switch is operated by inserting the plug into the socket and rotating the plug to the ON position of switch. The plug may not be disengaged while the switch is activated (ON position) due to a locking lug arrangement.

- Explosion-proof plugs suitable for PY series sockets.
- Because of special design, they can be used with industrial sockets.
- Body in Low copper content aluminium alloy.
- Stainless steel screws.
- Nickel-plated brass pins.
- Ral 7035 epoxy coating.

SPY Plug Kit with Cable Entry



SPY216BM20

Ie (A,max)	Poles	Ue (V min - max)	Cable Entry	Weight (kg)	Item Type	Catalogue No.	\$AU
16	2P + E	200 - 250	1 x M20	0.3	K	SPY216BM20	261.00
16	2P + E	200 - 250	1 x M25	0.3	K	SPY216BM25	261.00
32	3P + E	380 - 415	1 x M25	0.6	K	SPY332RM25	353.00
32	3P + N + E	380 - 415	1 x M32	0.6	K	SPY432RM32	469.00

Hazardous Area Isolators

Rotary Switches

Zones 1, 2 & 21, 22

IECEX CES 17.0001X

Ex db I Mb,
Ex db IIC T6, T5 Gb
Ex tb III C T85°C, T100°C Db
IP66



CSC Series - 16A

The CSC Series Isolators are single body enclosures and are intended for flameproof (Ex d) and dust ignition proof (Ex tD) applications. The CSC series enclosures are fitted with a single rotary switch operator located in the cover and have the ability to fit a lock out device (LOTO).

Operator (type)	In (A)	#Poles	Cable Entry (Top / Bottom)	Weight (kg)	Item Type	Catalogue No.	\$AU
Off/On Switch (Isolator)	16	4	M20 / M20	0.85	K	CSC416M20	514.00
Off/On Switch (Isolator)	16	4	M25 / M25	0.85	K	CSC416M25	514.00



CSC416M25

EFSCO Series - 25/63A

The EFSCO Series Isolators are single body enclosures and are intended for flameproof (Ex d) and dust ignition proof (Ex tD) applications. The EFSCO series enclosures are fitted with a single rotary switch operator, with option from 25 A to 63 A and all isolators have the ability to fit a lock out device (LOTO).

- The EFSCO series isolators, switches and changeover switches are rotary type 25, 50 and 63 A models with control handle on the cover
- The construction materials are suitable for chemically aggressive environments, also for offshore
- Supplied with adapters for metric entries M20, M25 and M32 only when purchased as the corresponding kit item
- Body and cover in low copper content aluminium alloy
- Frontal aluminium handle
- Cover fitted with stainless steel closing screw

Operator (type)	In (A)	#Poles	Cable Entry (Top / Bottom)	Weight (kg)	Item Type	Catalogue No.	\$AU
Off/On Switch (Isolator)	25	4	M20 / M20	1.18	K	EFSCO24M20	620.00
Off/On Switch (Isolator)	25	4	M25 / M25	1.18	K	EFSCO24M25	620.00
Off/On Switch (Isolator)	25	4	M32 / M32	1.18	K	EFSCO24M32	620.00
Off/On Switch (Isolator)	63	3	M25 / M25	1.4	K	EFSCO63M25	1,205.00
Changeover Switch without Off	63	1	M25 / M25	1.4	K	EFSCO66M25	1,330.00
Changeover Switch with Off	25	2	M20 / M20	1.2	K	EFSCO244M20	650.00



EFSCO24M25

Hazardous Area Field Switches and Sensors

Steute Limit Switches and Sensors

Ex Limit Switches

Ex 14 series

- Ex zone 1, 2, 21 and 22
- Thermoplastic enclosure
- Double insulated
- Slow action, change-over contact or 2 NC contacts with double break
- Suitable for in-line mounting
- With pre-wired cable
- Gold-plated contacts available on request
- With latching element (On-/Off principle) available on request



Contacts (configuration)	Material, Body / Housing (material)	IP Rating	Connection (type)	H x W x D (mm)	Operator (type)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Slow Action	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	IP65	Built-in cable with flying leads, 5m	71 x 30 x 16	Roller plunger	I	EEX14R1O1S5M	390.00
1 NO + 1 NC EB 1st Contact, Slow Action	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	IP65	Built-in cable with flying leads, 5m	68 x 30 x 16	Rocker Lever	I	EEX14D1O1S5M	470.00
1 NO + 1 NC EB 1st Contact, Slow Action	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	IP65	Built-in cable with flying leads, 5m	157 x 30 x 16	Adjustable rocker lever	I	EEX14DS1O1S5M	481.00
1 NO + 1 NC EB 1st Contact, Slow Action	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	IP65	Built-in cable with flying leads, 5m	58.5 x 30 x 16	Adjustable rocker lever	I	EEXM14DS1O1S5M	458.00

Ex ES 97 Series



Contacts (configuration)	Material, Body / Housing (material)	IP Rating	Connection (type)	H x W x D (mm)	Operator (type)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Snap Action	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	IP66, IP67, IP69	M20	122 x 31 x 32	Short Non-adjustable roller lever	I	EEXEM97D1160C	1,208.00
1 NO + 1 NC EB 1st Contact, Slow Action	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	IP66, IP67, IP69	M20	122 x 31 x 32	Short Non-adjustable roller lever	I	EEXES97D1160C	1,208.00
1 NO + 1 NC EB 1st Contact, Slow Action	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	IP66, IP67, IP69	M20	196 x 31 x 32	Rod Lever	I	EEXES97DS1160C	1,294.00
1 NO + 1 NC EB 1st Contact, Snap Action	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	IP66, IP67, IP69	M20	205.5 x 31 x 32	Wobble stick / spring rod	I	EEXEM97TK1160C	1,294.00
1 NO + 1 NC EB 1st Contact, Snap Action	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	IP66, IP67, IP69	M20	122 x 31 x 32	Top push roller plunger (booted)	I	EEX EM97 R 11 60C	1,368.00

Ex Solenoid Interlocks

- Aluminium/ steel enclosure
- 2 x M20 cable entries
- Two Ex switch inserts in one enclosure
- IP 67

Ex AZM 415 Series

- Ex zone 1, 2, 21 and 22
- Two Ex switch inserts in one enclosure
- Spring-to-lock or power-to-lock principle
- Problem-free opening of stressed doors by means of bell-crank system
- High holding force 3500 N
- Ball catch
- Wiring compartment

Note: EEX AZM415 20/2S R FE is unlocked with an M5 Triangular key

Actuator (action)	Holding Force (N)	Secondary Release (Y/N)	Contacts	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
Power to Lock	3500	No	2 NO + 2 NC, Slow Action, Double Break, Positively Driven	Screw Terminal(s)	Aluminium, Die-Cast	I	EEX AZM415 20/2S A	4,767.00
Power to Release	3500	No	2 NO + 2 NC, Slow Action,	Screw Terminal(s)	Aluminium, Die-Cast	I	EEX AZM415 20/2S R	4,767.00



EEX AZM415 20/2S A

Ex STM 295 Series

- Ex zone 1, 2, 21 and 22
- Thermoplastic enclosure
- Double insulated
- Two Ex switch inserts in one enclosure
- Spring-to-lock or power-to-lock principle
- Holding force 1000 N
- Wiring compartment

Actuator (action)	Holding Force (N)	Secondary Release (Y/N)	Contacts	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
Power to Lock	1000	No	2 NO + 2 NC, Slow Action,	Screw Terminal(s)	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	I	EEX STM 295 20/2S-A-3	1,819.00
Power to Release	1000	No	2 NO + 2 NC, Slow Action,	Screw Terminal(s)	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	I	EEX STM 295 20/2S-R-3	2,284.00



EEX STM 295 20/2S-A-3

Ex Belt Drift Switches

Ex belt alignment switches are suitable for applications with handling equipment. Ex belt alignment switches are actuated when the conveyor belt becomes misaligned. Depending on the plant arrangements, this signal can either be used to switch the equipment off or to provide automatic correction of the belt alignment. Thus, they should be installed at both sides of the conveyor belt close to the deflection and drive pulleys.

Ex ZS 73 SR Series

- Ex zone 1, 2, 21 and 22
- Metal enclosure. Aluminium die-cast enamel finish
- 2 contacts
- Cable
- With latching and release by push-button possible
- Belt-alignment roller made of stainless steel 1.4104

Description	Item Type	Catalogue No.	\$AU
Ex belt Alignment switches IP65 Mid-Position-Centered 1NO/1NC 3 meters	I	EEXZS73SR1S1OUE3M	2,284.00



EEXZS73SR1S1OUE3M

Ex ES 98 Series

Item Description	Item Type	Catalogue No.	\$AU
Ex Belt Alignment Switch 2NC	I	EEX ES 98 SR-02	1,849.00
Ex Belt Alignment Switch 1NO+1NC	I	EEX ES 98 SR-11	1,849.00



EEX ES 98 SR-02

Ex Foot Switches

Ex GF Series

Ex GF foot switches are slow action types Zb, 1 N/C plus 1 N/O contact with double break, positive break N/C contacts. The enclosure is made from aluminium die-cast with an enamel finish in RAL 5011.

- Ex zone 1, 2, 21 and 22
- 1-pedal type
- Metal enclosure
- Without protective shield
- Max. 2 contacts
- Low pedal height
- With pre-wired cable, cable length 3 m



EEX GF 10/15

Guarded (Y/N)	Contacts	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
No	1 NO + 1 NC EB 1st Contact, Slow Action, Double Break, Positively Driven	, 3m	Aluminium, Die-Cast	I	EEX GF 10/15	1,041.00

Ex GFS Series

Ex GFS foot switches are slow action types Zb, 1 N/C plus 1 N/O contact or 2 N/C plus 2 N/O contacts with double break, positive break N/C contacts. The enclosure is made from aluminium die-cast with an enamel finish in RAL 5011.

- Ex zone 1, 2, 21 and 22
- 1-pedal type
- Metal enclosure
- With protective shield
- Max. 4 contacts
- Low pedal height
- With pre-wired cable, cable length 3 m



EEX GFS 20/25

Guarded (Y/N)	Contacts	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
Yes	1 NO + 1 NC EB 1st Contact, Slow Action, Double Break, Positively Driven	Built-in cable with flying leads, 3m	Aluminium, Die-Cast		EEX GFS 10/15	1,176.00
Yes	2 NO + 2 NC, Slow Action, Double Break, Positively Driven	Built-in cable with flying leads, 3m	Aluminium, Die-Cast	I	EEX GFS 20/25	2,503.00

Ex Safety Switches

These Ex safety switches with a separate actuator are suitable for sliding, hinged and particularly removable safety guards which need to be closed to ensure the necessary operational safety. They are also suitable for mounting on profile sections and retrofitting on existing equipment.

- Suitable for Zone 1, 2, 21 and 22
- Actuation through separate actuator
- Switching element is not physically connected to the actuator
- Thermoplastic, Aluminium, Zinc die cast or steel bodies
- Solenoid switches available
- IP 65/67

Ex ST 14 Series

The switching element of this slimline style switch is not physically connected to the actuator but functionally brought together or separated by switching. When the switch is actuated, the actuator is separated from the base unit. During this process, the N/C contacts of the safety switch are positively opened and the N/O contacts closed. A wide range of coded actuators, also suitable for small radii, is available for the Ex door contacts with positive break.

- Thermoplastic enclosure
- Double insulation
- Slow action, double-break changeover contact
- Slow action with overlapping contacts available
- Pre-wired cable, 2 metre (bottom)

Ex ST 14 Switches

Contacts	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Slow Action, Double Break, Positively Driven	Built-in cable with flying leads, 5m	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	I	EEX ST 14 10/15 5M	611.00
2 NC, Slow Action, Double Break, Positively Driven	Built-in cable with flying leads, 5m	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	I	EEX ST 14 20 5M	768.00



EEX ST 14 10/15 5M

Ex AZ 16 Series

The Ex AZ 16 series is constructed using glass-fibre reinforced, shock-proof thermoplastic, self-extinguishing UL 94-V0. The switching system is slow action, positive break N/C contacts. Switching elements consist of change-over contact or 2 N/C plus 1 N/O contact with double break Zb, galvanically separated contact bridges.

- Ex zone 1, 2, 21 and 22
- Thermoplastic enclosure
- Multiple coding
- Slow action, change-over contact or 2 NC/1 NO contact with double break
- With wiring compartment or pre-wired cable

EX AZ 16 Switches

Contacts (Contacts)	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Slow Action, Double Break, Positively Driven	Built-in cable with flying leads, 5m	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	I	EEX AZ16 10/15 30N 5M	1,071.00
Slow Action, Double Break, Positively Driven	Built-in cable with flying leads	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	I	EEX AZ16 10/15 5M	1,071.00



EEX AZ16 10/15 30N 5M

EX AZ 16 Actuators

Item Description	Item Type	Catalogue No.	\$AU
Actuator type straight with guide, for EX AZ 16 series	I	AZ 15/16-B1 2177	61.00
Actuator fully adjustable, for EX AZ 16 series	I	AZ 15/16 B6	73.00

Ex Safety Magnetic Sensors

Ex HS Si 4 Series

Type Ex HS Si 4 safety sensors are switches intended for the position monitoring of doors, flaps or other safety devices. The activation of the safety-sensor will be made by coded solenoids. The connection is via a permanently connected cable. The length of the cable is up to 15 m.

- Ex zone 1, 2, 21 and 22
- Thermoplastic enclosure
- Hall elements, coded
- Actuation from front
- Switching distance up to 8 mm
- With pre-wired cable

Ex HS Si 4 Sensors

Indicator (Y/N)	Contacts	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
No	1 NO + 1 NC EB 1st Contact, Hall effect	, 5m	GRP (Glass Reinforced Plastic / Polyester / Thermoplastic)	I	EEX HS Si 4 10/15 5M	676.00



EEX HS Si 4 10/15 5M



EEX MC 4

Ex HS Si 4 Actuators

Item Description	Item Type	Catalogue No.	\$AU
Ex magnet coded for Ex HSSI		EEX MC 4	96.00

Ex RC Si M30 Series

The solenoid switch consists of a metal housing into which a thermoplastic housing containing a PCB with four reed contacts, is mounted and completely potted.

- Ex zone 1, 2, 21 and 22
- M30 barrel type sensor
- Nickel-plated brass and stainless steel bodies available
- 24V DC switching
- Pre-wired cable
- Coded reed contacts
- Actuation from front
- Switching distance up to 8mm
- Designed for use in conjunction with a safety relay



EEX RC SI M30 5m

Ex RC Si M30 Sensors

Indicator (Y/N)	Contacts	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
No	1 NO + 1 NC EB 1st Contact, Reed, coded	Built-in cable with flying leads, 5m	Nickel-Plated Brass	I	EEX RC SI M30 5m	1,205.00
No	2 NC, Reed, coded	Built-in cable with flying leads, 5m	Nickel-Plated Brass	I	EEX RC SI M30 20 5M	1,516.00

Ex RC Si M30 Actuators



EEX MC 30

Item Description	Item Type	Catalogue No.	\$AU
Coded actuating magnet for the RC Si M30 Series	I	EEX MC 30	200.00
Stainless steel coded actuating magnet for the RC Si M30 Series	I	EEX MC 30 NIRO	218.00

Ex RC Si 56 Series

The magnet safety sensors are switchgear units used for the monitoring of the position of doors, flaps or other protective devices. The switches are actuated by means of a coded solenoid.

- Thermoplastic enclosure
- 24 VDC switching
- Pre-wired cable
- Coded Reed contacts
- Actuation from front
- Switching distance up to 6 mm
- Designed for use in conjunction with safety relay

Ex RC Si 56 Sensors

Indicator (Y/N)	Contacts	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
No	2 NC, Reed, coded	Built-in cable with flying leads, 5m	Glass-Filled PA66 / Thermoplastic (Polyamide 66), Ultramid A3XZG5	I	EEX RC SI 56 20 5M	953.00
No	1 NO + 1 NC EB 1st Contact, Reed, coded	Built-in cable with flying leads, 5m	Glass-Filled PA66 / Thermoplastic (Polyamide 66), Ultramid A3XZG5	I	EEX RC SI 56 10/15-5M	998.00

Ex RC Si 56 Actuators



EEX RC SI 56 20 5M



EEX MC 56-3

Item Description	Item Type	Catalogue No.	\$AU
Ex Magnetic Coded Actuator For The RC Si 56-3	I	EEX MC 56	161.00
Ex Magnetic Coded Actuator For The RC Si 56	I	EEX MC 56-3	161.00

Ex Emergency Pull-Wire Switches

Ex emergency pull-wire switches are of great importance for the man-machine interface in the area of industrial applications. They are, for example, applied on transport and conveyor systems. After manual actuation, work and functional processes are initiated or switched off.

Ex ZS 71 Series

Type Ex ZS 71 pull-wire switches consist of the built-in switch type Ex 14, which is mounted in a light-alloy enclosure with plastic cover or light-alloy cover of different sizes to protect it against impact. The enclosures are equipped with a pushbutton and connection is made by means of the integrated connecting cable.

- Ex zone 1, 2, 21 and 22
- Metal enclosure
- 2 contacts
- Small design
- Wire length up to 35 m
- Release by push-button (VD)
- Available without unlocking mechanism
- Wire pull and breakage detection
- Watertight collar W for protection against penetration of dirt available
- Position indicator A available

Contacts	Cable Length (m, max)	Connection	Actuator (action)	Housing (material)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Slow Action, Double Break, Positively Driven	35	Built-in cable with flying leads, 3m	Momentary	Aluminium, Die-Cast	I	EEX ZS 71 10/15 WVD	1,144.00
2 NC, Slow Action, Double Break, Positively Driven	35	Built-in cable with flying leads, 3m	Momentary	Aluminium, Die-Cast	I	EEX ZS71 20 WVD	1,439.00



EEX ZS 71 10/15 WVD

Ex ZS 80 Series

Type Ex ZS 80 pull-wire switches consist of the built-in switch type Ex 14, which is mounted in a light-alloy enclosure with plastic cover or light-alloy cover of different sizes to protect it against impact. The enclosures are equipped with a pushbutton and connection is by means of the integrated connecting cable.

- Ex zone 1, 2, 21 and 22
- Metal enclosure
- 2 contacts
- Position indicator and integrated emergency-stop push-button
- Wire length up to 100 m
- Pretensioning force 100 N
- Lever for release and position indication
- Watertight collar
- Wire pull and breakage detection

Contacts	Cable Length (m, max)	Connection	Actuator (action)	Housing (material)	Item Type	Catalogue No.	\$AU
1 NO + 1 NC EB 1st Contact, Slow Action, Double Break, Positively Driven	100	Built-in cable with flying leads, 3m	Momentary	Aluminium, Die-Cast	I	EEX ZS80 10/15 WVD	1,561.00
2 NC, Slow Action, Double Break, Positively Driven	100	Built-in cable with flying leads, 3m	Momentary	Aluminium, Die-Cast	I	EEX ZS80 20 WVD	1,561.00



EEX ZS80 10/15 WVD

Ex ZS 92 Series

Contacts	Cable Length (m, max)	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
Snap Action, Double Break, Positively Driven	100	2 x M25 x 1.5	Aluminium	I	EEX ZS92 S22 VD F	2,233.00
Snap Action, Double Break, Positively Driven	100	2 x M25 x 1.5	Aluminium	I	EEXZS92S22VDF30C	3,509.00



EEX ZS92 S22 VD F

Ex IS Inductive Proximity Sensors

Ex inductive sensors are suitable for the positioning and controlling of machines and systems in many areas with explosive industrial applications.

- Ex zone 0 and 20
- Stainless steel enclosure
- Flush or non-flush mounting
- Long life, no mechanical wear
- Suitable for the food processing industry
- Insensitive to soiling
- With LED
- Enclosure diameter M8 x 1
- With pre-wired cable



EEX IS M8 B1ABBAB

Mounting	Sensing Distance (mm)	Connection	Housing (material)	Thread (size)	Item Type	Catalogue No.	\$AU
Flush Mount	1	Built-in cable with flying leads, 2m	Stainless Steel, 303	M8 x 1	I	EEX IS M8 B1ABBAB	127.00
Non-Flush Mount	1	Built-in cable with flying leads, 2m	Stainless Steel, 303	M8 x 1	I	EEX IS M8 NB2ABBAB	127.00
Flush Mount	2	Built-in cable with flying leads, 2m	Stainless Steel, 303	M12 x 1	I	EEX IS M12 B2ABBAB	137.00
Non-Flush Mount	4	Built-in cable with flying leads, 2m	Stainless Steel, 303	M12 x 1	I	EEX IS M12 NB4ABBAB	137.00
Flush Mount	5	Built-in cable with flying leads, 2m	Stainless Steel, 303	M18 x 1	I	EEX IS M18 B5ABBAB	144.00
Non-Flush Mount	8	Built-in cable with flying leads, 2m	Stainless Steel, 303	M18 x 1	I	EEX IS M18 NB8ABBAB	144.00
Flush Mount	10	Built-in cable with flying leads, 2m	Stainless Steel, 303	M30 x 1.5	I	EEX IS M30 B10ABBAB	196.00
Non-Flush Mount	15	Built-in cable with flying leads, 2m	Stainless Steel, 303	M30 x 1.5	I	EEX IS M30 NB15ABBAB	196.00

Ex Magnetic Sensors

The Ex magnetic sensors are actuated by an M range permanent magnet, entering their proximity without any physical contact. These devices are available with N/O, N/C, changeover, bistable or bistable changeover contacts. All magnetic sensors are supplied with pre-wired cables. When using Ex magnetic sensors, care must be taken that their mounting site is free of magnetic fields.

- Ex zone 1, 2, 21 and 22
- Nickel-plated brass enclosure
- Available in stainless steel Including 2 mounting nuts 1 Reed contact
- Actuation from front, actuation from side only with bistable contact
- Switching distance up to 30mm depending on the actuating magnet
- With pre-wired cable
- Version for low temperatures up to -40°C
- With Lapptherm 145 cable available on request

RCM20 Series



EEX RC M20 1S 2M

Actuation (direction)	Contacts	Connection	Housing (material)	Item Type	Catalogue No.	\$AU
Front	1 NO, Reed	Built-in cable with flying leads, 2m	Nickel-Plated Brass	I	EEX RC M20 1S 2M	1,270.00
Front	1 CO, Reed	Built-in cable with flying leads, 2m	Nickel-Plated Brass	I	EEX RC M20 1W	1,270.00

Hazardous Area Sight

Moflash Sight

- Xenon strobe or LED light source
- LED selectable Rotating, Flashing or Steady-On
- GRP or stainless steel construction
- Suitable for on-shore and off-shore applications
- Cable entry 4 x M20
- Stainless steel lens guard (optional)
- Available in different lens colour and enclosure colour
- More options available including status light and sounder combinations, contact NHP for more information

Zones 1, 2 & 21, 22

IECEX NEM 14.0007X

Ex d IIC T4/5/6

Ex tb IIIC T85/100/135

IP 66

Ambient temperature

-40°C + 55 / 60 / 70°C

BC150 Series GRP Beacon

These GRP beacons have a choice of two types of light source; either Xenon (strobe) with multiple flash rate and power ratings or an LED array with three status type indication (steady, flashing, rotate) options and two power ratings.

LED Series

The LED lighting series can be operated by both AC and DC voltage and are available with a wide range of lens colours.

DIP switches can be changed to alter flash rate, rotation rate or steady on mode.

- Enclosure: GRP
- Available in different lens color and enclosure color
- Power supply 12-48V DC, 12-48V AC or 100-240V AC
- Cable entry 4 x M20
- Length/Width: 150mm / 5.91" Height: 212mm / 8.35"

AC Voltage Operated

Lamp (type)	Lamp (W max)	Lens (colour)	Illumination (mode)	Ue (V AC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
LED	10	Amber	Steady / Flashing / Rotating	100 - 240	Signal Red (RAL 3001)	I	BC150AL10ACNNNARDN	1,749.00
LED	10	Blue	Steady / Flashing / Rotating	100 - 240	Signal Red (RAL 3001)	I	BC150BL10ACNNNARDN	1,749.00
LED	10	Clear / Transparent	Steady / Flashing / Rotating	100 - 240	Signal Red (RAL 3001)	I	BC150CL10ACNNNARDN	1,749.00
LED	10	Green	Steady / Flashing / Rotating	100 - 240	Signal Red (RAL 3001)	I	BC150GL10ACNNNARDN	1,749.00
LED	10	Red	Steady / Flashing / Rotating	100 - 240	Signal Red (RAL 3001)	I	BC150RL10ACNNNARDN	1,749.00



BC150AL10ACNNNARDN

Signalling requirements for Safe Area (non-hazardous) environments?



See the range of Safe Area sight and sound indication in the **SIGNALLING DEVICES** section

P7101D_dADVE-S01



BC150BL10DCNNNARDN

DC Voltage Operated

Lamp (type)	Lamp (W max)	Lens (colour)	Illumination (mode)	Ue (V DC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
LED	10	Amber	Steady / Flashing / Rotating	12 - 48	Signal Red (RAL 3001)	I	BC150AL10DCNNNARDN	1,749.00
LED	10	Blue	Steady / Flashing / Rotating	12 - 48	Signal Red (RAL 3001)	I	BC150BL10DCNNNARDN	1,749.00
LED	10	Clear / Transparent	Steady / Flashing / Rotating	12 - 48	Signal Red (RAL 3001)	I	BC150CL10DCNNNARDN	1,749.00
LED	10	Green	Steady / Flashing / Rotating	12 - 48	Signal Red (RAL 3001)	I	BC150GL10DCNNNARDN	1,749.00
LED	10	Red	Steady / Flashing / Rotating	12 - 48	Signal Red (RAL 3001)	I	BC150RL10DCNNNARDN	1,749.00

BC125 Series SS Beacon

These stainless steel beacons have a choice of two types of light source: either Xenon (strobe) with multiple flash rate and power ratings or an LED array with three status type indication (steady, flashing, rotate) options and two power ratings.

- Enclosure - 316 stainless steel; Lens - tempered glass
- Two types of light source; either Xenon or LED
- The design allows for termination inside the enclosure
- 360 degree light output around the vertical axis
- Dustproof and weatherproof

LED Series

The LED lighting series can be operated by both AC and DC voltage and are available with a wide range of lens colours. DIP switches can be changed to alter flash rate, rotation rate or steady on mode.

- Enclosure: Stainless Steel 316 and Lens: Tempered Glass
- Available in different lens color and enclosure color
- Power supply 12-48V DC, 12-48V AC or 100-240V AC
- Cable entry 4 x M20, M25, 1/2"NPT, 3/4"NPT
- Length/Width: 125mm / 4.92" Height: 181.2mm / 7.13"



BC125GL10ACNNNARDN

AC Voltage Operated

Lamp (type)	Lamp (W max)	Lens (colour)	Illumination	Ue (V AC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
LED	10	Amber	Steady / Flashing / Rotating	100 - 240	Signal Red (RAL 3001)	I	BC125AL10ACNNNARDN	3,401.00
LED	10	Blue	Steady / Flashing / Rotating	100 - 240	Signal Red (RAL 3001)	I	BC125BL10ACNNNARDN	3,401.00
LED	10	Clear / Transparent	Steady / Flashing / Rotating	100 - 240	Signal Red (RAL 3001)	I	BC125CL10ACNNNARDN	3,401.00
LED	10	Green	Steady / Flashing / Rotating	100 - 240	Signal Red (RAL 3001)	I	BC125GL10ACNNNARDN	3,401.00
LED	10	Red	Steady / Flashing / Rotating	100 - 240	Signal Red (RAL 3001)	I	BC125RL10ACNNNARDN	3,401.00

DC Voltage Operated

Lamp (type)	Lamp (W max)	Lens (colour)	Illumination	Ue (V DC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
LED	10	Amber	Steady / Flashing / Rotating	12 - 48	Signal Red (RAL 3001)	I	BC125AL10DCNNNARDN	3,401.00
LED	10	Blue	Steady / Flashing / Rotating	12 - 48	Signal Red (RAL 3001)	I	BC125BL10DCNNNARDN	3,401.00
LED	10	Clear / Transparent	Steady / Flashing / Rotating	12 - 48	Signal Red (RAL 3001)	I	BC125CL10DCNNNARDN	3,401.00
LED	10	Green	Steady / Flashing / Rotating	12 - 48	Signal Red (RAL 3001)	I	BC125GL10DCNNNARDN	3,401.00
LED	10	Red	Steady / Flashing / Rotating	12 - 48	Signal Red (RAL 3001)	I	BC125RL10DCNNNARDN	3,401.00



BC125RL10DCNNNARDN

Accessories

Item Description	Item Type	Catalogue No.	\$AU
Lens Guard, Stainless Steel for BC/SB Range	I	MO50023	187.00



MO50023

IS-B Series Intrinsically Safe Beacon

Lamp (type)	Lamp (W max)	Lens (colour)	Illumination (mode)	Ue (V DC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
LED	0.66	Amber	Steady / Flashing	0 - 24	Red	I	IS-B-02-01	502.00
LED	0.66	Red	Steady / Flashing	0 - 24	Red	I	IS-B-02-02	502.00
LED	0.66	Blue	Steady / Flashing	0 - 24	Red	I	IS-B-02-03	525.00
LED	0.66	Green	Steady / Flashing	0 - 24	Red	I	IS-B-02-04	525.00
LED	0.66	White	Steady / Flashing	0 - 24	Red	I	IS-B-02-05	525.00



IS-B-02-03

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Hazardous Area Sound

Moflash Sound



- Sound output , 115 dB @ 1 metre
- 3 stage alarm 63 selectable tones
- Max. current draw 1.5 amps
- GRP or stainless steel construction
- Suitable for on-shore and off-shore applications
- Cable entry 2 x M20
- Available in different lens color and enclosure color
- More options available including status light and sounder combinations, contact NHP for more information

Zones 1, 2, 21, 22
IECEx NEM 14.0007X (Sounder)
IECEx NEM 14.0007X (Sounder / Beacon)

Ex d IIC Gb
Ex tb IIIC
IP66

Ambient temp. / Temp. class / Max. surface temp.
-40°C to +70°C / T4 / 135°C
-40°C to +60°C / T5 / 100°C
-40°C to +55°C / T6 / 85°C

SD150 Series GRP Sounder



SD1501ACNNARD

Sound Lvl (dB @1m)	Ue (V AC min-max)	Housing (colour)	Item Type	Catalogue No.	SAU
115	100 - 240	Signal Red (RAL 3001)	I	SD1501ACNNARD	2,234.00
115	12 - 48	Signal Red (RAL 3001)	I	SD1501DCNNARD	2,234.00

SD125 Series Stainless Steel Sounder



SD1251ACNNARD

Sound Lvl (dB @1m)	Ue (V AC min-max)	Housing (colour)	Item Type	Catalogue No.	SAU
115	100 - 240	Signal Red (RAL 3001)	I	SD1251ACNNARD	4,728.00
115	12 - 48	Signal Red (RAL 3001)	I	SD1251DCNNARD	4,728.00

Signalling requirements for Safe Area (non-hazardous) environments?



See the range of Safe Area sight and sound indication in the **SIGNALLING DEVICES** section

P7101D_dADVE-S01

IS-S Series Intrinsically Safe Sounder

Two Stage Sounding.

Sound Lvl (dB @1m)	Ue (V DC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
105	0 - 24	Red		IS-S-02	420.00



IS-S-02

SB150-1 Series GRP Sounder/Beacon

LED Lighting Series

The LED lighting series can be operated by both AC and DC voltage and is available in different lens colours.

- Enclosure: Stainless Steel 316 and Lens: Tempered Glass
- Available in different lens color and enclosure color
- Power supply 12-48V DC or 100-240V AC
- Cable entry 4 x M20
- Length/Width: 413mm /16.4"

100 - 240V AC

Lamp (type, power)	Lens (colour)	IllumMode	Sound Lvl (dB @1m)	Ue (V AC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
LED,10W max	Amber	Flashing	115	100 - 240	Red		SB1501AL10ACNNNARDN	3,370.00
LED,10W max	Red	Flashing	115	100 - 240	Red		SB1501RL10ACNNNARDN	3,370.00



SB1501RL10ACNNNARDN

12 - 48V DC

Lamp (type, power)	Lens (colour)	IllumMode	Sound Lvl (dB @1m)	Ue (V DC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
LED,10W max	Amber	Flashing	115	12 - 48	Red		SB1501AL10DCNNNARDN	3,370.00
LED,10W max	Red	Flashing	115	12 - 48	Red	I	SB1501RL10DCNNNARDN	3,370.00



SB1501RL10DCNNNARDN

SB125-1 Series Stainless Steel Sounder/Beacon

LED lighting Series

The LED lighting series can be operated by both AC and DC voltage and is available with a wide range of lens colours.

- Enclosure: Stainless Steel 316 and Lens: Tempered Glass
- Available in different lens color and enclosure color
- Power supply 12-48V DC 100-240V AC
- Cable entry 4 x M20
- Length/Width: 333mm /13.1"

100 - 240V AC

Lamp (type, power)	Lens (colour)	IllumMode	Sound Lvl (dB @1m)	Ue (V AC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
LED, 10W max	Amber	Flashing	115	100 - 240	Red	I	SB1251AL10ACNNNARDN	6,091.00
LED, 10W max	Red	Flashing	115	100 - 240	Red	I	SB1251RL10ACNNNARDN	6,091.00



SB1251RL10ACNNNARDN

12 - 48V DC

Lamp (type, power)	Lens (colour)	IllumMode	Sound Lvl (dB @1m)	Ue (V DC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
LED, 10W max	Amber	Flashing	115	12 - 48	Red	I	SB1251AL10DCNNNARDN	6,091.00
LED, 10W max	Red	Flashing	115	12 - 48	Red	I	SB1251RL10DCNNNARDN	6,091.00



SB1251AL10DCNNNARDN



IS-SB-02-03

IS-SB Series Intrinsically Safe Sounder/Beacon

Lamp (type, power)	Lens (colour)	Illumination (mode)	Sound Lvl (dB @ 1m)	Ue (V DC min-max)	Housing (colour)	Item Type	Catalogue No.	\$AU
LED, 0.66W max	Amber	Steady / Flashing	105	0 - 24	Red	I	IS-SB-02-01	616.00
LED, 0.66W max	Red	Steady / Flashing	105	0 - 24	Red	I	IS-SB-02-02	616.00
LED, 0.66W max	Blue	Steady / Flashing	105	0 - 24	Red	I	IS-SB-02-03	645.00
LED, 0.66W max	Green	Steady / Flashing	105	0 - 24	Red	I	IS-SB-02-04	645.00
LED, 0.66W max	White	Steady / Flashing	105	0 - 24	Red	I	IS-SB-02-05	645.00

Plugs, Sockets and Switches

GPOs and Switches

Enclosed DC Isolating Switch	972
Weatherproof Switches	973
Weatherproof Isolators and Switches	974
Weather Protected GPOs	975

Plugs and Sockets

IP66 Plugs and Sockets	Index	976
High Current Plugs and Sockets	Index	993

Industrial Plugs and Sockets

Isolating Plugs and Sockets	1003
-----------------------------	------

Pricing in this document is invalid – for pricing and availability please access the NHP customer portal under 'My Account'

Enclosed DC Isolating Switch

N-LINE DC Switch



- 32 A, 1500 V Enclosed DC switch
- Fully compliant with AS60947.3:2018 suitable to be used throughout Australia and New Zealand
- Robust IP66NW polycarbonate enclosure ensured protection against damaging moisture ingress and UV exposure
- Superior temperature performance, conforming to AS5033:2018
- Long lasting service life and reliable switching
- Arcing time <3 ms utmost safety and protection ensuring seamless isolation
- 4 x M25 top and bottom threaded entries with injected TPE seal
- 2 x M25 rear knockouts for cable entries
- Pre-fitted pressure compensation valve as standard
- Provision for external mounting
- Padlockable in OFF position
- Accessory kit included (Wall mount brackets, bridging links, M25 to M12 reducer and mounting screws)

The new N-LINE enclosed DC isolating switch has been designed, engineered and developed for 1~20 kW residential and commercial solar applications. This DC isolating switch provides a safe means of isolating your PV array during installation or maintenance while keeping you and your solar system from harm's way.

For all installations up to 1500 V DC, the switch is fully compliant to AS 60947.3 and AS/NZS IEC 60947.1. In addition, the polycarbonate enclosure consists of an injected TPE gasket for IP66NW protection - ensuring best protection against damaging dust and moisture ingress.

N-LINE DC Switch



NL432PV

Item Description	Item Type	Catalogue No.	\$AU
ENCLOSED DC ISOLATING SWITCH IP66NW 4 POLE 1500 V DC DC-PV2		NL432PV	58.00
NLINE NL432PV AND NL140L DC AC ISO SWITCH PACK	K	NL432PVACK	66.00
NLINE 2xNL432PV DC ISOLATOR	K	NL432PVACK3	96.00
NLINE 2 x NL432PV & 1 x NL140L PACK	K	NL432PVACK2	114.00

N-LINE DC Switch Accessories



NLA432PVKIT

Item Description	Item Type	Catalogue No.	\$AU
Wall Mount Brackets Stainless Steel - Pack of 2		NLAWMB	1.95
Reducer threaded M25 to M12 - Pack of 4		NLARDM25M12	5.25
Bridging Link to Suit NL432PV DC Isolating Switch - Pack of 4		NLA432PVBL	5.65
Spare Accessory Kit to Suit NL432PV Isolating Switch		NLA432PVKIT	9.85
Nline PV array DC isolator switch shroud to suit NL432PV		NLA432PVSH	16.00

Weatherproof Switches

N-LINE Switches

- Slip resistant switch with integrated over moulded ribs with raised center for easy operation
- Looping terminal available on all 2 way switches
- TPE Injected membrane and gasket for increased ingress protection of IP66
- Stainless steel cover screws standard for increased corrosion protection
- Colour Grey RAL7035 UV resistant Polycarbonate material for extended life in outdoor applications
- Easy to use back box with generic mounting holes and cable entries
- Supplied standard with earthing tunnel connector and conduit reducers
- Fully tested and approved to AS/NZS3133 including Certificate of Approval and M-rating

The N-Line range of weatherproof switches are available in 16A in 1, 2 and 3 Gang and 20A 1 gang arrangement. All switch knobs are slip resistant due to the integrated over moulded ribs and raised center for easy operation. A TPE injected membrane and gasket combined with stainless steel cover screws as standard provide increased ingress and corrosion protection, and the colour grey RAL7035 UV resistant polycarbonate material offers extended life in outdoor applications. All switches are fully tested and approved to AS/ NZS3133 including certificate of approval and M-rating.



Weatherproof Switches

Weatherproof Switches - Small

In (A)	Un (V AC)	Gangs (qty)	Switching Poles (qty)	Item Type	Catalogue No.	\$AU
16	250	1	1P (2-way)		NLSW116S	34.00
16	250	2	1P (2-way)		NLSW216S	48.00
20	250	1	2P		NLSW120S	56.00



NLSW120S

Weatherproof Switches - Large

In (A)	Un (V AC)	Gangs (qty)	Switching Poles (qty)	Item Type	Catalogue No.	\$AU
16	250	1	1P (2-way)		NLSW116L	43.00
20	250	1	2P		NLSW120L	59.00
16	250	2	1P (2-way)		NLSW216L	59.00
16	250	3	1P (2-way)		NLSW316L	65.00



NLSW316L

Weatherproof Isolators and Switches

N-LINE Isolators and Switches



- N-Line range available in 10A, 20A and 40A models in single- and three-phase applications
- 2 pole switch mechanism standard for single-phase models 20A and 40A
- Large isolator handle for easy operation
- Padlockable switch in the off position
- Small and large enclosure sizes in RAL 7035 UV resistant polycarbonate
- High ingress protection IP 66 and stainless steel cover screws as standard
- Generic mounting and entries with 2 x 25-20 mm reducers included

The N-Line range of weatherproof isolators & switches are available in current ratings: 10A, 20A and 40A. All feature a large isolator handle for easy operation and 2 pole switch mechanism as standard for single-phase models 20A and 40A. A TPE injected gasket combined with stainless steel cover screws as standard provide increased ingress and corrosion protection, and the colour grey RAL7035 UV resistant polycarbonate material offers extended life in outdoor applications. Isolator switches are fully tested and approved to AS/NZS3133 including certificate of approval and M-rating.

Weatherproof Isolators and Switches

Weatherproof Switch - Small



NL120S

In (A)	Un (V AC)	Switching Poles (qty)	Item Type	Catalogue No.	\$AU
20	250	2P		NL120S	67.00

Weatherproof Isolating Switch - Large



NL120L

In (A)	Un (V AC)	Switching Poles (qty)	Item Type	Catalogue No.	\$AU
20	250	2P		NL120L	85.00
40	250	2P		NL140L	102.00
20	500	3P		NL320L	92.00
40	500	3P		NL340L	138.00

Pricing in this document is invalid – for pricing and availability please access NHP customer portal under 'My Account'

Weather Protected GPOs

N-LINE GPOs

- Slip resistant switch with integrated over moulded ribs with raised center for easy operation
- TPE Injected membrane and gasket for increased ingress protection
- Stainless steel cover screws standard for increased corrosion protection
- Easy to wire one piece terminal plate with inline terminals – accepts up to 3 x 2.5mm conductors
- Captive terminal screws: screw heads accepts flat or Philips screw drivers
- All terminals are IP2X touch proof for increased safety
- Colour Grey RAL7035 UV resistant Polycarbonate material for extended life in outdoor applications
- Easy to use back box with generic mounting holes and cable entries
- Supplied standard with conduit reducers 3 x 25-20mm
- Fully Tested and approved to AS/NZS3112 including Certificate of Approval

The N-Line range of weather protected GPOs are available in 10A and 15A in single and double power outlets and double with extra switch. All switch knobs are slip resistant due to the integrated over moulded ribs and raised center for easy operation.

A TPE injected membrane and gasket combined with stainless steel cover screws as standard provide increased ingress and corrosion protection, and all switches are fully tested and approved to AS/NZS3112 including certificate of approval.

Weather Protected GPOs

Weather Protected Single Power Outlet - Surface Mount

In (A)	Un (V AC)	Pins	Item Type	Catalogue No.	\$AU
10	250	3 flat		NLGPO10S	39.00
15	250	3 flat		NLGPO15S	57.00



NLGPO15S

Weather Protected Double Power Outlet - Surface Mount

In (A)	Un (V AC)	Pins	Item Type	Catalogue No.	\$AU
10	250	3 flat		NLGPO10D	57.00
15	250	3 flat		NLGPO15D	92.00



NLGPO15D

Weather Protected Double Power Outlet with extra switch - Surface Mount

In (A)	Un (V AC)	Pins	Item Type	Catalogue No.	\$AU
10	250	3 flat		NLGPO10DX	97.00
15	250	3 flat		NLGPO15DX	131.00



NLGPO15DX

IP66 Plugs and Sockets

ISO Plugs and Sockets

ISO Plugs	Page 976
ISO Switched Socket Outlets	Page 978
ISO Switches	Page 979
ISO Socket Outlets	Page 981
ISO Extension Sockets	Page 983
ISO Appliance Inlets	Page 984
ISO Switched MOD6 RCD Protected Outlets	Page 985
ISO Switched MOD6 RCD Protected Outlets – In line	Page 986
ISO MOD6 RCD Protected Outlets	Page 987
ISO Keyed Switches	Page 988
ISO Common Keyed Switches	Page 989
ISO Back Boxes, RCD Covers and Accessories	Page 990



- Large range covering 10 to 50A in 3, 4 and 5 pin configurations
- Components available: Switched Socket outlets, Switches, Socket Outlets, Plugs, Extension Sockets, Appliance Inlets, RCD Protected Outlets, Back Boxes and large range of accessories
- High ingress protection of IP66 across the range
- User friendly design with extruded ribbed grips, large switch handle and large socket latches for easy operation with or without gloves
- Suitable for most industrial and commercial applications
- Designed and tested to AS/NZS 3112 and AS/NZS 3123

The Industrial Strength Options (ISO) range of IP66 rated plugs, socket outlets, switches, extension sockets, appliance inlets, RCD protected outlets and accessories are suitable for industrial, commercial and domestic single- and three-phase applications, from 10 to 50A; 3, 4 and 5 pin configurations.

Large range covering 10 to 50A in 3, 4 and 5 pin configurations

Components available: Switched Socket outlets, Switches, Socket Outlets, Plugs, Extension Sockets, Appliance Inlets, RCD Protected Outlets, Back Boxes and large range of accessories

High ingress protection of IP66 across the range

User friendly design with extruded ribbed grips, large switch handle and large socket latches for easy operation with or without gloves

Suitable for most industrial and commercial applications

Designed and tested to AS/NZS 3112 and AS/NZS 3123

DISCLAIMER

The resistance of any material to the corrosive, degrading and ageing action of chemicals or atmospheric agents over time is not a direct relationship and depends on a variety of factors including the conditions of installation, temperature, chemical concentration and interactions from other substances present in the atmosphere and the installation environment. Material chemical resistance charts are indicative only and are the results of laboratory testing. As individual installation conditions may vary widely, such charts should be consulted and used as a general guide only. NHP recommends independent testing to verify the selection of ISO materials is suitable for use in your specific applications.

ISO Plugs

The ISO range of plugs is available as a straight plug and an angled plug (three-phase versions only) in Electric Orange. The range of straight plugs is also available in Resistant Orange (RO) material.

Straight Plugs**3 Flat Pins**

ISOPS315P

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	No	W	ISOPS310P	47.00
10 / 250	Yes (Consult NHP)	W	ISOPS310PRO	47.00
15 / 250	No	W	ISOPS315P	60.00
15 / 250	Yes (Consult NHP)	W	ISOPS315PRO	60.00
20 / 250	No	W	ISOPS320FP	85.00
20 / 250	Yes (Consult NHP)	W	ISOPS320FPRO	85.00

2 Flat Pins 1 Round Earth

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	Yes (Consult NHP)	W	ISOPS310LPRO	72.00
10 / 250	No	W	ISOPS310LP	73.00



ISOPS310LPRO

3 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 250	No	W	ISOPS320P	160.00
20 / 250	Yes (Consult NHP)	W	ISOPS320PRO	160.00
32 / 250	No	W	ISOPS332P	237.00
32 / 250	Yes (Consult NHP)	W	ISOPS332PRO	237.00



ISOPS332PRO

4 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISOPS410P	128.00
10 / 500	Yes (Consult NHP)	W	ISOPS410PRO	129.00
20 / 500	No	W	ISOPS420P	138.00
20 / 500	Yes (Consult NHP)	W	ISOPS420PRO	138.00
32 / 500	No	W	ISOPS432P	200.00
32 / 500	Yes (Consult NHP)	W	ISOPS432PRO	200.00
40 / 500	No	W	ISOPS440P	292.00
40 / 500	Yes (Consult NHP)	W	ISOPS440PRO	292.00
50 / 500	No	W	ISOPS450P	408.00
50 / 500	Yes (Consult NHP)	W	ISOPS450PRO	408.00



ISOPS450P

5 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISOPS510P	148.00
10 / 500	Yes (Consult NHP)	W	ISOPS510PRO	148.00
20 / 500	No	W	ISOPS520P	162.00
20 / 500	Yes (Consult NHP)	W	ISOPS520PRO	162.00
32 / 500	No	W	ISOPS532P	186.00
32 / 500	Yes (Consult NHP)	W	ISOPS532PRO	186.00
40 / 500	No	W	ISOPS540P	315.00
40 / 500	Yes (Consult NHP)	W	ISOPS540PRO	315.00
50 / 500	No	W	ISOPS550P	432.00
50 / 500	Yes (Consult NHP)	W	ISOPS550PRO	432.00



ISOPS510PRO

Angled Plugs

4 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 500	No	W	ISOPA420P	145.00
32 / 500	No	W	ISOPA432P	193.00
40 / 500	No	W	ISOPA440P	304.00
50 / 500	No	W	ISOPA450P	429.00



ISOPA432P

5 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 500	No	W	ISOPA520P	160.00
32 / 500	No	W	ISOPA532P	196.00
40 / 500	No	W	ISOPA540P	314.00
50 / 500	No	W	ISOPA550P	433.00



ISOPA540P

ISO Switched Socket Outlets

The ISO range of IP66 Switched Socket Outlets are available in single-phase and three-phase versions. Covering a large current range 10 to 50A, the range is available in Grey (G) and Resistant Orange (RO) and Resistant White (RW) material.

Switched Socket Outlets**3 Flat Pins**

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	No	W	ISOC310PG	135.00
10 / 250	Yes (Consult NHP)	W	ISOC310PRO	138.00
10 / 250	Yes (Consult NHP)	W	ISOC310PRW	138.00
10 / 250	No	W	ISOC310PGDB	154.00
15 / 250	No	W	ISOC315PG	154.00
15 / 250	Yes (Consult NHP)	W	ISOC315PRO	159.00
10 / 250	Yes (Consult NHP)	W	ISOC315PRW	159.00
15 / 250	No	W	ISOC315PGDB	174.00
20 / 250	No	W	ISOC320FPG	292.00
20 / 250	Yes (Consult NHP)	W	ISOC320FPRO	292.00
20 / 250	No	W	ISOC320FPRW	292.00

2 Flat Pins 1 Round Earth

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	Yes (Consult NHP)	W	ISOC310LPRO	240.00
10 / 250	Yes (Consult NHP)	W	ISOC310LPRW	240.00
10 / 250	No	W	ISOC310LPG	242.00

3 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 250	No	W	ISOC320PG	360.00
20 / 250	Yes (Consult NHP)	W	ISOC320PRO	369.00
32 / 250	No	W	ISOC332PG	432.00
32 / 250	Yes (Consult NHP)	W	ISOC332PRO	441.00

4 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	Yes (Consult NHP)	W	ISOC410PRO	311.00
10 / 500	Yes (Consult NHP)	W	ISOC410PRW	311.00
10 / 500	No	W	ISOC410PG	314.00
20 / 500	No	W	ISOC420PG	322.00
20 / 500	Yes (Consult NHP)	W	ISOC420PRO	326.00
20 / 500	Yes (Consult NHP)	W	ISOC420PRW	326.00
32 / 500	No	W	ISOC432PG	516.00
32 / 500	Yes (Consult NHP)	W	ISOC432PRO	527.00
32 / 500	Yes (Consult NHP)	W	ISOC432PRW	527.00
40 / 500	No	W	ISOC440PG	875.00
40 / 500	Yes (Consult NHP)	W	ISOC440PRO	875.00
50 / 500	No	W	ISOC450PG	1,043.00
50 / 500	Yes (Consult NHP)	W	ISOC450PRO	1,043.00

5 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISOC510PG	353.00
20 / 500	No	W	ISOC520PG	354.00
10 / 500	Yes (Consult NHP)	W	ISOC510PRO	361.00
10 / 500	Yes (Consult NHP)	W	ISOC510PRW	361.00
20 / 500	Yes (Consult NHP)	W	ISOC520PRO	362.00
20 / 500	Yes (Consult NHP)	W	ISOC520PRW	362.00
32 / 500	No	W	ISOC532PG	486.00
32 / 500	Yes (Consult NHP)	W	ISOC532PRO	496.00
32 / 500	Yes (Consult NHP)	W	ISOC532PRW	496.00
40 / 500	No	W	ISOC540PG	905.00
40 / 500	Yes (Consult NHP)	W	ISOC540PRO	905.00
50 / 500	Yes (Consult NHP)	W	ISOC550PRO	1,010.00
50 / 500	No	W	ISOC550PG	1,052.00



ISOC532PRO

ISO Switches

The ISO range of Surface Switches are available with or without a back box providing the user flexibility to mix and match units as required. All units have certified AC23 and M ratings and comply with protection rating IP 66 when used in conjunction with a back box.

Switches are available with and without a back box in Grey (G) and without the back box in Resistant Orange (RO) and Resistant White (RW) material.

Surface Switches (Including Back Boxes)

2 Pole

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	M-Rating (AS 3133)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	10	M80	Grey	No	W	ISOSW110PG	99.00
15 / 250	15	M80	Grey	No	W	ISOSW115PG	110.00
20 / 250	20	M150	Grey	No	W	ISOSW120PG	112.00
32 / 250	32	M180	Grey	No	W	ISOSW132PG	116.00
10 / 250	10	M80	Grey 63mm base	No	W	ISOSW110PGDB	117.00
15 / 250	15	M80	Grey 63mm base	No	W	ISOSW115PGDB	129.00



ISOSW115PG

1 Pole 2 Way

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	M-Rating (AS 3133)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	10	M80	Grey	No	W	ISOSW1102PG	139.00



ISOSW1102PG

3 Pole

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	M-Rating (AS 3133)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	10	M100	Grey	No	W	ISOSW310PG	156.00
20 / 500	20	M100	Grey	No	W	ISOSW320PG	168.00
32 / 500	32	M100	Grey	No	W	ISOSW332PG	232.00
40 / 500	40	M100	Grey	No	W	ISOSW340PG	269.00
50 / 500	50	M200	Grey	No	W	ISOSW350PG	279.00



ISOSW310PG

4 Pole

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	M-Rating (AS 3133)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 500	20	M100	Grey	No	W	ISOSW420PG	260.00
32 / 500	32	M100	Grey	No	W	ISOSW432PG	326.00
40 / 500	40	M100	Grey	No	W	ISOSW440PG	362.00



ISOSW432PG

Surface Switches (Less Back Box)

2 Pole



ISO SW 110 PGLB

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	M-Rating (AS 3133)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	10	M80	Resistant Orange	Yes (Consult NHP)	W	ISO SW 110 PROLB	84.00
10 / 250	10	M80	Resistant White	Yes (Consult NHP)	W	ISO SW 110 PRWLB	84.00
10 / 250	10	M80	Grey	No	W	ISO SW 110 PGLB	85.00
15 / 250	15	M80	Resistant Orange	Yes (Consult NHP)	W	ISO SW 115 PROLB	93.00
15 / 250	15	M80	Resistant White	Yes (Consult NHP)	W	ISO SW 115 PRWLB	93.00
15 / 250	15	M80	Grey	No	W	ISO SW 115 PGLB	94.00
20 / 250	20	M150	Resistant Orange	Yes (Consult NHP)	W	ISO SW 120 PROLB	99.00
20 / 250	20	M150	Grey	No	W	ISO SW 120 PGLB	101.00
32 / 250	32	M180	Grey	No	W	ISO SW 132 PGLB	103.00
32 / 250	32	M180	Resistant Orange	Yes (Consult NHP)	W	ISO SW 132 PROLB	103.00

1 Pole 2 Way



ISO SW 1102 PRWLB

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	M-Rating (AS 3133)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	10	M80	Grey	No	W	ISO SW 1102 PGLB	124.00
10 / 250	10	M80	Resistant Orange	Yes (Consult NHP)	W	ISO SW 1102 PROLB	124.00
10 / 250	10	M80	Resistant White	Yes (Consult NHP)	W	ISO SW 1102 PRWLB	124.00

3 Pole



ISO SW 310 PRWLB

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	M-Rating (AS 3133)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	10	M100	Resistant White	Yes (Consult NHP)	W	ISO SW 310 PRWLB	142.00
10 / 500	10	M100	Grey	No	W	ISO SW 310 PGLB	145.00
10 / 500	10	M100	Resistant Orange	Yes (Consult NHP)	W	ISO SW 310 PROLB	145.00
20 / 500	20	M100	Grey	No	W	ISO SW 320 PGLB	153.00
20 / 500	20	M100	Resistant Orange	Yes (Consult NHP)	W	ISO SW 320 PROLB	153.00
20 / 500	20	M100	Resistant White	Yes (Consult NHP)	W	ISO SW 320 PRWLB	153.00
32 / 500	32	M100	Grey	No	W	ISO SW 332 PGLB	218.00
32 / 500	32	M100	Resistant Orange	Yes (Consult NHP)	W	ISO SW 332 PROLB	218.00
32 / 500	32	M100	Resistant White	Yes (Consult NHP)	W	ISO SW 332 PRWLB	218.00
40 / 500	40	M100	Grey	No	W	ISO SW 340 PGLB	250.00
40 / 500	40	M100	Resistant Orange	Yes (Consult NHP)	W	ISO SW 340 PROLB	250.00
50 / 500	50	M200	Grey	No	W	ISO SW 350 PGLB	263.00
50 / 500	50	M200	Resistant Orange	Yes (Consult NHP)	W	ISO SW 350 PROLB	263.00

4 Pole



ISO SW 432 PRW LB

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	M-Rating (AS 3133)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 500	20	M100	Grey	No	W	ISO SW 420 PGLB	244.00
20 / 500	20	M100	Resistant Orange	Yes (Consult NHP)	W	ISO SW 420 PROLB	244.00
20 / 500	20	M100	Resistant White	Yes (Consult NHP)	W	ISO SW 420 PRW LB	244.00
32 / 500	32	M100	Grey	No	W	ISO SW 432 PGLB	310.00
32 / 500	32	M100	Resistant Orange	Yes (Consult NHP)	W	ISO SW 432 PROLB	310.00
32 / 500	32	M100	Resistant White	Yes (Consult NHP)	W	ISO SW 432 PRW LB	310.00
40 / 500	40	M100	Grey	No	W	ISO SW 440 PGLB	346.00
40 / 500	40	M100	Resistant Orange	Yes (Consult NHP)	W	ISO SW 440 PROLB	346.00
40 / 500	40	M100	Resistant White	Yes (Consult NHP)	W	ISO SW 440 PRWLB	346.00

ISO Socket Outlets

The ISO range of socket outlets is available with or without a back box providing the user with flexibility to mix and match units as required.

All units comply with protection rating IP66 when used with a back box.

Sockets are available with and without a back box in Grey (G) and without the back box in Resistant Orange (RO) and Resistant White (RW) material.

Socket Outlets (Including Back Box)

3 Flat Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	No	W	ISOSO310PG	145.00
15 / 250	No	W	ISOSO315PG	161.00
20 / 250	No	W	ISOSO320FPG	190.00



ISOSO310PG

2 Flat Pins 1 Round Earth

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	No	W	ISOSO310LPG	173.00



ISOSO310LPG

3 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 250	No	W	ISOSO320PG	266.00
32 / 250	No	W	ISOSO332PG	355.00



ISOSO320PG

4 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISOSO410PG	270.00
20 / 500	No	W	ISOSO420PG	290.00
32 / 500	No	W	ISOSO432PG	382.00
40 / 500	No	W	ISOSO440PG	406.00
50 / 500	No	W	ISOSO450PG	662.00



ISOSO432PG

5 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISOSO510PG	281.00
20 / 500	No	W	ISOSO520PG	308.00
32 / 500	No	W	ISOSO532PG	402.00
40 / 500	No	W	ISOSO540PG	421.00
50 / 500	No	W	ISOSO550PG	706.00



ISOSO540PG

Socket Outlets (Less Back Box)

3 Flat Pins



ISO310PGLB

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	No	W	ISO310PGLB	130.00
10 / 250	Yes (Consult NHP)	W	ISO310PROLB	130.00
10 / 250	Yes (Consult NHP)	W	ISO310PRWLB	130.00
15 / 250	Yes (Consult NHP)	W	ISO315PROLB	145.00
15 / 250	No	W	ISO315PGLB	146.00
15 / 250	Yes (Consult NHP)	W	ISO315PRWLB	146.00
20 / 250	No	W	ISO320FPGLB	177.00
20 / 250	Yes (Consult NHP)	W	ISO320FPROLB	177.00
20 / 250	Yes (Consult NHP)	W	ISO320FPRWLB	177.00

2 Flat Pins 1 Round Earth



ISO310LPROLB

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	No	W	ISO310LPGLB	160.00
10 / 250	Yes (Consult NHP)	W	ISO310LPROLB	160.00
10 / 250	Yes (Consult NHP)	W	ISO310LPRWLB	160.00

3 Round Pins



ISO332PGLB

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 250	No	W	ISO320PGLB	247.00
20 / 250	Yes (Consult NHP)	W	ISO320PROLB	247.00
32 / 250	No	W	ISO332PGLB	341.00
32 / 250	Yes (Consult NHP)	W	ISO332PROLB	341.00

4 Round Pins



ISO450PROLB

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISO410PGLB	252.00
10 / 500	Yes (Consult NHP)	W	ISO410PROLB	252.00
10 / 500	Yes (Consult NHP)	W	ISO410PRWLB	252.00
20 / 500	No	W	ISO420PGLB	273.00
20 / 500	Yes (Consult NHP)	W	ISO420PROLB	273.00
20 / 500	Yes (Consult NHP)	W	ISO420PRWLB	273.00
32 / 500	No	W	ISO432PGLB	366.00
32 / 500	Yes (Consult NHP)	W	ISO432PROLB	366.00
32 / 500	Yes (Consult NHP)	W	ISO432PRWLB	366.00
40 / 500	No	W	ISO440PGLB	397.00
40 / 500	Yes (Consult NHP)	W	ISO440PROLB	397.00
50 / 500	No	W	ISO450PGLB	649.00
50 / 500	Yes (Consult NHP)	W	ISO450PROLB	649.00

5 Round Pins



ISO532PGLB

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISO510PGLB	250.00
10 / 500	Yes (Consult NHP)	W	ISO510PROLB	250.00
10 / 500	Yes (Consult NHP)	W	ISO510PRWLB	250.00
20 / 500	No	W	ISO520PGLB	288.00
20 / 500	Yes (Consult NHP)	W	ISO520PROLB	288.00
20 / 500	Yes (Consult NHP)	W	ISO520PRWLB	288.00
32 / 500	No	W	ISO532PGLB	385.00
32 / 500	Yes (Consult NHP)	W	ISO532PROLB	385.00
32 / 500	Yes (Consult NHP)	W	ISO532PRWLB	385.00
40 / 500	No	W	ISO540PGLB	399.00
40 / 500	Yes (Consult NHP)	W	ISO540PROLB	399.00
50 / 500	No	W	ISO550PGLB	682.00
50 / 500	Yes (Consult NHP)	W	ISO550PROLB	682.00

ISO Extension Sockets

The ISO range of extension sockets is available in single-phase and three-phase versions. Covering a large current range from 10 to 50A, the range is available in Electric Orange and Resistant Orange (RO) material.

The 10 to 50A round pin sizes feature a Patented Padlockable IP66 hinged lid that suits all lock types. When connected with the matching ISO Appliance Inlet the two can be padlocked* together to prevent an unauthorised disconnection. (*Suits Locking devices: 4.5mm to 6.0mm Ø only.)

Extension Sockets

3 Flat Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	No	W	ISOEX310P	79.00
10 / 250	Yes (Consult NHP)	W	ISOEX310PRO	80.00
15 / 250	No	W	ISOEX315P	95.00
15 / 250	Yes (Consult NHP)	W	ISOEX315PRO	97.00



ISOEX315PRO

3 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 250	No	W	ISOEX320P	252.00
20 / 250	Yes (Consult NHP)	W	ISOEX320PRO	252.00
32 / 250	No	W	ISOEX332P	309.00
32 / 250	Yes (Consult NHP)	W	ISOEX332PRO	309.00



ISOEX332PRO

4 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISOEX410P	229.00
10 / 500	Yes (Consult NHP)	W	ISOEX410PRO	229.00
20 / 500	No	W	ISOEX420P	279.00
20 / 500	Yes (Consult NHP)	W	ISOEX420PRO	279.00
32 / 500	No	W	ISOEX432P	360.00
32 / 500	Yes (Consult NHP)	W	ISOEX432PRO	360.00
40 / 500	No	W	ISOEX440P	482.00
40 / 500	Yes (Consult NHP)	W	ISOEX440PRO	482.00
50 / 500	No	W	ISOEX450P	541.00
50 / 500	Yes (Consult NHP)	W	ISOEX450PRO	541.00



ISOEX450P

5 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	Yes (Consult NHP)	W	ISOEX510PRO	244.00
10 / 500	No	W	ISOEX510P	246.00
20 / 500	No	W	ISOEX520P	314.00
20 / 500	Yes (Consult NHP)	W	ISOEX520PRO	314.00
32 / 500	No	W	ISOEX532P	369.00
32 / 500	Yes (Consult NHP)	W	ISOEX532PRO	369.00
40 / 500	No	W	ISOEX540P	508.00
40 / 500	Yes (Consult NHP)	W	ISOEX540PRO	508.00
50 / 500	No	W	ISOEX550P	533.00
50 / 500	Yes (Consult NHP)	W	ISOEX550PRO	533.00



ISOEX540P

ISO Appliance Inlets

The ISO range of Appliance Inlets are available in single-phase and three-phase versions. Covering a large current range from 10 to 50A, the range is available in Grey (G) and Resistant Orange (RO) material.

The 10 to 50A round pin sizes feature a Patented Padlockable* IP66 cap. When connected with the matching ISO Extension Socket the two can be padlocked* together to prevent an unauthorised disconnection. (*Suits Locking devices: 4.5mm to 6.5mm Ø only)

Appliance Inlets (Including Back Box)**3 Flat Pins**

ISOAI315PG

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	No	W	ISOAI310PG	210.00
15 / 250	No	W	ISOAI315PG	229.00

3 Round Pins

ISOAI332PG

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 250	No	W	ISOAI320PG	333.00
32 / 250	No	W	ISOAI332PG	352.00

4 Round Pins

ISOAI440PG

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISOAI410PG	272.00
20 / 500	No	W	ISOAI420PG	358.00
40 / 500	No	W	ISOAI440PG	528.00
32 / 500	No	W	ISOAI432PG	530.00
50 / 500	No	W	ISOAI450PG	543.00

5 Round Pins

ISOAI510PG

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISOAI510PG	369.00
20 / 500	No	W	ISOAI520PG	369.00
40 / 500	No	W	ISOAI540PG	549.00
32 / 500	No	W	ISOAI532PG	552.00
50 / 500	No	W	ISOAI550PG	639.00

Appliance Inlets (Less Back Box)**3 Flat Pins**

ISOAI310PGLB

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	No	W	ISOAI310PGLB	195.00
10 / 250	Yes (Consult NHP)	W	ISOAI310PROLB	195.00
15 / 250	No	W	ISOAI315PGLB	216.00
15 / 250	Yes (Consult NHP)	W	ISOAI315PROLB	216.00

3 Round Pins

ISOAI332PROLB

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 250	No	W	ISOAI320PGLB	317.00
20 / 250	Yes (Consult NHP)	W	ISOAI320PROLB	317.00
32 / 250	No	W	ISOAI332PGLB	338.00
32 / 250	Yes (Consult NHP)	W	ISOAI332PROLB	338.00

4 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISOAI410PGLB	250.00
10 / 500	Yes (Consult NHP)	W	ISOAI410PROLB	250.00
20 / 500	No	W	ISOAI420PGLB	333.00
20 / 500	Yes (Consult NHP)	W	ISOAI420PROLB	333.00
32 / 500	No	W	ISOAI432PGLB	501.00
32 / 500	Yes (Consult NHP)	W	ISOAI432PROLB	501.00
40 / 500	No	W	ISOAI440PGLB	503.00
40 / 500	Yes (Consult NHP)	W	ISOAI440PROLB	503.00
50 / 500	No	W	ISOAI450PGLB	519.00
50 / 500	Yes (Consult NHP)	W	ISOAI450PROLB	519.00



ISOAI410PGLB

5 Round Pins

In / Ue (A / V AC)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	No	W	ISOAI510PGLB	343.00
10 / 500	Yes (Consult NHP)	W	ISOAI510PROLB	343.00
20 / 500	Yes (Consult NHP)	W	ISOAI520PROLB	343.00
20 / 500	No	W	ISOAI520PGLB	352.00
32 / 500	No	W	ISOAI532PGLB	524.00
32 / 500	Yes (Consult NHP)	W	ISOAI532PROLB	524.00
40 / 500	No	W	ISOAI540PGLB	524.00
40 / 500	Yes (Consult NHP)	W	ISOAI540PROLB	524.00
50 / 500	No	W	ISOAI550PGLB	612.00
50 / 500	Yes (Consult NHP)	W	ISOAI550PROLB	612.00



ISOAI550PGLB

ISO Switched MOD6 RCD Protected Outlets

The ISO range of Switched MOD6 RCD Protected Outlets with standard 4 gang back box is available in Grey (G), Resistant Orange (RO) and Resistant White (RW) material. All units come supplied with a 30mA MOD6 RCCB safety switch and are fully assembled and wired ready for installation.

Switched MOD6 RCD Protected Outlets

3 Flat Pins

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	30	Grey	No	W	ISOC310RCDPG	491.00
10 / 250	30	Resistant Orange	Yes (Consult NHP)	W	ISOC310RCDPRO	491.00
10 / 250	30	White	Yes (Consult NHP)	A,W	ISOC310RCDPRW	491.00
15 / 250	30	Grey	No	W	ISOC315RCDPG	508.00
15 / 250	30	Resistant Orange	Yes (Consult NHP)	W	ISOC315RCDPRO	515.00
15 / 250	30	White	Yes (Consult NHP)	A,W	ISOC315RCDPRW	515.00



ISOC310RCDPRW

2 Flat Pins 1 Round Earth

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	30	Grey	No	A,W	ISOC310LRCDPG	515.00
10 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC310LRCDPRO	515.00
10 / 250	30	White	Yes (Consult NHP)	A,W	ISOC310LRCDPRW	515.00



ISOC310LRCDPG

3 Round Pins

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 250	30	Grey	No	W	ISOC320RCDPG	1,071.00
20 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC320RCDPRO	1,081.00
32 / 250	30	Grey	No	W	ISOC332RCDPG	1,198.00
32 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC332RCDPRO	1,210.00



ISOC320RCDPRO



ISO432RCDPG

4 Round Pins

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	30	Grey	No	W	ISOC410RCDPG	1,102.00
10 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC410RCDPRO	1,102.00
10 / 500	30	White	Yes (Consult NHP)	A,W	ISOC410RCDPRW	1,102.00
20 / 500	30	Grey	No	W	ISOC420RCDPG	1,133.00
20 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC420RCDPRO	1,133.00
20 / 500	30	White	Yes (Consult NHP)	A,W	ISOC420RCDPRW	1,133.00
32 / 500	30	Grey	No	W	ISOC432RCDPG	1,243.00
32 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC432RCDPRO	1,243.00
32 / 500	30	White	Yes (Consult NHP)	A,W	ISOC432RCDPRW	1,243.00
40 / 500	30	Grey	No	W	ISOC440RCDPG	1,406.00
40 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC440RCDPRO	1,406.00
50 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC450RCDPRO	1,685.00
50 / 500	30	Grey	No	A,W	ISOC450RCDPG	1,702.00



ISO520RCDPRW

5 Round Pins

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	30	Grey	No	W	ISOC510RCDPG	1,155.00
10 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC510RCDPRO	1,155.00
10 / 500	30	White	Yes (Consult NHP)	A,W	ISOC510RCDPRW	1,155.00
20 / 500	30	Grey	No	W	ISOC520RCDPG	1,186.00
20 / 500	30	Resistant Orange	Yes (Consult NHP)	W	ISOC520RCDPRO	1,186.00
20 / 500	30	White	Yes (Consult NHP)	W	ISOC520RCDPRW	1,186.00
32 / 500	30	Grey	No	W	ISOC532RCDPG	1,354.00
32 / 500	30	Resistant Orange	Yes (Consult NHP)	W	ISOC532RCDPRO	1,354.00
32 / 500	30	White	Yes (Consult NHP)	A,W	ISOC532RCDPRW	1,354.00
40 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC540RCDPRO	1,468.00
40 / 500	30	Grey	No	W	ISOC540RCDPG	1,470.00
50 / 500	30	Grey	No	W	ISOC550RCDPG	1,729.00
50 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC550RCDPRO	1,747.00

ISO Switched MOD6 RCD Protected Outlets - In line

The ISO range of Switched MOD6 RCD Protected Outlets with In-line 4 gang back box is available in Grey (G), Resistant Orange (RO) and Resistant White (RW) material. All units come supplied with a 30mA MOD6 MCCB safety switch and fully assembled and wired ready for installation.

Switched MOD6 RCD Protected Outlets - In Line

3 Flat Pins



ISO310RCDPVHG

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
15 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC315RCDPVHRO	480.00
10 / 250	30	Grey	No	A,W	ISOC310RCDPVHG	499.00
10 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC310RCDPVHRO	499.00
10 / 250	30	White	Yes (Consult NHP)	A,W	ISOC310RCDPVHRW	504.00
15 / 250	30	Grey	No	A,W	ISOC315RCDPVHG	508.00
15 / 250	30	White	Yes (Consult NHP)	A,W	ISOC315RCDPVHRW	515.00

2 Flat Pins 1 Round Earth



ISO310LRCDPVHG

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	30	Grey	No	A,W	ISOC310LRCDPVHG	515.00
10 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC310LRCDPVHRO	515.00
10 / 250	30	White	Yes (Consult NHP)	A,W	ISOC310LRCDPVHRW	515.00

3 Round Pins



ISO320RCDPVHG

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 250	30	Grey	No	A,W	ISOC320RCDPVHG	1,081.00
20 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC320RCDPVHRO	1,081.00
32 / 250	30	Grey	No	A,W	ISOC332RCDPVHG	1,198.00
32 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC332RCDPVHRO	1,198.00

4 Round Pins

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	30	Grey	No	A,W	ISOC410RCDPVHG	1,102.00
10 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC410RCDPVHRO	1,102.00
10 / 500	30	White	Yes (Consult NHP)	A,W	ISOC410RCDPVHRW	1,113.00
20 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC420RCDPVHRO	1,133.00
20 / 500	30	Grey	No	A,W	ISOC420RCDPVHG	1,144.00
20 / 500	30	White	Yes (Consult NHP)	A,W	ISOC420RCDPVHRW	1,144.00
32 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC432RCDPVHRO	1,293.00
32 / 500	30	Grey	No	A,W	ISOC432RCDPVHG	1,305.00
32 / 500	30	White	Yes (Consult NHP)	A,W	ISOC432RCDPVHRW	1,305.00
40 / 500	30	Grey	No	A,W	ISOC440RCDPVHG	1,450.00
40 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC440RCDPVHRO	1,450.00
50 / 500	30	Grey	No	A,W	ISOC450RCDPVHG	1,702.00
50 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC450RCDPVHRO	1,702.00



ISOC410RCDPVHG

5 Round Pins

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	30	Grey	No	A,W	ISOC510RCDPVHG	1,166.00
10 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC510RCDPVHRO	1,176.00
10 / 500	30	White	Yes (Consult NHP)	A,W	ISOC510RCDPVHRW	1,176.00
20 / 500	30	Grey	No	W	ISOC520RCDPVHG	1,198.00
20 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC520RCDPVHRO	1,198.00
20 / 500	30	White	Yes (Consult NHP)	A,W	ISOC520RCDPVHRW	1,198.00
32 / 500	30	Grey	No	W	ISOC532RCDPVHG	1,354.00
32 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC532RCDPVHRO	1,354.00
32 / 500	30	White	Yes (Consult NHP)	A,W	ISOC532RCDPVHRW	1,368.00
40 / 500	30	Grey	No	A,W	ISOC540RCDPVHG	1,571.00
40 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC540RCDPVHRO	1,571.00
50 / 500	30	Grey	No	A,W	ISOC550RCDPVHG	1,763.00
50 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOC550RCDPVHRO	1,763.00



ISOC510RCDPVHG

ISO MOD6 RCD Protected Outlets

The ISO range of MOD6 RCD Protected Outlets with standard 3 gang back box are available in Grey (G), Resistant Orange (RO) and Resistant White (RW) material. All units come supplied with a 30 mA MOD6 MCCB safety switch and fully assembled and wired ready for installation.

MOD6 RCD Protected Outlets

3 Flat Pins

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	30	Grey	No	W	ISOSO310RCDPG	412.00
10 / 250	30	Resistant Orange	Yes (Consult NHP)	W	ISOSO310RCDPRO	412.00
10 / 250	30	White	Yes (Consult NHP)	A,W	ISOSO310RCDPRW	412.00
15 / 250	30	Grey	No	W	ISOSO315RCDPG	432.00
15 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOSO315RCDPRO	432.00
15 / 250	30	White	Yes (Consult NHP)	A,W	ISOSO315RCDPRW	432.00



ISOSO310RCDPRO

2 Flat Pins 1 Round Earth

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 250	30	Grey	No	A,W	ISOSO310LRCDPG	428.00
10 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOSO310LRCDPRO	436.00
10 / 250	30	White	Yes (Consult NHP)	A,W	ISOSO310LRCDPRW	436.00



ISOSO310LRCDPG

3 Round Pins

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
20 / 250	30	Grey	No	A,W	ISOSO320RCDPG	867.00
20 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOSO320RCDPRO	876.00
32 / 250	30	Grey	No	A,W	ISOSO332RCDPG	947.00
32 / 250	30	Resistant Orange	Yes (Consult NHP)	A,W	ISOSO332RCDPRO	947.00



ISOSO320RCDPRO



ISO410RCDPRO

4 Round Pins

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	30	Grey	No	A,W	ISO410RCDPG	898.00
10 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISO410RCDPRO	898.00
10 / 500	30	White	Yes (Consult NHP)	A,W	ISO410RCDPRW	898.00
20 / 500	30	Grey	No	W	ISO420RCDPG	927.00
20 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISO420RCDPRO	927.00
20 / 500	30	White	Yes (Consult NHP)	A,W	ISO420RCDPRW	927.00
32 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISO432RCDPRO	1,014.00
32 / 500	30	White	Yes (Consult NHP)	A,W	ISO432RCDPRW	1,014.00
32 / 500	30	Grey	No	W	ISO432RCDPG	1,024.00
40 / 500	30	Grey	No	A,W	ISO440RCDPG	1,182.00
40 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISO440RCDPRO	1,182.00
50 / 500	30	Grey	No	A,W	ISO450RCDPG	1,368.00
50 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISO450RCDPRO	1,368.00



ISO510RCDPG

5 Round Pins

In / Ue (A / V AC)	IΔn Trip (mA)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
10 / 500	30	Grey	No	W	ISO510RCDPG	939.00
10 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISO510RCDPRO	939.00
10 / 500	30	White	Yes (Consult NHP)	A,W	ISO510RCDPRW	939.00
20 / 500	30	Grey	No	W	ISO520RCDPG	985.00
20 / 500	30	Resistant Orange	Yes (Consult NHP)	W	ISO520RCDPRO	985.00
20 / 500	30	White	Yes (Consult NHP)	A,W	ISO520RCDPRW	985.00
32 / 500	30	White	Yes (Consult NHP)	A,W	ISO532RCDPRW	998.00
32 / 500	30	Grey	No	W	ISO532RCDPG	1,057.00
32 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISO532RCDPRO	1,068.00
40 / 500	30	Grey	No	I,W	ISO540RCDPG	1,211.00
40 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISO540RCDPRO	1,211.00
50 / 500	30	Grey	No	A,W	ISO550RCDPG	1,365.00
50 / 500	30	Resistant Orange	Yes (Consult NHP)	A,W	ISO550RCDPRO	1,377.00

ISO Keyed Switches

The ISO key operated switches are available in 2 and 3 pole versions, covering a current range of 20-50A. The product range is available in two main colours, Standard grey (G) and Resistant Orange (RO). Switch models include options with key retained in only the 'OFF' position and other's where key is retained in both the ON/OFF positions

- A considerably more robust design compared to suit a variety of installations
- An Australian made Key mechanism with a stainless-steel barrel insert for increased strength
- Padlockable facility remains for personal lock out requirements
- Designed, engineered, and tested in Australia for Australian and New Zealand conditions

Keyed Surface Switches (Including Back Box)

2 Pole



ISO1SW120PG

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	Housing (colour)	Locking (Position)	Item Type	Catalogue No.	\$AU
20 / 250	20	Grey	K1 = OFF Only	W	ISO1SW120PG	268.00
32 / 250	32	Grey	K1 = OFF Only	W	ISO1SW132PG	273.00
20 / 250	20	Grey	K2 = ON/OFF	W	ISO2SW120PG	280.00
32 / 250	32	Grey	K2 = ON/OFF	W	ISO2SW132PG	292.00

3 Pole



ISO1SW320PG

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	Housing (colour)	Locking (Position)	Item Type	Catalogue No.	\$AU
20 / 500	20	Grey	K1 = OFF Only	W	ISO1SW320PG	380.00
20 / 500	20	Grey	K2 = ON/OFF	W	ISO2SW320PG	393.00
32 / 500	32	Grey	K1 = OFF Only	W	ISO1SW332PG	431.00
32 / 500	32	Grey	K2 = ON/OFF	W	ISO2SW332PG	443.00
50 / 500	50	Grey	K1 = OFF Only	W	ISO1SW350PG	457.00
50 / 500	50	Grey	K2 = ON/OFF	W	ISO2SW350PG	469.00

Keyed Surface Switches (Less Back Box)

2 Pole

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	Housing (colour)	Chemical Resistance (body)	Locking (Position)	Item Type	Catalogue No.	\$AU
20 / 250	20	Grey	No	K1 = OFF Only	W	ISOK1SW120PGLB	254.00
20 / 250	20	Resistant Orange	No	K1 = OFF Only	W	ISOK1SW120PROLB	254.00
32 / 250	32	Grey	No	K1 = OFF Only	W	ISOK1SW132PGLB	260.00
32 / 250	32	Resistant Orange	No	K1 = OFF Only	W	ISOK1SW132PROLB	260.00
20 / 250	20	Grey	No	K2 = ON/OFF	W	ISOK2SW120PGLB	268.00
20 / 250	20	Resistant Orange	No	K2 = ON/OFF	W	ISOK2SW120PROLB	268.00
32 / 250	32	Grey	No	K2 = ON/OFF	W	ISOK2SW132PGLB	280.00
32 / 250	32	Resistant Orange	No	K2 = ON/OFF	W	ISOK2SW132PROLB	280.00



ISOK1SW120PROLB

3 Pole

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	Housing (colour)	Chemical Resistance (body)	Locking (Position)	Item Type	Catalogue No.	\$AU
20 / 500	20	Grey	No	K1 = OFF Only	W	ISOK1SW320PGLB	367.00
20 / 500	20	Resistant Orange	No	K1 = OFF Only	W	ISOK1SW320PROLB	367.00
20 / 500	20	Grey	No	K2 = ON/OFF	W	ISOK2SW320PGLB	380.00
20 / 500	20	Resistant Orange	No	K2 = ON/OFF	W	ISOK2SW320PROLB	380.00
32 / 500	32	Grey	No	K1 = OFF Only	W	ISOK1SW332PGLB	419.00
32 / 500	32	Resistant Orange	No	K1 = OFF Only	W	ISOK1SW332PROLB	419.00
32 / 500	32	Grey	No	K2 = ON/OFF	W	ISOK2SW332PGLB	431.00
32 / 500	32	Resistant Orange	No	K2 = ON/OFF	W	ISOK2SW332PROLB	431.00
50 / 500	50	Grey	No	K1 = OFF Only	W	ISOK1SW350PGLB	443.00
50 / 500	50	Resistant Orange	No	K1 = OFF Only	W	ISOK1SW350PROLB	443.00
50 / 500	50	Grey	No	K2 = ON/OFF	W	ISOK2SW350PGLB	457.00
50 / 500	50	Resistant Orange	No	K2 = ON/OFF	W	ISOK2SW350PROLB	457.00



ISOK1SW320PGLB

ISO Common Keyed Switches

The ISO keyed alike or common key operated switches are available in 2 and 3 pole versions, covering a current range of 20-50A. The product range is available in Standard grey (G) and Resistant Orange (RO). These switches are operated by the same key for both standard and medium security applications. This is a convenient option for applications where an operator must manage several locks either in the 'OFF' or 'ON' position and be more efficient.

- A considerably more robust design compared to suit a variety of installations
- Key Combinations are available from 000 - 200 to special order
- An Australian made Key mechanism with a stainless-steel barrel insert for increased strength
- Padlockable facility remains for personal lock out requirements
- Designed, engineered, and tested in Australia for Australian and New Zealand conditions

Common Keyed Surface Switches (Including Back Box)

2 Pole

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	Housing (colour)	Locking (Position)	Item Type	Catalogue No.	\$AU
20 / 250	20	Grey	K1 = OFF Only	A,W	ISOKC1SW120PG	253.00
32 / 250	32	Grey	K1 = OFF Only	A,W	ISOKC1SW132PG	258.00
20 / 250	20	Grey	K2 = ON/OFF	A,W	ISOKC2SW120PG	264.00
32 / 250	32	Grey	K2 = ON/OFF	A,W	ISOKC2SW132PG	276.00



ISOKC1SW120PG

3 Pole

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	Housing (colour)	Locking (Position)	Item Type	Catalogue No.	\$AU
20 / 500	20	Grey	K1 = OFF Only	A,W	ISOKC1SW320PG	359.00
20 / 500	20	Grey	K2 = ON/OFF	A,W	ISOKC2SW320PG	371.00
32 / 500	32	Grey	K1 = OFF Only	A,W	ISOKC1SW332PG	406.00
32 / 500	32	Grey	K2 = ON/OFF	A,W	ISOKC2SW332PG	418.00
50 / 500	50	Grey	K1 = OFF Only	A,W	ISOKC1SW350PG	431.00
50 / 500	50	Grey	K2 = ON/OFF	A,W	ISOKC2SW350PG	442.00



ISOKC1SW320PG

Common Keyed Surface Switches (Less Back Box)

2 Pole



ISOKC1SW120PGLB

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	Housing (colour)	Chemical Resistance (body)	Locking (Position)	Item Type	Catalogue No.	\$AU
20 / 250	20	Grey	No	K1 = OFF Only	A,W	ISOKC1SW120PGLB	240.00
20 / 250	20	Resistant Orange	No	K1 = OFF Only	A,W	ISOKC1SW120PROLB	240.00
32 / 250	32	Grey	No	K1 = OFF Only	A,W	ISOKC1SW132PGLB	246.00
32 / 250	32	Resistant Orange	No	K1 = OFF Only	A,W	ISOKC1SW132PROLB	246.00
20 / 250	20	Grey	No	K2 = ON/OFF	A,W	ISOKC2SW120PGLB	253.00
20 / 250	20	Resistant Orange	No	K2 = ON/OFF	A,W	ISOKC2SW120PROLB	253.00
32 / 250	32	Grey	No	K2 = ON/OFF	A,W	ISOKC2SW132PGLB	264.00
32 / 250	32	Resistant Orange	No	K2 = ON/OFF	A,W	ISOKC2SW132PROLB	264.00

3 Pole



ISOKC1SW320PGLB

In / Ue (A / V AC)	Ie, AC-23a (A @Ue)	Housing (colour)	Chemical Resistance (body)	Locking (Position)	Item Type	Catalogue No.	\$AU
20 / 500	20	Grey	No	K1 = OFF Only	A,W	ISOKC1SW320PGLB	347.00
20 / 500	20	Resistant Orange	No	K1 = OFF Only	A,W	ISOKC1SW320PROLB	347.00
20 / 500	20	Grey	No	K2 = ON/OFF	A,W	ISOKC2SW320PGLB	359.00
20 / 500	20	Resistant Orange	No	K2 = ON/OFF	A,W	ISOKC2SW320PROLB	359.00
32 / 500	32	Grey	No	K1 = OFF Only	A,W	ISOKC1SW332PGLB	395.00
32 / 500	32	Resistant Orange	No	K1 = OFF Only	A,W	ISOKC1SW332PROLB	395.00
32 / 500	32	Grey	No	K2 = ON/OFF	A,W	ISOKC2SW332PGLB	406.00
32 / 500	32	Resistant Orange	No	K2 = ON/OFF	A,W	ISOKC2SW332PROLB	406.00
50 / 500	50	Grey	No	K1 = OFF Only	A,W	ISOKC1SW350PGLB	418.00
50 / 500	50	Resistant Orange	No	K1 = OFF Only	A,W	ISOKC1SW350PROLB	418.00
50 / 500	50	Grey	No	K2 = ON/OFF	A,W	ISOKC2SW350PGLB	431.00
50 / 500	50	Resistant Orange	No	K2 = ON/OFF	A,W	ISOKC2SW350PROLB	431.00

ISO Back Boxes, RCD Covers and Accessories

The ISO Back Box range is available in a 1 gang to 9 gang in Grey (G), Resistant Orange (RO) and Resistant White (RW) PVC material.

The ISO MCB/RCD cover is suitable for any 2 gang back box and above in the ISO range. Available in Grey (G), Resistant Orange (RO) and Resistant White (RW) material, the 2 gang cover will accept any 4 pole width device and is supplied with mounting rail (35mm DIN rail) and mounting kit.

Back Boxes

1 Gang



ISOBB1G

Gangs (qty)	Type	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
1	Shallow	101 x 101 x 38	Grey	No	W	ISOBB1G	37.00
1	Standard	101 x 101 x 63	Grey	No	W	ISOBB1G	40.00
1	Standard	101 x 101 x 63	Resistant Orange	Yes (Consult NHP)	W	ISOBB1RO	40.00
1	Standard	101 x 101 x 63	Resistant White	Yes (Consult NHP)	W	ISOBB1RW	40.00

2 Gang



ISOBB2G

Gangs (qty)	Type	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
2	Shallow	101 x 198 x 38	Grey	No	W	ISOBB2G	71.00
2	Standard	101 x 198 x 63	Grey	No	W	ISOBB2G	81.00
2	Standard	101 x 198 x 63	Resistant White	Yes (Consult NHP)	W	ISOBB2RW	83.00
2	Standard	101 x 198 x 63	Resistant Orange	Yes (Consult NHP)	W	ISOBB2RO	84.00
2	Pendant	101 x 196 x 60	Grey	No	W	ISOBB2PENG	88.00
2	Pendant	101 x 196 x 60	Resistant Orange	Yes (Consult NHP)	W	ISOBB2PENRO	89.00
2	Pendant	101 x 196 x 60	Resistant White	Yes (Consult NHP)	W	ISOBB2PENRW	89.00
2	Extra Deep	101 x 198 x 100	Grey	No	W	ISOBB2EDG	115.00
2	Extra Deep	101 x 198 x 100	Resistant Orange	Yes (Consult NHP)	W	ISOBB2EDRO	115.00

3 Gang



ISOBB3G

Gangs (qty)	Type	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
3	Standard	101 x 294 x 63	Grey	No	W	ISOBB3G	125.00
3	Standard	101 x 294 x 63	Resistant White	Yes (Consult NHP)	W	ISOBB3RW	125.00
3	Standard	101 x 294 x 63	Resistant Orange	Yes (Consult NHP)	W	ISOBB3RO	127.00

4 Gang

Gangs (qty)	Type	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
4	Standard	198 x 198 x 63	Grey	No	W	ISOBB4G	170.00
4	Standard	198 x 198 x 63	Resistant Orange	Yes (Consult NHP)	W	ISOBB4RO	170.00
4	Standard	198 x 198 x 63	Resistant White	Yes (Consult NHP)	W	ISOBB4RW	170.00
4	In Line	101 x 391 x 63	Grey	No	W	ISOBB4VHG	184.00
4	In Line	101 x 391 x 63	Resistant Orange	Yes (Consult NHP)	W	ISOBB4VHRO	184.00
4	In Line	101 x 391 x 63	Resistant White	Yes (Consult NHP)	W	ISOBB4VHRW	184.00



6 Gang

Gangs (qty)	Type	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
6	Standard	198 x 294 x 63	Grey	No	W	ISOBB6G	248.00
6	Standard	198 x 294 x 63	Resistant Orange	Yes (Consult NHP)	W	ISOBB6RO	248.00



9 Gang

Gangs (qty)	Type	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
9	Standard	294 x 294 x 63	Grey	No	W	ISOBB9G	397.00
9	Standard	294 x 294 x 63	Resistant Orange	Yes (Consult NHP)	W	ISOBB9RO	397.00



RCD Covers (For Back Boxes)

Gangs (qty)	Type	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
2	RCD covers and Accessories	198 x 101 x 45	Grey	No	W	ISORCDNPG	77.00
2	RCD covers and Accessories	198 x 101 x 45	Resistant Orange	Yes (Consult NHP)	W	ISORCDNPRO	77.00
2	RCD covers and Accessories	198 x 101 x 45	Resistant White	Yes (Consult NHP)	W	ISORCDNPRW	77.00



Lids (For Back Boxes)

1 Gang

Gangs (qty)	Type	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
1	RCD covers and Accessories	101 x 101 x 28	Grey	No	W	ISOBBL1G	23.00
1	RCD covers and Accessories	101 x 101 x 28	Resistant Orange	Yes (Consult NHP)	W	ISOBBL1RO	23.00
1	RCD covers and Accessories	101 x 101 x 28	Resistant White	Yes (Consult NHP)	W	ISOBBL1RW	23.00



2 Gang

Gangs (qty)	Type	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
2	RCD covers and Accessories	198 x 101 x 28	Grey	No	W	ISOBBL2G	46.00
2	RCD covers and Accessories	198 x 101 x 28	Resistant Orange	Yes (Consult NHP)	W	ISOBBL2RO	46.00



Lids with 22.5mm Cut-Out(s) (For Back Boxes)

1 Gang



ISOL1H2RO

Gangs (qty)	Type	Operator (cutouts)	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
1	RCD covers and Accessories	1 x 22.5mm	94 x 94 x 28	Grey	No	W	ISOL1H1G	36.00
1	RCD covers and Accessories	1 x 22.5mm	94 x 94 x 28	Resistant Orange	Yes (Consult NHP)	W	ISOL1H1RO	36.00
1	RCD covers and Accessories	1 x 22.5mm	94 x 94 x 28	Resistant White	Yes (Consult NHP)	W	ISOL1H1RW	36.00
1	RCD covers and Accessories	2 x 22.5mm	94 x 94 x 28	Grey	No	W	ISOL1H2G	46.00
1	RCD covers and Accessories	2 x 22.5mm	94 x 94 x 28	Resistant Orange	Yes (Consult NHP)	W	ISOL1H2RO	46.00
1	RCD covers and Accessories	2 x 22.5mm	94 x 94 x 28	Resistant White	Yes (Consult NHP)	W	ISOL1H2RW	46.00

2 Gang



ISOL2H3RO

Gangs (qty)	Type	Operator (cutouts)	H x W x D (mm)	Housing (colour)	Chemical Resistance (body)	Item Type	Catalogue No.	\$AU
2	RCD covers and Accessories	2 x 22.5mm	190 x 94 x 28	Grey	No	W	ISOL2H2G	75.00
2	RCD covers and Accessories	2 x 22.5mm	190 x 94 x 28	Resistant Orange	Yes (Consult NHP)	W	ISOL2H2RO	75.00
2	RCD covers and Accessories	3 x 22.5mm	190 x 94 x 28	Grey	No	W	ISOL2H3G	83.00
2	RCD covers and Accessories	3 x 22.5mm	190 x 94 x 28	Resistant Orange	Yes (Consult NHP)	W	ISOL2H3RO	83.00

Pendant Brackets & Screw caps



ISOBKBB

Item Description	Item Type	Catalogue No.	\$AU
10A-50A Round Pin Pendant Bracket Large	W	ISOBKLL	11.00
10-15A Flat Pin Pendant Bracket Small	W	ISOBKSL	11.00
10-20A Flat Pin Pendant Bracket Stainless Steel		ISOBKSL1	11.00
Cover Screw Caps Grey (Qty 200)		ISOCAPG	12.00
Cover Screw Caps RO (Qty 200)		ISOCAPRO	12.00
Cover Screw Caps RW (Qty 200)		ISOCAPRW	12.00
Switched Socket Pendant Kit	W	ISOBKBB	82.00

Brass Earthing Plates (To suit SWA Glands)



ISOSWAGLANDSH

Gland (cutout(s))	Item Description	Item Type	Catalogue No.	\$AU
2 x [M20 x 1.5]	Brass Earthing Plate to suit SWA Gland For Shallow Back Box	W	ISOSWAGLANDSH	59.00
2 x [M25 x 1.5]	Brass Earthing Plate to suit SWA Gland For 1, 2 & 3 Gang Back Box	W	ISOSWAGLAND	65.00

High Current Plugs and Sockets

Proconect High Current Plugs and Sockets

3PV4 High Current Plugs and Sockets	Page 993
3PV5 High Current Plugs and Sockets	Page 995
3PV6 High Current Plugs and Sockets	Page 996
3PX4 High Current Plugs and Sockets	Page 998
3PX5 High Current Plugs and Sockets	Page 999
3PX6 High Current Plugs and Sockets	Page 1001

- Screw ring (3PV) or push-pull connection (3PX) system where high vibration or regular use is expected
- Selection of current ratings from 160A to a maximum of 660A at 3.3kV (11kV available on request)
- 4 or 5 poles with pilot pins as standard to ensure no disconnection can be made under load
- Silver-plated self-cleaning slotted sleeve contacts guarantees a solid contact every time
- Corrosion-proof tempered cast aluminium casing including stainless steel fastenings for use in the most arduous applications.
- High ingress protection, and exceptional impact resistance; IP 67/IK 10

Used in heavy duty applications, the 3PV and 3PX range of high current plugs and sockets suits a variety of industries including mining, marine, transportation, and commercial applications.

Proconect 3PV / 3PX plugs and sockets are available in either a screw ring (3PV) or push-pull connection (3PX) system where regular use or high vibration is expected. With current ratings starting at 160A with a maximum of 660A (at 3.3 kV), the 3PV / 3PX also features IP67 / IK 10 ingress and impact protection for the harsh Australian environment. Made with corrosion proof tempered cast aluminium including stainless steel fastenings, the 3PV / 3PX range provides the right solution for the most arduous applications.



3PV4 High Current Plugs and Sockets

Socket Outlets - 3PV4

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	160	35 mm²	Fast-On Crimp Terminal(s)	I	V4DE335	3,170.00
4P + 2p	160	16 mm² - 35 mm²	Screw Terminal(s)	I	V4DE335V	3,170.00
4P + 2p	200	50 mm²	Fast-On Crimp Terminal(s)	I	V4DE350	3,170.00
4P + 2p	250	50 mm² - 70 mm²	Screw Terminal(s)	I	V4DE350V	3,170.00
4P + 2p	250	70 mm²	Fast-On Crimp Terminal(s)	I	V4DE370	3,170.00
4P + 2p	250	95 mm²	Fast-On Crimp Terminal(s)	I	V4DE395	3,170.00



V4DE395

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	160	35 mm²	Fast-On Crimp Terminal(s)	I	V4DE435	3,294.00
5P + 2p	160	16 mm² - 35 mm²	Screw Terminal(s)	I	V4DE435V	3,294.00
5P + 2p	200	50 mm²	Fast-On Crimp Terminal(s)	I	V4DE450	3,294.00
5P + 2p	250	50 mm² - 70 mm²	Screw Terminal(s)	I	V4DE450V	3,294.00
5P + 2p	250	70 mm²	Fast-On Crimp Terminal(s)	I	V4DE470	3,294.00



V4DE470

Plugs - 3PV4

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	160	35 mm²	Fast-On Crimp Terminal(s)	I	V4PR335	4,214.00
4P + 2p	160	16 mm² - 35 mm²	Screw Terminal(s)	I	V4PR335V	4,214.00
4P + 2p	200	50 mm²	Fast-On Crimp Terminal(s)	I	V4PR350	4,214.00
4P + 2p	250	50 mm² - 70 mm²	Screw Terminal(s)	I	V4PR350V	4,214.00
4P + 2p	250	70 mm²	Fast-On Crimp Terminal(s)	I	V4PR370	4,214.00
4P + 2p	250	95 mm²	Fast-On Crimp Terminal(s)	I	V4PR395	4,214.00



V4PR395

5 Pole + 2 Pilot Pins



V4PR450V

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	V4PR435	4,433.00
5P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	V4PR435V	4,433.00
5P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	V4PR450	4,433.00
5P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	V4PR450V	4,433.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V4PR470	4,433.00

Extension Sockets - 3PV4

4 Pole + 2 Pilot Pins



V4CE370

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	V4CE335	4,760.00
4P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	V4CE335V	4,760.00
4P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	V4CE350	4,760.00
4P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	V4CE350V	4,760.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V4CE370	4,760.00
4P + 2p	250	95 mm ²	Fast-On Crimp Terminal(s)	I	V4CE395	4,760.00

5 Pole + 2 Pilot Pins



V4CE450

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	160	16 mm ² - 35 mm ²	Fast-On Crimp Terminal(s)	I	V4CE435	5,041.00
5P + 2p	160	35 mm ² - 16 mm ² - 35 mm ²	Screw Terminal(s)	I	V4CE435V	5,041.00
5P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	V4CE450	5,041.00
5P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	V4CE450V	5,041.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V4CE470	5,041.00

Appliance Inlets - 3PV4

4 Pole + 2 Pilot Pins



V4AR350

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	V4AR335	3,981.00
4P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	V4AR335V	3,981.00
4P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	V4AR350	3,981.00
4P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	V4AR350V	3,981.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V4AR370	3,981.00
4P + 2p	250	95 mm ²	Fast-On Crimp Terminal(s)	I	V4AR395	3,981.00

5 Pole + 2 Pilot Pins



V4AR450V

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	V4AR435	4,167.00
5P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	V4AR435V	4,167.00
5P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	V4AR450	4,167.00
5P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	V4AR450V	4,167.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V4AR470	4,167.00

Accessories - 3PV4

Item Description	Item Type	Catalogue No.	\$AU
3PV4 Appliance Inlet Plug Cap	I	3PV4PC	902.00

3PV5 High Current Plugs and Sockets

Socket Outlets - 3PV5

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	370	120 mm ²	Fast-On Crimp Terminal(s)	I	V5DE312	3,825.00
4P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	V5DE315	3,825.00
4P + 2p	420	185 mm ²	Fast-On Crimp Terminal(s)	I	V5DE318	3,825.00
4P + 2p	420	240 mm ²	Fast-On Crimp Terminal(s)	I	V5DE324	3,825.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V5DE370	3,825.00
4P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	V5DE395	3,825.00
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V5DE31816	4,090.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V5DE32418	4,090.00



V5DE395

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	320	120 mm ²	Fast-On Crimp Terminal(s)	I	V5DE412	3,887.00
5P + 2p	320	150 mm ²	Fast-On Crimp Terminal(s)	I	V5DE415	3,887.00
5P + 2p	320	185 mm ²	Fast-On Crimp Terminal(s)	I	V5DE418	3,887.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V5DE470	3,887.00
5P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	V5DE495	3,887.00
5P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	V5DE41516	4,090.00
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V5DE41816	4,090.00



V5DE418

Plugs - 3PV5

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	370	120 mm ²	Fast-On Crimp Terminal(s)	I	V5PR312	5,291.00
4P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	V5PR315	5,291.00
4P + 2p	420	185 mm ²	Fast-On Crimp Terminal(s)	I	V5PR318	5,291.00
4P + 2p	420	240 mm ²	Fast-On Crimp Terminal(s)	I	V5PR324	5,291.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V5PR370	5,291.00
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V5PR31816	5,632.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V5PR32418	5,632.00
4P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	V5PR395	6,132.00



V5PR312

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	320	120 mm ²	Fast-On Crimp Terminal(s)	I	V5PR412	5,463.00
5P + 2p	320	150 mm ²	Fast-On Crimp Terminal(s)	I	V5PR415	5,463.00
5P + 2p	320	185 mm ²	Fast-On Crimp Terminal(s)	I	V5PR418	5,463.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V5PR470	5,463.00
5P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	V5PR495	5,463.00
5P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	V5PR41516	5,632.00
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V5PR41816	5,632.00



V5PR412

Extension Sockets - 3PV5

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	370	120 mm ²	Fast-On Crimp Terminal(s)	I	V5CE312	5,790.00
4P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	V5CE315	5,790.00
4P + 2p	420	185 mm ²	Fast-On Crimp Terminal(s)	I	V5CE318	5,790.00
4P + 2p	420	240 mm ²	Fast-On Crimp Terminal(s)	I	V5CE324	5,790.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V5CE370	5,790.00
4P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	V5CE395	5,790.00
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V5CE31816	6,195.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V5CE32418	6,195.00



V5CE395

5 Pole + 2 Pilot Pins



V5CE470

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	320	120 mm ²	Fast-On Crimp Terminal(s)	I	V5CE412	6,009.00
5P + 2p	320	150 mm ²	Fast-On Crimp Terminal(s)	I	V5CE415	6,009.00
5P + 2p	320	185 mm ²	Fast-On Crimp Terminal(s)	I	V5CE418	6,009.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V5CE470	6,009.00
5P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	V5CE495	6,009.00
5P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	V5CE41516	6,195.00
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V5CE41816	6,195.00

Appliance Inlet - 3PV5

4 Pole + 2 Pilot Pins



V5AR324

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	370	120 mm ²	Fast-On Crimp Terminal(s)	I	V5AR312	6,023.00
4P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	V5AR315	6,023.00
4P + 2p	420	185 mm ²	Fast-On Crimp Terminal(s)	I	V5AR318	6,023.00
4P + 2p	420	240 mm ²	Fast-On Crimp Terminal(s)	I	V5AR324	6,023.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V5AR370	6,023.00
4P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	V5AR395	6,023.00
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V5AR31816	6,351.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V5AR32418	6,351.00

5 Pole + 2 Pilot Pins



V5AR495

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	320	120 mm ²	Fast-On Crimp Terminal(s)	I	V5AR412	6,163.00
5P + 2p	320	150 mm ²	Fast-On Crimp Terminal(s)	I	V5AR415	6,163.00
5P + 2p	320	185 mm ²	Fast-On Crimp Terminal(s)	I	V5AR418	6,163.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	V5AR470	6,163.00
5P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	V5AR495	6,163.00
5P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	V5AR41516	6,351.00
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V5AR41816	6,351.00

Accessories - 3PV5

Item Description	Item Type	Catalogue No.	\$AU
3PV5 Appliance Inlet Plug Cap	I	3PV5PC	1,352.00

3PV6 High Current Plugs and Sockets

Socket Outlets - 3PV6

4 Pole + 2 Pilot Pins



V6DF330

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V6DF318	7,333.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V6DF324	7,333.00
4P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	V6DF330	7,333.00

5 Pole + 2 Pilot Pins



V6DF430

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V6DF418	8,066.00
5P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V6DF424	8,066.00
5P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	V6DF430	8,066.00

Plugs - 3PV6

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V6PM318	8,393.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V6PM324	8,393.00
4P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	V6PM330	8,393.00



V6PM318

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V6PM418	9,065.00
5P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V6PM424	9,065.00
5P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	V6PM430	9,065.00

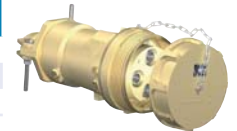


V6PM430

Extension Socket - 3PV6

4 Pole + 2 Pilot Pins

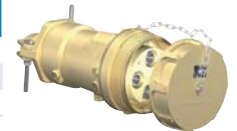
Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V6CF318	10,048.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V6CF324	10,048.00
4P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	V6CF330	10,048.00



V6CF318

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V6CF418	10,577.00
5P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V6CF424	10,577.00
5P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	V6CF430	10,577.00



V6CF418

Appliance Inlet - 3PV6

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V6AM318	7,896.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V6AM324	7,896.00
4P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	V6AM330	7,896.00



V6AM318

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	V6AM418	8,628.00
5P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	V6AM424	8,628.00
5P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	V6AM430	8,628.00



V6AM418

Accessories - 3PV6

Item Description	Item Type	Catalogue No.	\$AU
3PV6 Appliance Inlet Plug Cap	I	3PV6PC	1,712.00

3PX4 High Current Plugs and Sockets

Socket Outlets - 3PX4

4 Pole + 2 Pilot Pins



X4DE335V

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	X4DE335	5,041.00
4P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	X4DE335V	5,041.00
4P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	X4DE350	5,041.00
4P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	X4DE350V	5,041.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X4DE370	5,041.00
4P + 2p	250	95 mm ²	Fast-On Crimp Terminal(s)	I	X4DE395	5,041.00

5 Pole + 2 Pilot Pins



X4DE435V

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	X4DE435	5,180.00
5P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	X4DE435V	5,180.00
5P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	X4DE450	5,180.00
5P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	X4DE450V	5,180.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X4DE470	5,180.00

Angled Plugs - 3PX4

4 Pole + 2 Pilot Pins



X4PR395

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	X4PR335	4,417.00
4P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	X4PR335V	4,417.00
4P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	X4PR350	4,417.00
4P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	X4PR350V	4,417.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X4PR370	4,417.00
4P + 2p	250	95 mm ²	Fast-On Crimp Terminal(s)	I	X4PR395	4,417.00

5 Pole + 2 Pilot Pins



X4PR450V

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	X4PR435	4,558.00
5P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	X4PR435V	4,558.00
5P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	X4PR450	4,558.00
5P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	X4PR450V	4,558.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X4PR470	4,558.00

Straight Plugs - 3PX4

4 Pole + 2 Pilot Pins



X4PR350S

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	X4PR335S	4,417.00
4P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	X4PR335VS	4,417.00
4P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	X4PR350S	4,417.00
4P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	X4PR350VS	4,417.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X4PR370S	4,417.00
4P + 2p	250	95 mm ²	Fast-On Crimp Terminal(s)	I	X4PR395S	4,417.00

5 Pole + 2 Pilot Pins



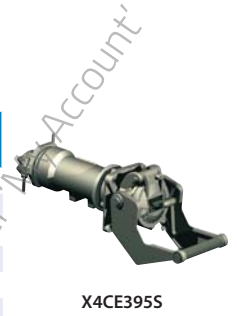
X4PR435VS

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	X4PR435S	4,558.00
5P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	X4PR435VS	4,558.00
5P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	X4PR450S	4,558.00
5P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	X4PR450VS	4,558.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X4PR470S	4,558.00

Extension Sockets - 3PX4

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	X4CE335S	5,603.00
4P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	X4CE335VS	5,603.00
4P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	X4CE350S	5,603.00
4P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	X4CE350VS	5,603.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X4CE370S	5,603.00
4P + 2p	250	95 mm ²	Fast-On Crimp Terminal(s)	I	X4CE395S	5,603.00



X4CE395S

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	160	35 mm ²	Fast-On Crimp Terminal(s)	I	X4CE435S	5,742.00
5P + 2p	160	16 mm ² - 35 mm ²	Screw Terminal(s)	I	X4CE435VS	5,742.00
5P + 2p	200	50 mm ²	Fast-On Crimp Terminal(s)	I	X4CE450S	5,742.00
5P + 2p	250	50 mm ² - 70 mm ²	Screw Terminal(s)	I	X4CE450VS	5,742.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X4CE470S	5,742.00



X4CE450VS

3PX5 High Current Plugs and Sockets

Socket Outlets - 3PX5

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	370	120 mm ²	Fast-On Crimp Terminal(s)	I	X5DE312	6,023.00
4P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	X5DE315	6,023.00
4P + 2p	420	185 mm ²	Fast-On Crimp Terminal(s)	I	X5DE318	6,023.00
4P + 2p	420	240 mm ²	Fast-On Crimp Terminal(s)	I	X5DE324	6,023.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X5DE370	6,023.00
4P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	X5DE395	6,023.00
4P + 2p	370	120 mm ²	Fast-On Crimp Terminal(s)	I	X5DR312	6,023.00
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X5DE31816	6,523.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	X5DE32418	6,523.00

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	320	120 mm ²	Fast-On Crimp Terminal(s)	I	X5DE412	6,211.00
5P + 2p	320	120 mm ²	Fast-On Crimp Terminal(s)	I	X5DE41235	6,211.00
5P + 2p	320	150 mm ²	Fast-On Crimp Terminal(s)	I	X5DE415	6,211.00
5P + 2p	320	185 mm ²	Fast-On Crimp Terminal(s)	I	X5DE418	6,211.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X5DE470	6,211.00
5P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	X5DE495	6,211.00
5P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	X5DE49525	6,211.00
5P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	X5DE41516	6,523.00
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X5DE41816	6,523.00

Angled Plugs - 3PX5

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	370	120 mm ²	Fast-On Crimp Terminal(s)	I	X5PE312	4,853.00
4P + 2p	370	120 mm ²	Fast-On Crimp Terminal(s)	I	X5PR312	4,853.00
4P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	X5PR315	4,853.00
4P + 2p	420	185 mm ²	Fast-On Crimp Terminal(s)	I	X5PR318	4,853.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X5PR370	4,853.00
4P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	X5PR395	4,853.00
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X5PR31816	5,383.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	X5PR32418	5,383.00



X5PR312

5 Pole + 2 Pilot Pins



X5PR412

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	320	120 mm ²	Fast-On Crimp Terminal(s)	I	X5PR412	5,119.00
5P + 2p	320	150 mm ²	Fast-On Crimp Terminal(s)	I	X5PR415	5,119.00
5P + 2p	320	185 mm ²	Fast-On Crimp Terminal(s)	I	X5PR418	5,119.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X5PR470	5,119.00
5P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	X5PR495	5,119.00
5P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	X5PR41516	5,383.00
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X5PR41816	5,383.00

Straight Plugs - 3PX5

4 Pole + 2 Pilot Pins



X5PR312S

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	420	120 mm ²	Fast-On Crimp Terminal(s)	I	X5PR312S	4,853.00
4P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	X5PR315S	4,853.00
4P + 2p	420	185 mm ²	Fast-On Crimp Terminal(s)	I	X5PR318S	4,853.00
4P + 2p	420	240 mm ²	Fast-On Crimp Terminal(s)	I	X5PR324S	4,853.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X5PR370S	4,853.00
4P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	X5PR395S	4,853.00
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X5PR318S16	5,383.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	X5PR324S18	5,383.00

5 Pole + 2 Pilot Pins



X5PR412S

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	320	120 mm ²	Fast-On Crimp Terminal(s)	I	X5PR412S	5,119.00
5P + 2p	320	150 mm ²	Fast-On Crimp Terminal(s)	I	X5PR415S	5,119.00
5P + 2p	320	185 mm ²	Fast-On Crimp Terminal(s)	I	X5PR418S	5,119.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X5PR470S	5,119.00
5P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	X5PR495S	5,119.00
5P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	X5PR415S16	5,383.00
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X5PR418S16	5,383.00

Extension Sockets - 3PX5

4 Pole + 2 Pilot Pins



X5CE315S

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	420	120 mm ²	Fast-On Crimp Terminal(s)	I	X5CE312S	6,866.00
4P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	X5CE315S	6,866.00
4P + 2p	420	185 mm ²	Fast-On Crimp Terminal(s)	I	X5CE318S	6,866.00
4P + 2p	420	240 mm ²	Fast-On Crimp Terminal(s)	I	X5CE324S	6,866.00
4P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X5CE370S	6,866.00
4P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	X5CE395S	6,866.00
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X5CE318S16	7,429.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	X5CE324S18	7,429.00

5 Pole + 2 Pilot Pins



X5CE495S

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	320	120 mm ²	Fast-On Crimp Terminal(s)	I	X5CE412S	7,068.00
5P + 2p	320	150 mm ²	Fast-On Crimp Terminal(s)	I	X5CE415S	7,068.00
5P + 2p	320	185 mm ²	Fast-On Crimp Terminal(s)	I	X5CE418S	7,068.00
5P + 2p	250	70 mm ²	Fast-On Crimp Terminal(s)	I	X5CE470S	7,068.00
5P + 2p	320	95 mm ²	Fast-On Crimp Terminal(s)	I	X5CE495S	7,068.00
5P + 2p	420	150 mm ²	Fast-On Crimp Terminal(s)	I	X5CE415S16	7,429.00
5P + 2p	400	185 mm ²	Fast-On Crimp Terminal(s)	I	X5CE418S16	7,429.00

3PX6 High Current Plugs and Sockets

Socket Outlets - 3PX6

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X6DF318	8,832.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	X6DF324	8,832.00
4P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	X6DF330	8,832.00



X6DF330

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X6DF418	9,844.00
5P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	X6DF424	9,844.00
5P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	X6DF430	9,844.00



X6DF424

Straight Plugs - 3PX6

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X6PM318S	8,660.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	X6PM324S	8,660.00
4P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	X6PM330S	8,660.00



X6PM324S

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X6PM418S	9,391.00
5P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	X6PM424S	9,391.00
5P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	X6PM430S	9,391.00



X6PM430S

Extension Sockets - 3PX6

4 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
4P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X6CF318S	12,029.00
4P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	X6CF324S	12,029.00
4P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	X6CF330S	12,029.00



X6CF324S

5 Pole + 2 Pilot Pins

Contacts	Ie (A,max)	Cable Size (mm ²)	Terminal	Item Type	Catalogue No.	\$AU
5P + 2p	500	185 mm ²	Fast-On Crimp Terminal(s)	I	X6CF418S	12,887.00
5P + 2p	570	240 mm ²	Fast-On Crimp Terminal(s)	I	X6CF424S	12,887.00
5P + 2p	660	300 mm ²	Fast-On Crimp Terminal(s)	I	X6CF430S	12,887.00



X6CF424S

Isolating Plugs and Sockets

Proconnect Plugs and Sockets



- Available in five sizes including 30A, 50A, 90A, 150A and 250A (Maximum current rating to IEC60309)
- 3, 4 and 5 pin configurations with optional pilot pins, silver alloy tipped for low voltage drop and high arc resistance
- AC23 rating for making and breaking high inductive loads
- Connect and disconnect under load, eliminates the need for switching
- Interlocked socket and appliance inlet with 24 insert settings (Factory Set) preventing mismatching for a safe and reliable connection
- High ingress protection and exceptional impact resistance, IP66 / IK 08
- Resistance to most industrial chemicals, detergents and exposure to UV light
- Range of angled wall boxes, incline sleeves and handles for all plug and socket combinations

Proconnect is a world leader in the manufacture of industrial plugs and sockets for the mining, food processing, commercial, rail and marine industries.

The 3PS isolating plugs and sockets from Proconnect are available in five sizes, 30A, 50A, 90A, 150A and 250A. These ratings are maximum rated currents tested against the IEC 60309-1 standard.

The benefits of the isolating plugs and sockets are that it eliminates the need for a switch and ensures that power is available where and when it is required with complete safety to the operator. The socket outlet and appliance inlet are interlocked and then switched when engaged, making the connection and disconnection under load, safe and reliable.

3PS Series Assemblies

**Angled wall box and
socket outlet**



**Handle and socket
outlet**



**Angled wall box and
appliance inlet**



**Handle and appliance
inlet**



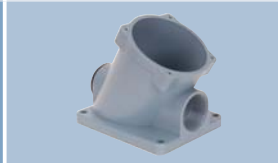
+



+



+



+



3PS_D01

30A Deconnector Plugs and Sockets (3PS16 Series)

The Proconnect 3PS range of Deconnector™ isolating plugs and sockets are available in five sizes: 30A, 50A, 90A, 150A and 250A. These ratings are maximum rated currents tested against the IEC 60309-1 standard. The main benefit of the isolating plugs and sockets is that it eliminates the need for a switch, and ensures that power is available where and when it is required. The socket outlet and appliance inlet are interlocked and then switched when engaged, making the connection and disconnection under load safe and reliable. Connectors in the 3PS series discriminate so only connection between the same voltage, amperage and number of poles is possible. They are the complete answer for industrial safety without the need for specialised personnel.

Socket Outlets

Contacts	AC-23 (A@440V)	Flex Cable (max)	Ue (V AC)	Item Type	Catalogue No.	\$AU
1P + N + E	16	6 mm ²	220 - 240		3PS1D1NE01	361.00
3P + E	16	6 mm ²	380 - 440		3PS1D30E01	390.00
3P + N + E	16	6 mm ²	380 - 440		3PS1D3NE01	455.00
1P + N + E + 2p	16	6 mm ²	220 - 240	I	3PS16D1NE01P	554.00
3P + E + 2p	16	6 mm ²	380 - 440		3PS16D30E01P	579.00
3P + N + E + 2p	16	6 mm ²	380 - 440		3PS16D3NE01P	624.00



3PS1D1NE01

Appliance Inlets

Contacts	AC-23 (A@440V)	Flex Cable (max)	Ue (V AC)	Item Type	Catalogue No.	\$AU
1P + N + E	16	6 mm ²	220 - 240		3PS1A1NE01	192.00
3P + E	16	6 mm ²	380 - 440		3PS1A30E01	213.00
3P + N + E	16	6 mm ²	380 - 440		3PS1A3NE01	241.00
1P + N + E + 2p	16	6 mm ²	220 - 240	I	3PS16A1NE01P	252.00
3P + E + 2p	16	6 mm ²	380 - 440		3PS16A30E01P	271.00
3P + N + E + 2p	16	6 mm ²	380 - 440		3PS16A3NE01P	296.00



3PS1A1NE01

Accessories

Item Description	Item Type	Catalogue No.	\$AU
3PS16 30° incline sleeve		3PS1LB	56.00
3PS16 handle, suits cable with outside diameter 9 - 18mm		3PS1G	61.00
3PS16 handle with M32 cable gland, suits cable with outside diameter 18 - 25mm		3PS1GFP	66.00
3PS16 Appliance Inlet Plug Cap		3PS1PC	76.00
3PS16 30° angled wall box, M20x1.5 entry (without cable gland)		3PS1WAS	86.00



3PS1GFP

50A Deconnector Plugs and Sockets (3PS32 Series)

Socket Outlets

Contacts	AC-23 (A@440V)	Flex Cable (max)	Ue (V AC)	Item Type	Catalogue No.	\$AU
1P + N + E	32	10 mm ²	220 - 240		3PS3D1NE01	516.00
3P + E	32	10 mm ²	380 - 440		3PS3D30E01	557.00
3P + N + E	32	10 mm ²	380 - 440		3PS3D3NE01	624.00
3P + E + 2p	32	10 mm ²	380 - 440		3PS32D30E01P	709.00
3P + N + E + 2p	32	10 mm ²	380 - 440		3PS32D3NE01P	761.00



3PS3D1NE01

Appliance Inlets

Contacts	AC-23 (A@440V)	Flex Cable (max)	Ue (V AC)	Item Type	Catalogue No.	\$AU
1P + N + E	32	10 mm ²	220 - 240		3PS3A1NE01	284.00
3P + E	32	10 mm ²	380 - 440		3PS3A30E01	328.00
3P + N + E	32	10 mm ²	380 - 440		3PS3A3NE01	366.00
3P + E + 2p	32	10 mm ²	380 - 440		3PS32A30E01P	395.00
3P + N + E + 2p	32	10 mm ²	380 - 440		3PS32A3NE01P	447.00



3PS3A1NE01

Accessories

Item Description	Item Type	Catalogue No.	\$AU
3PS32 Incline Sleeve 30Deg		3PS3LB	80.00
3PS32 Handle Suits Cable Diam 8-22mm		3PS3G	84.00
3PS32 Handle With M40 Cable Gland Suits Cable Diam 22-32mm		3PS3GFP	86.00
3PS32 Wall Box 30Deg M25X1.5 Entry Without Cable Gland		3PS3WAS	95.00
3PS32 Appliance Inlet Plug Cap		3PS3PC	111.00



3PS3WAS

90A Deconnector Plugs and Sockets (3PS63 Series)

Socket Outlets



3PS6D1NE01

Contacts	AC-23 (A@440V)	Flex Cable (max)	Ue (V AC)	Item Type	Catalogue No.	\$AU
1P + N + E	63	35 mm ²	220 - 240		3PS6D1NE01	697.00
3P + E	63	35 mm ²	380 - 440		3PS6D30E01	747.00
3P + N + E	63	35 mm ²	380 - 440		3PS6D3NE01	834.00
1P + N + E + 2p	63	35 mm ²	220 - 240	I	3PS6D1NE01P	850.00
3P + E + 2p	63	35 mm ²	380 - 440		3PS6D30E01P	1,039.00
3P + N + E + 2p	63	35 mm ²	380 - 440		3PS6D3NE01P	1,155.00

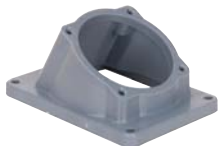
Appliance Inlets



3PS6A1NE01

Contacts	AC-23 (A@440V)	Flex Cable (max)	Ue (V AC)	Item Type	Catalogue No.	\$AU
1P + N + E	63	35 mm ²	220 - 240		3PS6A1NE01	452.00
3P + E	63	35 mm ²	380 - 440		3PS6A30E01	503.00
3P + N + E	63	35 mm ²	380 - 440		3PS6A3NE01	565.00
3P + E + 2p	63	35 mm ²	380 - 440		3PS6A30E01P	664.00
3P + N + E + 2p	63	35 mm ²	380 - 440		3PS6A3NE01P	700.00

Accessories



3PS6LB

Item Description	Item Type	Catalogue No.	\$AU
3PS63 Incline Sleeve 30Deg		3PS6LB	103.00
3PS63 Handle Suits Cable Diam 9-29Mm		3PS6G	108.00
3PS63 Wall Box 30Deg M40X1.5 Entry Without Cable Gland		3PS6WAS	112.00
3PS63 Handle With M50 Cable Gland Suits Cable Diam 28-38Mm		3PS6GFP	116.00
3PS63 Appliance Inlet Plug Cap		3PS6PC	137.00

150A Deconnector Plugs and Sockets (3PS125 Series)

Socket Outlets



3PS9D30E01

Contacts	AC-23 (A@440V)	Flex Cable (max)	Ue (V AC)	Item Type	Catalogue No.	\$AU
3P + E	100	50 mm ²	380 - 440		3PS9D30E01	1,622.00
3P + N + E	100	50 mm ²	380 - 440		3PS9D3NE01	1,769.00
3P + E + 2p	100	50 mm ²	380 - 440		3PS9D30E01P	1,971.00
3P + N + E + 2p	100	50 mm ²	380 - 440		3PS9D3NE01P	2,030.00

Appliance Inlets



3PS9A30E01

Contacts	AC-23 (A@440V)	Flex Cable (max)	Ue (V AC)	Item Type	Catalogue No.	\$AU
3P + E	100	50 mm ²	380 - 440		3PS9A30E01	1,181.00
3P + N + E	100	50 mm ²	380 - 440		3PS9A3NE01	1,323.00
3P + N + E + 2p	100	50 mm ²	380 - 440		3PS9A3NE01P	1,625.00

Accessories



3PS9LB

Item Description	Item Type	Catalogue No.	\$AU
3PS125 Incline Sleeve 60Deg		3PS9LB	324.00
3PS125 Appliance Inlet Plug Cap		3PS9PC	331.00
3PS125 Handle Suits Cable Diam 22-39Mm		3PS9G	361.00
3PS125 Wall Box 60Deg M50X1.5 Without Cable Gland		3PS9WAS	878.00

250A Deconnector Plugs and Sockets (3PS200 Series)

Socket Outlets

Contacts	AC-23 (A@440V)	Flex Cable (max)	Ue (V AC)	Item Type	Catalogue No.	\$AU
3P + E	160	70 mm ²	380 - 440		3PS2D30E01	2,789.00
3P + N + E	160	70 mm ²	380 - 440		3PS2D3NE01	2,933.00
3P + N + E + 2p	160	70 mm ²	380 - 440		3PS2D3NE01P	3,910.00



3PS2D30E01

Appliance Inlets

Contacts	AC-23 (A@440V)	Flex Cable (max)	Ue (V AC)	Item Type	Catalogue No.	\$AU
3P + E	160	70 mm ²	380 - 440	I	3PS2A30E01	1,716.00
3P + N + E	160	70 mm ²	380 - 440		3PS2A3NE01	1,895.00
3P + E + 2p	160	70 mm ²	380 - 440	I	3PS2A30E01P	2,911.00
3P + N + E + 2p	160	70 mm ²	380 - 440		3PS2A3NE01P	3,547.00



3PS2A30E01

Accessories

Item Description	Item Type	Catalogue No.	\$AU
3Ps200 Appliance Inlet Plug Cap		3PS2PC	228.00
3Ps200 Incline Sleeve 60Deg		3PS2LB	331.00
3Ps200 Handle Suits Cable Diam 22-50Mm		3PS2G	412.00
3Ps200 Wall Box 60Deg M63X1.5 Entry Without Cable Gland		3PS2WAS	1,200.00



3PS2G

10A Multi-pin Plugs and Sockets (3PSS Series)

The 3PSS range can be used for any industrial application thanks to its plug seal and self-closing lid (on the socket) - outdoor and indoor. The 12 pins are rated at 10 amps (500V AC) and tested to the IEC 60309-1 standard, making the 3PSS range useful for many signalling applications. All manner of plugs and sockets can be constructed using the base socket outlet and appliance inlet parts - simply add a straight/angled handle or panel/wall mount box.

Socket Outlets

Contacts	Ie (A,max)	Flex Cable (max)	Ue (V AC min-max)	Item Type	Catalogue No.	\$AU
12p	10	1.5 mm ²	500	I	3PSS12DE12A	273.00



3PSS12DE12A

Appliance Inlets

Contacts	Ie (A,max)	Flex Cable (max)	Ue (V AC min-max)	Item Type	Catalogue No.	\$AU
12p	10	1.5 mm ²	500	I	3PSS12AR12A	317.00



3PSS12AR12A

Accessories

Item Description	Item Type	Catalogue No.	\$AU
3PSS Angled Handle with M20 Gland, Suits Cable Diameter 7-13mm	I	3PSSGA	85.00
3PSS Handle with M20 Gland Suits Cable Diameter 7-13mm	I	3PSSGS	85.00
3PSS Wall Box with M20 Cable Gland Suits Cable Diameter 7-13mm	I	3PSSW	128.00

This page intentionally left blank

Switchboard Systems

Overview	1007
Features	1007
Getting Started with CUBIC	1007
Training Courses	
System Builder	1008
Above 3200 A	1008
Multi-Drawer (MD)	1008
Refresher	1008
Specifications	1009

Switchboard Systems

The CUBIC enclosure and switchboard system is based on the concept of standardised modules for the construction of electrical panels. Using a small number of standard parts, it is possible to construct custom enclosures and switchboards from a range of standard components.

Due to the modular design, CUBIC enclosures and switchboard systems provide maximum versatility in designing panels, allow easy re-arrangement in situ, provides future expandability and has a wide range of detailed documentation

and design software.

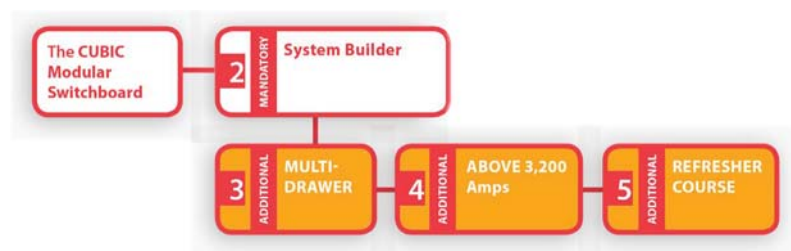
Combine the CUBIC enclosure and switchboard system with NHP's leading range of industrial switchgear, motor protection and automation solutions and instantly a complete enclosed electrical solution can be provided to a wide range of market segments to suit all requirements. CUBIC is the perfect solution for switchboards, motor control centers, automation control panels, control cabinets and power factor correction systems.

CUBIC Features

- Complies with the new AS/NZS 61439:2016 standards
- Mild steel framing and panel assembly parts in 50 micron lacquered powder
- Choice of colours – RAL7035 light grey or RAL2000 orange
- Wide range of latching and locking devices
- Up to IP54
- Connection from main busbar to outgoing circuits possible using the CuFlex flexible busbar system (Type tested)
- Fixed, plug-in and withdrawable functional units with lock facility
- Full engineering documentation and test certification
- All components secured using Torx[®] drivers
- Arc Fault containment tested to AS/NZS 61439.1-2016, Annex ZD, and IEC TR 61641
- Rated operation voltage up to 1000 V AC
- Individually type tested with all major brands of switchgear
- Seismic tested and certified to IEC 60068-2-57

Getting Started with CUBIC

NHP offer and fully support the CUBIC Global Training program which provides users the knowledge and tools to build CUBIC enclosures and switchboard systems. The CUBIC Global Training program is offered in various modules which are tailored to suit the different solutions offered in the CUBIC system.



System Builder Training

System Builder provides users with the knowledge and skills to build switchboards, motor control centers, power distribution boards and power factor correction systems up to 3200 A. By participating in the System Builder course, users obtain an in depth technical awareness of CUBIC products and software tools and gain significant knowledge of AS/NZS standards,

type testing, and practical design of switchboards. Further to the extensive training program, advice and inspiration is provided in respect of commercial considerations and efficient switchboard construction. The CUBIC 'Galaxy' software package is made available to all System Builder users based on full CAD functionality.



Above 3200 A - Additional Training

The High Current accreditation is an extension to the System Builder accreditation and provides CUBIC users the ability to build high current boards >3200 A up to 7000 A.

Available in both 3 and 4 pole configurations, the high current busbar system is capable of withstanding up to 120 kA fault current and is a fully type tested assembly to AS/NZS standards.



Multi-Drawer Additional Training

The MD system is a versatile and compact solution for fully withdrawable starters and feeders. Designed with safety in mind, the MD drawers can be utilised from 16-630 A and are capable of handling all fieldbus communications available including the popular Ethernet and Profibus networks. The MD training modular provides users with the appropriate tools and knowledge to implement this system into their CUBIC switchboard.

Refresher Training

The CUBIC refresher course is designed as a follow-up for CUBIC accredited users who have let their accreditation lapse or require additional training to increase their knowledge in a specific area of the CUBIC system. Participants receive a re-introduction into CUBIC products and software tools and gain an overview of the AS/NZS standards, type testing and practical switchboard design.



Specifications

General		
CUBIC Applications		Main switchboard, distribution boards, motor control centres, power factor correction and control panels
Standards built to		AS/NZS 61439 IEC 61439
Electrical		
Main horizontal and vertical busbar ratings		Up to 6000 A at IP54
Poles		3 or 4 pole
Rated short time withstand current (I _{cw})		Up to 120 kA for 1 second
Rated peak withstand current (I _{pk})		Up to 264 kA
Voltages	Rated insulation voltage:	1000 V AC as standard
	Rated operating voltage:	1000 V AC as standard
Rated impulse withstand voltage		8 kV
Rated Frequency		50 - 60 Hz
Arc fault containment		Tested to: AS/NZS 3439.1: 2002, Annex ZD, and IEC TR 61641
Design Tools		
CUBIC Galaxy software includes:		Switchboard design Commercial and pricing aspects Power loss and temperature calculations
Mechanical		
Construction of switchboard		Panel type 100% modular designs
Degree of protection		Up to IP54
Segregation		Form 1 up to Form 4 b
Mounting types		Fixed, plug-in or fully withdrawable
Sheet steel construction		Outside covers are 1.25 mm, doors 1.5/ 2 mm and plinth 3 mm steel. Mounting plates are of 2.5 mm galvanised steel
Colours/finish 70 micron lacquered powder coat. Other colours available on request.	Exterior:	Grey RAL 7035 Orange RAL 2000
	Interior:	Gear trays – galvanised, Dividing panels - powder coated grey
Dimensions		
All CUBIC width, height and depth dimensions are measured in multiples of 192 mm which are called “modules”. Multiples of modules are indicated by the designations: 1M, 2M, 3M...12M etc. For example, individual tiers for motor control applications can be up to three modules wide.		
Panel construction type (with frame + covers)		Maximum modules per plinth: W: 10 M, H: 12 M, D: 4 M There are no limits on multiples of the above being used for Width, Height, Depth when using panel types.

Electric Vehicle Charging Equipment

DC Chargers

DC Chargers up to 25 kW	1012
DC Chargers 50 kW to 100 kW	1013
DC Charging Accessories	1014

AC Chargers

AC Chargers up to 7 kW	1016
AC Chargers above 7 kW	1017
AC Charging Accessories	1018

DC Chargers up to 25 kW

25 kW DC Wallbox



- Delta’s dual output DC Wallbox advances EV compatibility at public charging sites.
- Its wall-mounted and modular design ensures cost-efficient installation and lifecycle maintenance.
- It also features built-in network connectivity for authentication and remote control applications.

Delta DC Wallbox Features

- CCS / CHAdeMO dual charging ports
- Max. 94% power efficiency
- RFID card reader for user authentication
- Network connectivity (OCPP 1.5S and 1.6J)
- IP55 protection and IK10 vandal-proof casing
- Applications : Highway Service , Parking Lot , Service Station , Commercial Building , Fleet



EVDE25E4DUM

Item Description	Item Type	Catalogue No.	\$AU
Delta DC 25 kW Electric Vehicle Charger Wallbox Type CCS2 and CHAdeMO		EVDE25D4DUM	POA
Delta DC 25 kW Electric Vehicle Charger Wallbox Type 7 m CCS2 and CHAdeMO		EVDE25D7DUM	POA
Delta DC 25 kW Electric Vehicle Charger Wallbox Type CCS2		EVDE25E4DUM	POA

DC Chargers 50 kW to 100 kW

Delta DC City Charger from 50 kW up to 100 kW

- 50 kW / 100 kW simultaneous charging
- Dynamic load distribution optimises charging service
- RFID, credit card and ISO 15118 user identification
- OCPP and network connectivity enables system integration
- Modular design ensures high availability
- IP55 and small footprint provides high adaptability
- 94% power efficiency for energy-saving



Delta City Charger Features

- CHAdeMO and CCS compliance
- Max . output power : 50kW (EVHE50) / 100kW (EVHE100)
- Output voltage range : 50-1000Vdc
- Max . 94% power efficiency
- Network connectivity (OCPP1.5, 1.6, upgradeable to 2.0)
- IP55 protection and IK10 vandal - proof casing
- Applications: Highway , Parking Space , Charging Station , Fleet and Commercial Buildings

Item Description	Item Type	Catalogue No.	\$AU
Delta DC 100 kW Dual O/P Electric Vehicle City Charger CCS2 CHAdeMO	I	EVHE104EKCA05	POA
Delta DC 50 kW Dual O/P Electric Vehicle City Charger 415 V AC CHAdeMO 125 A	I	EVHE503EJCA05	POA



EVHE503EJCA05

DC Charging Accessories

DC Charger Mounting Equipment

- CCS 2 - Audi, BMW, EQC, Hyundai, Jaguar, KIA, Mercedes Benz, Mini, Polestar, Renault, Volkswagen, Volvo , Tesla
- CHAdeMO - Mitsubishi, Nissan.
- Delta DC Wallbox aren't designed such that 2 units will share a single mounting frame – they either wall mount, or mount to the post



EVDECCS2H

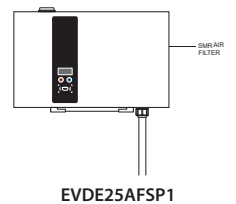
Item Description	Item Type	Catalogue No.	\$AU
Delta DC wallbox replacement holster for CCS2 Charger	I	EVDECCS2H	POA
Delta DC wallbox replacement holster for CHADEMO charger		EVDECHADEMOH	POA
Delta DC wallbox free-standing mounting post		EVPEBKT02	POA

DC Charging Accessories

DC Charger Spare Parts

- The DC Wallbox spare parts should be installed only by a licensed electrical contractor in accordance with all applicable state, local and national electrical codes and standards.
- Before installing the DC Wallbox spare parts, review the installation manual carefully and consult with a licensed contractor, licensed electrician and trained installation expert to ensure compliance with local building practices, climate conditions, safety standards and state and local codes.

Item Description	Item Type	Catalogue No.	\$AU
Delta DC wallbox SMR air filter service part		EVDE25AFSP1	POA
Delta DC wallbox system air filter service part		EVDE25AFSP2	POA
Delta DC Wallbox 4G Antenna	I	EVDE4GANT	POA
Delta DC Wallbox 4G Module	I	EVDE4GMOD	POA



AC Chargers up to 7 kW

AC Mini Plus 7 kW Chargers



- Charging at 32 A, 230 V, single phase, 7.36 kW output
- Network Connectivity OCPP v 1.6
- IP55 protection
- RFID authentication
- Type 1 (J1772) and Type 2 (Mennekes)
- Modern and Stylish design

AC Mini Plus Single Phase Chargers

Type 2 Tethered Cable



EVPE3225MNK

Item Description	Item Type	Catalogue No.	\$AU
Delta AC Mini Plus 7kW Electric Vehicle Charger T2 Tethered Cable Type	I	EVPE3225MNK	POA

Type 2 Socket

Delta AC Mini Plus Socket Outlet series can be purchased with multiple wireless configurations. MNK is no communications, MWN is WiFi and ethernet, and MUN is 3G and ethernet.



EVPE3220MUN

Item Description	Item Type	Catalogue No.	\$AU
Delta AC Mini Plus 7kW Electric Vehicle Charger T2 Socket Type	I	EVPE3220MNK	POA
Delta AC Mini Plus 7kW Electric Vehicle Charger T2 Socket Plus 3G	I	EVPE3220MUN	POA
Delta AC Mini Plus 7kW Electric Vehicle Charger T2 Socket and Communications	I	EVPE3220MWN	POA

AC Chargers above 7 kW

AC Max 22 kW Chargers

- Charging at 32 A, 415 V, Three phase, 22 kW output
 - Network Connectivity OCPP v 1.6 upgradable to OCPP v2.0
 - IP55 Ingress Protection
 - IK09 Enclosure Protection according to IEC62262
 - SO / IEC 14443 RFID Card Reader
 - 5 m Type 2 cable (Mennekes)
 - Modern and Stylish design
 - Ethernet + 4G
 - Maximum charging current selected by hardware DIP switch
 - Wall mounted or Stand
 - Internal RCD AC 30 mA, DC 6 mA
 - Single Phase: 230 V, 50-60 Hz, 32 A (maximum)
 - Three Phase: 400 V, 50-60 Hz, 16 A, 32 A (maximum)
 - CE , UKCA , AS/NZS 3000:2007 , IEC 60947-2 , IEC 61851-1, IEC 62196-2
 - 22 kW AC charger improves parking turnover
 - Low standby power consumption for energy-saving
- Ideal for Residential Area, Parking , Commercial Buildings



AC Max Three Phase Chargers

Type 2 Tethered Cable

Delta AC Max electric vehicle chargers can be purchased with a Type 2 cable with or without communication.
The communication includes 4G and Ethernet

Item Description	Item Type	Catalogue No.	\$AU
Delta AC Max 22 kW Type 2 Plug 5 m Cable Basic		EIAWE22KTBE5A02	POA
Delta AC Max 22 kW Type 2 Plug Cable with Communications		EIAWE22KTSE5A04	POA



EIAWE22KTSE5A04

Type 2 Socket

Delta AC Max electric vehicle chargers can be purchased with a Type 2 socket option which comes with or without communication. The communication includes 4G and Ethernet

Item Description	Item Type	Catalogue No.	\$AU
Delta AC Max 22 kW Type 2 Socket No Cable Basic		EIAWE22KTBS0A02	POA
Delta AC Max 22 kW Type 2 Socket No Cable with Communications		EIAWE22KTSH0A04	POA



EIAWE22KTBS0A02

AC Charging Accessories

AC Electric Vehicle Charger Accessories

Spare parts for NHP's and Delta's EV offering

- Mounting posts for AC Chargers
- Spare parts for AC Chargers
- Type 1 and Type 2 cables for AC Chargers

AC Electric Vehicle Charger Mounting Posts

Mounting posts for AC Chargers



EVPE1320CP

Item Description	Item Type	Catalogue No.	\$AU
Delta AC Mini Plus Charging Post		EVPE1320CP	POA
Delta AC Mini Plus Cable Mount Bracket		EVPEBKT01	POA

AC Charger Spare Parts

Spare parts for AC chargers



EVPERFID1

Item Description	Item Type	Catalogue No.	\$AU
Delta AC Charger RFID Spare Card		EVPERFID1	POA

AC Charger Cables

Spare cables for EV chargers



EVPP00105

Item Description	Item Type	Catalogue No.	\$AU
Delta AC Charger Type 2 Charging Cable		EVPP00105	POA
Delta AC Charger Type 2 to Type 1 Charging Cable	I	EVPP00160	POA

Product Category	Product Family	Page
A		
AC Chargers above 7 kW	AC Max 22 kW Chargers	
	AC Max Three Phase Chargers	1017
AC Chargers up to 7 kW	AC Mini Plus 7 kW Chargers	
	AC Mini Plus Single Phase Chargers	1016
AC Charging Accessories	AC Electric Vehicle Charger Accessories	
	AC Electric Vehicle Charger Mounting Posts	1018
	AC Charger Spare Parts	1018
	AC Charger Cables	1018
ACB	see (Air Circuit Breakers)	
Active Harmonic Filters	see (Power Quality)	
Air Circuit Breakers	Terasaki Air Circuit Breakers	
	ACB AGR11	108
	Standard ACBs	109
	TemPower2 Customer-Fit Accessories	112
	Terasaki Ground Fault CTs	113
Air Conditioning Systems	Air Conditioners	
	CVE Indoor Air Conditioners	918
	CVO Weather Protected Air Conditioners	918
	ETE Top Mount Indoor Air Conditioners	919
Analogue and Digital Meters	IME Analogue Meters	
	Panel Mount AC Ammeters	270
	Panel Mount AC Voltmeters	272
	Panel Mount DC Ammeters	272
	Frequency Meters	273
	Hour Run Meters	273
	Accessories	273
Analogue and Digital Meters	IME Digital Meters	
	DIN Mount Digital Meters	275
	Panel Mount Digital Meters	275
Analogue Signal Converters	Allen-Bradley Signal Converters	
	931N Signal Conditioners	545
	931 Accessories	545
Arc Flash Detection Technologies	ArcLogix™ Current Sensing	
	ARCLO CS Arc Detection System	156
Arc Flash Detection Technologies	ArcLogix™ Optical Sensing	
	ARCLO Arc Detection Relays	157
	ARCLO Sensors	158
Architecture Drives	PowerFlex 70 Drives & Accessories	
	IP20 Panel Mount 380 to 480V AC Three-Phase Drives	379
	Safety Option Modules	379
	Feedback Option Modules	380
Architecture Drives	PowerFlex 753	
	IP00 / IP20 Panel Mount 400V AC Three-Phase Drives	381
	IP54 Wall Mount 400V AC Three-Phase Drives	382
Architecture Drives	PowerFlex 755	
	IP00 / IP20 Panel Mount 400V AC Three-Phase Drives	383
	IP20 Floor Standing 400V AC Three-Phase High Power Drives	384
	IP54 Floor Standing 400V AC Three-Phase High Power Drives	384
Architecture Drives	PowerFlex 755T	
	IP00 IP20 PF755TL Wall Mount 400V Range	386
	IP00 IP20 PF755TR Wall Mount 400V Range	386
	IP21 PF755TL Floor Standing High Power 400V Range	386
	IP21 PF755TR Floor Standing High Power 400V Range	386
	IP54 PF755TL Floor Standing High Power 400V	386
	IP54 PF755TR Floor Standing High Power 400V	386
Architecture Drives	PowerFlex Architecture Drive Accessories	
	PowerFlex 750-Class Accessories	387
	PowerFlex 755 Floor Standing Accessories	388
	Drives Software - Connected Components Workbench	389
Assembled Motor Starters	Sprecher + Schuh Motor Starters	
	Direct On Line (DOL) Motor Starters	351
	Reversing Motor Starters	352

Product Category	Product Family	Page
A		
	Star-delta Motor Starters	352
B		
Beacons	Moflash Beacons	
	LED Beacons	925
	Xenon Beacons	931
	Filament Beacons	933
	Halogen Beacon	933
	Accessories for Beacons	933
Beacons	RemLive Indication	
	Remlive Isolation Indicator - Comes with All Parts Required	935
	Spare front display unit only	935
Bells	see (Hooters Bells and Buzzers, Hazardous Area Sound, Electronic Sounder, Sirens)	
Belt Drift Switches	Steute Belt Drift Switches	
	Heavy Duty Belt Drift Switches	431
	Extreme Duty Belt Drift Switches	431
BMS and Lighting Control	Carlo Gavazzi Smart Dupline BMS	
	Smart Dupline Master Channel Generator	283
	Smart Dupline Lighting Control	283
	Smart Dupline Modules	283
Boxes	see (Standard Enclosures, Terminal Boxes, Wall Mount Enclosures)	
Buzzers	see (Hooters Bells and Buzzers, Hazardous Area Sound, Electronic Sounder, Sirens)	
Buzzers, Hooters and Bells	Moflash Buzzers, Hooters and Bells	
	Electromechanical Bells	944
	Buzzer	944
Buzzers, Hooters and Bells	Allen-Bradley Buzzers (855P Panel mount)	
	855PB - Panel Mount Selectable Steady or Flashing LED Beacon	945
	855PC - Panel Mount Combined Sounder with LED Beacon	945
	855P - Panel Mount Sounder	945
C		
Cabinets	see (Standard Enclosures, Floor Standing Enclosures, Terminal Boxes, Wall Mount Enclosures)	
Cable Ducting and DIN Rail	Cable Duct	
	PVC Cable Duct	810
	PVC Cable Duct Accessories - T1, T1E and TA	811
Cable Ducting and DIN Rail	NHP DIN Rail	
	Aluminium	813
	Steel	813
	Accessories	813
Cable Glands and Sleeves	nVent HOFFMAN Self Sealing Cable Glands	
	IP 67 Self Sealing Cable Glands	814
Cable Glands and Sleeves	Eriflex Cable Sleeves	
	Glass Fibre Braided Sleeving	815
Cable Sleeves	see (Cable Glands and Sleeves)	
Cam Switches	see (Control and Cam Switches)	
Chassis	NC Chassis	
	NC Chassis 3 Pole	159
	NC Chassis 4 Pole	161
	NC Chassis 3P+N Pole	162
	NC Chassis 2 Pole	162
	NC Chassis Accessories	162
Chassis	GB (Grizz-Bar) Isolation Chassis	
	GB Chassis 3 Pole	166
	GB Chassis Accessories	167
Chassis	MOD6 Chassis	
	M6NC Chassis 250A - 3 Pole (18mm Pole Pitch)	170
Chassis	Chassis for Terasaki MCCBs	
	TemWay XA XB PXB XC chassis	171
	HC High Current Chassis	173

Product Category	Product Family	Page
C		
Code Readers	Allen Bradley Code Readers	
Compact Drives	PowerFlex 4M	
	IP20 Panel Mount 200 to 240V AC Single-Phase Input Drives	370
	IP20 Panel Mount 380 to 480V AC Three-Phase Drives	370
	IP20 Panel Mount 380 to 480V AC Three-Phase Drives with Brake	370
Compact Drives	PowerFlex 523	
	IP20 Panel Mount 200 to 240V AC Single-Phase Input Drives	371
	IP20 Panel Mount 380 to 480V AC Three-Phase Drives	371
Compact Drives	PowerFlex 525	
	IP20 Panel Mount 200 to 240V AC Single-Phase Input Drives	372
	IP20 Panel Mount 380 to 480V AC Three-Phase Drives	372
Compact Drives	PowerFlex 527	
	IP20 Panel Mount 200 to 240V AC Single-Phase Input Drives	373
	IP20 Panel Mount 380 to 480V AC Three-Phase Drives	373
Compact Drives	PowerFlex 4-Class and 520-Class Options	
	Human Interface Modules (HIM)	374
	Communication Option Modules	374
	EMC Grounding Plates	374
	IP30 Conversion Kits	374
	Feedback Option Kits	374
	Control Module Fan Kits	375
	Line Filters	375
	Replacement Fans	375
Compact PLC Systems	Allen-Bradley Bulletin 1769 CompactLogix™	
	CompactLogix™ Controllers	499
	CompactLogix™ Power Supplies	500
	CompactLogix™ Communication Modules	500
	CompactLogix™ Accessories	501
	CompactLogix™ I/O Modules	501
	CompactLogix™ Specialty Modules	503
Compact PLC Systems	ProSoft® In-Chassis CompactLogix™ Communication Modules	
	ProSoft® Modbus Communication Modules	505
	ProSoft® IEC 60870-5 Communication Modules	505
	ProSoft® Profibus Communication Modules	505
	ProSoft® Flow Computer Module	505
	ProSoft® Proprietary Protocols Communication Modules	506
	ProSoft® DNP3 Communication Modules	506
Compact PLC Systems	Allen-Bradley Bulletin 5069 CompactLogix™	
	5380 CompactLogix™ Controllers	507
	5480 CompactLogix™ Controllers	508
	Compact I/O™ Network Adapters	509
	Compact I/O™ Modules	509
	5380 CompactLogix™ Accessories	511
Condition Monitoring	Allen-Bradley Condition Monitoring Devices	
	Dynamix 1444 Integrated Machinery Monitoring System	354
	Dynamix 1444 Series Bases	354
	Dynamix 1444 Terminals	354
	Dynamix 1444 Series Accessories	355
	Dynamix 2500 Portable Data Collector Kits	355
	Dynamix 2500 Portable Data Collector Optional Modules	355
	Dynamix 2500 Portable Data Collector Accessories	355
	Dynamix 2500 Portable Data Collector Optional Spares	355
	1443 Series Sensors	356
	1443 Series Sensor Cables	356
	1443 Series Accelerometer Mounting Accessories	358
	Emonitor Condition Monitoring Software	358
Configured Drives	Configured Drives	
	NHP Configured Drives	390
Configured Drives	Arc Fault Contained Variable Speed Drives	
	Rockwell Automation Arc Fault Drives	391
Contactors	Sprecher + Schuh Contactors	
	CA8 Miniature Contactors 2.2 to 5.5kW	299
	CA7 Contactors 4 to 55kW	300

Product Category	Product Family	Page
C		
	CA9 Contactors 55 to 630kW	302
	CAS7 Safety Contactors 4 to 45kW	305
	Accessories and Spares	306
	CS8 Miniature Contactor Control Relays	310
	CS7 Contactor Control Relays	311
	CSS7 Safety Control Relays	312
Contactors	Allen-Bradley Contactors	
	Bulletin 100-K Miniature Contactors	315
	Bulletin 100-C Contactors	316
	Bulletin 100-E Contactors	317
	Bulletin 100S-C Safety Contactors	318
	Bulletin 100S-E Safety Contactors	319
	Accessories	319
	Bulletin 700-CF Industrial Control Relays	321
Contactors	Ghisalba Contactors	
	GH15 Contactor Range	322
	Accessories for Ghisalba contactors	322
Control and Cam Switches	Sprecher + Schuh Control Switches	
	L2 Control Switches Complete with Knob	656
	OFF / ON Switches	658
	Changeover Switches	659
	Stop/Start Switches with Spring Return	662
	L2 Step Switches	662
	Voltmeter Switches	663
	Ammeter for 3CTs	664
	Reversing and 2 Speed Switches	665
	Control Switches for Modular Distribution Panel	665
	Legends for L2 Control Switches	666
	Accessories for Control and Cam Switches	666
Current Transformers (CTs)	see (Transducers and Transformers)	
D		
DC Chargers 50 kW to 100 kW	Delta DC City Charger from 50 kW up to 100 kW	
	Delta City Charger Features	1013
DC Chargers up to 25 kW	25 kW DC Wallbox	
	Delta DC Wallbox Features	1012
DC Charging Accessories	DC Charger Mounting Equipment	
DC Charging Accessories	DC Charger Spare Parts	
Delta Active Power Filters (APF)	see (Power Quality)	
Delta Static VAR Generators (SVG)	see (Power Quality)	
DIN Rails	see (Cable Ducting and DIN Rail)	
Drives	see (Architecture Drives, Compact Drives, Servo Drives, Variable Speed Drives Medium Voltage)	
Dynamic Brake Resistors	Standard Brake Resistors	
	Standard Brake Resistors	393
E		
Earth Leakage Relays	IME Earth Leakage Relays and Toroids	
	DIN Mount Earth Leakage Relays	183
	Panel Mount Earth Leakage Relays	184
	2 Wire Toroid	185
	RD Series General Accessories	185
	Type B Relay	186
	Type B Wire Toroid	186
	Panel Mount Mining Earth Leakage Relays	186
	4 Wire Toroid	187
Earth Leakage Relays	Terasaki TZS range of Earth Leakage Relays and Toroids	
	TZS Earth Leakage Relay	188
	TZS Earth Leakage Relay Accessories	188

Product Category	Product Family	Page
E		
Electromechanical Relays	TZS Earth Leakage Toroid	188
	Finder Electromechanical Relays	
	Slim Relay Interface Modules	760
	PCB and Miniature Relays	761
	General Purpose Industrial & Power Relays	764
	Step Relays	770
	Safety Relays	771
	Plug-In Modules for Interface / Power / PCB and Miniature Relays	771
Electromechanical Relays	Allen-Bradley Electromechanical Relays	
	700-HL Slim Terminal Block Interface Relay - 1 N/O	773
	700-HB General Purpose Relays	774
	700-HC Miniature Square Base With Blade Relays	774
	700-HF Square Base Relay	774
	700-HK Miniature Relays	774
	700-HP Miniature PCB Pin-Style Relays	775
	Accessories	775
Electronic Sounders	Klaxon Electronic Sounders	
	Nexus Sounders	946
	Sonos Sounders	947
ELRs	see (Earth Leakage Protection, Earth Leakage Relays)	
Enclosed DC Isolating Switch	N-LINE DC Switch	
	N-LINE DC Switch	972
	N-LINE DC Switch Accessories	972
Enclosed Isolating Switches	Socomec Enclosed Isolating Switches	
	ELB-PM Polycarbonate Enclosed Load Break Switches	197
	ELB-S Enclosed Load Break Switches	197
	ESS Enclosed Stainless Steel Load Break Switches	198
Enclosed Isolating Switches	Allen-Bradley Enclosed Isolating Switches	
	194E Enclosed switches	199
Enclosed Isolating Switches	Socomec ISO Enclosed Isolating Switch Disconnectors	
	Polycarbonate Enclosed ISO Switch Disconnectors	200
	Polyester Enclosed ISO Switch Disconnectors	201
	Aluminium Enclosed ISO Switch Disconnectors	202
	Stainless Steel Enclosed ISO Switch Disconnectors	203
	EMC-Protection ISO Kit	203
	Enclosed ISO Switches Accessories	203
Enclosures	see (Standard Enclosures, Floor Standing Enclosures, Terminal Boxes, Wall Mount Enclosures)	
Encoders	Allen-Bradley Encoders	
	Incremental Encoders	443
	Connectors and Accessories	443
Encoders	Allen-Bradley 842 Ethernet Encoders	
	Absolute EtherNet/IP Encoders	444
Encoders	Allen-Bradley 843ES CIP Safety Ethernet Encoders	
	Single Turn Safety Encoders	445
	Multi Turn Safety Encoders	446
Energy Management System (EMS)	see (SMART eBox - All-in-one enclosed EMS, UWP 3.0 - Energy Monitoring Platform and BACnet/IP gateway, VMU-C EM - Energy Monitoring Platform, EM ² -Server - Energy Monitoring Software Platform)	
Energy Meters	see (Power and Multifunction Meters)	
Energy Monitoring Software	Carlo Gavazzi Energy Management Software	
	EM ² -Server - Energy Monitoring Software Platform	258
Energy Monitoring Software	Carlo Gavazzi Monitoring Devices	
	UWP 3.0 - Energy Monitoring Platform and BACnet/IP gateway	261
	VMU-C EM - Energy Monitoring Platform	261
Engineering Software	Studio 5000 Software	
	Studio 5000® Software - Perpetual with Maintenance - (Rockwell Automation)	614
	Studio 5000® Software - Subscription - (Rockwell Automation)	615
Engineering Software	Rockwell Software Toolkits	
	Rockwell Design Suite Toolkits - Concurrent Subscriptions - (Rockwell Automation)	618
	Rockwell Design Suite Legacy Software Toolkits - (Rockwell Automation)	618

Product Category	Product Family	Page
E		
Engineering Software	Control Station LOOP-PRO Tuner Software	
	Control Station LOOP-PRO Tuner Single WorkStation	619
	Control Station LOOP-PRO Tuner Enterprise	619
Engineering Software	Rockwell Software Activation USB Dongle	
	Rockwell Software USB Dongle	620
Engineering Software	WIN911 Alarm Notification Software	
	WIN-911 Software	621
	WIN-911 Nodes	621
	Mobile-911 Add-on	621
	Win-911 FactoryTalk Alarm and Events	621
	WIN-911 Hot Backups	622
	WIN-911 Customer Care Subscriptions	622
	WIN-911 Software Upgrade	622
	Rockwell CCW Software	
	Rockwell CCW Software - Perpetual with Maintenance - (Rockwell Automation)	623
Engineering Software	Rockwell CCW Software - Subscription - (Rockwell Automation)	623
	FactoryTalk TeamONE	
	Rockwell FactoryTalk TeamONE Standard - (Rockwell Automation)	624
F		
Fans	see (Filter Fans and Exhaust Fans)	
Fieldbus I/O Systems	Allen-Bradley FLEX 5000 I/O Device	
	Allen-Bradley FLEX™ 5000 I/O Modules	521
	Allen-Bradley FLEX™ 5000 I/O Communication Adapters	523
	Allen-Bradley FLEX™ 5000 I/O Mounting Bases and RTB	523
	Allen-Bradley FLEX™ 5000 I/O Accessories	523
	Allen-Bradley FLEX™ 5000 I/O Safety	524
	Allen-Bradley FLEX™ 5000 I/O XT	524
Fieldbus I/O Systems	Allen-Bradley FLEX™ I/O	
	FLEX™ I/O Modules	526
	FLEX™ I/O Communication Adapters	529
	FLEX™ I/O Power Supplies	529
	FLEX™ I/O Specialty Modules	530
	FLEX™ I/O Accessories	530
Fieldbus I/O Systems	ProSoft® FLEX™ I/O Modules	
Fieldbus I/O Systems	ProSoft® Flex™ Adapters	531
	Allen-Bradley Point I/O™	
	POINT I/O™ Communication Adapters	532
	POINT I/O™ Modules	532
	POINT Guard I/O™ Safety Modules	535
	POINT I/O™ Terminal Bases and Accessories	535
	ProSoft® Point I/O Modules	
Fieldbus I/O Systems	Prosoft Point I/O Modules	536
	Allen-Bradley On Machine Distributed I/O	
Fieldbus I/O Systems	ArmorBlock® I/O	537
	Allen-Bradley® Ex I/O	
	1718 EX I/O	540
Filter Fans and Exhaust Fans	1719 EX I/O	542
	Filter and Exhaust Fans	
	GSV Filter Fans	911
Flexible Busbar and Braids	Axial Fans	913
	Cu-flex Flexible Copper Busbar	
	FB25 - 25mm ²	175
	FB50 - 50mm ²	176
	FB100 - 100mm ²	176
	FB243 - 240mm ²	176
Flexible Busbar and Braids	Accessories	177
	Eriflex Flexible Busbar and Braid	
	Insulated Flexible Copper Bar and Accessories	178
	Earth Braid	179
	Flat Tinned Copper Braid	179
	Halogen Free Insulators	179

Product Category	Product Family	Page
F		
Floor Standing Enclosures	Floor Standing Enclosures - Mild Steel	
	Mild Steel - MKS (Single Door Fully Welded)	899
	Mild Steel - MKD (Double Door Compact)	900
	Mild Steel - MCS (Single Door Bayable)	900
	Mild Steel - MCD (Double Door Bayable)	900
	Side Panels to Suit MCS/MCD Enclosures	901
	Mild Steel - MPG Console	901
	Floor Standing Enclosure Accessories - Suitable for Mild Steel and Stainless Steel	901
Floor Standing Enclosures	Floor Standing Enclosures - Stainless Steel	
	Stainless Steel - EKSS (Single Door Fully Welded)	906
	Stainless Steel - EKDS (Double Door Fully Welded)	906
	Stainless Steel - MCSS (Single Door Bayable)	907
	Stainless Steel - MCDS (Double Door Bayable)	907
	Stainless Steel Accessories	908
	nVent HOFFMAN Floor Standing Enclosures - Aluminium	
Floor Standing Enclosures	EKOM Double Wall Aluminium Outdoor Enclosures	909
	ECOM ITS Cabinet VicRoads Approved	909
	EKOM Accessories	909
Foot Switches	Steute Foot Switches	
	Momentary Foot Switch with Relay Output	668
	2-Step Foot Switch with Relay Output	669
Fuse Switches	Socomec Fuse Switches (SSF and PSF Series)	
	SSF Standard Switch Fuses (20 to 1250A)	189
	Socomec Switch Fuse Accessories	189
Fuse Switches	Mersen Fuse Switch Disconnectors	
	Panel Mount Variants	191
	Busbar Mount Variants	191
	Accessories	191
Fuses and Fuse Holders	NHP Fuses and Fuse Holders	
	DIN Fuse Links 500V AC	192
	Mersen Cylindrical Fuse Holders	193
	Mersen Cylindrical Fuses	194
	Socomec DIN Fuse Bases and Accessories	194
	NV Clip-in Fuse Holder for Offset Tag Fuse Links	195
	BS Fuse Links	195
G		
Gateways	ProSoft® Gateways	
	ProSoft® EtherNet/IP™ Gateways	553
	ProSoft® Modbus TCP/IP Gateways	554
	ProSoft® DNP3 Gateways	555
	ProSoft® DF1 Master/Slave Gateways	555
	ProSoft® HART Gateways	555
	ProSoft® Profibus Gateways	555
	ProSoft® Data Logger	555
Gateways	Aparian Gateways	
	Aparian Routers	556
Gateways	see (UWP 3.0 - Energy Monitoring Platform and BACnet/IP gateway)	
Gearboxes and Mechanical	Apex Gearboxes	
GPOs	see (Weather Protected GPOs)	
GuardLink Systems	GuardLink Connection Systems	
	Guardlink Enabled Taps	455
	Mounting Brackets	455
	Shorting Plugs	455
H		
Hazardous Area Field Switches and Sensors	Steute Limit Switches and Sensors	
	Ex Limit Switches	958
	Ex Solenoid Interlocks	958
	Ex Belt Drift Switches	959
	Ex Foot Switches	960
	Ex Safety Switches	960

Product Category	Product Family	Page
H		
	Ex Safety Magnetic Sensors	961
	Ex Emergency Pull-Wire Switches	963
	Ex IS Inductive Proximity Sensors	964
	Ex Magnetic Sensors	964
Hazardous Area Intrinsically Safe Isolators	GM International Intrinsically Safe Isolators	
	D1000 Series	953
	D5000 Series	954
Hazardous Area Isolators	Rotary Switches	
	CSC Series - 16A	957
	EFSCO Series - 25/63A	957
Hazardous Area Linear Lights	EXEL Fluorescent Linear Lights	
	EXEL Accessories	952
Hazardous Area Plugs and Sockets	Plugs and Sockets	
	PY Series	956
	SPY Series	956
Hazardous Area Sight	Moflash Sight	
	BC150 Series GRP Beacon	965
	BC125 Series SS Beacon	966
	IS-B Series Intrinsically Safe Beacon	967
Hazardous Area Sound	Moflash Sound	
	SD150 Series GRP Sounder	968
	SD125 Series Stainless Steel Sounder	968
	IS-S Series Intrinsically Safe Sounder	969
	SB150-1 Series GRP Sounder/Beacon	969
	SB125-1 Series Stainless Steel Sounder/Beacon	969
	IS-SB Series Intrinsically Safe Sounder/Beacon	970
Heat Exchangers	see (Chillers and Heat Exchangers)	
Heaters and Regulating Devices	Heaters	
	Convection Heaters	914
	Anti-Condensation Fan Heaters	915
Heaters and Regulating Devices	Anti-Condensation Heaters and Regulating Devices	
	Regulating Devices	916
	Pressure Compensation and Drainage Devices	917
High Current Plugs and Sockets	Proconnect High Current Plugs and Sockets	
	3PV4 High Current Plugs and Sockets	993
	3PV5 High Current Plugs and Sockets	995
	3PV6 High Current Plugs and Sockets	996
	3PX4 High Current Plugs and Sockets	998
	3PX5 High Current Plugs and Sockets	999
	3PX6 High Current Plugs and Sockets	1001
HMI's	see (Micro Operator Panels, Operator Panels)	
I		
Industrial Computers	Allen-Bradley® Industrial Computers	
	Stainless Steel Integrated Display Computers	573
	Non-Display Industrial Computers	574
	Integrated Display Computers	574
	Hazardous Area Integrated Display Computers with SSD	576
	Industrial Monitors	576
	Industrial Keyboards and Pointing Devices	577
Industrial Computers	VersaView 5000 Industrial Computers	
	VersaView 5400 Industrial Computers	578
	VersaView 5200 Thin Clients	579
	VersaView 5100 Monitors	579
	VersaView 5000 Accessories	579
Industrial Computers	Allen-Bradley VersaView 6300 Box PC	
	Box PC with Atom processor	580
	Box PC with Intel Core processor	580
Industrial Computers	Allen-Bradley VersaView 6300 Panel PC	
	12" Screens	581
	15" Screens	581
	17" Screens	581

Product Category	Product Family	Page
I		
	18.5" Screens	581
	19" Screens	581
	21.5" Screens	582
	24" Screens	582
Industrial Computers	Allen-Bradley VersaView 6300 Thin Clients	
Industrial Soft Starters	Allen-Bradley LV Soft Starters	
	SMC-3 Soft Starters	360
	SMC-Flex Soft Starters	361
	SMC-50 Soft Starters	363
	Accessories	365
Industrial Soft Starters	Sprecher + Schuh Soft Starters	
	PCS Soft Starters	366
Information Software	Rockwell Software Information	
	Sequence Manager	584
Information Software	Rockwell FactoryTalk® Edge Gateway	
	FactoryTalk® Edge Gateway - Subscription - (Rockwell Automation)	585
Information Software	Rockwell FactoryTalk® Transaction Manager	
	FactoryTalk® Transaction Manager - Perpetual with Maintenance - (Rockwell Automation)	586
	FactoryTalk® Transaction Manager - Subscription - (Rockwell Automation)	586
Information Software	Rockwell FactoryTalk® Linx	
	FactoryTalk® Linx Gateway	587
	FactoryTalk® Linx Data Bridge Standard	589
	KepServer Enterprise	589
Information Software	Rockwell FactoryTalk® Historian	
	FactoryTalk® Historian - Subscription - (Rockwell Automation)	590
Information Software	Rockwell FactoryTalk® Asset Centre	
	FactoryTalk® AssetCentre - Perpetual with Maintenance - (Rockwell Automation)	591
	FactoryTalk® AssetCentre - Subscription - (Rockwell Automation)	592
Information Software	Rockwell FactoryTalk® Metrics	
	FactoryTalk® Metrics - Perpetual with Maintenance - (Rockwell Automation)	594
	FactoryTalk® Metrics - Subscription - (Rockwell Automation)	594
Information Software	Rockwell FactoryTalk® Batch	
	FactoryTalk® Batch - Perpetual with Maintenance - (Rockwell Automation)	596
	FactoryTalk® Batch - Subscription - (Rockwell Automation)	597
Information Software	Rockwell FactoryTalk® Craft Brew - (Rockwell Automation eCommerce Portal)	
	FactoryTalk® Craft Brew - Subscription - (Rockwell Automation)	599
Innovation Suite	AR Vuforia Chalk - (Rockwell Automation)	
	Rockwell Automation Vuforia Chalk	625
IP66 Plugs and Sockets	ISO Plugs and Sockets	
	ISO Plugs	976
	ISO Switched Socket Outlets	978
	ISO Switches	979
	ISO Socket Outlets	981
	ISO Extension Sockets	983
	ISO Appliance Inlets	984
	ISO Switched MOD6 RCD Protected Outlets	985
	ISO Switched MOD6 RCD Protected Outlets – In line	986
	ISO MOD6 RCD Protected Outlets	987
	ISO Keyed Switches	988
	ISO Common Keyed Switches	989
	ISO Back Boxes, RCD Covers and Accessories	990
Isolating Plugs and Sockets	Proconnect Plugs and Sockets	
	30A Disconnect Plugs and Sockets (3PS16 Series)	1003
	50A Disconnect Plugs and Sockets (3PS32 Series)	1003
	90A Disconnect Plugs and Sockets (3PS63 Series)	1004
	150A Disconnect Plugs and Sockets (3PS125 Series)	1004
	250A Disconnect Plugs and Sockets (3PS200 Series)	1005
	10A Multi-pin Plugs and Sockets (3PSS Series)	1005
K		
Key Exchange Interlocks	Allen-Bradley 440T Prosafe Trapped Key Interlocks	
	Key Exchange Units	469

Product Category	Product Family	Page
K		
	Access Lever / Chain Interlocks	469
	Bolt Interlocks	470
	Rotary switches	470
	Slamlock electrical	470
	Slamlock mechanical	471
	Solenoid release units	471
	Electronic timed-delay units	471
	Accessories	471
L		
Large PLC Systems	Allen-Bradley ControlLogix®	
	ControlLogix® Chassis	512
	ControlLogix® Power Supplies	512
	ControlLogix® and GuardLogix® Controllers	513
	ControlLogix® Communication Modules	514
	ControlLogix® I/O Modules	514
	ControlLogix® Specialty Modules	518
	ControlLogix® Redundancy	518
	ControlLogix® Accessories	518
Large PLC Systems	ProSoft® In-Chassis ControlLogix® Communication Modules	
	ProSoft® Modbus Communication Modules	519
	ProSoft® DNP3 Communication Modules	519
	ProSoft® Profibus Communication Modules	519
	ProSoft® IEC 60870-5 Communication Modules	519
	IEC 61850 Server Communication Modules	519
	ProSoft® Generic ASCII Communication Modules	519
	ProSoft® Specialty Protocols Communication Modules	520
	ProSoft® Flow Computer Module	520
Laser Scanner	Allen-Bradley Safezone Laser Scanners	
	SafeZone Mini Safety Laser Scanner	476
	SafeZone Scanner	476
Laser Scanner	Allen-Bradley Safezone3 CIP Safety Laser Scanners	
	SafeZone 3 Laser Scanner	478
	SafeZone 3 Memory Module	478
	SafeZone 3 Mounting brackets	478
	SafeZone 3 Accessories	478
Level Sensors	Carlo Gavazzi Level Sensors	
	Conductive Level Control	439
	Float Switches	440
	Optical Level Sensors	440
Light Curtains	Allen-Bradley 440L and 445L Light Curtains	
	Perimeter Access Control Light Curtains (PAC)	472
	Area Access Control Light Curtains (AAC)	472
Light Curtains	Allen-Bradley 450L POC Light Curtains	
	Basic 14mm Resolution	473
	Basic 30mm Resolution	473
	Enhanced 14mm Resolution (Step 01)	474
	Enhanced 30mm Resolution (Step 01)	474
	Plug-In Transmitters (Step 02)	474
	Plug-In Universal Transmitter or Receiver (Step 02 and 03)	474
	Plug-In Receivers (Step 03)	474
	450L Accessories	475
Light indicators	see (Beacons, Hazardous Area Sight, Stack Lights)	
Light Sensors	Doepke Dasy Twilight Switches	
	Light Switches	438
Lighting Controls	see (BMS and Lighting Control)	
Limit Switches	Allen-Bradley Limit Switches	
	440P IEC-Style Safety Limit Switches	425
	Bulletin 802T General Purpose Limit Switches	426
	Operating levers	427

Product Category	Product Family	Page
L		
Limit Switches	Steute Limit Switches	
	30mm Plastic Limit Switch - ES95 Slow Action & EM95 Snap Action	428
	40mm Metal Limit Switch - ES41 Slow Action & EM41 Snap Action	429
Limit Switches	Austrol Heavy-Duty Limit Switches	
	Limit Switches	430
	Accessories	430
Load Break Switches	Socomec Load Break Switches	
	Socomec SLBM - Standard Load Break Modular Series (16A to 125A)	204
	Socomec SLB - Standard Load Break Switch Series (125 to 4000A)	205
	Socomec VLB - Visible Load Break Switch (32 to 1600A)	206
	Socomec 32BR - Visible Load Break Switch - Side Operated (50 to 1250A)	207
	Socomec RLB - Remote Load Break Switch (40 to 1800A)	208
	Socomec INOSYS Load Break Switches for DC and PV (160A to 630A)	208
	Socomec Accessories for Load Break Switches	208
Load Break Switches	Allen-Bradley Load Break Switches	
	194E Load Break Switches (16 to 100A)	216
	194R Switch Accessories	216
Load Break Switches	Bulletin 194L and 194E Allen-Bradley Load Break Switch Common Accessories	
	194L and 194E Handles - Screw Mounting Style	218
	194E Auxiliary Contact Blocks	218
Load Break Switches	Sprecher+Schuh Load Break Switches	
	LE7 Panel Mount	219
Loadcentre Assemblies	MOD6 Range of Loadcentres	
	MOD6 CSP Pole Covers	114
	MOD6 CSB Loadcentres	114
	MOD6 Loadcentre Packs	115
Loadcentre Assemblies	DIN-T Range of Loadcentres	
	DTPC Pole Covers	116
	ILC Pole Covers	116
	DIN-MODULA 150 Series	117
	DIN-MODULA Weatherproof Series	117
	NLC Loadcentre	118
LV Variable Speed Drives	see (Architecture Drives, Compact Drives)	
M		
Mats - pressure	see (Pressure Mats)	
MCBs	see (Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs))	
MCCBs	see (Moulded Case Circuit Breakers)	
Mechanical Interlocks	Allen-Bradley 442G Multifunctional Access Box	456
	Allen-Bradley 440G GuardLocking Switches	458
	Allen-Bradley 440K Tongue Interlock Switches	462
Meters - power and multifunction	see (Power and Multifunction Meters)	
Micro Operator Panels	Allen-Bradley® PanelView™ 800 Graphic Terminals	
	Terminals	567
	Accessories	567
Micro PLCs	Allen-Bradley® Micro820®, Micro830®, Micro850® and Micro870® Controllers	
	Micro820® Controllers	489
	Micro830® Controllers	489
	Micro850® Controllers	490
	Micro870® Controllers	490
	Micro800® Plug-in Modules	490
	Micro850/Micro870 Expansion Modules	492
	Micro800® Accessories	493
Micro PLCs	Spectrum Controls Micro800® Modules	
	Spectrum Micro800® Digital I/O Modules	494
Micro PLCs	Allen-Bradley® MicroLogix™	
	MicroLogix™ 1400	495
	MicroLogix™ Expansion I/O Modules	495
	MicroLogix™ Accessories	497

Product Category	Product Family	Page
M		
Micro PLCs	Spectrum MicroLogix™ Modules	
	Spectrum MicroLogix™ Modules	498
Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)	MOD6 Miniature Circuit Breaker	
	MOD6 6kA MCB	18
Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)	MOD6 Residual Current Device	
	MOD6 RCCBs (Safety Switches)	21
	MOD6 RCBO1 6kA Panelboard Model - 1 Pole Width (Longbody with Pigtail)	21
	MOD6 Compact RCBO 6kA (RCBS) Loadcentre / Panelboard Model (with Pigtail)	22
	MOD6 Compact RCBO 6kA (RCBD) Loadcentre Model	22
	MOD6 RCBO2 6kA 2 Pole Width	23
	MOD6 RCBO 6kA (RCBF) 3P+N Model	23
	MOD6 AFDD (Arc Fault Detection Device)	23
	MOD6 3P RCBO (Panelboards)	24
Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)	MOD6 Accessories	
	MOD6 Main Switches	25
	Busbar Comb	25
	Terminal Pins	26
Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)	DIN-T Miniature Circuit Breakers	
	DIN-T6	28
	DIN-T10	30
	DIN-T15	33
	DIN-T6 2-in-1	33
	DIN-T DC Series	33
	DIN-T10H	34
Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)	DIN-Safe Residual Current Device	
	DIN-Safe RCBO Single Pole Width 10kA (DSRCBH)	37
	DIN-Safe RCBO Single Pole Width 6kA (DSRCBH)	38
	DIN-Safe RCBO Compact Single Pole Width 6kA (DSRCBS)	38
	DIN-Safe RCBO (2P Width)	39
	DIN-Safe Safety Switches (RCCBs)	40
	DIN-Safe RCCB Add-on Module (DSRCM)	42
Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)	DIN-T Accessories	
	DIN-T Main Switches	44
	DIN-T Shunt Trip	44
	DIN-T Undervoltage Trip	44
	DIN-T Auxiliaries	45
	DIN-T Changeover Switch	45
	DIN-T Busbar Combs	46
	DIN-T Busbar Comb End caps	46
	DIN-T Busbar Comb Tee-off cap	46
	DIN-T Pushbuttons	47
	DIN-T Terminal Connectors	47
	DIN-T Motor Operator	47
	DIN-T Terminal Covers and Pole Fillers	47
	DIN-T Locking Devices	48
	DIN-T Fillers	48
Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)	Safe-T Residual Current Device	
	Safe-T Single Pole Width RCBO (SRCB)	49
Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs)	DIN-T Contactors	
	DIN-T DTC..D Contactors	50
	DIN-T DTC..D Auxiliary	50
Motion Sensors	Carlo Gavazzi Motion Sensors	
	Carlo Gavazzi Motion Sensors	423
Motor Protection	Sprecher + Schuh Overloads	
	CEP7 Gen 3 Electronic Overloads	324
	Thermal (Bi-Metallic) Overloads	326
	Thermistor Protection Relays	328
	Enhanced Electronic Overload Relays and Current Transformer Kits	328

Product Category	Product Family	Page
M		
Motor Protection	Allen-Bradley Overloads	
	E100 Electronic Overloads	329
Motor Protection	Allen-Bradley Advanced Motor Protection Relays	
	E300/E200 Electronic Overload Relays	332
Motor Protection	NHP Motor Protection Relays	
	NHP Protek Electronic Motor Protection Relay	337
	Accessories	337
Motor Protection Circuit Breakers	Sprecher + Schuh Motor Protection Circuit Breakers	
	KTA5 Motor Protection Circuit Breakers	338
	KTA7 Motor Protection Circuit Breakers	340
	KTC7 Motor Protection Circuit Breakers	340
	KTB7 Motor Circuit Protectors	341
	KT7 Accessories	342
Motor Protection Circuit Breakers	Allen-Bradley Motor Protection Circuit Breakers	
	140M MPCBs - Standard motor protection	346
	Bulletin 140M Accessories	346
Motor Starters	see (Assembled Motor Starters)	
Moulded Case Circuit Breakers	TemBreak PRO Moulded Case Circuit Breaker	
	TemBreak PRO 160 AF	55
	TemBreak PRO 250 AF	61
	TemBreak PRO 400 AF	66
	TemBreak PRO 630 AF	72
	TemBreak PRO 800 AF	77
	TemBreak PRO 1000 AF	82
	TemBreak PRO 1250 AF	84
	TemBreak PRO 1600 AF	85
	TemBreak PRO 2000 AF	86
	TemBreak PRO 2500 AF	87
	TemBreak PRO 3200 AF	88
	TemBreak PRO Earth Leakage	88
	TemBreak PRO Accessories for 160 AF to 800 AF	89
	TemBreak PRO Accessories for 160AF to 1600AF	94
	TemBreak PRO Internal Accessories for 160AF to 1600AF	97
	TemBreak PRO External Accessories for 160AF to 1600AF	98
Moulded Case Circuit Breakers	TemBreak Mining MCCB	
	TemBreak Mining 125 AF	101
	TemBreak Mining 250 AF	102
	TemBreak Mining 400 AF	102
	TemBreak Mining 630 AF	102
	TemBreak Mining 800 AF	103
	TemBreak Mining 1250 AF	103
Moulded Case Circuit Breakers	Terasaki TemBreak 1 Moulded Case Circuit Breakers	
	XM30PB Motor Start MCCB	104
Moulded Case Circuit Breakers	TemBreak1 Accessories	
	TemBreak1 Internal Accessories	105
	TemBreak1 External Accessories	105
Mounting and Connection Systems	Allen-Bradley Starter Busbar System	
	Busbar Mounting and Connection System	349
	MCS Standard Busbar Modules	350
	MCS ISO Busbar Modules	350
	Mounting system accessories	350
MV AIS Switchgear	SGC Fixed and Demountable Switchgear	
	DF-2 / D-F2+ AIS Switchgear with Visual Earthing 17.5-24kV, 800A-1250A, up to 25kA 3s	292
MV GIS Switchgear	SGC Ring Main Units	
	DR-6E / DT-6E Extensible Ring Main Units 12kV or 24kV, 630A	294
	DR-6-2E / DT-6-2E Extensible Functional Units 12kV or 24kV, 630A	294
MV Variable Speed Drives	see (Variable Speed Drives Medium Voltage)	
N		
Network Media	Allen-Bradley Ethernet Media	
	Ethernet RJ45 Media	565

Product Category	Product Family	Page
N		
Network Switching and Routing	Ethernet M12 Media	566
	Ethernet M12 Media	566
	Allen-Bradley Stratix Ethernet Switches	
	Stratix® 2000 Unmanaged Ethernet Switches	557
	FactoryTalk Network Manager	558
	Stratix® 2500 Lightly Managed Switches	558
	Stratix® 5700 Managed Industrial Ethernet Switches	559
	Stratix® 5400 Managed Industrial Ethernet Switches	559
	Stratix® 5410 Industrial Distribution Switches	560
	SFP Transceivers	560
	Stratix® 5950 Security Appliance	560
	EtherNet/IP Taps (ETAP) Devices	561
	Network Address Translation (NAT) Devices	561
	ProSoft® Radio Network	
Network Switching and Routing	ProSoft® Industrial Radios	562
	ProSoft® Radio Antenna	562
	ProSoft® Radio Cables	563
	ProSoft® Lightning Protectors	564
	ProSoft® Power Over Ethernet Kits	564
	ProSoft® Power Divider	564
	ProSoft® Radios Miscellaneous	564
Non-Contact Interlocks	Allen-Bradley 440N Non-Contact Interlock Switches	
	SensaGuard	465
	Magnetically Coded	466
	Accessories	467
O		
Operator Panels	Allen-Bradley PanelView 5000	
	Allen-Bradley PanelView 5310	568
	Allen-Bradley PanelView 5510	568
Operator Panels	PanelView™ Plus 7 Graphic Terminals	
	PanelView™ Plus 7 Standard Terminals	569
	PanelView™ Plus 7 Performance Terminals	569
	PanelView™ Plus Accessories and Spares	569
Operator Panels	RFIDEAS HMI Accessories	
	RFIDEAS HMI Accessories	571
Operator Panels	Spectrum Controls InView Industrial Message Displays	
	InView Marquee Display	572
	InView Communications Modules	572
	InView Accessories	572
Operator Panels	see (Micro Operator Panels)	
Overloads	see (Motor Protection)	
P		
Panelboards	CONCEPT ONE Panelboards	
	Concept One Panelboard COE	121
	Concept One Panelboard Accessories	122
Panelboards	CONCEPT PLUS Panelboard	
	Concept Plus Panelboard CPL	124
	Concept Plus Panelboard CPLG with GB Isolation Chassis	126
	Concept Plus Panelboard CPLX (Extra Row DIN Rail Below Chassis - 24 Poles)	126
	Concept Plus with Single Energy Metering	126
	Concept Plus with Dual Energy Metering	127
	CPL Accessory Modules	127
	Concept Plus Accessories CPL	128
	CONCEPT PREMIER Panelboard	
Panelboards	Concept Premier CPR Panelboard	131
	Concept Premier Accessory Modules- CPRACC	134
	Concept Premier Accessories-CPR	135
Panelboards	CONCEPT TOUGH Panelboard	
Panelboards	The Heavy Duty Panelboard for DIN-T MCBs	136
	General Panelboard Hardware / Accessories	
	Panelboard Emergency Lighting Test Kits	137

Product Category	Product Family	Page
P		
	Panelboard External Lighting Kits	137
	Panelboard Main Switches	138
	Panelboard Gear Trays	138
	Door Accessories	138
	Panelboard General Accessories	139
	Earth and Neutral Bars and Accessories	139
	Labels	140
	Brackets and Supports	141
Panelboards	Rapid Test RCD Testing System	
	Test Equipment	142
	Retrofit Test Equipment	142
	Accessories	142
Pendants and Pendant Systems	Allen-Bradley 800FC Pendant Stations	
	Pendant Enclosure	672
	1 Speed 22.5mm Pushbutton Operators	672
	1 Speed Extended Non-Illuminated Operators	672
	2 Speed 22.5mm Pushbutton Operator	673
	3 Speed 22.5mm Pushbutton Operator	673
	Pendant Accessories	675
Photoelectric Sensors	Allen-Bradley Photoelectric Sensors	
	Retroreflective Sensors	400
	Polarised Retroreflective Sensors	401
	Transmitted Beam Sensors	402
	Digital Diffuse Sensors	403
	Background Suppression Sensors	405
	Laser Sensors	405
	Analogue Laser Sensors	406
	Colour Detection Sensors	406
	Clear Object Detection Sensors	406
	Sensor Accessories	407
	Allen-Bradley Odos 3D Sensors	407
Photoelectric Sensors	Carlo Gavazzi Photoelectric sensors	
	Diffuse	408
	Retroreflective	409
	Background Suppression	410
	Polarised Retroreflective	410
	Transmitted Beam	411
	Photoelectric Sensor Accessories	411
PLCs	see (Compact PLC Systems, Large PLC Systems, Micro PLCs)	
Plugs and Sockets	see (Hazardous Area Plugs and Sockets, High Current Plugs and Sockets, Isolating Plugs and Sockets)	
Power and Multifunction Meters	Carlo Gavazzi Power and Multifunction Meters	
	Carlo Gavazzi Energy Meters	262
	Carlo Gavazzi Multifunction Meters	264
	Multifunction Meter Optional Modules	265
Power and Multifunction Meters	IME Power and Multifunction Meters	
	IME Energy Meters	266
	IME Multifunction Meters	266
	IME Gateways and Convertors	268
Power and Multifunction Meters	Allen-Bradley Power and Multifunction Meters	
	PM500 Energy Meter	269
	PM1000 Energy Meter	269
	PM5000 Power Analyser	269
Power Connections	Distribution Blocks (Active Links)	
	Distribution Blocks	181
Power Connections	High Current Terminals (Power Terminals/Blocks)	
	High Current Terminals	182
	High Current Terminals	182
	High Current Terminals	182
	High Current Terminals	182
Power Quality	Power Quality Systems Selection Guide	

Product Category	Product Family	Page
P		
Power Quality	Power Quality Systems Order Form	
Power Supplies	see (Switched Mode Power Supplies)	
Pre-Wired Cables and Connection Systems	Allen-Bradley® 1492 Programmable Controller Wiring Systems	
	ControlLogix Pre-Wired Cables, Terminal Block to IFM Connector	816
	ControlLogix Module Wired Cables, Terminal Block to Flying Lead	818
	CompactLogix Pre-Wired Cables, Terminal Block to IFM Connector	818
	CompactLogix Module Wired Cables, Terminal Block to Flying Lead	820
	MicroLogix/Micro800 Module Wired Cables, Terminal Block to Flying Lead	821
	SLC Pre-Wired Cables, Terminal Block to IFM Connector	821
	SLC Module Wired Cables, Terminal Block to Flying Lead	821
	Digital Interface Modules (IFM)	821
	Analogue Interface Modules (AIFMs)	822
	PLC-5 to ControlLogix Conversion Modules Pre-Wired Cables	823
	PLC-5 to ControlLogix Conversion Modules	823
	PLC-5 to ControlLogix Conversion Mounting Assemblies	823
	Pre-Wired Cable Accessories	824
Pre-Wired Cables and Connection Systems	Allen-Bradley Connection systems	
	Pico, 3-Pin	825
	Pico, 4-Pin	825
	AC Micro, 3-Pin	825
	AC Micro, 4-Pin	826
	AC Micro, 6-Pin	826
	DC Micro, 4-Pin	827
	DC Micro, 5-Pin	828
	DC Micro, 8-Pin	829
	Mini, 3-Pin	829
	Mini, 4-Pin	830
	Mini, 5-Pin	830
	M23, 19-Pin	830
	Safety Connection Systems	830
Pre-Wired Cables and Connection Systems	Carlo Gavazzi Connection Systems	
	Connectors and Cables for Sensors	831
Pressure Mats	Allen-Bradley 440F Pressure Mats	
	Safety Mats	479
	Standard Perimeter Trim Kits	479
Pressure Switches and Sensors	Allen-Bradley Pressure Sensors	
	Solid-state Pressure Switches	441
	Electromechanical Pressure Switches	441
Pressure Switches and Sensors	UEDA Electromechanical Pressure Sensors	
	Series GPS	442
	Series IPS	442
Programmable Logic Controllers	see (Compact PLC Systems)	
Programmable Safety Relays	Allen-Bradley CR30 Software Configurable Relay	
	Safety Relay	454
	Plug-in Communications Module	454
Proximity Sensors	Allen-Bradley Proximity Sensors	
	Inductive Proximity Sensors	412
	Analogue Ultrasonic Proximity Sensors	414
	Sensor Accessories	415
Proximity Sensors	Carlo Gavazzi Proximity Sensors	
	Carlo Gavazzi Discrete Inductive Proximity Sensors	416
	Carlo Gavazzi Capacitive Proximity Sensors	419
	Carlo Gavazzi Analogue Ultrasonic Proximity Sensors	421
	Carlo Gavazzi Magnetic Proximity Sensors	421
	Carlo Gavazzi Proximity Sensor Accessories	421
Pushbuttons and Pilot Lights	Sprecher + Schuh D7 Pushbuttons and Pilot Lights	
	D7 Emergency Stop Operators	676
	D7 Momentary Pushbuttons	678
	D7 Latching Pushbuttons (Components Only)	684
	D7 Momentary Mushroom Head Pushbuttons (Components Only)	685
	D7 Reset Rod Operators (Components Only)	687

Product Category	Product Family	Page
P		
	Multi-Function Momentary Pushbuttons (Fully Assembled Units)	687
	D7 Selector and Key Selector Switches	690
	D7 Potentiometers and Resistive Elements	696
	D7 Toggle Switches	697
	D7 Pilot Lights	697
	D7 Lamp Modules for use with Pilot Lights	699
	D7 Enclosed Pushbutton Stations	700
	D7 Contact Blocks and Coupling Plates	702
	D7 Monolithic Operators	702
	D7 Accessories	704
Pushbuttons and Pilot Lights	Allen-Bradley 800F Pushbuttons and Pilot Lights	
	800F Emergency Stop Operators	715
	800F Pushbuttons	719
	800F Momentary Mushroom Head Pushbuttons (Components Only)	722
	800F Latching Mushroom Head Pushbuttons	722
	800F Reset Rod Operators	722
	800F Multifunction Momentary Pushbuttons	723
	800F Selector Switches	724
	800F Potentiometers	730
	800F Toggle Switch	730
	800F Pilot Lights	731
	800F Integrated Lamp Modules for use with Pilot Lights	731
	800F Pushbutton Stations	732
	800F Contact Blocks and Coupling Plates	733
	800F Monolithic Pushbuttons	733
	800F Accessories	734
Pushbuttons and Pilot Lights	Austrol N100 Pushbuttons	
	Complete N100 Panel Mounted 30.5mm Standard Units	738
	FT/NT Complete Pushbutton Stations	739
	Heavy Duty Pushbuttons Stations Type HPD	739
	Empty Enclosures to suit N100 Operators	739
	Special Pushbuttons Type HD	741
	N100 Pushbutton Components for Self-Assembly	741
	N100 Pilot Light Components for Self-Assembly	743
	N100 Accessories and Spare Parts	743
	Engraved Inserts and Legend Plates to suit N100	744
	DRN Foot / Palm Operators	744
	Spare Lamps	744
Pushbuttons and Pilot Lights	Allen-Bradley 800T/800H Pushbuttons	
	30.5 mm Pushbuttons	748
	Pilot Light Units (Standard Units)	750
	Pilot Light Units (Push-To-Test)	751
	Selector Switches	751
	Toggle Switches	752
	Potentiometers	752
	Pushbutton Enclosures	752
	Accessories	753
R		
RCBOs	see (Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs))	
RCDs	see (Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs))	
Reactor Modules	Allen-Bradley Reactors	
	I/O Reactors	392
Relays	see (Electromechanical Relays, Programmable Safety Relays, Single Function Safety Relays, Smart Relays, Solid State Relays, Speed Monitoring Relays, Temperature Monitoring Relays, Time Delay Relays, Voltage Current Phase and Power Factor Monitoring Relays)	
Remote Access	ProSoft Remote Access Devices	
	Industrial Cellular Gateway	547
	Prosoft Cellular Antenna	547
	Industrial Network Bridge	548
	Prosoft Power User Plan	548
	ProSoft Persistent Data Network (PDN)	549

Product Category	Product Family	Page
R		
Remote Access	Remote Access Devices	
	Cosy Range	550
	Flexy Range	550
	Antennae	551
Remote Access	Intercel Communications	
	4G Modems	552
	Accessories	552
S		
Safety Enabling Switches	Enabling Switches	
	Enabling Switches	485
Safety Pull Wire Switches	Emergency Stop Pull-wire Switches	
	Lifeline 3	480
	Lifeline 4	480
	Lifeline 4 Stainless Steel	480
	Lifeline 5	480
	Lifeline 5 Stainless Steel	481
	Lifeline Rope Tensioner Accessories	481
	Accessories	481
	Lifeline Rope Tensioner System Installation Kits	481
	Stainless steel installation kits	481
Safety Pull Wire Switches	Steute Emergency Stop Pull-wire Switches	
	Single Sided Actuation	482
	Pull-wire Switch Accessories	482
Safety Pull Wire Switches	Austrol NTW Emergency Stop Pull-wire Switch	
	Safety Pull-Wire Switches	483
	Ex-Rated Safety Pull-Wire Switches	483
	Lanyard Rope / Pull-wire	484
	Accessories	484
	Spare Parts	484
Sensors	see (Level Sensors, Photoelectric Sensors, Pressure Switches and Sensors, Proximity Sensors, Wireless Switches and Sensors)	
Services	see (Machinery and Site Audits, On-Line and Phone Support, On-Site Services, On-Site Retrofit Services, Parts Management Agreements Repair Services, Service Level Agreements)	
Servo Drives	Allen-Bradley Kinetix 5100 Servo Drives	
	Allen-Bradley Kinetix 5100 Servo Drives	627
Servo Drives	Allen-Bradley Kinetix 5300 Servo Drives	
	Kinetix 5300 Servo Drives	628
Servo Drives	Allen-Bradley Kinetix 5500 Servo Drives	
	Kinetix® 5500 Drives	629
Servo Drives	Allen-Bradley Kinetix 5700 Servo Drives	
	Kinetix® 5700 Drives	631
Servo Motors and Cables	Allen-Bradley VP Series Servo Motors	
	VP-Series™ Low Inertia (VPL) Servo Motors	632
Servo Motors and Cables	Allen-Bradley MP Series Servo Motors	
	MP-Series™ Low Inertia (MPL) Servo Motors	633
Servo Motors and Cables	Allen-Bradley TL Series Servo Motors	
	TLY-Series™ Servo Motors	635
	TLP-Series™ Servo Motors	635
Servo Motors and Cables	Allen-Bradley Servo Accessories	
	Kinetix® VP-Series Single Motor Cables	636
	Kinetix® SpeedTEC DIN (M7) Cables	636
	Threaded DIN (M4) Motor Transition Cables	638
	Kinetix® Bulletin TLY and TLAR Circular Plastic (M6) Cables	638
Single Function Safety Relays	Allen-Bradley GSR Safety Relays	
	Standard Relays	451
	Expansion Relays	451
	Guard Locking Relays	452
	Guardlink Relays	452
	Ethernet/IP Network Interface	452
Single Function Safety Relays	Allen-Bradley MSR Safety Relays	
	Speed Monitoring	453

Product Category	Product Family	Page
S		
Sirens	Wide Area Sirens - Motor Driven	
	Super M	948
	Duplo	948
	Mono 72	948
	S04	948
	Mini Mono P	949
	GP Series	949
Sirens	see (Hooters Bells and Buzzers, Hazardous Area Sound, Electronic Sounder)	
Smart Relays	Allen-Bradley® Micro810® Controllers	
	Micro810® Controllers	488
	Micro 810® Accessories	488
Soft Starters	see (Industrial Soft Starters)	
Soft Starters, Medium Voltage	Allen-Bradley MV Soft Starters	
	Centreline 1500 (up to 6.6kV)	394
	One Gear (10 to 15kV)	394
Solid State Relays	Finder Solid State Relays	
	34 Series Plug-in Relay	777
	39 Series Interface Relays	777
Solid State Relays	Carlo Gavazzi Solid State Relays	
	Soliton Solid State Contactors with Built-in Heatsink	778
	Hockey Puck Solid State Relays	779
	Miniature PCB/DIN Rail Mount Solid State Relays	784
Solid State Relays	Allen-Bradley Solid State Relays	
	700-HL Slim Interface Relay Module	785
	700-SK SSR Interface Modules	785
Sound indicator	see (Hooters Bells and Buzzers, Hazardous Area Sound, Electronic Sounder, Sirens)	
Sounder	see (Hooters Bells and Buzzers, Hazardous Area Sound, Electronic Sounder, Sirens)	
Speed Monitoring Relays	Allen-Bradley Speed Monitoring Relays	
SSR	see (Solid State Relays)	
Stack Lights	Moflash Stack Lights	
	MOLEDTLM 70mm Stack Lights	936
Stack Lights	Allen-Bradley Stack Lights	
	Allen-Bradley 855E 50mm Tower Lights	937
Stack Lights	Allen-Bradley Control Tower Stack Lights 70mm	
	Allen-Bradley 856T 70mm Tower Lights	940
Surge Protection	Cirprotec Electrical Network Surge Diverters	
	IEC Type 1+2	145
	IEC Type 2	146
	IEC Type 2+3	148
	Cirprotec Solar PV-rated Surge Protection	148
	CPS Block Plus TVSS Modular Surge Protective Panels	149
	CPS Nano Plus TVSS Surge Protection Devices	149
Surge Protection	Cirprotec Fine Protection Surge Diverters	
	DIN Rail Mounted Fine Protection Surge Diverters	150
	CSF21	150
	Communication, Data, Control and RF Surge Protection Devices	150
Surge Protection	MOD6 Electrical Network Surge Diverters	
	Electrical Network Diverters	152
Surge Protection	Allen-Bradley Electrical Network Surge Diverters	
	4983-DS AC Power Surge Diverter	153
Switchboards	see (Panelboards)	
Switched Mode Power Supplies	Allen-Bradley Switched Mode Power Supplies	
	1606-XLE Essential Series	249
	1606-XLP Compact Series	250
	1606-XLS Performance Series	251

Product Category	Product Family	Page
S		
Switches	see (Enclosed Isolating Switch, Limit Switches, Loadbreak Switches, Pressure Switches and Sensors, Safety Enabling Switches, Safety Pull Wire Switches, Time Switches, Transfer Switches, Weatherproof Switches, Weatherproof Isolating Switches Wireless Switches and Sensors, Control and Cam Switches)	
T		
Temperature Monitoring	Osensa FTX Over Temperature Monitoring	
	Temperature Transmitters	154
	Temperature Probes	154
	Accessories	155
Terminal Boxes	N-Line Thermoplastic Terminal Boxes	
	N-Line ABS Insulated Plastic Terminal Boxes	864
	Mounting Plates	864
	DIN Rail	865
Terminal Boxes	Thermoplastic Terminal Boxes	
	Cardmaster Range	870
	MX Range	870
	Euronord PC/ABS Range	872
	Solid Range	873
	Accessories to suit EK/Solid Terminal Boxes	874
	Inspection Windows and Accessories	876
Terminal Boxes	Aluminium Terminal Boxes	
	Terminal Boxes (Mounting Plate Sold Separately)	877
Terminal Boxes	Mild Steel Terminal Boxes	
	Terminal Boxes (Mounting Plates and DIN Profile Sold Separately)	878
	STB/SSTB Accessories	878
Terminal Boxes	Stainless Steel Terminal Boxes	
	Terminal Boxes (Mounting Plate and DIN Profile Sold Separately)	879
	SSTB Accessories	879
Terminals - Screw	Sprecher + Schuh Screw Type Terminals V7-W	
	Through Terminals	832
	Double Deck Terminals	833
	Earth Terminals	834
	Double-deck Diode Terminals	835
	Triple Deck Terminal Blocks	835
	Isolating Terminals	835
	Duo Multiple Tie Terminals	836
	Proximity Switch Terminals	836
	Fuse Terminals	836
	Fuses for use with V7/1492 Fuse Terminals	837
	Terminal Marking System for use with V7 Terminals	837
	Accessories for V7 Terminals	841
Terminals - Screw	Allen-Bradley Terminal Blocks	
	Through Terminals	843
	Earth Terminals	844
	Double Level Terminals	845
	Isolating Terminals	845
	Plug-in Style Terminals	845
	Fuse Terminals	845
	Diode Terminals	846
	Accessories for 1492 Terminals	846
Terminals - Screwless	Allen-Bradley Push-in Terminals	
	Feed-Through Blocks	847
	Control Power Distribution Blocks	851
	Sensor Blocks	853
	Accessories	853
Terminals - Screwless	Allen-Bradley Terminal Marking System	
	ClearMultiprint Marking System	857
	Terminal Markers	857
Thermistor Protection Relays	see (Motor Protection)	
Time Delay Relays	Carlo Gavazzi Time Delay Relays	
	ON Delay Relays	795
	OFF Delay Relays	796

Product Category	Product Family	Page
T		
	TRUE OFF Delay Relays	796
	Multifunction Time Delay Relays	797
	Recycling Relays	798
	Star Delta Delay Relays	798
	Accessories	798
Time Delay Relays	Sprecher + Schuh Time Delay Relays	
	RZ7-FE Time Delay Relays	799
	RZ7-FS High Performance Time Delay Relays	800
Time Delay Relays	Allen-Bradley Time Delay Relays	
	Economy Timing Relays	803
	700-FS Advanced Timing Relays	803
	Dial Timing Relays	803
	Ultra-Slim Multifunction Timing Relays	804
Time Switches	Finder Time Switches	
	Daily Time Switches	805
	Weekly Time Switches	805
	Weekly + Astro Time Switches	806
Time Switches	Finder Mechanical Time Switches	
	Daily Time Switches	807
	Weekly Time Switches	807
Training	see (Instructor Led Classroom)	
Transducers and Transformers	IME Solid Core Current Transformers	
	Cable Type Current Transformers	278
	Busbar Type Current Transformers	279
	Primary Wound Current Transformers	280
	Accessories	280
Transducers and Transformers	IME Split Core Current Transformers	
	TRA230 (20x30mm window)	281
	TRA580 (50x80mm window)	281
	TRA812 (80x120mm window)	281
	TRA816 (80x160mm window)	281
Transducers and Transformers	IME Transducers	
	AC Current Transducers	282
	AC Voltage Transducers	282
	Combined Current Transformers/Transducers	282
Transfer Switches	Socomec Manual Transfer Switches	
	SCOM Manual Transfer Switch	220
	SCOM (MB) Make Before Break Manual Transfer Switch	221
	SCO Manual Transfer Switch	221
	SCO (MB) Make-Before-Break Manual Transfer Switch	222
	VCO Visual Manual Transfer Switch	222
	BCO Bypass Manual Transfer Switch	222
	Manual Transfer Switch Accessories	223
Transfer Switches	Socomec Automatic Transfer Switches	
	ATyS M (Modular) Series	225
	ATyS Series	228
	ATyS Controllers C30/C40/C55/C65	233
	ATyS M and ATyS Accessories	234
	Enclosed ATyS M/ ATyS/ ATyS p	236
Transfer Switches	Terasaki MCCB Transfer Switches	
	TemBreak 1 Transfer Switches	237
	ATS Controllers	237
	TemBreak Pro Transfer Switches	238
Transformers	NHP Control Transformers	
	Standard Control Transformers	253
	Multi-Tapped Control Transformers	253
V		
Variable Speed Drives	see (Architecture Drives, Compact Drives, Building Services Drives, Industrial Drives)	
Variable Speed Drives, Medium Voltage	PowerFlex 6000T Drives	
	PowerFlex 6000 MV Drives	395

Product Category	Product Family	Page
V		
Visualisation Software	Rockwell Visualisation Software	
	FactoryTalk® View Studio Enterprise	600
	FactoryTalk® View Site Edition (SE)	601
	FactoryTalk® View Machine Edition (ME)	604
Visualisation Software	Rockwell ThinManager Software	
	Rockwell ThinManager Software - Perpetual with Maintenance	609
	Rockwell ThinManager Software - Subscription	609
Visualisation Software	FactoryTalk® ViewPoint Software	
	FactoryTalk® ViewPoint Client	611
Visualisation Software	FactoryTalk® VantagePoint Software	
	FactoryTalk® VantagePoint EMI Perpetual	612
	FactoryTalk® VantagePoint - Recommended Products	612
Voltage, Current, Phase and Power Factor Monitoring Relays	Carlo Gavazzi Voltage / Current / Phase and Power Monitoring	
	Current Monitoring Relays	787
	Voltage Monitoring Relays	789
	Phase Sequence and Loss Relays	790
	Phase Sequence, Loss and Voltage Monitoring Relays	790
	Phase Sequence, Loss and Asymmetry Monitoring Relays	791
	Power Factor Monitoring Relays	791
	Frequency Monitoring Relays	791
	Multifunction Monitoring Relays	792
	Current Transformers	792
	DLA Pump Alternating Relays Range	793
	VVVF Drives	see (Architecture Drives, Compact Drives)
W		
Wall Mount Enclosures	Wall Mount Enclosures - GRPC, ABS and PC	
	ARCA GRPC Wall Mount Enclosures	883
	ARCA Accessories	883
	Wall Mount Enclosures - CAB PC/ABS	885
	CAB PC/ABS Accessories	885
Wall Mount Enclosures	Wall Mount Enclosures - GRP	
	Wall Mount Enclosures - GRP	886
	CAB GRP Accessories	886
Wall Mount Enclosures	N-Line Wall Mount Enclosures - Mild Steel	
	Wall Mount Enclosures - Nline	888
Wall Mount Enclosures	Wall Mount Enclosures - Mild Steel	
	Wall Mount Enclosures - MAS Single Door	889
	Wall Mount Enclosures - MAD Double Door	891
	Wall Mount Enclosures - MAP Single Door Horizontal	891
	MAS / MAD / MAP / ASR / ADR / SRE Accessories	891
Wall Mount Enclosures	Wall Mount Enclosures - Stainless Steel	
	Wall Mount Enclosures - Stainless Steel	895
	Stainless Steel Accessories (see also Mild Steel Wall Mount Accessories)	896
Wall Mount Enclosures	Sloped Roof Wall Mount Enclosures Stainless Steel	
	Sloped Roof Enclosures (SRE)	897
Wall Mount Enclosures	nVENT HOFFMAN Stainless Steel Wall Mount Hygienic Design Enclosures	
	Wall Mount Enclosures - Hygienic Design Range - Stainless Steel	898
	Hygienic Design Accessories (see also Mild Steel Wall Mount Accessories)	898
Weather Protected GPOs	N-LINE GPOs	
	Weather Protected GPOs	975
Weatherproof Isolators and Switches	N-LINE Isolators and Switches	
	Weatherproof Isolators and Switches	974
Weatherproof Switches	N-LINE Switches	
	Weatherproof Switches	973
Wireless Switches and Sensors	Steute Wireless Switchgear	
	Ex Wireless Universal Transmitters	432
	Ex Wireless Inductive Proximity Sensors	433
	Ex Wireless Limit Switches	433
	Wireless Universal Transmitters	433
	Wireless Pushbuttons and Enclosures	434
	Wireless Remote Controls	435

Product Category	Product Family	Page
W		
	Wireless Inductive Proximity Sensors	435
	Wireless Magnetic Sensors	436
	Wireless Limit Switches	436
	Wireless Foot Switches	437
	Receivers	437
	Repeaters	437
	Accessories for Wireless Switches and Sensors	437

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
0		100S-C37T14BC	318	140M-C-W454N	346	142E2911	210
02540.0-01	904	100S-C43EJ14BC	318	140M-C-W455N	346	14313511	210
060.72	761	100S-C43T14BC	318	140M-C-W542N	346	14323511	210
06208	768	100S-E116KD12C	319	140M-C-W543N	346	14333111	210
093 CABLE	761	100S-E146KD12C	319	140M-C-W544N	346	14333113	224
09316	761	100S-E190KD12C	319	140M-C-W545N	346	14333114	224
093160	761	100S-E205KD12C	319	140M-C-WTEN	346	14343111	210
093161	761	100S-E265KD12C	319	140M-C-WTN	346	14373111	210
09320	761	100S-E305KD12C	319	140M-C2E-A16	346	14383111	210
09360	761	100S-E370KD12C	319	140M-C2E-A25	346	143D3911	210
09363	761	120182300000PAS	807	140M-C2E-A40	346	143E3911	210
09368141	761	1202-C90	387	140M-C2E-A63	346	1441-DYN25-2C	355
09406	765	1203-USB	389	140M-C2E-B10	346	1441-DYN25-CAP	355
1		121182300000PAS	807	140M-C2E-B16	346	1441-DYN25-CBL2CH	355
100-C09EJ01	316	121182301000PAS	807	140M-C2E-B25	346	1441-DYN25-CBLHS	355
100-C09EJ10	316	123182300000PAS	807	140M-C2E-B40	346	1441-DYN25-CD	355
100-C09T01	316	13092006	234	140M-C2E-B63	346	1441-DYN25-M4CH	355
100-C09T10	316	13092016	234	140M-C2E-C10	346	1441-DYN25-MBAL	355
100-C12EJ01	316	13094006	234	140M-C2E-C16	346	1441-DYN25-MBMP	355
100-C12EJ10	316	13094016	234	140M-C2E-C20	346	1441-DYN25-MFRF	355
100-C12T01	316	1321-3R1-C	392	140M-C2E-C25	346	1441-DYN25-MREC	355
100-C12T10	316	1321-3R100-B	392	140M-C2E-C29	346	1441-DYN25-MRUC	355
100-C16EJ01	316	1321-3R1000-B	392	140M-C2E-C32	346	1441-DYN25-PS	355
100-C16EJ10	316	1321-3R12-B	392	140M-D8E-B25	346	1441-PEN25-CASE-T	355
100-C16T01	316	1321-3R130-B	392	140M-D8E-B63	346	1441-PEN25-COMS-US	355
100-C16T10	316	1321-3R160-B	392	140M-D8E-C10	346	1441-PEN25-NS	355
100-C23EJ01	316	1321-3R18-B	392	140M-D8E-C20	346	1441-PEN25-RBS	355
100-C23EJ10	316	1321-3R2-B	392	140M-D8E-C25	346	1443-ACC-AT-S	356
100-C23T01	316	1321-3R200-B	392	140M-D8E-C29	346	1443-ACC-AT-T	356
100-C23T10	316	1321-3R200-C	392	140M-F8E-C10	348	1443-ACC-GP-S	356
100-C30EJ10	316	1321-3R25-B	392	140M-F8E-C16	348	1443-ACC-GP-T	356
100-C30T10	316	1321-3R35-B	392	140M-F8E-C20	348	1443-ACC-GP-T16-SC	356
100-C37EJ10	316	1321-3R4-B	392	140M-F8E-C25	348	1443-ACC-GP-T16-SI	356
100-C37T10	316	1321-3R4-C	392	140M-F8E-C32	348	1443-ACC-GP-T32-SC	356
100-C43EJ10	316	1321-3R45-B	392	140M-F8E-C45	348	1443-ACC-GP-T32-SI	356
100-C43T10	316	1321-3R500-B	392	14132111	209	1443-ACC-HF-T	356
100-C55EJ10	316	1321-3R55-B	392	14132113	224	1443-ACC-IS-T	356
100-C55T10	316	1321-3R600-B	392	14132115	209	1443-ACC-LF-T	356
100-E116KD11	317	1321-3R750-B	392	14132813	224	1443-ACC-VO-S	356
100-E146KD11	317	1321-3R8-B	392	14142111	209	1443-ACC-VO-T	356
100-E190KD11	317	1321-3R8-C	392	14172111	209	1443-BLT-125-0	358
100-E205KD11	317	1321-3R80-B	392	14182111	209	1443-BLT-125-M6	358
100-E265KD11	317	1321-3R850-B	392	14190000	212	1443-CBL-BC3BC-500	357
100-E305KD11	317	1321-3R850-B	392	141A-APC10	350	1443-CBL-LMBNC-1	357
100-E370KD11	317	1321-3RB250-B	392	141A-AS9B	350	1443-CBL-MS2GBC-16S	356
100-ES1-11	320	1321-3RB320-B	392	141A-BCF1	349	1443-CBL-MS2GBC-32S	356
100-FA11	319	1321-3RB400-B	392	141A-BCF1H	349	1443-CBL-MS2GBC-64S	356
100-FA20	319	13994006	235	141A-BCR	349	1443-CBL-MS2IBC-16S	356
100-FA22	319	14001020	211	141A-BS10	349	1443-CBL-MS2IBC-32S	356
100-FA31	319	14001032	211	141A-BS5	349	1443-CBL-MS2IBC-50A	357
100-JE	320	14001050	211	141A-GS45RR25	350	1443-CBL-MS2IBC-64S	356
100-K05DJ01	315	14001220	211	141A-GS54RR25	350	1443-CBL-MS3IBC-112S	357
100-K05DJ10	315	14001232	211	141A-GS54RR45	350	1443-CBL-MS3IBC-16S	357
100-K05KA01	315	14001250	211	141A-GS63RR45	350	1443-CBL-MS3IBC-64S	357
100-K05KA10	315	14010532	211	141A-SS54RR25	350	1443-CBL-MSILM-50	357
100-K09DJ01	315	14010632	211	141A-SS54RR45	350	1443-CBL-MSILM-6	357
100-K09DJ10	315	14011520	211	141A-SS63RR45	350	1443-CON-MS2-SP	357
100-K09KA01	315	14011532	211	141A-TR3	349	1443-CON-MS3-SP	357
100-K09KA10	315	14011540	211	141A-TR3E	349	1443-MAG-075C-14	358
100-K12DJ01	315	14020832	211	141A-VN3120	350	1443-MAG-075F-15	358
100-K12DJ10	315	14032113	209	141A-VN3185	350	1443-MAG-100C-35	358
100-K12KA01	315	14040532S1	211	141A-VN370	350	1443-MAG-100F-35	358
100-K12KA10	315	14070532	211	141A2111	209	1443-MAG-150C-55	358
100-MCA00	320	1408-EM3A-ENT	269	141D2911	209	1443-MAG-150F-50	358
100-MCA02	320	1408-TS3A-ENT	269	141E2911	209	1443-PAD-075-0	358
100-SA10	319	140M-C-AFA10	348	1420-V1-ENT	269	1443-SFT-125-0	358
100-SA11	319	140M-C-AFA11	348	1420-V2-ENT	269	1443-STD-0-0	358
100-SA20	319	140M-C-AFA20	348	1420-V2P-ENT	269	1443-STD-0-M8	358
100-SB01	319	140M-C-AFAR10A01	348	14232111	210	14433111	210
100-SB11	319	140M-C-AFAR10A10	348	14232113	224	14433113	210
100-SB20	319	140M-C-ASA11	348	14232114	224	14433114	224
100S-C09EJ14BC	318	140M-C-ASA20	348	14232115	210	1444-AOF-RPC-SCW-01	354
100S-C09T14BC	318	140M-C-DN66	348	14242111	210	1444-AOFX00-04RB	354
100S-C12EJ14BC	318	140M-C-DRY66	348	1426-DM	269	1444-DYN-RPC-SCW-01	354
100S-C12T14BC	318	140M-C-DS	348	1426-MSE	269	1444-DYN-RPC-SPR-01	354
100S-C16EJ14BC	318	140M-C-KN1	348	1426-MSE-DNT	269	1444-DYN04-01RA	354
100S-C16T14BC	318	140M-C-KRY1	348	1426-M6E	269	1444-LBIC-04	355
100S-C23EJ14BC	318	140M-C-PEC23	347	1426-M8E	269	1444-LBXC-0M3-01	355
100S-C23T14BC	318	140M-C-PEK12	347	14272111	210	1444-LBXC-1M0-01	355
100S-C30EJ14BC	318	140M-C-PNC23	347	14282111	210	1444-REL-RPC-SCW-01	354
100S-C30T14BC	318	140M-C-SHS	348	14282911	210	1444-RELX00-04RB	354
100S-C37EJ14BC	318	140M-C-W452N	346	14290000	212	1444-TB-A	354
		140M-C-W453N	346	142D2911	210	1444-TB-B	354

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
1		1492-CABLE025Z	817	1492-EBJ3	846	1492-M3X5H1-20	858
1444-TBA-RPC-SCW-01	354	1492-CABLE050TBCH	818	1492-EBJD3	846	1492-M3X5HU1-10	858
1444-TBB-RPC-SCW-01	354	1492-CABLE050TBNH	818	1492-EBJD3FB	846	1492-M3X5V1-100	858
1444-TSC-RPC-SCW-01	354	1492-CABLE050Y	816	1492-EBJD3P	846	1492-M3X5V1-50	858
1444-TSCX02-02RB	354	1492-CABLE050Z	817	1492-EBP10/16	855	1492-MR5X8	858
14443111	210	1492-CJJ5-10	846	1492-EBP10/16-B	855	1492-MR5X8H1-10	858
144D3911	210	1492-CJ6-10	846	1492-EBP10/16T	855	1492-MR5X8H1-100	858
144E3911	210	1492-CJP10-2	855	1492-EBP10/16T-B	855	1492-MR5X8H1-20	858
14538113	210	1492-CJP16-2	855	1492-EBP2	847	1492-MR5X8V1-10	858
14731111	209	1492-CJP2-10	853	1492-EBP2-B	847	1492-MR5X8V1-100	858
14731113	224	1492-CJP2-10-B	853	1492-EBP2Q	847	1492-MR6X8H1-10	858
14731114	224	1492-CJP2-2	853	1492-EBP2Q-B	847	1492-MR6X8H1-20	858
14741111	209	1492-CJP2-2-B	853	1492-EBP2T	847	1492-MR6X8H1-50	858
147A5111	209	1492-CJP2-20	853	1492-EBP2T-B	847	1492-MR6X8H51-100	858
14831111	209	1492-CJP2-3	853	1492-EBP3	848	1492-MR6X8HGND	858
14841111	209	1492-CJP2-3-B	853	1492-EBP3-B	848	1492-MR6X8V1-10	858
1492-ACAB010AIOCL2	820	1492-CJP2-4	853	1492-EBP3Q	848	1492-MT3X8	857
1492-ACAB010ED69	819	1492-CJP2-4-B	853	1492-EBP3Q-B	848	1492-MT5X8	857
1492-ACAB025AB69	820	1492-CJP2-5	853	1492-EBP3T	848	1492-MT6X8	857
1492-ACAB025AC69	819	1492-CJP2-5-B	853	1492-EBP3T-B	848	1492-MT8X8	858
1492-ACAB025AE69	819	1492-CJP2-50	853	1492-EBP4	850	1492-MUA4-A13-A17	823
1492-ACAB025AIOCL2	820	1492-CJP2-50-B	853	1492-EBP4-B	850	1492-P10	851
1492-ACAB025BA69	819	1492-CJP2-6	853	1492-EBP4Q	850	1492-P10-B	851
1492-ACAB025BB69	819	1492-CJP2-6-B	853	1492-EBP4Q-B	850	1492-P10-OR	851
1492-ACAB025BD69	819	1492-CJP2-7	853	1492-EBP4T	850	1492-P10PD3E-2B2RE	852
1492-ACAB025D69	820	1492-CJP2-7-B	853	1492-EBP4T-B	850	1492-P10PD3E-5B	852
1492-ACAB025E69	820	1492-CJP2-8	853	1492-EBP6	851	1492-P10PD3S-1B	852
1492-ACAB025EA69	820	1492-CJP2-8-B	853	1492-EBP6-B	851	1492-P10PD3S-1B1RE	852
1492-ACAB025EB69	820	1492-CJP2-9	853	1492-EBP6T	851	1492-P10PD3S-1RE	852
1492-ACAB025ED69	819	1492-CJP3-10	854	1492-EBP6T-B	851	1492-P10PD3S-1RE1G	853
1492-ACAB025EE69	819	1492-CJP3-10-B	854	1492-EBPD3	849	1492-P10T	851
1492-ACABLE010UB	817	1492-CJP3-2	854	1492-EBPD3-B	849	1492-P10T-B	851
1492-ACABLE010UD	817	1492-CJP3-2-B	854	1492-EBPD4	854	1492-P10TPE	856
1492-ACABLE025TB	817	1492-CJP3-20	854	1492-EBPD4-B	854	1492-P16	851
1492-ACABLE025UB	817	1492-CJP3-20-B	854	1492-EBPGS-4	853	1492-P16-B	851
1492-ACABLE025UD	817	1492-CJP3-3	854	1492-EBPKD3Q	848	1492-P16-OR	851
1492-ACABLE025VB	817	1492-CJP3-3-B	854	1492-EBPKD3Q-B	848	1492-P16D	851
1492-ACABLE025WB	817	1492-CJP3-4	854	1492-EBPKD3T	848	1492-P16D-B	851
1492-ACABLE050TB	817	1492-CJP3-4-B	854	1492-EBPKD3T-B	848	1492-P16T	851
1492-ACABLE050UB	817	1492-CJP3-5	854	1492-EBPQ3	849	1492-P16T-B	851
1492-ACABLE050UD	817	1492-CJP3-5-B	854	1492-EBPS-3	853	1492-P2	847
1492-ACABLE050WB	817	1492-CJP3-50	854	1492-EBPS-4	853	1492-P2-B	847
1492-AIFM16-F-3	823	1492-CJP3-50-B	854	1492-EBPT3	849	1492-P2Q	847
1492-AIFM16-F-5	823	1492-CJP3-6	854	1492-EBPT3-B	849	1492-P2Q-B	847
1492-AIFM4-3	822	1492-CJP3-6-B	854	1492-ERL35	855	1492-P2T	847
1492-AIFM6S-3	822	1492-CJP3-7	854	1492-FPK2	846	1492-P2T-B	847
1492-AIFM8-3	822	1492-CJP3-7-B	854	1492-IFM20D120	822	1492-P2TPE	856
1492-AIFM8-F-5	823	1492-CJP3-9	854	1492-IFM20D24	822	1492-P3	848
1492-CAB01020L1	819	1492-CJP3-9-B	854	1492-IFM20F	821	1492-P3-B	848
1492-CAB010B69	818	1492-CJP4-10	854	1492-IFM20F-2	821	1492-P3-OR	848
1492-CAB010D69	819	1492-CJP4-10-B	854	1492-IFM20F-3	821	1492-P31P	848
1492-CAB010J69	818	1492-CJP4-2	854	1492-IFM20F-F-2	822	1492-P31P-B	848
1492-CAB010K69	819	1492-CJP4-2-B	854	1492-IFM20F-F24-2	822	1492-P3ESTP	855
1492-CAB010RTN18	820	1492-CJP4-3	854	1492-IFM20F-F24A-2	822	1492-P3ESTP-B	855
1492-CAB010U62	821	1492-CJP4-3-B	854	1492-IFM40D24	822	1492-P3ESTP-G	855
1492-CAB02520DIOL2	820	1492-CJP4-4	854	1492-IFM40D24-3	822	1492-P3MSTP	855
1492-CAB02520L1	819	1492-CJP4-4-B	854	1492-IFM40D24A-2	822	1492-P3MSTP-B	855
1492-CAB02540DIOL2	820	1492-CJP4-5	854	1492-IFM40DS24-4	822	1492-P3MSTP-G	855
1492-CAB02540L1	819	1492-CJP4-5-B	854	1492-IFM40F	821	1492-P3P	848
1492-CAB025B69	818	1492-CJP4-50	854	1492-IFM40F-2	821	1492-P3PQ	848
1492-CAB025C69	818	1492-CJP4-50-B	854	1492-IFM40F-3	821	1492-P3PT	848
1492-CAB025E69	818	1492-CJP6-2	854	1492-IFM40F-F24-2	822	1492-P3Q	848
1492-CAB025H69	818	1492-CJP6-3	854	1492-IFM40F-FS-2	822	1492-P3Q-B	848
1492-CAB025J69	818	1492-CJP6-4	854	1492-IFM40F-FS-4	822	1492-P3Q-OR	848
1492-CAB025K69	819	1492-CM1771-LA001	823	1492-IFM40F-FS24-2	822	1492-P3SSTP	855
1492-CAB025M69	818	1492-CM1771-LA002	823	1492-IFM40F-FS24A-4	822	1492-P3SSTP-B	855
1492-CAB025RTN18	820	1492-CM1771-LA003	823	1492-J10	844	1492-P3SSTP-G	855
1492-CAB025RTN32I	820	1492-CM1771-LD001	823	1492-J16	844	1492-P3STP	856
1492-CAB025RTN32O	820	1492-CM1771-LD006	823	1492-J3	843	1492-P3STPCE	856
1492-CAB025U62	821	1492-CONACAB005B	823	1492-J35	844	1492-P3STPEB	855
1492-CAB050J69	818	1492-CONACAB005D	823	1492-J4	843	1492-P3STPPC	856
1492-CABLE005Y	816	1492-CONACAB005E	823	1492-J6	843	1492-P3T	848
1492-CABLE010H	821	1492-CONACAB010B	823	1492-JD3	845	1492-P3T-B	848
1492-CABLE010X	816	1492-CONACAB010D	823	1492-JD3FB	846	1492-P3T-OR	848
1492-CABLE010Y	816	1492-CONACAB010E	823	1492-JD3P	845	1492-P3TPE	856
1492-CABLE010Z	817	1492-CONCAB005X	823	1492-JD4	845	1492-P3TPLE	856
1492-CABLE025H	821	1492-CONCAB005Y	823	1492-JG10	844	1492-P4	850
1492-CABLE025N3	821	1492-CONCAB010X	823	1492-JG3	844	1492-P4-B	850
1492-CABLE025TBCH	818	1492-CONCAB010Y	823	1492-JG35	845	1492-P4-OR	850
1492-CABLE025TBNH	818	1492-EAHJ35	846	1492-JG4	844	1492-P4Q	850
1492-CABLE025X	816	1492-EAJ35	846	1492-JG6	844	1492-P4Q-B	850
1492-CABLE025Y	816	1492-EAP35	855	1492-JKD3	845	1492-P4T	850
		1492-EBJ16	846	1492-M3X5H1-100	858	1492-P4T-B	850

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
1		1492-PT3C	849	15594200	235	1719-IBN8B	543
1492-P4TPE	856	1492-PT3C-B	849	1585A-DD4JD	566	1719-IF4HB	543
1492-P6	851	1492-PTG3	849	1585D-M4DC-SH	566	1719-IJ	543
1492-P6-B	851	1492-PTG3C	849	1585D-M4TBDM-10	566	1719-IR4B	544
1492-P6-OR	851	1492-PTPS	856	1585D-M4TBJM-10	566	1719-IT4B	544
1492-P6D	851	1492-RTB20N	824	1585D-M4TBJM-5	566	1719-OB2	543
1492-P6D-B	851	1492-SJ5A-10	846	1585J-M4TB-2	565	1719-OB2L	543
1492-P6PD2E-3B3RE	852	1492-SJ5A-24	846	1585J-M4TBJM-2	565	1719-PSDC	543
1492-P6PD2E-6B	851	1492-SJFB8-10	846	1585J-M4TBJM-5	565	1719-TB6	544
1492-P6PD2E-6RE	851	1492-SJM5-10	846	1585J-M8CBJM-2	565	1719-TB6S	544
1492-P6PD2S-1B	852	1492-WFB4	845	1585J-M8CC-H	565	1719-TB8	544
1492-P6PD2S-1B1RE	852	1492-WFB424	846	1585J-M8HBJM-2	565	1719-TB8S	544
1492-P6PD2S-1RE	852	1492-XIM24-16RF	822	1585J-M8TBJM-1	565	1719-TB8SX2	544
1492-P6PD2S-1RE1G	852	1492-XIM4024-16RF	822	1585J-M8TBJM-2	565	1719-TB8X2	544
1492-P6T	851	1492-XIMTR4024-32R	822	1585J-M8TBJM-5	565	1732E-12X4M12P5QCDR	538
1492-P6T-B	851	14997702	212	15990032	235	1732E-16CFGM12QCR	538
1492-P6TPE	856	14AF2111	210	15990502	235	1732E-16CFGM12R	538
1492-PD3	849	150-C108NBD	361	15992009	235	1732E-8CFGM8R	538
1492-PD3-B	849	150-C135NBD	361	15994001	235	1732E-8IOLM12R	538
1492-PD3-OR	849	150-C16NBD	361	16000055	234	1732E-8X8M12DR	538
1492-PD32P	849	150-C19NBD	361	16000065	234	1732E-IB16M12DR	537
1492-PD32P-B	849	150-C25NBD	361	1606-XLB120E	252	1732E-IB16M12R	537
1492-PD32PC	849	150-C30NBD	361	1606-XLB240E	252	1732E-IB8M8SOER	537
1492-PD3C	849	150-C37NBD	361	1606-XLE120E	249	1732E-IF4M12R	538
1492-PD3C-B	849	150-C3NBD	361	1606-XLE120E-2	249	1732E-IR4IM12R	538
1492-PD4	850	150-C43NBD	361	1606-XLE120EE	249	1732E-IT4IM12R	538
1492-PD4-B	850	150-C60NBD	361	1606-XLE240E	249	1732E-OB16M12DR	537
1492-PD4-BL	850	150-C85NBD	361	1606-XLE240E-3	249	1732E-OB16M12R	537
1492-PD4-G	850	150-C9NBD	361	1606-XLE240EE	249	1732E-OB8M8SR	537
1492-PD4-OR	850	150-F108NBD	362	1606-XLE80E	249	1732E-OF4M12R	538
1492-PD4-RE	850	150-F1250NBA	363	1606-XLERED	250	1732ES-IB12XOB4	539
1492-PD4-W	850	150-F135NBD	362	1606-XLP100E	250	1734-232ASC	535
1492-PD4-Y	850	150-F201NBD	362	1606-XLP15B	250	1734-485ASC	535
1492-PD4C	850	150-F251NBD	362	1606-XLP15E	250	1734-4IOL	535
1492-PD4C-B	850	150-F25NBD	362	1606-XLP25A	250	1734-8CFGDLX	533
1492-PDG3	849	150-F317NBD	362	1606-XLP30B	250	1734-ACNR	532
1492-PDG32P	849	150-F361NBD	362	1606-XLP30E	250	1734-ADN	532
1492-PDG32PC	849	150-F43NBD	362	1606-XLP50B	250	1734-AENT	532
1492-PDG3C	849	150-F480NBD	362	1606-XLP50E	250	1734-AENTR	532
1492-PDG4	850	150-F5NBD	362	1606-XLP72E	250	1734-ARM	535
1492-PDG4C	850	150-F60NBD	362	1606-XLP90B	250	1734-CTM	535
1492-PFB4	850	150-F625NBA	363	1606-XLPRED	251	1734-EP24DC	535
1492-PFB4120	850	150-F780NBA	363	1606-XLS120E	251	1734-EXT1	535
1492-PFB424	850	150-F85NBD	362	1606-XLS240-UPS	252	1734-FPD	535
1492-PFB4250	850	150-F970NBA	363	1606-XLS240E	251	1734-IA4	533
1492-PFB448	850	150-S108NBD	364	1606-XLS480E	251	1734-IB4	532
1492-PG10	851	150-S135NBD	364	1606-XLS480E-3	251	1734-IB8	532
1492-PG10T	851	150-S201NBD	364	1606-XLS80E	251	1734-IB8S	535
1492-PG16	851	150-S251NBD	364	1606-XLS960E-3	251	1734-IE2C	534
1492-PG16T	851	150-S317NBD	364	1606-XLS960EE	251	1734-IE2V	534
1492-PG2	847	150-S361NBD	364	1606-XLSDNET4	251	1734-IE4C	534
1492-PG2Q	847	150-S480NBD	364	1606-XLSDNET8	251	1734-IE4S	535
1492-PG2T	847	150-TC1	363	1606-XLSRED	251	1734-IE8C	534
1492-PG3	848	150-TC2	363	1718-A10	541	1734-IK	535
1492-PG31P	848	150-TC3	363	1718-A20	541	1734-IR2	534
1492-PG3Q	848	15090001	236	1718-AENTR	540	1734-IR2E	534
1492-PG3T	848	15093012	224	1718-ARM	542	1734-IT2I	534
1492-PG4	850	15093025	224	1718-CBL3	542	1734-IV8	532
1492-PG4Q	850	15093063	224	1718-CF4H	541	1734-OA4	533
1492-PG4T	850	15093080	224	1718-E4UBDE-1	542	1734-OB2EP	533
1492-PG6	851	15093160	224	1718-E4UBDE-100	542	1734-OB4	533
1492-PG6T	851	15094012	224	1718-E4UBDE-20	542	1734-OB4E	533
1492-PKD3	848	15094025	224	1718-E4UBDE-40	542	1734-OB8	533
1492-PKD3-B	848	15094063	224	1718-E4UBJM-100	542	1734-OB8E	533
1492-PKD3Q	848	15094080	224	1718-E4UBJM-2	542	1734-OB8S	535
1492-PKD3Q-B	848	15094160	224	1718-E4UBJM-20	542	1734-OE2C	534
1492-PKD3T	848	15290080	236	1718-E4UBJM-40	542	1734-OE2V	534
1492-PKD3T-B	848	15390012	236	1718-IBN8	541	1734-OE4C	534
1492-PKD4	850	15593012	235	1718-IBN8B	541	1734-OW2	533
1492-PKD4-B	850	15593025	235	1718-IF4HB	541	1734-OW4	533
1492-PQ3	849	15593040	235	1718-IJ	541	1734-PDN	532
1492-PRIBHS	857	15593063	235	1718-IR4B	541	1734-RTB	535
1492-PRIBLAB	857	15593080	235	1718-IT4B	541	1734-RTBS	535
1492-PRIBTB	857	15593120	235	1718-OB2	541	1734-SSI	535
1492-PRINTCMP	857	15593160	235	1718-OB2L	541	1734-TB	535
1492-PROLLLAB	857	15593200	235	1718-PSDC	541	1734-TB3	535
1492-PROLLTB	857	15594012	235	1719-A22	542	1734-TB3S	535
1492-PS2-3	853	15594025	235	1719-A24	542	1734-TBS	535
1492-PS2-4	853	15594040	235	1719-A8	542	1734-TOP	535
1492-PSG2-4	853	15594063	235	1719-AENTR	542	1734-TOP3	535
1492-PT3	849	15594080	235	1719-ARM	544	1734-TOPS	535
1492-PT3-B	849	15594120	235	1719-CBL	544	1734-VHSC24	535
		15594160	235	1719-CF4H	543	1734-VTM	535

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
1		1756-OX8I	515	1769-L30ER-NSE	500	1784-SD2	518
1756-A10	512	1756-PA50	512	1769-L30ERM	500	1794-ACN15	529
1756-A13	512	1756-PA72	512	1769-L30ERMS	500	1794-ACNR15	529
1756-A17	512	1756-PA75	512	1769-L33ER	500	1794-ADN	529
1756-A4	512	1756-PA75R	512	1769-L33ERM	500	1794-AENT	529
1756-A7	512	1756-PAR2	512	1769-L33ERMS	500	1794-AENTR	529
1756-CMS1B1	518	1756-PB50	512	1769-L36ERM	500	1794-APBDPV1	529
1756-CMS1C1	518	1756-PB72	512	1769-L36ERMS	500	1794-CE1	530
1756-CN2	514	1756-PB75	512	1769-OA16	502	1794-CE3	530
1756-CN2R	514	1756-PB75R	512	1769-OB16	502	1794-IA16	527
1756-CPR2	518	1756-PBR2	512	1769-OB16P	502	1794-IA8	527
1756-DNB	514	1756-PC75	512	1769-OB32	502	1794-IA8I	527
1756-EN2F	514	1756-PH75	512	1769-OB32T	502	1794-IB10XOB6	527
1756-EN2T	514	1756-PSCA2	512	1769-OB8	502	1794-IB16	526
1756-EN2TP	514	1756-RM2	518	1769-OF2	503	1794-IB16XOB16P	527
1756-EN2TR	514	1756-RMC1	518	1769-OF4	503	1794-IB32	526
1756-EN3TR	514	1756-TBCH	518	1769-OF4CI	503	1794-IB8	526
1756-EN4TR	514	1756-TBE	518	1769-OF4VI	503	1794-IC16	526
1756-ESMCAP	518	1756-TBNH	518	1769-OF8C	503	1794-ID2	530
1756-ESMNSE	518	1756-TBS6H	518	1769-OF8V	503	1794-IE12	528
1756-HSC	518	1756-TBSH	518	1769-OW16	502	1794-IE4XOE2	528
1756-IA16	515	1761-CBL-AP00	497	1769-OW8	502	1794-IE8	528
1756-IA16I	515	1761-CBL-AS03	497	1769-OW8I	502	1794-IE8H	528
1756-IA32	515	1761-CBL-HM02	497	1769-PA2	500	1794-IE8XOE4	528
1756-IB16	515	1761-CBL-PM02	497	1769-PA4	500	1794-IF2XOF2I	528
1756-IB16D	515	1762-IF2OF2	496	1769-PB2	500	1794-IF4I	528
1756-IB16I	515	1762-IF4	496	1769-PB4	500	1794-IF8IH	528
1756-IB16IF	515	1762-IQ16	495	1769-SDN	500	1794-IG16	526
1756-IB16S	517	1762-IQ32T	495	1769-SM2	500	1794-IJ2	530
1756-IB32	515	1762-IQ8	495	1783-BMS06SA	559	1794-IM16	527
1756-IC16	515	1762-IQ8OW6	496	1783-BMS06SL	559	1794-IP4	530
1756-IF16	516	1762-IR4	497	1783-BMS06TA	559	1794-IR8	529
1756-IF16H	516	1762-IT4	497	1783-BMS06TL	559	1794-IRT8	529
1756-IF16IH	516	1762-OB16	496	1783-BMS10CA	559	1794-IT8	529
1756-IF4FXOF2F	516	1762-OB32T	496	1783-BMS10CGA	559	1794-IV16	526
1756-IF8	516	1762-OB8	496	1783-BMS10CGL	559	1794-IV32	526
1756-IF8H	516	1762-OF4	496	1783-BMS10CGN	559	1794-OA16	527
1756-IF8I	516	1762-OW16	496	1783-BMS10CGP	559	1794-OA8I	527
1756-IM16I	515	1762-OW8	496	1783-BMS10CL	559	1794-OB16	527
1756-IN16	515	1762-OX6I	496	1783-BMS20CA	559	1794-OB16P	527
1756-IRT8I	517	1762SC-IF4OF4	498	1783-BMS20CGL	559	1794-OB32P	527
1756-IV32	515	1762SC-IF8U	498	1783-BMS20CGN	559	1794-OB8	527
1756-JMPR	518	1762SC-OF8	498	1783-BMS20CGP	559	1794-OB8EP	527
1756-L71	514	1766-L32AWA	495	1783-BMS20CL	559	1794-OE12	528
1756-L71S	514	1766-L32BWA	495	1783-BMS452SGA	559	1794-OE4	528
1756-L72	514	1766-L32BWAA	495	1783-ETAP	561	1794-OF4I	528
1756-L72S	514	1766-L32BXB	495	1783-ETAP1F	561	1794-OF8IH	528
1756-L73	514	1766-L32BXBA	495	1783-ETAP2F	561	1794-OW8	527
1756-L74	514	1766-MM1	495	1783-HMS16T4CGN	559	1794-PS13	529
1756-L75	514	1769-AENTR	500	1783-HMS16TG4CGN	559	1794-PS3	529
1756-L7SP	514	1769-ARM	503	1783-HMS8T4CGN	559	1794-TB2	530
1756-L81E	513	1769-ASCI	503	1783-HMS8TG4CGN	559	1794-TB3	530
1756-L81E-NSE	513	1769-BA	501	1783-IMS28GNAC	560	1794-TB32	530
1756-L81ES	513	1769-CRL1	501	1783-IMS28GNDC	560	1794-TB32S	530
1756-L82E	513	1769-CRL3	501	1783-IMS28GRAC	560	1794-TB3G	530
1756-L82E-NSE	513	1769-CRR1	501	1783-IMS28GRDC	560	1794-TB3GS	530
1756-L82ES	513	1769-CRR3	501	1783-IMS28NAC	560	1794-TB3K	530
1756-L83E	513	1769-ECL	501	1783-IMS28NDC	560	1794-TB3S	530
1756-L83E-NSE	513	1769-ECR	501	1783-IMS28RAC	560	1794-TBN	530
1756-L83ES	513	1769-HSC	503	1783-IMS28RDC	560	1794-TBNF	530
1756-L84E	513	1769-IA16	501	1783-IMXAC	560	1794-VHSC	530
1756-L84E-NSE	513	1769-IF16C	502	1783-IMXDC	560	193-1EEAB	329
1756-L84ES	513	1769-IF4	502	1783-LMS5	558	193-1EEBB	329
1756-L85E	513	1769-IF4FXOF2F	503	1783-LMS8	558	193-1EECB	329
1756-L85E-NSE	513	1769-IF4I	502	1783-NATR	561	193-1EEDB	329
1756-L8SP	513	1769-IF4XOF2	503	1783-SAD2T2SBK9	561	193-1EEEB	329
1756-N2	518	1769-IF8	502	1783-SAD2T2SPK9	561	193-1EEED	329
1756-OA16	515	1769-IM12	501	1783-SAD4T0SBK9	561	193-1EEFD	329
1756-OA16I	515	1769-IQ16	501	1783-SAD4T0SPK9	561	193-1EEGE	329
1756-OB16D	515	1769-IQ16F	501	1783-SFP100FX	560	193-1EFAB	330
1756-OB16E	515	1769-IQ32	501	1783-SFP100LX	560	193-1EFBB	330
1756-OB16I	515	1769-IQ32T	501	1783-SFP1GEXE	560	193-1EFCB	330
1756-OB16IEF	515	1769-IQ6XOW4	502	1783-SFP1GLX	560	193-1EFDB	330
1756-OB32	515	1769-IR6	503	1783-SFP1GSX	560	193-1EFEB	330
1756-OB8	515	1769-IT6	503	1783-SFP1GZX	560	193-1EFED	330
1756-OBV8S	517	1769-L16ER-BB1B	499	1783-US16T	557	193-1EFFD	330
1756-OF4	516	1769-L18ER-BB1B	499	1783-US4T1F	557	193-1EFGE	330
1756-OF8	516	1769-L18ERM-BB1B	499	1783-US4T1H	557	193-1EGJ	330
1756-OF8H	516	1769-L19ER-BB1B	499	1783-US5T	557	193-1EMRA	330
1756-OF8I	516	1769-L24ER-QB1B	499	1783-US6T2F	557	193-1EMRD	330
1756-OF8IH	516	1769-L24ER-QBFC1B	499	1783-US7T1F	557	193-1EMRZ	330
1756-OW16I	515	1769-L27ERM-QBFC1B	499	1783-US8T	557	193-1EPB	330
		1769-L30ER	500	1784-SD1	518		

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
1		1X40	742	2080-LC50-48QWB	490	2097-R7	630
193-1EPE	330	1X40NP	742	2080-LC70-24QBB	490	20A-DG01	379
193-1ERR	330	1X40NPAK	738	2080-LC70-24QWB	490	20A-ENC-1	380
193-ECM-DNT	333	1X4SSS	743	2080-LCD	488	20AC011A0AYNANCO	379
193-ECM-ETR	333	2		2080-MEMBAK-RTC	491	20AC015A0AYNANCO	379
193-ECM-PCM	333	20-750-20COMM	387	2080-MOT-HSC	491	20AC022A0AYNANCO	379
193-EIO-22-120	334	20-750-2262C-2R	387	2080-OB4	490	20AC030A0AYNANCO	379
193-EIO-22-24D	334	20-750-2263C-1R2T	387	2080-OF2	491	20AC037A0AYNANCO	379
193-EIO-43-120	334	20-750-ACTE1-F6	388	2080-OW4I	491	20AC043A0AYNANCO	379
193-EIO-63-24D	334	20-750-APS	388	2080-PS120-240VAC	493	20AC060A0AYNANCO	379
193-EIOGP-22-120	334	20-750-ATEX	387	2080-REMLCD	493	20AC072A0AYNANCO	379
193-EIOGP-22-240	334	20-750-BUS2-F8	388	2080-RTD2	491	20AC1P3A0AYNANCO	379
193-EIOGP-42-24D	334	20-750-CART1-F8	388	2080-SDMEMRTC-SC	494	20AC2P1A0AYNANCO	379
193-EOS-SDS	335	20-750-CNETC	387	2080-SERIALISOL	492	20AC3P5A0AYNANCO	379
193-ESM-IG-100A-C97	334	20-750-DENC-1	387	2080-TC2	491	20AC5P0A0AYNANCO	379
193-ESM-IG-100A-P	334	20-750-DNET	387	2080-USBADAPTER	488	20F11GC011JA0NNNNNN	382
193-ESM-IG-200A-E146	334	20-750-EMC1-F1	388	2080-USBPGRGAB	493	20F11GC015JA0NNNNNN	382
193-ESM-IG-200A-E205	334	20-750-EMC1-F2	388	2080SC-BAC	494	20F11GC022JA0NNNNNN	382
193-ESM-IG-200A-P	334	20-750-EMC1-F3	388	2080SC-IF4U	494	20F11GC030JA0NNNNNN	382
193-ESM-IG-200A-T	334	20-750-EMC1-F4	388	2080SC-NTC	494	20F11GC037JA0NNNNNN	382
193-ESM-IG-30A-C23	334	20-750-EMC1-F5	388	2080SC-OW2IHC	494	20F11GC043JA0NNNNNN	382
193-ESM-IG-30A-C55	334	20-750-ENC-1	387	2085-ECR	493	20F11GC060JA0NNNNNN	382
193-ESM-IG-30A-P	334	20-750-ENETR	387	2085-IF4	493	20F11GC072JA0NNNNNN	382
193-ESM-IG-30A-T	334	20-750-FLNG1-F3	388	2085-IF4XOF4-SC	494	20F11GC085JA0NNNNNN	382
193-ESM-IG-60A-C55	334	20-750-FLNG1-F4	388	2085-IF8	493	20F11GC2P1JA0NNNNNN	382
193-ESM-IG-60A-T	334	20-750-FLNG1-F5	388	2085-IM8	492	20F11GC3P5JA0NNNNNN	382
193-ESM-IG-100A-C97	334	20-750-FLNG4-F6	388	2085-IQ16	492	20F11GC5P0JA0NNNNNN	382
193-ESM-VIG-100A-T	335	20-750-FLNG4-F7	388	2085-IQ32T	492	20F11GC8P7JA0NNNNNN	382
193-ESM-VIG-200A-E146	334	20-750-MCART1	388	2085-IR8-SC	494	20F11NC022JA0NNNNNN	381
193-ESM-VIG-200A-E205	334	20-750-NEMA1-F1	388	2085-IRT4	493	20F11NC030JA0NNNNNN	381
193-ESM-VIG-200A-T	335	20-750-NEMA1-F2	388	2085-IT16-SC	494	20F11NC037JA0NNNNNN	381
193-ESM-VIG-30A-C23	334	20-750-NEMA1-F3	388	2085-IT8-SC	494	20F11NC043JA0NNNNNN	381
193-ESM-VIG-30A-C55	334	20-750-NEMA1-F4	388	2085-OA8	492	20F11NC060JA0NNNNNN	381
193-ESM-VIG-30A-CT	335	20-750-NEMA1-F5	388	2085-OB16	492	20F11NC072JA0NNNNNN	381
193-ESM-VIG-30A-T	335	20-750-NEMA1-F6	388	2085-OB32-SC	494	20F11NC085JA0NNNNNN	381
193-ESM-VIG-60A-C55	334	20-750-NEMA1-F7	388	2085-OF4	493	20F11NC104JA0NNNNNN	381
193-ESM-VIG-60A-T	335	20-750-PBUS	387	2085-OV32-SC	494	20F11RC011JA0NNNNNN	381
193-EXP-AIO-31	335	20-750-PNET2P	387	2085-OW16	492	20F11RC015JA0NNNNNN	381
193-EXP-DIO-42-120	335	20-750-PTG1-F6	388	2085-OW8	492	20F11RC2P1JA0NNNNNN	381
193-EXP-DIO-42-240	335	20-750-PTG1-F7	388	2085SC-IF16C	494	20F11RC3P5JA0NNNNNN	381
193-EXP-DIO-42-24D	335	20-750-S	387	2085SC-IF16V	494	20F11RC5P0JA0NNNNNN	381
193-EXP-PS-AC	336	20-750-S1	387	2085SC-IF8U	494	20F11RC8P7JA0NNNNNN	381
193-EXP-PS-DC	336	20-750-S3	387	2085SC-OF8	494	20F1AGC104JA0NNNNNN	382
194E-A-P11	218	20-750-S4	387	2090-CFBM4E2-CATR	638	20F1AGC140JA0NNNNNN	382
194E-A100-1753	216	20-750-UFB-1	387	2090-CFBM6DF-CBAA05	638	20F1AGC170JA0NNNNNN	382
194E-A16-1753	216	20-COMM-C	365	2090-CFBM7DD-CEAA05	637	20F1AGC205JA0NNNNNN	382
194E-A25-1753	216	20-COMM-D	365	2090-CFBM7DF-CDAF05	637	20F1AGC260JA0NNNNNN	382
194E-A32-1753	216	20-COMM-E	365	2090-CFBM7DF-CDAF15	637	20F1AGC302JA0NNNNNN	382
194E-A40-1753	216	20-COMM-ER	365	2090-CFBM7DF-CEAA05	637	20F1AGC367JA0NNNNNN	382
194E-A63-1753	216	20-HIM-A6	387	2090-CFBM7DF-CEAA12	637	20F1AGC456JA0NNNNNN	382
194E-E-P11	218	20-HIM-C35	363	2090-CFBM7DF-CEAA15	637	20F1ANC140JA0NNNNNN	381
194E-E100-1753	216	20-HIM-C6S	387	2090-CFBM7DF-CEAF05	637	20F1ANC170JA0NNNNNN	381
194E-E16-1753	216	20.22 24 V AC	770	2090-CFBM7DF-CEAF15	637	20F1ANC205JA0NNNNNN	381
194E-E25-1753	216	20.22 240 V AC	770	2090-CFBM7DF-CEAF20	637	20F1ANC260JA0NNNNNN	381
194E-E32-1753	216	20.22 12 V DC	770	2090-CPBM4E2-10TR	638	20F1ANC302JA0NNNNNN	381
194E-E40-1753	216	20.22 24 V DC	770	2090-CPBM4E2-14TR	638	20F1ANC367JA0NNNNNN	381
194E-E63-1753	216	20.23 110 V AC	770	2090-CPBM7DF-14AF15	637	20F1ANC456JA0NNNNNN	381
194E-E80-1753	216	20.23 24 V AC	770	2090-CPBM7DF-16AA05	637	20F1ANC477JA0NNNNNN	381
194E-HE4N-175	218	20.23 240 V AC	770	2090-CPBM7DF-16AF05	637	20G11BC1K0JN0NNNNNN	384
194E-Y25M-1753-6N	199	20.23 12 V DC	770	2090-CPBM7DF-16AF15	637	20G11BC1K1JN0NNNNNN	384
194R-HM4E	217	20.23 24 V DC	770	2090-CPWM4E2-14TR	638	20G11BC1K2JN0NNNNNN	384
194R-PB	216	2080-IF2	491	2090-CPWM6DF-16AA05	638	20G11BC1K4JN0NNNNNN	384
194R-PY	216	2080-IF4	491	2090-CPWM7DF-14AA25	637	20G11BC1K5JN0NNNNNN	384
194R-S1	217	2080-IQ4	490	2090-CPWM7DF-16AA05	637	20G11BC1K6JN0NNNNNN	384
1H4864BAA	112	2080-IQ4OB4	491	2090-CPWM7DF-16AF05	636	20G11BC2K1JN0NNNNNN	384
1H4864BBA	112	2080-LC10-12AWA	488	2090-CPWM7DF-16AF15	636	20G11BC910JN0NNNNNN	384
1PC	743	2080-LC10-12DWD	488	2090-CPWM7DF-16AF20	636	20G11JC1K0JN0NNNNNN	384
1PG	743	2080-LC10-12QBB	488	2090-CPWM7DF-16AF15	636	20G11JC1K1JN0NNNNNN	384
1PR	743	2080-LC10-12QWB	488	2090-CPWM7DF-16AF20	636	20G11JC1K2JN0NNNNNN	384
1PT	743	2080-LC20-20QBB	489	2090-CSBM1DF-14AA05	636	20G11JC1K4JN0NNNNNN	384
1PW	743	2080-LC20-20QBBR	489	2090-CSBM1DF-14AA09	636	20G11JC1K5JN0NNNNNN	384
1X14EPDM	743	2080-LC20-20QWB	489	2090-CSBM1DF-14AA15	636	20G11JC1K6JN0NNNNNN	384
1X15EPDM	743	2080-LC20-20QWBR	489	2090-CSBM1DF-14AA25	636	20G11JC2K1JN0NNNNNN	384
1X16EPDM	743	2080-LC30-16QVB	489	2090-CSBM1DF-14AF15	636	20G11JC910JN0NNNNNN	384
1X17EPDM	743	2080-LC30-16QWB	489	2090-CSBM1DF-18AA09	636	20G11NC022JA0NNNNNN	383
1X20N	742	2080-LC30-24QBB	489	2090-CSBM1DF-18AA15	636	20G11NC030JA0NNNNNN	383
1X20NNTOCO	741	2080-LC30-24QWB	489	2090-CSBM1DF-18AF15	636	20G11NC037JA0NNNNNN	383
1X21N	742	2080-LC30-48QBB	489	2090-CSWM1DF-14AA05	636	20G11NC043JA0NNNNNN	383
1X21NNTOCO	741	2080-LC30-48QWB	489	2090-CSWM1DF-14AA12	636	20G11NC060JA0NNNNNN	383
1X30	742	2080-LC50-24QBB	490	2090-CSWM1DF-14AA15	636	20G11NC072JA0NNNNNN	383
1X30NPAK	738	2080-LC50-24QWB	490	2090-CSWM1DF-14AA25	636	20G11NC085JA0NNNNNN	383
1X4	743	2080-LC50-48QBB	490	2090-CSWM1DF-18AA05	636	20G11NC104JA0NNNNNN	383
				2097-R6	630	20G11RC011JA0NNNNNN	383

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
2							
20G11RC015JA0NNNNN	383	2198-H040-ADP-T	630	2402463	253	26.01 240 V AC	770
20G11RC2P1JA0NNNNN	383	2198-H040-AP-T	630	24024630	253	26.02 240 V AC	770
20G11RC3P5JA0NNNNN	383	2198-H040-D-T	630	24024800	253	26.03 24 V AC	770
20G11RC5P0JA0NNNNN	383	2198-H040-DP-T	630	25-COMM-D	374	26.03 240 V AC	770
20G11RC8P7JA0NNNNN	383	2198-H040-ERS	629	25-COMM-E2P	374	26191200	215
20G1ABC460JN0NNNNN	384	2198-H040-ERS2	629	25-COMM-P	374	26291200	215
20G1ABC540JN0NNNNN	384	2198-H040-P-T	630	25-EMC1-FA	374	26391200	215
20G1ABC567JN0NNNNN	384	2198-H070-A-T	630	25-EMC1-FB	374	264-057	904
20G1ABC650JN0NNNNN	384	2198-H070-AD-T	630	25-EMC1-FC	374	264-059	904
20G1ABC750JN0NNNNN	384	2198-H070-ADP-IN	630	25-EMC1-FD	374	26943014	214
20G1ABC770JN0NNNNN	384	2198-H070-ADP-T	630	25-EMC1-FE	374	26943021	214
20G1AJC460JN0NNNNN	384	2198-H070-AP-T	630	25-ENC-1	374	26943051	214
20G1AJC540JN0NNNNN	384	2198-H070-D-T	630	25-ENC-2	374	26944014	214
20G1AJC567JN0NNNNN	384	2198-H070-DP-T	630	25-FAN1-70C	375	26944021	214
20G1AJC650JN0NNNNN	384	2198-H070-ERS	629	25-FAN1-FA	375	26944051	214
20G1AJC750JN0NNNNN	384	2198-H070-ERS2	629	25-FAN1-FB	375	26983080	214
20G1AJC770JN0NNNNN	384	2198-H2DCK	630	25-FAN1-FC	375	26983120	214
20G1AJC770JN0NNNNN	384	2198-K51CK-D15M	627	25-FAN1-FD	375	26983200	214
20G1ANC140JA0NNNNN	383	2198-K53CK-D15M	628	25-FAN1-FE	375	26995052	209
20G1ANC170JA0NNNNN	383	2198-KITCON-IOSP	630	25-FAN2-70C	375	26999031	213
20G1ANC205JA0NNNNN	383	21NH0301	203	25-JBAA	374	26999032	213
20G1ANC260JA0NNNNN	383	21NH0302	203	25-JBAB	374	269990141	213
20G1ANC302JA0NNNNN	383	21NH0303	203	25-JBAC	374	269990142	213
20G1ANC456JA0NNNNN	383	22-HIM-A3	374	25-JBAD	374	269990241	213
20G1ANC477JA0NNNNN	383	22-HIM-C2S	374	25-JBAE	374	269990242	213
21134001	203	22-HIM-H30	374	25-RF014-BL	375	269991200	215
21134002	203	22.22.24 V DC	769	25-RF018-CL	375	269995042	209
21155005	203	22.23.24 V DC	769	25-RF033-DL	375	2706-NC13SC	572
21155007	203	22.32.4.340 12 V AC/DC	769	25-RF039-EL	375	2706-P22RSC	572
21155009	203	22.32.4.340 230 V AC/DC	769	25-RF7P5-AL	375	2706-P42CSC	572
21155011	203	22.32.4.340 24 V AC/DC	769	2534	892	2706-P42RSC	572
2198-C1004-ERS	628	22.34.4.340 12 V AC/DC	769	2536	892	2706-P44CSC	572
2198-C1007-ERS	628	22.34.4.340 230 V AC/DC	769	25944020	214	2706-P44RSC	572
2198-C1015-ERS	628	22.34.4.340 24 V AC/DC	769	25990001	213	2706-P72CN1SC	572
2198-C1020-ERS	628	22001000	205	25995012	209	2706-P72CN2SC	572
2198-C2030-ERS	628	22001001	205	25995022	209	2706-P74CN1SC	572
2198-C2055-ERS	628	22001002	205	25A-A011N114	371	2706-PCABLE1SC	572
2198-C2075-ERS	628	22001003	205	25A-A1P6N114	371	2706-PENETP2-SC	572
2198-C4007-ERS	628	22001004	205	25A-A2P5N114	371	2711P-B7C22D9P	569
2198-C4015-ERS	628	22001006	205	25A-A4P8N114	371	2711P-RGT10SP	570
2198-C4020-ERS	628	22001008	205	25A-A8P0N114	371	2711P-RGT7SP	570
2198-C4030-ERS	628	22001010	205	25A-D010N114	371	2711P-RGT9SP	570
2198-C4055-ERS	628	22001011	205	25A-D013N114	371	2711P-RMCP	570
2198-C4075-ERS	628	22005005	215	25A-D017N114	371	2711P-RTBDSP	569
2198-CAPMOD-1300	630	22005009	215	25A-D024N114	371	2711P-T10C21D8S	569
2198-DB08-F	629	22005011	215	25A-D030N114	371	2711P-T10C22D8S	569
2198-DB111-F	627	22096009	212	25A-D037N114	371	2711P-T10C22D9P	569
2198-DB127-F	627	22096011	212	25A-D043N114	371	2711P-T12W21D8S	569
2198-DB310-F	627	22696009	212	25A-D1P4N114	371	2711P-T12W22D8S	569
2198-DB324-F	627	22941005	213	25A-D2P3N114	371	2711P-T12W22D9P	569
2198-DB335-F	627	22941009	213	25A-D4P0N114	371	2711P-T15C21D8S	569
2198-DB356-F	627	22941011	213	25A-D6P0N114	371	2711P-T15C22D8S	569
2198-DB418-F	627	22943005	213	25B-A011N114	372	2711P-T15C22D9P	569
2198-DB42-F	629	22943009	213	25B-A2P5N114	372	2711P-T19C22D9P	569
2198-DB433-F	627	22943016	213	25B-A4P8N114	372	2711P-T4W22D8S	569
2198-E1004-ERS	627	22944016	235	25B-A8P0N114	372	2711P-T6C21D8S	569
2198-E1007-ERS	627	22990001	213	25B-D010N114	372	2711P-T6C22D8S	569
2198-E1015-ERS	627	22990011	213	25B-D013N114	372	2711P-T7C21D8S	569
2198-E1020-ERS	627	22993309	212	25B-D017N114	372	2711P-T7C22D8S	569
2198-E2030-ERS	627	22995012	208	25B-D024N114	372	2711P-T7C22D9P	569
2198-E2055-ERS	627	22995022	209	25B-D030N114	372	2711P-T9W21D8S	569
2198-E2075-ERS	627	22995032	208	25B-D037N114	372	2711P-T9W22D8S	569
2198-E2150-ERS	627	22996009	212	25B-D043N114	372	2711P-T9W22D9P	569
2198-E4004-ERS	627	22F-A011N113	370	25B-D1P4N114	372	2711R-APK10	567
2198-E4007-ERS	627	22F-A1P6N113	370	25B-D2P3N114	372	2711R-APK7	567
2198-E4015-ERS	627	22F-A2P5N113	370	25B-D4P0N114	372	2711R-T10T	567
2198-E4020-ERS	627	22F-A4P2N113	370	25B-D6P0N114	372	2711R-T4T	567
2198-E4030-ERS	627	22F-A8P0N113	370	25C-A011N114	373	2711R-T7T	567
2198-E4055-ERS	627	22F-D013N114	370	25C-A2P5N114	373	2713P-T10CD1	568
2198-E4075-ERS	627	22F-D018N114	370	25C-A4P8N114	373	2713P-T12WD1	568
2198-E4150-ERS	627	22F-D024N114	370	25C-A8P0N114	373	2713P-T6CD1	568
2198-H003-ERS	629	22F-D1P5N113	370	25C-D010N114	373	2713P-T7WD1	568
2198-H003-ERS2	629	22F-D2P5N113	370	25C-D013N114	373	2713P-T9WD1	568
2198-H008-ERS	629	22F-D4P2N113	370	25C-D017N114	373	2715P-B10CD	568
2198-H008-ERS2	629	22F-D6P0N113	370	25C-D024N114	373	2715P-B15CD	568
2198-H015-ERS	629	22F-D8P7N113	370	25C-D030N114	373	2715P-B7CD	568
2198-H015-ERS2	629	240110100	253	25C-D037N114	373	2715P-T10CD	568
2198-H025-ERS	629	2401101000	253	25C-D043N114	373	2715P-T12WD	568
2198-H025-ERS2	629	24024100	253	25C-D1P4N114	373	2715P-T15CD	568
2198-H040-A-T	630	24024160	253	25C-D2P3N114	373	2715P-T19CD	568
2198-H040-AD-T	630	24024250	253	25C-D4P0N114	373	2715P-T7CD	568
2198-H040-ADP-IN	630	2402440	253	25C-D6P0N114	373	2715P-T7WD	568
		24024400	253	26.01 24 V AC	770	2715P-T9WD	568

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
2		39.30.8240 24V DC	777	3PS9D30E01	1004	42GRL-9000-QD	403
27990001	213	39.30.9024 24V AC/DC	777	3PS9D30E01P	1004	42GRL-9002-QD	403
27990002	213	39.31.12 V AC/DC	761	3PS9D3NE01	1004	42GRL-9040	403
27990005	213	39.31.125 V AC LCS	761	3PS9D3NE01P	1004	42GRL-9040-QD	403
27990011	213	39.31.230 V AC LCS	761	3PS9G	1004	42GRL-9042-QD	403
27993018	211	39.31.24 V AC/DC	761	3PS9LB	1004	42GRP-9000-QD	405
27993022	212	39.41 12 V AC/DC	760	3PS9PC	1004	42GRP-9001	405
27997062	209	39.41 24 V AC/DC	760	3PS9WAS	1004	42GRP-9002	405
28402.0-01	917	39.41 6 V AC/DC	760	3PSS12AR12A	1005	42GRP-9002-QD	405
29943013	214	39983016	214	3PSS12DE12A	1005	42GRP-9040-QD	405
29943020	214	39983025	214	3PSSGA	1005	42GRR-9000	403
29943050	214	39983040	214	3PSSGS	1005	42GRR-9000-QD	403
29944008	214	39984016	214	3PSSW	1005	42GRR-9003-QD	403
29948013	214	39984025	214	3PV4PC	994	42GRU-9000-QD	401
29948020	214	39990002	213	3PV5PC	996	42GRU-9001-QD	401
29948050	214	39990041	190	3PV6PC	997	42GRU-9002	401
29980013	215	39990042	190	4		42GRU-9002-QD	401
29980014	215	39990043	213	40.31 240 V AC	761	42GRU-9200	402
29980023	215	39990044	213	40.31.0001 24 V DC	761	42GRU-9200-QD	402
29980024	215	39990701	190	40.51 12 V DC	762	42GRU-92L0	406
29980033	215	39990702	213	40.51 24 V AC	762	42GRU-92L0-QD	406
29980034	215	3PS16A1NE01P	1003	40.51 24 V DC	762	42GTP-9001-QD	405
29983080	214	3PS16A30E01P	1003	40.51 24 V AC	762	42JS-D2MPA1-F4	404
29990012	213	3PS16A3NE01P	1003	40.51 240 V AC	762	42JS-P2MPA2-F4	401
2G1335CAB	95	3PS16D1NE01P	1003	40.51 6 V DC	762	42JT-B2LAT2-P4	405
2G1335CBB	95	3PS16D30E01P	1003	40.51.5000 12 V DC	762	42JT-D2LAT1-P4	404
2H1299CAC	105	3PS16D3NE01P	1003	40.51.5000 24 V DC	762	42JT-E2EZB1-P4	403
2H1301CAC	105	3PS1A1NE01	1003	40.52 110 V AC	762	42JT-P2LAT1-P4	402
2H1302CAC	105	3PS1A30E01	1003	40.52 110 V DC	762	42JT-R9LAT1-P4	403
2H6959CAA1	100	3PS1A3NE01	1003	40.52 12 V AC	762	42SRP-6002-QD	404
2H6959CBA1	100	3PS1D1NE01	1003	40.52 12 V DC	762	42SRR-6002-QD	402
2M0405CAAK	95	3PS1D30E01	1003	40.52 24 V AC	762	44090001	223
2M0406CAAK	95	3PS1D3NE01	1003	40.52 24 V DC	762	44090002	223
2M2867CBD	95	3PS1G	1003	40.52 240 V AC	762	44090003	223
2M2868CBD	95	3PS1GFP	1003	40.52 48 V AC	762	44090021	223
2M6380CAA	95	3PS1LB	1003	40.52 48 V DC	762	44090022	223
2M6380CBA	95	3PS1PC	1003	40.52 6 V DC	762	440A-A17101	481
2M6381CAA	95	3PS1WAS	1003	40.61 12 V DC	762	440A-A17102	481
2M6381CBA	95	3PS2A30E01	1005	40.61 24 V DC	762	440C-CR30-22BBB	454
2M6583CAA	95	3PS2A30E01P	1005	40.61 240 V AC	762	440C-ENET	454
2M6583CBA	95	3PS2A3NE01	1005	4062110VDC	762	440E-A13054	481
2M6584CAA	95	3PS2A3NE01P	1005	406248VDC	762	440E-A13078	481
2M6584CBA	95	3PS2D30E01	1005	4062912VDC	762	440E-A13079	481
3		3PS2D3NE01	1005	4062924VDC	762	440E-A13080	481
3170-MBS	531	3PS2D3NE01P	1005	41090019	223	440E-A13081	481
3170-PDP	531	3PS2G	1005	41090021	223	440E-A13082	481
32110500	210	3PS2LB	1005	41090025	223	440E-A13083	481
32BR3000	207	3PS2PC	1005	41090039	223	440E-A13084	481
32BR3008	207	3PS2WAS	1005	41090050	223	440E-A13085	481
32BR3012	207	3PS32A30E01P	1003	41090063	223	440E-A13088	481
32BR3020	207	3PS32A3NE01P	1003	41090080	223	440E-A13195	481
32BR3040	207	3PS32D30E01P	1003	41090120	223	440E-A13196	481
32BR3063	207	3PS32D3NE01P	1003	41090160	223	440E-A13197	481
32BR3108	207	3PS3A1NE01	1003	415240100	253	440E-A13198	481
32BR3120	207	3PS3A30E01	1003	415240200	253	440E-A13199	481
32BR3140	207	3PS3A3NE01	1003	41995012	224	440E-A13200	481
32BR3163	207	3PS3D1NE01	1003	42CA-D1MPAE-D4	404	440E-A13201	481
32BR3205	207	3PS3D30E01	1003	42CA-D1MPAL-D4	404	440E-A13202	481
32BR3208	207	3PS3D3NE01	1003	42CA-P2MPB-D4	401	440E-A17027	481
32BR3212	207	3PS3G	1003	42CA-R1MPA1-D4	402	440E-A17028	481
32BR3220	207	3PS3GFP	1003	42CA-U2MPB-D4	400	440E-A17105	481
32BR3240	207	3PS3LB	1003	42CF-D1LPA2-D4	403	440E-A17107	481
32BR3263	207	3PS3PC	1003	42CF-E1 EZB-D4	402	440E-ASPRING	481
32BR3280	207	3PS3WAS	1003	42CM-D1MPAL-D4	404	440E-ASPRING-SS	481
34.51 12 V DC	761	3PS63A30E01P	1004	42CM-P2MPB-D4	401	440E-D13112	480
34.51 24 V DC	761	3PS63A3NE01P	1004	42CM-P8MPB-D4	405	440E-D13118	480
34.51 60 V DC	761	3PS63D1NE01P	1004	42CM-R1MPB-D4	402	440E-L13042	480
3481902424VDC	777	3PS63D30E01P	1004	42CM-R8MPB-D4	405	440E-L13137	480
36294012	189	3PS63D3NE01P	1004	42EF-B1JBBE-F4	405	440E-L22BNSM	480
36297901	209	3PS6A1NE01	1004	42EF-B1MPBC-F4	405	440E-LL5SE5	480
36297910	189	3PS6A30E01	1004	42EF-B1MPBE-F4	405	440E-LL5SE8	480
36299003	190	3PS6A3NE01	1004	42EF-C2KBA-F4	406	440E-LL5SN5	480
36299010	190	3PS6D1NE01	1004	42EF-D1JBCK-F4	404	440E-LL5SN8	480
36299016	190	3PS6D30E01	1004	42EF-D1RCAK-G4	404	440E-LL5SS5	481
36299232	190	3PS6D3NE01	1004	42EF-D2JBAK-F4	404	440E-LL5SS8	481
36299236	190	3PS6G	1004	42EF-D2MPAK-A2	404	440F-M1010BYNN	479
36299250	190	3PS6GFP	1004	42EF-D2MPAK-F4	404	440F-M1015BYNN	479
39.11 12 V AC/DC	760	3PS6LB	1004	42EF-P2JBB-F4	401	440F-M1020BYNN	479
39.11 230 V AC	760	3PS6PC	1004	42EF-P2KBB-F4	401	440F-M1030BYNN	479
39.11 24 V AC/DC	760	3PS6WAS	1004	42EF-R2MPB-F4	401	440F-M1515BYNN	479
39.11.6 V AC/DC	760	3PS9A30E01	1004	42EF-R2MPB-F4	403	440F-M1520BYNN	479
39.21 24 V AC/DC	760	3PS9A3NE01	1004	42EF-U2KBB-F4	400	440F-M1530BYNN	479
		3PS9A3NE01P	1004	42GRL-9000	403	440F-M2020BYNN	479

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
4		440N-Z21SS2AN9	465	440T-MSCLE100A	469	450L-B4FN1050YD	473
440F-M2030BYNN	479	440N-Z21SS2HN	465	440T-MSRUE11AA	471	450L-B4FN1200YD	473
440F-M2036BYNN	479	440N-Z21SS2HN9	465	440T-MSRUE33AA	471	450L-B4FN1350YD	473
440F-T1010	479	440N-Z21SS3PA	465	440T-MSSLE10AA	471	450L-B4FN1500YD	473
440F-T1015	479	440N-Z21SS3PB	465	440T-MSSSE10AA	470	450L-B4FN1650YD	473
440F-T1020	479	440N-Z21SS3PH	465	440T-MSTUE11AA	471	450L-B4FN1800YD	473
440F-T1030	479	440N-Z21U16A	466	440TMDBLE10AAAB	470	450L-B4FN1950YD	473
440F-T1515	479	440N-Z21U16H	466	440TMKEXE10?	469	450L-B4HN0150YD	473
440F-T1520	479	440N-Z21U17A	466	440TMKEXE12?	469	450L-B4HN0300YD	473
440F-T1530	479	440N-Z21U17H	466	440TMKEXE13?	469	450L-B4HN0450YD	473
440F-T2020	479	440N-Z21U26A	466	440TMKEXE14?	469	450L-B4HN0600YD	473
440F-T2030	479	440N-Z21U26H	466	440TMKEXE15?	469	450L-B4HN0750YD	473
440F-T2036	479	440N-Z21US2AN	465	440TMKEXE16?	469	450L-B4HN0900YD	473
440G-A27011	461	440N-Z21US2AN9	465	440TMKEXE17?	469	450L-B4HN1050YD	473
440G-A27143	461	440N-Z21US2HN	465	440TMKEXE18?	469	450L-B4HN1200YD	473
440G-A27163	461	440N-Z21US2HN9	465	440TMKEXE19?	469	450L-B4HN1350YD	473
440G-A27356	461	440N-Z21W1PA	467	440TMKEXE20?	469	450L-B4HN1500YD	473
440G-A27357	461	440N-Z21W1PB	467	440TMKEXE22?	469	450L-B4HN1650YD	473
440G-A27372	461	440N-Z21W1PH	467	4428 4050	224	450L-B4HN1800YD	473
440G-A27374	461	440N-Z2NRS1A	466	44283020	224	450L-B4HN1950YD	473
440G-EMAS	459	440N-Z2NRS1B	466	44283050	224	450L-E4FL0150YD	474
440G-EZS21STL05H	459	440N-Z2NRS1C	466	44284020	224	450L-E4FL0300YD	474
440G-EZS21STL05J	459	440N-ZPREC	467	442G-MABAMPE	457	450L-E4FL0450YD	474
440G-LZS21SPRH	459	440P-AALS11C	425	442G-MABAMPH	457	450L-E4FL0600YD	474
440G-LZS21STLH	459	440P-ADPS11C	425	442G-MABAMPL	457	450L-E4FL0750YD	474
440G-LZS21UPLH	459	440P-ARPS11C	425	442G-MABASHFT	457	450L-E4FL0900YD	474
440G-LZS21UPRH	459	440P-ASLS11C	425	442G-MABE1	457	450L-E4FL1050YD	474
440G-MT47007	459	440P-CALB12B	425	442G-MABH-L	457	450L-E4FL1200YD	474
440G-MT47010	459	440P-CALS11B	425	442G-MABH-R	457	450L-E4FL1350YD	474
440G-MZAL	460	440P-CDPS11B	425	442G-MABR-ULM-C03	456	450L-E4FL1500YD	474
440G-MZAM1	460	440P-CHLB12B	425	442G-MABR-URM-C03	456	450L-E4FL1650YD	474
440G-MZAM2	460	440P-CHLS11B	425	442G-MABRB-UL-E0JP4679	456	450L-E4FL1800YD	474
440G-MZAM3	460	440P-CRPB12B	425	442G-MABRB-UL-E0P49	456	450L-E4FL1950YD	474
440G-MZS20SNLJ	460	440P-CRPS11B	425	442G-MABRB-UR-E0JP4679	456	450L-E4HL0150YD	474
440G-MZS20SNRJ	460	440P-CSLB12B	425	442G-MABRB-UR-E0P49	456	450L-E4HL0300YD	474
440G-MZS20UNLJ	460	440P-CSLS11B	425	442L-ACABL10	476	450L-E4HL0450YD	474
440G-MZS20UNRJ	460	440P-M18001	425	442L-ACABL2	476	450L-E4HL0600YD	474
440G-T21BNPM-2B	460	440P-M18002	425	442L-ACRS232	476	450L-E4HL0750YD	474
440G-T27127	460	440P-MALB22B	426	442L-ACVR	478	450L-E4HL0900YD	474
440G-T27129	460	440P-MALS11B	426	442L-AMBSFZNMZ2	477	450L-E4HL1050YD	474
440G-T27134	460	440P-MARB22B	426	442L-AMBSFZNMZ3	477	450L-E4HL1200YD	474
440G-T27136	460	440P-MARS11B	426	442L-AMBSZCP1	478	450L-E4HL1350YD	474
440G-TZS21UPLH	461	440P-MDPB22B	426	442L-AMBSZCP2	478	450L-E4HL1500YD	474
440G-TZS21UPRH	461	440P-MDPS11B	426	442L-AMBSZCP3	478	450L-E4HL1650YD	474
440J-N21TNPM-NP	485	440P-MRPB22B	426	442L-AMBSZCP4	478	450L-E4HL1800YD	474
440K-A11095	461	440P-MRPS11B	426	442L-AMBSZMN1	476	450L-E4HL1950YD	474
440K-A11112	461	440P-MSLB22B	426	442L-AMBSZMN2	476	450L-ENETR	475
440K-A11144	461	440P-MSLS11B	426	442L-AMBSZMN3	476	45CLR-5JPC1-D8	406
440K-A11238	461	440P-MSRB22B	426	442L-AMBSZMN4	476	45LMS-D8LGC2-D4	406
440K-A17116	461	440P-MSRS11B	426	442L-ASZNCPW	478	45LMS-U8LGC3-D4	406
440K-A21014	461	440P-MTAB22B	426	442L-CSFZNMZ-10	477	46.52.0054 110 V AC	763
440K-A27010	461	440P-MTAS11B	426	442L-SFZNMN	476	46.52.0054 12 V AC	763
440K-AMDS	461	440R-D22R2	451	442L-SFZNMN3	476	46.52.0054 24 V AC	763
440K-AMDSMPB	461	440R-D22S2	451	442L-SFZNMZ	476	46.52.0054 240 V AC	763
440K-C21055	462	440R-DG2R2T	452	442L-SFZNSZ	476	46.52.0054 48 V AC	763
440K-C21070	462	440R-EM4R2	451	442L-SZNCPMOD	478	46.52.0074 110 V DC	763
440K-E33014	463	440R-EM4R2D	451	442L-SZNMZCP	478	46.52.0074 12 V DC	763
440K-E33047	463	440R-ENETR	452	44390001	223	46.52.0074 24 V DC	763
440K-MT55002	463	440R-GL2S2P	452	44395012	224	46.52.0074 48 V DC	763
440K-MT55039	463	440R-GL2S2T	452	445L-P4S2500YD	472	46.61.0054 110 V AC	763
440K-T11089	463	440R-S12R2	451	445L-P4S3400YD	472	46.61.0054 12 V AC	763
440K-T11147	463	440R-S13R2	451	445L-P4S4120YD	472	46.61.0054 24 V AC	763
440K-T11188	464	440R-S35011	453	44993006	223	46.61.0054 240 V AC	763
440K-T11269	464	440R-S35014	453	44994006	223	46.61.0074 110 V DC	763
440K-T11279	464	440S-GLTAPBRK1	455	450L-AD-OID	475	46.61.0074 12 V DC	763
440K-T11280	464	440S-GLTAPBRK5	455	450L-ALAT-C	475	46.61.0074 24 V DC	763
440K-T11449	464	440S-MF5D	455	450L-AM-SM	475	46.61.0074 48 V DC	763
440K-T11459	464	440S-MF8D	455	450L-AM-TBM	475	48250089	236
440L-ALAT	475	440S-MLF8D	455	450L-APC-IO-8	474	48250092	235
440L-R4F0020-Q	472	440S-PF5D	455	450L-APR-BL-5	474	48250094	235
440L-T4F2070-Q	472	440S-PF5D4	455	450L-APR-ED-8	474	48CR-45MIRROR	447
440N-A02005	467	440S-SF5D	455	450L-APR-EN-8	474	48CR-ADJBKT	447
440N-Z18SST	467	440S-SF8D	455	450L-APR-MU-8	474	48CR-CB16R400-E8	447
440N-Z21S16A	466	440S-SLF8D	455	450L-APR-ON-5	474	48CR-CB52R102-E8	447
440N-Z21S16B	466	440T-AKEYE100A	471	450L-APT-PW-5	474	48CR-CC16RAF-E8	447
440N-Z21S16H	466	440T-AKEYE10AA	471	450L-APT-PW-8	474	48CR-CC77RAF-E8	447
440N-Z21S17A	466	440T-MDALE10AAAB	469	450L-APU-UN-8	474	48CR-DIFFUSER	447
440N-Z21S17B	466	440T-MDCLE10AAAB	469	450L-B4FN0150YD	473	48CR-LBKT	447
440N-Z21S17H	466	440T-MDSLE10AAAB	471	450L-B4FN0300YD	473	48CR-POLARIZER	447
440N-Z21S26A	466	440T-MDSSE10AAAB	470	450L-B4FN0450YD	473	4983-DS277-401	153
440N-Z21S26H	466	440T-MRKSE11AA	470	450L-B4FN0600YD	473	4983-DS277-804	153
440N-Z21SS2AN	465	440T-MSALE100A	469	450L-B4FN0750YD	473	4DIN96ADAPTER	264
		440T-MSBLE10AA	470	450L-B4FN0900YD	473	4F	812

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
5		5094-AENSFPR	523	548500	179	556930	179
50.12.9.024.1000	771	5094-AENSFPRXT	524	548510	179	556940	179
50.12.9.024.5000	771	5094-AENTR	523	548520	179	557240	179
5069-AENTR	509	5094-AENTRXT	524	548540	179	557260	179
5069-ARM	510	5094-CE05	523	548560	179	557300	179
5069-ECR	511	5094-CE10	523	548580	179	557320	179
5069-FPD	510	5094-CE30	523	548590	179	557350	179
5069-HSC2XOB4	510	5094-ECR-QTY5	523	548600	179	56.32.0054 110 V AC	766
5069-IA16	509	5094-HSC	522	548610	179	56.32.0054 12 V AC	766
5069-IB16	509	5094-HSCXT	525	548620	179	56.32.0054 24 V AC	766
5069-IB16F	509	5094-IA16	522	548640	179	56.32.0054 240 V AC	766
5069-IB6F-3W	509	5094-IB16	521	548660	179	56.32.0074 12 V DC	766
5069-IB8S	511	5094-IB16S	524	55.1.33P	484	56.32.0074 24 V DC	766
5069-IF8	510	5094-IB16SXT	525	55.1.46SS	484	56.32.0074 48 V DC	766
5069-IY4	510	5094-IB16XT	524	55.1.50	484	56.34 110 V AC	766
5069-L306ER	507	5094-IB32	521	55.1.50SS	484	56.34 110 V DC	766
5069-L306ERM	507	5094-IF8	522	55.1.51	484	56.34 12 V DC	766
5069-L306ERMS2	508	5094-IF8IH	522	55.1.51SS	484	56.34 24 V AC	766
5069-L306ERMS3	508	5094-IF8XT	525	55.1.52	484	56.34 24 V DC	766
5069-L306ERS2	508	5094-IM8	522	55.1.52SS	484	56.34 240 V AC	766
5069-L3100ERM	507	5094-IY8	522	55.1.53	484	561132	182
5069-L3100ERMS2	508	5094-IY8XT	525	55.1.53P	484	561134	182
5069-L3100ERMS3	508	5094-MB	523	55.1.53PSS	484	561136	182
5069-L3100ERS2	508	5094-MBXT	525	55.1.53RLR	484	561138	182
5069-L310ER	507	5094-N2	523	55.1.53RLRPM	484	561140	182
5069-L310ERM	507	5094-OA16	522	55.1.64	484	561142	182
5069-L310ERMS2	508	5094-OB16	522	55.1.64SS	484	561151	182
5069-L310ERMS3	508	5094-OB16S	524	55.2.16GW	484	561154	182
5069-L310ERS2	508	5094-OB16SXT	525	55.2.17	484	561158	182
5069-L320ER	507	5094-OB16XT	524	55.2.18	484	561159	182
5069-L320ERM	507	5094-OB32	522	55.2.19	484	561161	182
5069-L320ERMS2	508	5094-OB8	522	55.2.37	484	561162	182
5069-L320ERMS3	508	5094-OF8	522	55.2.46	484	561163	182
5069-L320ERS2	508	5094-OF8IH	522	55.2.46SS	484	561164	182
5069-L330ER	507	5094-OF8XT	525	55.32.0040 24 V DC	764	561168	182
5069-L330ERM	507	5094-OW4IS	524	55.32.0054 110 V AC	764	561174	182
5069-L330ERMS2	508	5094-OW8I	522	55.32.0054 12 V AC	764	56320074 110VDC	766
5069-L330ERMS3	508	5094-OW8IXT	525	55.32.0054 24 V AC	764	563320	179
5069-L330ERS2	508	5094-RTB3	523	55.32.0054 240 V AC	764	563360	179
5069-L340ER	507	5094-RTB32C	523	55.32.0054 32 V AC	764	563410	179
5069-L340ERM	507	5094-RTB32CS	523	55.32.0054 48 V AC	764	563420	179
5069-L340ERMS2	508	5094-RTB32V	523	55.32.0074 110 V DC	764	563550	179
5069-L340ERMS3	508	5094-RTB32VS	523	55.32.0074 12 V DC	764	569010	181
5069-L340ERS2	508	5094-RTB3AC	523	55.32.0074 24 V DC	764	569020	181
5069-L350ERM	507	5094-RTB3ACS	523	55.32.0074 32 V DC	764	569030	181
5069-L350ERMS2	508	5094-RTB3I	523	55.32.0074 48 V DC	764	569040	181
5069-L350ERMS3	508	5094-RTB3IS	523	55.32.5074 24 V DC	764	569050	181
5069-L350ERS2	508	5094-RTB3ISXT	525	55.34.0040 24 V DC	765	569150	181
5069-L380ERM	507	5094-RTB3IXT	525	55.34.0054 110 V AC	765	569160	181
5069-L380ERMS2	508	5094-RTB3S	523	55.34.0054 12 V AC	765	569170	181
5069-L380ERMS3	508	5094-RTB3SXT	525	55.34.0054 24 V AC	765	569201	181
5069-L380ERS2	508	5094-RTB3T	523	55.34.0054 240 V AC	765	569205	181
5069-L4100ERMW	508	5094-RTB3TS	523	55.34.0054 32 V AC	765	569209	181
5069-L4200ERMW	508	5094-RTB3TSXT	525	55.34.0054 48 V AC	765	569251	181
5069-L430ERMW	508	5094-RTB3TXT	525	55.34.0074 110 V DC	765	569252	181
5069-L450ERMW	508	5094-RTB3W	523	55.34.0074 12 V DC	765		
5069-OA16	509	5094-RTB3WS	523	55.34.0074 24 V DC	765	6	
5069-OB16	509	5094-RTB3WSXT	525	55.34.0074 32 V DC	765	60-2421	407
5069-OB16F	509	5094-RTB3WXT	525	55.34.0074 48 V DC	765	60-2439	407
5069-OB8	509	5094-RTB3XT	525	55.34.5054.240 V AC	765	60-2649	407
5069-OBV8S	511	5094-SAJMPR-QTY10	523	55.34.5074 24 V DC	765	60-2657	407
5069-OF4	510	5094-SERIAL	523	55.4.00GWNBB	483	60-BJS-L1	407
5069-OF8	510	5094-STB-QTY5	523	55.4.00LHGWNBB	483	60.12 110 V AC RLY	767
5069-OW16	510	534007	178	55.4.00LHNBB	483	60.12 110 V DC RLY	767
5069-OW4I	510	534011	178	55.4.00NBB	483	60.12 12 V DC RLY	767
5069-OX4I	510	534018	178	55.4.00RHGWNBB	483	60.12 24 V AC RLY	767
5069-RTB14CJC-SCREW	511	534019	178	55.4.00RHNBB	483	60.12 24 V DC RLY	767
5069-RTB14CJC-SPRING	511	534021	178	55.4.01NBB	483	60.12 240 V AC RLY	767
5069-RTB18-SCREW	511	534025	178	55.4.01NBBU	483	60.12 32 V AC RLY	767
5069-RTB18-SPRING	511	534027	178	55.4.01NBBU	483	60.12 48 V DC RLY	767
5069-RTB5-SCREW	511	534028	178	552200	180	60.13 110 V AC RLY	767
5069-RTB5-SPRING	511	534034	178	552220	180	60.13 110 V DC RLY	767
5069-RTB6-SCREW	511	534036	178	553590	178	60.13 12 V DC RLY	767
5069-RTB6-SPRING	511	534040	178	556210	815	60.13 24 V AC RLY	767
5069-RTB64-SCREW	511	534042	178	556220	815	60.13 24 V DC RLY	767
5069-RTB64-SPRING	511	534048	178	556600	179	60.13 240 V AC RLY	767
5094-AEN2SFPR	523	548410	179	556610	179	60.13 48 V DC RLY	767
5094-AEN2SFPRXT	524	548420	179	556620	179	6176M-15PN	576
5094-AEN2TR	523	548430	179	556630	179	6176M-15PT	576
5094-AEN2TRXT	524	548440	179	556640	179	6176M-15VN	576
5094-AENRTB-QTY5	523	548450	179	556650	179	6176M-15VT	576
5094-AENRTBS-QTY5	523	548480	179	556660	179	6176M-17PN	576
		548490	179	556690	179	6176M-17PT	576
				556710	179		

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
6		6200M-12WBN	579	700-HF32Z24-4	774	800F-2PM	732
6176M-17VN	576	6200M-15WBN	579	700-HK32A2	774	800F-34BE100	734
6176M-17VT	576	6200M-19WBN	579	700-HK32A2-4L	774	800F-35AE100	734
6176M-19PN	576	6200M-22WBN	579	700-HK32A24	774	800F-35BE100	734
6176M-19PT	576	6200P-12WS3A1	578	700-HK32A24-4	774	800F-35WE100	734
6176M-19VN	576	6200P-15WS3A1	578	700-HK32Z24	774	800F-3MM	732
6176M-19VT	576	6200P-19WS3A1	578	700-HK32Z24-3-4	774	800F-3PM	732
6177R-MMPWX	574	6200P-22WS3A1	578	700-HK32Z24-4	774	800F-4PM	732
6181P-00N2MW71AC	574	6200P-NS3A1	578	700-HK36A2-4L	775	800F-A6PR5	736
6181P-00N2MWX1AC	574	6200P-NS3C1	578	700-HK36A24	775	800F-AB7	736
6181P-00N2MWX1DC	574	6200P-NS3C6	578	700-HK36A24-4	775	800F-ABE7	736
6181P-00N3MS81AC	574	6200T-12WA	579	700-HK36Z12-4	775	800F-AE108	734
6181P-00N3MS81DC	574	6200T-15WA	579	700-HK36Z24	775	800F-AE402	734
6181P-00N3MW71AC	574	6200T-19WA	579	700-HK36Z24-3-4	775	800F-AE611	734
6181P-00N3MW71DC	574	6200T-22WA	579	700-HK36Z24-4	775	800F-AF108	734
6181P-00N3MWX1AC	574	6200T-BA	579	700-HLS1Z24	785	800F-AF109	734
6181P-00N3MWX1DC	574	6200T-NA	579	700-HLT1Z24	773	800F-AF110	734
6181P-12A2MW71DC	574	6200T-RC	579	700-HLT1L2	773	800F-AF301	734
6181P-12A2MWX1AC	574	6200T-RE	579	700-HLT1U1	773	800F-AF402	734
6181P-12A2MWX1DC	574	6200V-BXMACH	579	700-HLT1U2	773	800F-AF405	734
6181P-15A2MW71AC	575	6200V-DCCONN2	579	700-HLT1U24	773	800F-AF611	734
6181P-15A2MW71DC	575	6200V-MPS4	579	700-HLT1Z24	773	800F-AHA1	735
6181P-15A2MWX1AC	575	6300BBMADNAB8AAN	580	700-HLT1Z24X	773	800F-AKR3825	736
6181P-15A2MWX1DC	575	6300BBMADNAC0ABN	580	700-HN100	775	800F-AL01	735
6181P-15A3MW71DC	575	6300BBMADNAC9AAN	580	700-HN101	775	800F-ALM	733
6181P-15A3MWX1AC	575	6300BBMBDNH3CBCBB	580	700-HN103	776	800F-ALP	733
6181P-15A3MWX1DC	575	6300BBMBDNH5DCCBC	580	700-HN104	776	800F-AMEGY	736
6181P-15B3MW71DC	575	6300BBMBDNH7BNCAN	580	700-HN116	775	800F-AML2	735
6181P-15B3MWX1AC	575	6300BBMBDNH7EDCB	580	700-HN119	776	800F-AMRG	736
6181P-15B3MWX1DC	575	6300P121BASXDB3BABBA	581	700-HN121	775	800F-AUB2	736
6181P-15B3SW71DC	575	6300P121BASXDB5CCBBC	581	700-HN122	775	800F-AW2	735
6181P-15C2MW71AC	573	6300P121BASXDB7DDBBD	581	700-HN123	775	800F-BN3W	731
6181P-15C2MW71DC	573	6300P121FASXDACCAABA	581	700-HN128	776	800F-BX01	733
6181P-15C2MWX1AC	573	6300P150BASXDB7DDBBD	581	700-HN130	776	800F-BX10	733
6181P-15C2MWX1DC	573	6300P150FASXDACCAABA	581	700-HN180B	776	800F-D0C	732
6181P-17A2MW71DC	575	6300P156AASFDB7DDBBD	581	700-HN180R	776	800F-N2	735
6181P-17A2MWX1DC	575	6300P170BASTDB3CBBB	581	700-HN221	776	800F-N3G	731
6181P-17A2SW71DC	575	6300P170BASTDB7CBBB	581	700-HN222	776	800F-N3R	731
6181P-17A3MW71DC	575	6300P170FASTDACCAABA	581	700-HNK41AZ24	804	800F-N3W	731
6181P-17C2MW71DC	573	6300P185AASFDB7DDBBD	581	700-HP32Z24	775	800F-N5W	732
6181P-17C2MWX1AC	573	6300P190BASTDB3CBBB	581	700-HR52TA17	803	800F-N7G	732
6181P-17C2MWX1DC	573	6300P190BASTDB7DDBBD	581	700-HR52TU24	803	800F-N7W	732
6181P-19A2MW71DC	575	6300P190FASTDACCAABA	581	700-HRP42TA17	803	800F-N8	735
6181P-19A2MWX1AC	575	6300P215AASFDB3CBBB	582	700-SKOC2Z25	785	800F-NUG	731
6181P-19A2MWX1DC	575	6300P215AASFDB7DDBBD	582	700-TBJ20B	776	800F-NUR	731
6181P-19A3MW71DC	576	6300P215ECMFDACBAABA	582	700-TBJ20G	776	800F-NUW	731
6181P-19A3MWX1AC	576	6300P215ECMFDACCAABA	582	700-TBJ20R	776	800F-PN3R	731
6181P-19A3MWX1DC	576	6300P240AASFDB7DDBBD	582	700-TBR224	773	800F-PX01	733
6181P-19B3MW71DC	576	6300TBA	583	700-TBR24	773	800F-PX10	733
6181P-19B3MWX1AC	576	64200000	193	700-TBR60	773	800F-PX11	733
6181P-19B3MWX1DC	576	64210000	193	700-TBS24	785	800F-X01	733
6181P-19C2MW71AC	573	64210001	193	72-3-02MD	739	800F-X01B	733
6181P-19C2MW71DC	573	64210002	193	72003	742	800F-X01S	733
6181P-19C2MWX1AC	573	65.31 12 V DC	769	720100	744	800F-X01V	733
6181P-19C2MWX1DC	573	65.31 24 V AC	769	72104	741	800F-X10	733
6181X-12P2SWX1DC	576	65.31 24 V DC	769	72188B	744	800F-X10E	733
6186M-12PT	576	65.31 240 V AC	769	72210D RED	741	800F-X10M	733
6186M-15PNSS	576	65.31M 24 V AC	769	72316B	741	800F-X10N	733
6186M-15PT	576	65.31M 240 V AC	769	72316G	741	800F-X10V	733
6186M-17PNSS	576	65001030	195	72318R	741	800FC-3Z	672
6186M-17PT	576	65011031	195	72440D	739	800FC-5Z	672
6186M-17PTSS	576	6511 1031	195	77.1.06	430	800FC-7Z	672
6186M-19PNSS	576	7		77.1.10	430	800FC-9Z	672
6186M-19PT	576	700-ADL1R	776	77.2.11	430	800FC-ALP	675
6186M-19PTSS	576	700-ADR	776	77.2.34	430	800FC-AS3	675
6189V-HPMOUSEP	577	700-CF220EJ	321	77.2.39	430	800FC-AS5	675
6189V-HPMOUSEPU	577	700-CF310EJ	321	77.2.40	430	800FC-AWG	675
6189V-KBDEPC1U	577	700-CF400EJ	321	77.2.50	430	800FD-P3D3	734
6189V-KBDEPS1	577	700-FEA3TU23	803	8		800FD-P3N3	733
6189V-KBPEPS1	577	700-FEB3TU23	803	8004A	896	800FD-P3N5	733
62.32 110 V AC	767	700-FEM3TU23	803	8006A	896	800FD-P4N3	733
62.32 24 V AC	767	700-FSH3VU23	803	800F-120	735	800FD-P4N5	733
62.32 24 V DC	767	700-HB33Z24	774	800F-12WE100	735	800FD-P4N7	733
62.32 240 V AC	767	700-HC14A2	774	800F-15YE112	734	800FD-P5N3	733
62.33 110 V AC	768	700-HC14A2-4L	774	800F-15SE112	734	800FD-P5N5	733
62.33 12 V DC	768	700-HC14Z24	774	800F-16YE112	734	800FD-P6N3	733
62.33 24 V AC	768	700-HC24A2-3-4L	774	800F-1MM	732	800FD-P6N5	733
62.33 24 V DC	768	700-HC24A2-4L	774	800F-1MYM	732	800FD-P7N3	733
62.33 240 V AC	768	700-HC24Z24	774	800F-1PM	732	800FD-P7N5	733
62.33 48 V DC	768	700-HC24Z24-3-4	774	800F-1YM	732	800FM-F2	720
62.82.0008 240 V AC	768	700-HF32Z12-4	774	800F-1YM1	719	800FM-F3	720
62.83.0008 240 V AC	768	700-HF32Z24	774	800F-1YM3	719	800FM-F4	720
						800FM-F5	720

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
8		800FP-E2U244	672	800H-FRXT6	750	800T-QH2R	751
800FM-F6	720	800FP-E2U261	672	800H-HR2	751	800T-T2H3	752
800FM-HB32	729	800FP-E3	721	800H-JR2	751	800T-U29	752
800FM-HM22	728	800FP-E3U222	672	800H-JR2A	751	800T-X504	754
800FM-JR2	730	800FP-E4	721	800H-JR4	751	800T-X504Y	754
800FM-JR4	730	800FP-E402	721	800H-N11	755	800T-X547	754
800FM-KM21	729	800FP-E402PX01	719	800H-N140	755	800T-X550	754
800FM-KM23	729	800FP-E405	721	800H-N149	755	800T-X559	754
800FM-LE3	721	800FP-E4PX01	719	800H-N153	755	800T-X638	754
800FM-LE4	721	800FP-E5	721	800H-N5A	755	800T-X646EM	754
800FM-LE5	721	800FP-E6	721	800H-N5B	755	800T-XD1	753
800FM-LE6	721	800FP-E611	672	800H-N5H	755	800T-XD1Y	753
800FM-LF3	720	800FP-F1	719	800H-QRH2A	750	800T-XD2	753
800FM-LF4	720	800FP-F2	719	800H-QRH2G	750	800T-XD2Y	753
800FM-LF5	720	800FP-F208	719	800H-QRH2R	750	800T-XD3	753
800FM-LF6	720	800FP-F2PX10	719	800H-QRH2W	750	800T-XD4	753
800FM-LF7	720	800FP-F3	719	800H-R1	748	800TC-A1A	748
800FM-LMP44	718	800FP-F301	719	800H-R6	749	800TC-A1D1	748
800FM-LMT44	718	800FP-F301PX10	719	800H-W100	754	800TC-A2A	748
800FM-LSB33	728	800FP-F3PX10	719	800H-W105	754	800TC-A2D1	748
800FM-LSM23	726	800FP-F4	719	800H-W126	754	800TC-A6A	748
800FM-LSM33	728	800FP-F402	719	800H-W371	754	800TC-A6D2	748
800FM-LSR33	728	800FP-F5	719	800H-W372	754	800TC-B1A	749
800FM-MT44	718	800FP-F6	719	800H-W373	754	800TC-B2A	749
800FM-MT44MX01	715	800FP-F611	719	800HC-AR1A	748	800TC-B6A	749
800FM-MT44MX01S	715	800FP-KM21	729	800HC-AR1D1	748	800TC-FX6A1	750
800FM-P3	731	800FP-KM21PX11	729	800HC-AR2D1	748	800TC-FX6A5	750
800FM-P4	731	800FP-LE3	721	800HC-AR6D2	748	800TC-FX6D4	750
800FM-P5	731	800FP-LE4	721	800HC-BR1A	749	800TC-FXJT6A5S	750
800FM-SB32	727	800FP-LE5	721	800HC-FRXT6A1	750	800TC-FXJT6D4	750
800FM-SM22	725	800FP-LE6	721	800HC-FRXT6A5	750	800TC-FXMQ24GA7	750
800FM-SM22MX10	725	800FP-LF3	719	800HC-FRXT6D4	750	800TC-FXQH2RA1	750
800FM-SM32	727	800FP-LF4	719	800HC-FRXT6D4S	750	800TC-FXT6A1	750
800FM-SR32	727	800FP-LF5	719	800HC-HR2A	751	800TC-FXT6A5	750
800FP-CA1U100	672	800FP-LF6	719	800HC-HR2D1	751	800TC-FXT6A5S	750
800FP-CA1U241	672	800FP-LF7	719	800HC-JR2A	751	800TC-FXT6D4	750
800FP-CA1U243	672	800FP-LMT44	716	800HC-PR26	750	800TC-FXTQ10RA1	750
800FP-CA1U244	672	800FP-LSM23	725	800HC-QRBH2A	749	800TC-H2A	751
800FP-CA1U246	672	800FP-LSM24	725	800HC-QRBH2G	749	800TC-H2D1	751
800FP-CA1U700	672	800FP-LSM25	725	800HC-QRBH2R	749	800TC-J20A	752
800FP-CA2U100	672	800FP-LU2FBFA	723	800HC-QRT10	751	800TC-J2A	752
800FP-CA2U241	672	800FP-MK44	717	800HC-QRT24	751	800TC-PBH16G	749
800FP-CA2U243	672	800FP-MM42	722	800HC-R1D1	748	800TC-PBH16R	749
800FP-CA2U244	672	800FP-MM43	722	800HC-R2A	748	800TC-PH16A	751
800FP-CA2U246	672	800FP-MM44	722	800HC-R2D1	748	800TC-PH16G	751
800FP-CA2U700	672	800FP-MP42	722	800HC-R6A	749	800TC-PH16R	751
800FP-CB1U100	673	800FP-MP45	722	800HC-R6D2	749	800TC-PH16W	751
800FP-CB1U270	673	800FP-MT34	716	800HC-UR29	752	800TC-QB24	749
800FP-CB1U271	673	800FP-MT44	716	800T-1TZ	753	800TC-QBH2A	749
800FP-CB1U273	673	800FP-MT44PX01	715	800T-2TZ	753	800TC-QBH2G	749
800FP-CB1U274	673	800FP-MT44PX01S	715	800T-3TZ	753	800TC-QTH2A	751
800FP-CB1U276	673	800FP-MT44PX11S	715	800T-A1	748	800TC-QTH2G	751
800FP-CB2U100	673	800FP-MT64	716	800T-A2	748	800TC-QTH2R	751
800FP-CB2U270	673	800FP-P0	731	800T-A6	748	800TC-T2H3EEXX	752
800FP-CB2U271	673	800FP-P3	731	800T-A7	748	800TC-T2H3NNXX	752
800FP-CB2U273	673	800FP-P3PN3G	731	800T-A9	748	800TC-T4T8AAXX	752
800FP-CB2U274	673	800FP-P4	731	800T-D1	749	800TC-U24	752
800FP-CB2U276	673	800FP-P4PN3R	731	800T-D3	749	800TC-U29	752
800FP-CC1U290	673	800FP-P5	731	800T-FX6D4	750	800TC-XA	753
800FP-CC1U291	673	800FP-P6	731	800T-FXT6D4	750	800TC-XA1	753
800FP-CC1U293	673	800FP-P6PN3W	731	800T-H2	751	800TC-XA2	753
800FP-CC1U294	673	800FP-P7	731	800T-H2A	751	800TC-XA4	753
800FP-CC1U296	673	800FP-P7PN3W	731	800T-J2	752	800TC-XA7	753
800FP-CC2U100	673	800FP-POT1	730	800T-J20KD7B	752	800TC-XD1	753
800FP-CC2U290	673	800FP-POT2	730	800T-J2A	752	800TC-XD1V	753
800FP-CC2U291	673	800FP-POT3	730	800T-J4	752	800TC-XD2	753
800FP-CC2U293	673	800FP-POT4	730	800T-J91	752	800TC-XD2V	753
800FP-CC2U294	673	800FP-POT5	730	800T-N1	756	800TC-XD4	753
800FP-CC2U296	673	800FP-POT6	730	800T-N157	755	800TC-XD4S	753
800FP-CD1U260	672	800FP-R611	722	800T-N160A	754	802T-A	426
800FP-CD1U261	672	800FP-SB32	727	800T-N230F	756	802T-ALP	426
800FP-CD1U263	672	800FP-SM22	725	800T-N245	755	802T-AMTP	426
800FP-CD2U260	672	800FP-SM22PX10	724	800T-N26G	754	802T-AP	426
800FP-CD2U261	672	800FP-SM32	727	800T-N26R	754	802T-ATP	426
800FP-CD2U263	672	800FP-SM32PX20	724	800T-N302A	754	802T-W1	427
800FP-E108	672	800H-1HZ4CY	752	800T-N310	755	802T-W14	427
800FP-E1U244	672	800H-1HZ4R	753	800T-N377R	755	802T-W17	427
800FP-E1U261	672	800H-2HZ4R	753	800T-N40	754	802T-W1A	427
800FP-E1U264	672	800H-3HZ4R	753	800T-N41	754	802T-W2	427
800FP-E2	721	800H-4HZ4R	753	800T-N42	754	802T-W2B	427
800FP-E205	721	800H-AR1	748	800T-N65	755	802T-W2C	427
800FP-E208	672	800H-AR2	748	800T-QH2A	751	802T-W3A	427
		800H-AR6	748	800T-QH2G	751	802T-W3B	427

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
8		856T-ATM	942	8600	772	889D-F5AC-15	828
802T-W3C	427	856T-AVFG	942	86P22041	208	889D-F5AC-2	828
808-M1	786	856T-B24C	942	86P22064	208	889D-F5AC-20	828
836P-D2NFGB36PA-D4	441	856T-B24P10CK	940	871A-BRN18	415	889D-F5AC-5	828
836P-N2NMG814A-D4	441	856T-B24P25CK	940	871A-BRS18	415	889D-F5NCMD-0M3	829
836T-T251J	441	856T-B24P40CK	940	871A-BRS30	415	889D-F5NCMD-0M6	829
836T-T252J	441	856T-B24P60CK	940	871A-BXS18	415	889D-F5NCMD-1	829
836T-T253J	441	856T-B24Q10C	940	871A-TR4-D	828	889D-F5NCMD-2	829
836T-T254J	441	856T-B24Q25C	940	871A-TS4-D1	828	889D-F5NCMD-5	829
836T-T256J	441	856T-B24QD5C	940	871A-TS4-DM	828	889D-F8AB-10	829
84090040	215	856T-B24QD8C	940	871A-TS4-DM1	828	889D-F8AB-15	829
842E-CM-SIP3BA	444	856T-B24SHCK	940	871A-TS4-N1	830	889D-F8AB-2	829
842E-MIP3BA	444	856T-B24SNCK	940	871A-TS5-N1	830	889D-F8AB-20	829
842E-MIP4BA	444	856T-B24T10CK	940	871L-B20E40-T2	414	889D-F8AB-30	829
842E-MIP4BA	444	856T-B24T25CK	940	871L-B40E40-T2	414	889D-F8AB-5	829
842E-MIP9BA	444	856T-B24VMCK	940	871L-D20EP40-T3	414	889D-F8ABDM-10	829
843ES-MIP10BA6	446	856T-BA3P10CK	940	871P-D20BP40-D4	414	889D-F8ABDM-5	829
843ES-MIP11BA6	446	856T-BA3P25CK	940	871P-D40BP40-D4	414	889D-F8AC-10	829
843ES-MIP12BA6	446	856T-BA3P40CK	940	871TM-B10N30-R3	414	889D-F8NBDM-0M3	829
843ES-MIP14BA1	446	856T-BA3P60CK	940	871TM-BH10N30-R3	414	889D-F8NBDM-0M6	829
843ES-MIP14BA4	446	856T-BA3SHCK	940	871TM-BH8N18-N3	413	889D-F8NBDM-1	829
843ES-MIP14BA7	446	856T-BA3SNCK	940	871TM-BH8N18-R3	413	889D-F8NBDM-2	829
843ES-MIP15BA1	446	856T-BA3T10CK	940	871TM-DH10NP30-D4	414	889D-F8NBDM-5	829
843ES-MIP15BA4	446	856T-BA3T25CK	940	871TM-DH15NE30-D4	414	889D-M4AC-10	827
843ES-MIP15BA7	446	856T-BA3VMCK	940	871TM-DH15NP30-D4	414	889D-M4AC-5	827
843ES-MIP16BA1	446	856T-BA7P10CK	940	871TM-DH2NP12-D4	413	889D-M4DC-H	828
843ES-MIP16BA4	446	856T-BA7P25CK	940	871TM-DH4NE12-D4	413	889D-P4AC-5	827
843ES-MIP16BA7	446	856T-BA7P40CK	940	871TM-DH4NP12-D4	413	889D-R4AC-10	827
843ES-MIP7BA6	446	856T-BA7P60CK	940	871TM-DH5NP18-D4	413	889D-R4AC-2	827
843ES-MIP8BA6	446	856T-BA7SHCK	940	871TM-DH8NE18-D4	413	889D-R4AC-5	827
843ES-MIP9BA6	446	856T-BA7SNCK	940	871TM-DH8NP18-D4	413	889D-R5AC-2	828
843ES-SIP10BA6	445	856T-BA7T10CK	940	871TM-M10NP18-D4	413	889M-F19RM-10	830
843ES-SIP11BA6	445	856T-BA7T25CK	940	871TM-M20NP30-D4	414	889M-F19RM-2	830
843ES-SIP12BA6	445	856T-BA7VMCK	940	871TM-M6NP12-D4	413	889N-F3AFC-12F	829
843ES-SIP14BA1	445	856T-BAC3C	942	871TM-N10NP12-D4	413	889N-F3AFC-6F	829
843ES-SIP14BA4	445	856T-BAC7C	942	871TM-N20NP18-D4	413	889N-F5AF-6F	830
843ES-SIP14BA7	445	856T-BB3	940	871TM-N40NP30-D4	414	889N-R4AFC-20F	830
843ES-SIP15BA1	445	856T-BB4	940	872C-A10N18-R3	413	889P-F3AB-2	825
843ES-SIP15BA4	445	856T-BB5	940	872C-A2N12-R3	413	889P-F3AB-5	825
843ES-SIP15BA7	445	856T-BB6	940	872C-D10NP30-D4	414	889P-F4AB-5	825
843ES-SIP16BA1	445	856T-BB7	940	872C-D2NP8-D4	412	889R-F3AEA-5	825
843ES-SIP16BA4	445	856T-BB8	940	872C-D3NP12-D4	413	889R-F3ECA-10	825
843ES-SIP16BA7	445	856T-BB9	940	872C-D4NP12-D4	413	889R-F3ECA-2	825
843ES-SIP7BA6	445	856T-BGB3	941	872C-D5NP18-D4	413	889R-F4AEA-5	826
843ES-SIP8BA6	445	856T-BGB4	941	872C-D8NE18-D4	413	889R-F6ECA-5	826
843ES-SIP9BA6	445	856T-BGB5	941	872C-D8NP18-D4	413	898D-418U-DM2	455
845-FC-T-T	443	856T-BGB6	941	872C-DH3NP12-D4	413	898D-438Y-D8	830
847T-DL2A-RG01000	443	856T-BGB7	941	872C-DH4NP12-D4	413	898D-58DT-M19	830
847T-DL2C-RC01000	443	856T-BGB8	941	872C-DH8NP18-D4	413	898D-81RU-DM	830
855E-24BR4	937	856T-BMAP10	942	872C-M8NP18-D4	413	898D-P84RT-M19	830
855E-24DN3	937	856T-BMAP25	942	872C-N12NP18-D4	413	898D-P88RT-M19	830
855E-24DN4	937	856T-BMAP40	942	872C-N8NP12-D4	413		
855E-24DN5	937	856T-BMAP60	942	873M-D18A1800-D4	414	9	
855E-24TL3	937	856T-BMASH	942	873P-D30AIP2-3500-D5	415	90.02	767
855E-24TL4	937	856T-BMASN	942	889D-E4AC-10	827	90.03	767
855E-24TL5	937	856T-BMAT10	942	889D-E4AC-20	827	90.12	767
855E-B24SA3	937	856T-BMAT25	942	889D-E4AC-5	827	90.13	767
855E-BCBC	938	856T-BMAVM	942	889D-F4AC-10	827	92-104	407
855E-BPM10C	938	856T-BMB	940	889D-F4AC-15	827	92-107	407
855E-BVMC	938	856T-BMC	940	889D-F4AC-2	827	92-108	407
855P-B20ME22	945	856T-BP1	942	889D-F4AC-20	827	92-109	407
855P-B20SE22	945	856T-BPL1	942	889D-F4AC-30	827	92-112	407
855P-B30LE22	945	856T-BR3	941	889D-F4AC-5	827	92-113	407
855P-B30ME22	945	856T-BR4	941	889D-F4ACDM-10	828	92-116	407
855P-B30SE22	945	856T-BR5	941	889D-F4ACDM-2	828	92-118	407
855PB-B24LE322	945	856T-BR6	941	889D-F4ACDM-5	828	92-39	407
855PB-B24LE422	945	856T-BR7	941	889D-F4DC-H	828	92-47	407
855PB-B24LE522	945	856T-BR8	941	889D-F4NE-10	827	92-90	407
855PB-B24ME322	945	856T-BRB4	941	889D-F4NE-15	827	92-99	407
855PB-B24ME422	945	856T-BRB5	941	889D-F4NE-2	827	92.03	768
855PC-B20LE422	945	856T-BSB4	941	889D-F4NE-20	827	9301-OPCSR VENE	589
855PC-B20LE522	945	856T-BSB5	941	889D-F4NE-30	827	9309-CMS00ENM	358
855PC-B20ME422	945	856T-BSB6	941	889D-F4NE-5	827	9313C-NMMS01T11	558
855PC-B20ME522	945	856T-BT3	941	889D-F4NEDM-0M3	828	9313C-NMMS01T12	558
855PC-B24LE422	945	856T-BT4	941	889D-F4NEDM-0M6	828	931A-CB	546
855PC-B24LE522	945	856T-BT5	941	889D-F4NEDM-1	828	931A-CL	545
855PC-B24ME422	945	856T-BT6	941	889D-F4NEDM-10	828	931A-CS	545
855PC-B24ME522	945	856T-BT7	941	889D-F4NEDM-15	828	931A-FL	545
856T-ABCAP	942	856T-BT8	941	889D-F4NEDM-2	828	931A-FS	545
856T-ADK	942	856T-BT9	941	889D-F4NEDM-20	828	931N-A221	545
856T-AJB5	942	856T-BTR3	941	889D-F4NEDM-30	828	931N-A222	545
856T-ARNG	942	86.30 24 V AC/DC	772	889D-F4NEDM-5	828	931N-C121	545
856T-ASFG	942	86.30 240 V AC	772	889D-F5AC-10	828	931N-C122	545

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
9		9324R-LDSIMENT	616	9356M-FTTMT42	586	9358M-FTBT51	596
931N-C141	545	9324R-LDSMENT	616	9356M-FTTMT50	586	9358M-FTBT52	596
931N-C144	545	9324R-LDSTENT	616	9356M-FTTMT51	586	9358M-FTBT60	596
931N-C161	545	9326C-ACMT11	616	9356M-FTTMT52	586	9358M-FTBT61	596
931N-C164	545	9326C-ACMT12	616	9356M-FTTMT60	586	9358M-FTBT62	596
931N-N161	545	9326C-CPROTT11	617	9356M-FTTMT61	586	9358M-FTMRT10	594
931N-R161	545	9326C-CPROTT12	617	9356M-FTTMT62	586	9358M-FTMRT11	594
931N-R221	545	9326C-CPROTT21	617	9357M-RLDRT101	615	9358M-FTMRT12	594
931N-T221	545	9326C-CPROTT22	617	9358-SQM01ENE	584	9358M-FTMRT20	594
931N-U221	545	9328C-CCWT21	623	9358-SQM03ENE	584	9358M-FTMRT21	594
931N-X221	545	9328C-CCWT22	623	9358-SQM10ENE	584	9358M-FTMRT22	594
931N-X422	545	9328M-CCWT20	623	9358C-FTBEPT11	598	9358M-FTMT10	594
93232004	225	9328M-CCWT21	623	9358C-FTBEPT12	598	9358M-FTMT11	594
93232006	225	9328M-CCWT22	623	9358C-FTBEPT21	598	9358M-FTMT12	594
93232008	225	93532004	226	9358C-FTBEPT22	598	93644006	227
93232010	225	93532006	226	9358C-FTBEPT31	598	93644008	227
93232012	225	93532008	226	9358C-FTBEPT32	598	93644010	227
93232016	225	93532010	226	9358C-FTBEPT41	598	93644012	227
93234006	225	93532012	226	9358C-FTBEPT42	598	93644016	227
93234008	225	93532016	226	9358C-FTBRT11	598	93844004	227
93234010	225	93544006	226	9358C-FTBRT12	598	93844006	227
93234012	225	93544008	226	9358C-FTBRT21	598	93844008	227
93234016	225	93544010	226	9358C-FTBRT22	598	93844010	227
9324C-RLDT11	615	93544012	226	9358C-FTBRT31	598	93844012	227
9324C-RLDT12	615	93544016	226	9358C-FTBRT32	598	93844016	227
9324C-RLDT21	615	9355C-FTLNxDBT71	589	9358C-FTBRT41	598	9398C-TKITLEGM	618
9324C-RLDT22	615	9355C-FTLNxDBT72	589	9358C-FTBRT42	598	9398C-TKIT11	618
9324C-RLDT31	616	9355C-FTLNXGWT11	588	9358C-FTBRT51	598	9398C-TKIT12	618
9324C-RLDT32	616	9355C-FTLNXGWT12	588	9358C-FTBRT52	598	9398C-TKIT21	618
9324C-RLDT41	616	9355C-FTLNXGWT21	588	9358C-FTBT11	597	9398C-TKIT22	618
9324C-RLDT42	616	9355C-FTLNXGWT22	588	9358C-FTBT12	597	9398C-TKIT31	618
9324C-RLDT51	616	9355C-FTLNXGWT31	588	9358C-FTBT21	597	9398C-TKIT32	618
9324C-RLDT52	616	9355C-FTLNXGWT32	588	9358C-FTBT22	597	94.02	765
9324C-RLDT61	615	9355C-FTLNXGWT41	588	9358C-FTBT31	597	94.04	765
9324C-RLDT62	615	9355C-FTLNXGWT42	588	9358C-FTBT32	597	9403	765
9324C-RLDT71	616	9355C-FTLNXGWT51	588	9358C-FTBT41	597	95.05	762
9324C-RLDT72	616	9355C-FTLNXGWT52	588	9358C-FTBT42	597	95.08	763
9324C-RLDT81	616	9355C-FTLNXGWT61	588	9358C-FTMRT11	595	95.15	762
9324C-RLDT82	616	9355C-FTLNXGWT62	588	9358C-FTMRT12	595	95.18	763
9324M-RLD2RT11	615	9355M-FTLNxDBT70	589	9358C-FTMRT21	595	95.75	762
9324M-RLD2RT21	615	9355M-FTLNxDBT71	589	9358C-FTMRT22	595	95.85	762
9324M-RLDRT11	615	9355M-FTLNxDBT72	589	9358C-FTMT11	594	9503	762
9324M-RLDRT21	615	9355M-FTLNXGWT10	587	9358C-FTMT12	594	95055C-EDGE GWT11	585
9324M-RLDRT31	615	9355M-FTLNXGWT11	587	9358M-FTBEPT10	597	95055C-EDGE GWT12	585
9324M-RLDRT41	615	9355M-FTLNXGWT12	587	9358M-FTBEPT11	597	95055C-EDGE GWT21	585
9324M-RLDRT51	615	9355M-FTLNXGWT20	587	9358M-FTBEPT12	597	95055C-EDGE GWT22	585
9324M-RLDRT61	615	9355M-FTLNXGWT21	587	9358M-FTBEPT20	597	95055C-EDGE GWT31	585
9324M-RLDRT71	615	9355M-FTLNXGWT22	587	9358M-FTBEPT21	597	95055C-EDGE GWT32	585
9324M-RLDRT81	615	9355M-FTLNXGWT30	587	9358M-FTBEPT22	597	95055C-EDGE GWT41	585
9324M-RLDRT91	615	9355M-FTLNXGWT31	587	9358M-FTBEPT30	597	95055C-EDGE GWT42	585
9324M-RLDT10	614	9355M-FTLNXGWT32	587	9358M-FTBEPT31	597	95057C-VUSTSS1T22	625
9324M-RLDT11	614	9355M-FTLNXGWT40	588	9358M-FTBEPT32	597	95057C-VUSTSS1T42	625
9324M-RLDT12	614	9355M-FTLNXGWT41	588	9358M-FTBEPT40	597	9509-USB-DONG2	620
9324M-RLDT20	614	9355M-FTLNXGWT42	588	9358M-FTBEPT41	597	95095020	236
9324M-RLDT21	614	9355M-FTLNXGWT50	587	9358M-FTBEPT42	597	95095040	236
9324M-RLDT22	614	9355M-FTLNXGWT51	587	9358M-FTBRT10	597	95095063	236
9324M-RLDT30	615	9355M-FTLNXGWT52	587	9358M-FTBRT11	597	95095120	236
9324M-RLDT31	615	9355M-FTLNXGWT60	588	9358M-FTBRT12	597	95095160	236
9324M-RLDT32	615	9355M-FTLNXGWT61	588	9358M-FTBRT20	597	95095320	236
9324M-RLDT40	615	9355M-FTLNXGWT62	588	9358M-FTBRT21	597	9515C-FTAC1RT11	593
9324M-RLDT41	615	9356C-FTTMT11	586	9358M-FTBRT22	597	9515C-FTAC1RT12	593
9324M-RLDT42	615	9356C-FTTMT12	586	9358M-FTBRT30	597	9515C-FTACRT101	593
9324M-RLDT50	615	9356C-FTTMT21	586	9358M-FTBRT31	597	9515C-FTACRT102	593
9324M-RLDT51	615	9356C-FTTMT22	586	9358M-FTBRT32	597	9515C-FTACRT11	593
9324M-RLDT52	615	9356C-FTTMT31	586	9358M-FTBRT40	597	9515C-FTACRT12	593
9324M-RLDT60	614	9356C-FTTMT32	586	9358M-FTBRT41	597	9515C-FTACRT21	593
9324M-RLDT61	614	9356C-FTTMT41	586	9358M-FTBRT42	597	9515C-FTACRT22	593
9324M-RLDT62	614	9356C-FTTMT42	586	9358M-FTBRT50	597	9515C-FTACRT61	593
9324M-RLDT70	614	9356C-FTTMT51	586	9358M-FTBRT51	597	9515C-FTACRT62	593
9324M-RLDT71	614	9356C-FTTMT52	586	9358M-FTBRT52	597	9515C-FTACRT71	593
9324M-RLDT72	614	9356C-FTTMT61	586	9358M-FTBT10	596	9515C-FTACRT72	593
9324M-RLDT80	614	9356C-FTTMT62	586	9358M-FTBT11	596	9515C-FTACRT81	593
9324M-RLDT81	614	9356M-FTTMT10	586	9358M-FTBT12	596	9515C-FTACRT82	593
9324M-RLDT82	614	9356M-FTTMT11	586	9358M-FTBT20	596	9515C-FTACRT91	593
9324R-L0300ENT	616	9356M-FTTMT12	586	9358M-FTBT21	596	9515C-FTACRT92	593
9324R-L5300ENT	616	9356M-FTTMT20	586	9358M-FTBT22	596	9515C-FTACT11	592
9324R-LDEMUEENT	616	9356M-FTTMT21	586	9358M-FTBT30	596	9515C-FTACT12	592
9324R-LDFBDEENT	616	9356M-FTTMT22	586	9358M-FTBT31	596	9515CFTACT21	593
9324R-LDFPENT	616	9356M-FTTMT30	586	9358M-FTBT32	596	9515CFTACT22	593
9324R-LDGSENT	616	9356M-FTTMT31	586	9358M-FTBT40	596	9515M-FTAC1RT10	592
9324R-LDPMENT	616	9356M-FTTMT32	586	9358M-FTBT41	596	9515M-FTAC1RT11	592
9324R-LDSFCENT	616	9356M-FTTMT40	586	9358M-FTBT42	596	9515M-FTAC1RT12	592
		9356M-FTTMT41	586	9358M-FTBT50	596	9515M-FTACRT10	592

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
9		95234200	228	9701C-VWSDT11	603	9701M-VWSTNST22	602
9515M-FTACRT100	592	95234250	228	9701C-VWSDT12	603	9701M-VWSTNST30	602
9515M-FTACRT101	592	95234320	228	9701C-VWSDT21	603	9701M-VWSTNST31	602
9515M-FTACRT102	592	9525C-TOT11	624	9701C-VWSDT22	603	9701M-VWSTNST32	602
9515M-FTACRT11	592	9525C-TOT12	624	9701C-VWSDT32	603	9701M-VWSTNST40	602
9515M-FTACRT12	592	9528C-FTCBT11	599	9701C-VWSDT41	603	9701M-VWSTNST41	602
9515M-FTACRT20	592	9541C-TMFT11	609	9701C-VWSDT42	603	9701M-VWSTNST42	602
9515M-FTACRT21	592	9541C-TMUT11	609	9701C-VWSSPT11	603	9701M-VWSTNST50	602
9515M-FTACRT22	592	9541M-TMFT11	609	9701C-VWSSPT12	603	9701M-VWSTNST51	602
9515M-FTACRT60	592	9541M-TMFT12	609	9701C-VWSSPT21	603	9701M-VWSTNST52	602
9515M-FTACRT61	592	9541M-TMUT11	609	9701C-VWSSPT22	603	99.02.0.024	771
9515M-FTACRT62	592	95533012	232	9701C-VWSSPT31	601	99.02.0.060	771
9515M-FTACRT70	592	95533016	232	9701C-VWSSPT32	601	99.02.0.230.98	771
9515M-FTACRT71	592	95533020	232	9701C-VWSTNMRT11	600	99.02.0.240	771
9515M-FTACRT72	592	95533025	232	9701C-VWSTNMRT12	600	99.02.3.000	771
9515M-FTACRT80	592	95533031	232	9701C-VWSTNMT11	604	99.02.9.024	771
9515M-FTACRT81	592	95533040	232	9701C-VWSTNMT12	604	99.02.9.060	771
9515M-FTACRT82	592	95533050	232	9701C-VWSTNMT21	604	9902002498	771
9515M-FTACRT90	592	95533063	232	9701C-VWSTNMT22	604		
9515M-FTACRT91	592	95533080	232	9701C-VWSTNMT31	604	A	
9515M-FTACRT92	592	95533100	232	9701C-VWSTNMT32	604	A-DNTR	556
9515M-FTACT10	591	95533120	232	9701C-VWSTNMT41	604	A072706NJ-OC	547
9515M-FTACT11	591	95533160	232	9701C-VWSTNMT42	604	A081904-OM	547
9515M-FTACT12	591	95533200	232	9701C-VWSTNMT51	604	A082503-80-OBH	547
9515M-FTACT20	591	95533250	232	9701C-VWSTNMT52	604	A160-E1-1-100-FF	55
9515M-FTACT21	591	95533320	232	9701C-VWSTNST11	602	A160-E1-1-125-FF	55
9515M-FTACT22	591	95534012	232	9701C-VWSTNST12	602	A160-E1-1-16-FF	55
9518C-HSEAORT11	590	95534016	232	9701C-VWSTNST21	602	A160-E1-1-20-FF	55
9518C-HSEAORT12	590	95534020	232	9701C-VWSTNST22	602	A160-E1-1-25-FF	55
9518C-HSEAORT51	590	95534025	232	9701C-VWSTNST31	602	A160-E1-1-32-FF	55
9518C-HSEAORT52	590	95534031	232	9701C-VWSTNST32	602	A160-E1-1-40-FF	55
9518C-HSEAORT71	590	95534040	232	9701C-VWSTNST41	602	A160-E1-1-50-FF	55
9518C-HSEAORT72	590	95534050	232	9701C-VWSTNST42	602	A160-E1-1-63-FF	55
9518C-HSERT31	590	95534063	232	9701C-VWSTNST51	602	A160-E1-1-80-FF	55
9518C-HSERT32	590	95534080	232	9701C-VWSTNST52	602	A160-E1-3-100-TF	56
9518C-HSERT51	590	95534100	232	9701M-VWSDRT30	611	A160-E1-3-125-TF	56
9518C-HSERT52	590	95534120	232	9701M-VWSDRT31	611	A160-E1-3-160-TF	56
9521M-VPRT10	612	95534160	232	9701M-VWSDRT32	611	A160-E1-3-25-TF	56
9521M-VPRT11	612	95534200	232	9701M-VWSDT10	603	A160-E1-3-40-TF	56
9521M-VPRT12	612	95534250	232	9701M-VWSDT11	603	A160-E1-3-63-TF	56
9521M-VPRT20	612	95534320	232	9701M-VWSDT12	603	A160-E1-3-80-TF	56
9521M-VPRT21	612	95733012	230	9701M-VWSDT20	603	A160-E1-4-100-TF	59
9521M-VPRT22	612	95733016	230	9701M-VWSDT21	603	A160-E1-4-125-TF	59
9521M-VPRT30	612	95733020	230	9701M-VWSDT22	603	A160-E1-4-160-TF	59
9521M-VPRT31	612	95733025	230	9701M-VWSDT30	603	A160-E1-4-25-TF	59
9521M-VPRT32	612	95733031	230	9701M-VWSDT31	603	A160-E1-4-40-TF	59
9521M-VPRT40	612	95733040	230	9701M-VWSDT32	603	A160-E1-4-63-TF	59
9521M-VPRT41	612	95733050	230	9701M-VWSDT40	603	A160-E1-4-80-TF	59
9521M-VPRT42	612	95733063	230	9701M-VWSDT41	603	A160-F1-3-100-TF	56
9521M-VPRT50	613	95733080	230	9701M-VWSDT42	603	A160-F1-3-125-TF	56
9521M-VPRT51	613	95733100	230	9701M-VWSSPT10	603	A160-F1-3-160-TF	56
9521M-VPRT52	613	95733120	230	9701M-VWSSPT11	603	A160-F1-3-25-TF	56
9521M-VPT10	612	95733160	230	9701M-VWSSPT12	603	A160-F1-3-40-TF	56
9521M-VPT11	612	95733200	230	9701M-VWSSPT20	603	A160-F1-3-63-TF	56
9521M-VPT12	612	95733250	230	9701M-VWSSPT21	603	A160-F1-3-80-TF	56
95233012	228	95733320	230	9701M-VWSSPT22	603	A160-F1-4-100-TF	59
95233016	228	95734012	230	9701M-VWSSPT30	601	A160-F1-4-125-TF	59
95233020	228	95734016	230	9701M-VWSSPT31	601	A160-F1-4-160-TF	59
95233025	228	95734020	230	9701M-VWSSPT32	601	A160-F1-4-25-TF	59
95233031	228	95734025	230	9701M-VWSTNMRT10	600	A160-F1-4-40-TF	59
95233040	228	95734031	230	9701M-VWSTNMRT11	600	A160-F1-4-63-TF	59
95233050	228	95734040	230	9701M-VWSTNMRT12	600	A160-F1-4-80-TF	59
95233063	228	95734050	230	9701M-VWSTNMT10	604	A160D14160NN	61
95233080	228	95734063	230	9701M-VWSTNMT11	604	A2406NJ-OC-B	562
95233100	228	95734080	230	9701M-VWSTNMT12	604	A2415NJ-DY	562
95233120	228	95734100	230	9701M-VWSTNMT20	604	A2419NJ-DP	562
95233160	228	95734120	230	9701M-VWSTNMT21	604	A250-E-3-100-TM	61
95233200	228	95734160	230	9701M-VWSTNMT22	604	A250-E-3-125-TM	61
95233250	228	95734200	230	9701M-VWSTNMT30	604	A250-E-3-160-TM	61
95233320	228	95734250	230	9701M-VWSTNMT31	604	A250-E-3-200-TM	61
95234012	228	95734320	230	9701M-VWSTNMT32	604	A250-E-3-250-TM	61
95234016	228	95792001	235	9701M-VWSTNMT40	604	A250-E-4-100-TM	64
95234020	228	95990003	236	9701M-VWSTNMT41	604	A250-E-4-125-TM	64
95234025	228	95992010	235	9701M-VWSTNMT42	604	A250-E-4-160-TM	64
95234031	228	95992020	235	9701M-VWSTNMT50	604	A250-E-4-200-TM	64
95234040	228	95994001	235	9701M-VWSTNMT51	604	A250-E-4-250-TM	64
95234050	228	96.02	766	9701M-VWSTNMT52	604	A250-F-3-160-TM	61
95234063	228	96.04	766	9701M-VWSTNST10	602	A250-F-3-200-TM	61
95234080	228	97.01	764	9701M-VWSTNST11	602	A250-F-3-250-TM	61
95234100	228	97.02	764	9701M-VWSTNST12	602	A250-F-4-160-TM	64
95234120	228	9701C-VWSDRT31	611	9701M-VWSTNST20	602	A250-F-4-200-TM	64
95234160	228	9701C-VWSDRT32	611	9701M-VWSTNST21	602	A250-F-4-250-TM	64
						A25025-OA	562

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
A							
A2504S3-O	563	ALN 081806	877	ARC2203HVSTD	112	B1000-H-3-1000-BE	82
A2506NJ-OC	562	ALN 082506	877	ARC2203VHSTD	112	B1000-H-3-1000-SE	82
A2506NJ3-O	563	ALN 121208	877	ARC2203VVSTD	112	B1000-H-3-1000-SX	83
A2507NP-DP	562	ALN 122208	877	ARC3323FFSTD	112	B1000-H-4-1000-BE	83
A250D3250NN	64	ALN 161609	877	ARC3323HHSTD	112	B1000-H-4-1000-SE	83
A2512NJ3-DP	563	ALN 162609	877	ARC3323HVSTD	112	B1000-H-4-1000-SX	83
A5017NJ3-DP	563	ALN 233318	877	ARC3323VHSTD	112	B1000-N-3-1000-BE	82
A5019NJ-DP	563	ALT 561 CL001	892	ARC3323VVSTD	112	B1000-N-3-1000-SE	82
A6BM-115AC	944	ALT 562	892	ARC4403VVSTD	112	B1000-N-3-1000-SX	82
A6BM-230AC	944	ALT560	892	ARCA 203015	883	B1000-N-4-1000-BE	83
A6BM-24DC	944	ALT561	892	ARCA 302015	883	B1000-N-4-1000-SE	83
A6BM-24DCR	944	AMB12-A	421	ARCA 304015	883	B1000-N-4-1000-SX	83
AB 081206	872	AMB18-A	421	ARCA 304021	883	B1000D31000NN	83
AB 121609	872	AMB30-A	421	ARCA 403015	883	B1000D41000NN	83
AB 162509	872	AMG 210	892	ARCA 403021	883	B11	744
ABLPTPA	619	AMG 300	892	ARCA 405021	883	B12	744
ABLPTPN	619	AMG 400	892	ARCA 406021	883	B1250-H-3-1250-BE	84
ABLPTSA	619	AN-X2-AB-DHRIO	554	ARCA 504021	883	B1250-H-4-1250-BE	84
ABLPTSN	619	AN-X2-GENI	554	ARCA 507030	883	B1250-HL-3-1250-BE	84
ABS 191913 G	873	AN-X2-MOD	554	ARCA 604021	883	B1250-HL-4-1250-BE	85
ABS 191913 T	874	AN-X2-SQD	554	ARCA 608030	883	B1250-N-3-1250-BE	84
ABS 191918 G	873	ANT4GMAG	552	ARCA 705030	883	B1250-N-4-1250-BE	84
ABS 281913 G	873	ANT4GROOF	552	ARCA 806030	883	B1250D31250NN	84
ABS 281913 T	874	ANTLTE2F	552	ARCL0GIX-CS-ML	156	B1250D31250NNCI	84
ABS 281918 G	873	ANTLTMULTIPATCH	552	ARCL0LS10M	158	B1250D31250NNRC	84
ABS 282813 G	873	APEX Gearbox	639	ARCLOPS	158	B1250D31250NNRCCI	84
ABS 282818 G	873	AR234ACBLIFTLUGS	113	ARCLORS5I3O24VDCPLP	157	B1250D41250NN	85
ABS 381913 G	873	AR23SHUTPADLOCK	113	ARCLORS5I3O24VDCPLS	157	B1250D41250NNCI	85
ABS 381918 G	873	AR2INTPOLEBAR3P	112	ARCL0SS2I1O24VDCPS	157	B1250D41250NNRC	85
ABS 382813 G	873	AR2INTPOLEBAR4P	112	ARDOORCOVERIP55	113	B1250D41250NNRCCI	85
ABS 382818G	873	AR3INTPOLEBAR3P	112	ARF 03021R5	893	B1250H31250BECI	84
ABS 562813 G	873	AR3INTPOLEBAR4P	112	ARF 04021R5	893	B1250H31250BERC	84
ABS 563818 G	873	AR4INTPOLEBAR3P	112	ARF 04030R5	893	B1250H31250BERCCI	84
ABS 563818G	873	AR4INTPOLEBAR4P	112	ARF 06021R5	893	B1250H41250BECI	84
ABS 563818 G	873	AR4SHUTPADLOCK	113	ARF 06030R5	893	B1250H41250BERC	84
AC 12 320 BTP	913	AR6ACBLIFTLUGS	113	ARF 08030R5	893	B1250H41250BERCCI	84
AC 17 320 BTP	913	AR6INTPOLEBAR3P	112	ARF 08040R5	893	B1250HL31250BECI	84
AC03025R5	892	AR6INTPOLEBAR4P	112	ASR0302015-316	895	B1250HL31250BERC	84
AC04030R5	892	AR6SHUTPADLOCK3P	113	ASR0362415-316	895	B1250HL41250BECI	85
AC05040R5	892	AR6SHUTPADLOCK4P	113	ASR0403015-316	895	B1250HL41250BERC	85
AC06040R5	892	ARACBTRUCK	113	ASR0403021-316	895	B1250N31250BECI	84
AC06060R5	892	ARAGR21BMANUAL	113	ASR0404021-316	895	B1250N31250BERC	84
AC08060R5	892	ARB2123MSTD	109	ASR0406021-316	895	B1250N31250BERCCI	84
ACA KPD	919	ARB2123NAMSTD	110	ASR0504021-316	895	B1250N41250BECI	84
ACC-CBL-USB-RS485	155	ARB2123NASTD	110	ASR0604021-316	895	B1250N41250BERC	84
ACC-CONN-RING-0.375IN	155	ARB2123STD	109	ASR0606021-316	895	B1250N41250BERCCI	84
ACC-CONN-RING-0.5IN	155	ARB212BE3FVW	108	ASR0606030-316	895	B160-E3-1-100-FF	56
ACR1252U	792	ARB2163MSTD	109	ASR0606021-316	895	B160-E3-1-125-FF	56
ADCS04030-316	896	ARB2163NAMSTD	110	ASR0806030-316	895	B160-E3-1-16-FF	56
ADCS04060-316	896	ARB2163NASTD	110	ASR0808030-316	895	B160-E3-1-160-FF	56
ADCS05040-316	896	ARB2163STD	109	ASR1008030-316	895	B160-E3-1-20-FF	56
ADCS06040-316	896	ARB216BE3FVW	108	ASR1208030-316	895	B160-E3-1-25-FF	56
ADCS06060-316	896	ARB2203MSTD	109	ASR1208040-316	895	B160-E3-1-32-FF	56
ADCS10080-316	896	ARB2203NAMSTD	110	ASR1408040-316	895	B160-E3-1-40-FF	56
ADI04030R5	891	ARB2203NASTD	110	ASSMRTS4QR3	552	B160-E3-1-50-FF	56
ADI04040R5	891	ARB2203STD	109	ASSMRTS4T	552	B160-E3-1-63-FF	56
ADI05040R5	891	ARB220BE3FVW	108	ASSMRTS4TUSB	552	B160-E3-1-80-FF	56
ADI06040R5	891	ARB3253MSTD	109	ASST031-316	896	B160-P3-3-100-TM	58
ADI06060R5	891	ARB3253NAMSTD	110	ASST032-316	896	B160-P3-3-125-TM	58
ADI07050R5	891	ARB3253NASTD	110	ASST042-316	896	B160-P3-3-160-TM	58
ADI08060R5	891	ARB3253STD	109	ASST062-316	896	B160-P3-3-20-TM	58
ADI10060R5	891	ARB325BE3FVW	108	ASST063-316	896	B160-P3-3-32-TM	58
ADI10080R5	891	ARB3323MSTD	109	ASST083-316	896	B160-P3-3-50-TM	58
ADI12060R5	891	ARB3323NAMSTD	110	ASST084-316	896	B160-P3-3-63-TM	58
ADI12080R5	891	ARB3323NASTD	110	ATYSC55CIP	234	B160-P3-4-100-TM	61
ADO202	893	ARB3323STD	109	ATYSC55CIPACB	234	B160-P3-4-125-TM	61
ADR1201240-316	895	ARB332BE3FVW	108	AVA FAGH 10	913	B160-P3-4-160-TM	61
ADSW01	894	ARB4403MSTD	109	AVA FAGH 15	913	B160-P3-4-20-TM	61
ADT04030R5	891	ARB4403NAMSTD	110	AVA FAGH 20	913	B160-P3-4-32-TM	61
ADT06050R5	891	ARB4403NASTD	110	AVA FAGH 25	913	B160-P3-4-50-TM	61
ADT06060R5	891	ARB4403STD	109	AVA FAGH 30	913	B160-P3-4-63-TM	61
ADT12080R5	891	ARBC212BE3WDVV	108	AVA FAGS 10	912	B160-R3-3-100-TM	58
ALI 503	892	ARBC216BE3WDVV	108	AVA FAGS 15	912	B160-R3-3-125-TM	58
ALI 505	892	ARBC220BE3WDVV	108	AVA FAGS 20	912	B160-R3-3-160-TM	58
ALI 524	892	ARBC325BE3WDVV	108	AVA FAGS 25	912	B160-R3-3-20-TM	58
ALI 525	892	ARBC332BE3WDVV	108	AVA FAGS 30	912	B160-R3-3-32-TM	58
ALL503N	893	ARC2123FFSTD	112	AW41	892	B160-R3-3-50-TM	58
ALLS 316	896	ARC2123HHSTD	112	AWHD050	898	B160-R3-3-63-TM	58
ALLS503N	893	ARC2123HVSTD	112	AWHD300	898	B160-R3-4-100-TM	61
ALN 060605	877	ARC2123VHSTD	112	AWS41-316	879	B160-R3-4-125-TM	61
ALN 061005	877	ARC2123VVSTD	112	AZ 15/16 B6	961	B160-R3-4-160-TM	61
ALN 080806	877	ARC2203FFSTD	112	AZ 15/16-B1 2177	961	B160-R3-4-20-TM	61
ALN 081306	877	ARC2203HHSTD	112	B10	744	B160-R3-4-32-TM	61

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
B		B400R3250SE	69	BA15D-WHT-LED-130V	745	BPP 30	878
B160-R3-4-50-TM	61	B400R3250SX	69	BA15D-WHT-LED-240V	745	BS20E2033	237
B160-R3-4-63-TM	61	B400R3400SE	69	BA15D-WHT-LED-24V	745	BS20E2034	237
B1600-HL-3-1600-BE	85	B400R3400SX	69	BA9S-BLA24VAC	700	BS20E2043	237
B1600-HL-4-1600-BE	86	B400R4250SE	72	BA9S-GL-A-240VAC	700	BS20E2044	237
B1600-N-3-1600-BE	85	B400R4250SX	72	BA9S-GL12VACDC	700	BS25E2533	237
B1600-N-4-1600-BE	86	B400R4400SE	72	BA9S-GL130VACDC	700	BS25E2534	237
B1600D31600NN	86	B400R4400SX	72	BA9S-GL24VAC/DC	700	BS25E2543	237
B1600D31600NNCI	86	B45	744	BA9S-GL48VACDC	700	BS25E2544	237
B1600D31600NNRC	86	B46	744	BA9S-RL-A-240VAC	700	BSE-PCPRX-SNR	571
B1600D31600NNRCCI	86	B800-F-3-630-TM	77	BA9S-RL130VACDC	700	BSITEMANABU	285
B1600D41600NN	86	B800-F-3-800-TM	77	BA9S-RL24VACDC	700	BSITEMANAU	285
B1600D41600NNCI	86	B800-F-4-800-TM	80	BA9S-RL48VACDC	700	BTSB1000D1000NN33	247
B1600D41600NNRC	86	B800-G-3-630-BE	78	BA9S-WL-A-240VAC	700	BTSB1000D1000NN44	247
B1600D41600NNRCCI	86	B800-G-3-630-TM	78	BA9S-WL12VACDC	700	BTSB1000H1000BE33	247
B1600HL31600BECI	85	B800-G-3-800-BE	78	BA9S-WL130VACDC	700	BTSB1000H1000BE44	247
B1600HL31600BEG	85	B800-G-3-800-SE	78	BA9S-WL24VACDC	700	BTSB1000H1000SE33	247
B1600HL31600BEGCI	85	B800-G-3-800-SX	79	BA9S-WL48VACDC	700	BTSB1000H1000SE44	247
B1600HL31600BEGRC	85	B800-G-3-800-TM	78	BA9S-YL-A-240VAC	700	BTSB1000H1000SX33	247
B1600HL31600BEGRCICI	85	B800-G-4-630-BE	81	BA9S-YL130VACDC	700	BTSB1000H1000SX44	247
B1600HL31600BERC	85	B800-G-4-630-TM	81	BA9S-YL24VAC/DC	700	BTSB1000N1000BE33	247
B1600HL31600BERCCI	85	B800-G-4-800-BE	81	BA9S-YL48VAC/DC	700	BTSB1000N1000BE44	247
B1600HL31600BERCCI	85	B800-G-4-800-SE	81	BA9SRL12VACDC	700	BTSB1000N1000SE33	247
B1600HL31600BERCI	86	B800-G-4-800-SX	81	BC125AL10ACNNNARDN	966	BTSB1000N1000SE44	247
B1600HL41600BEG	86	B800-G-4-800-TM	81	BC125AL10DCNNNARDN	966	BTSB1000N1000SX33	247
B1600HL41600BEGCI	86	B800-H-3-630-BE	78	BC125BL10ACNNNARDN	966	BTSB1000N1000SX44	247
B1600HL41600BEGRC	86	B800-H-3-630-TM	77	BC125BL10DCNNNARDN	966	BTSB1250D1250NN33	248
B1600HL41600BEGRCICI	86	B800-H-3-800-BE	78	BC125CL10ACNNNARDN	966	BTSB1250D1250NN44	248
B1600HL41600BERC	86	B800-H-3-800-SE	78	BC125CL10DCNNNARDN	966	BTSB1250H1250BE33	248
B1600HL41600BERCCI	86	B800-H-3-800-SX	78	BC125GL10ACNNNARDN	966	BTSB1250H1250BE44	248
B1600N31600BECI	85	B800-H-3-800-TM	77	BC125GL10DCNNNARDN	966	BTSB1250H1250SE33	248
B1600N31600BEGCI	85	B800-H-4-630-BE	80	BC125RL10ACNNNARDN	966	BTSB1250H1250SE44	248
B1600N31600BEGRC	85	B800-H-4-630-TM	80	BC125RL10DCNNNARDN	966	BTSB1250N1250BE33	248
B1600N31600BEGRCICI	85	B800-H-4-800-BE	80	BC150AL10ACNNNARDN	965	BTSB1250N1250BE44	248
B1600N31600BERC	85	B800-H-4-800-SE	81	BC150AL10DCNNNARDN	966	BTSB1600D1600NN33	248
B1600N31600BERCCI	85	B800-H-4-800-SX	81	BC150BL10ACNNNARDN	965	BTSB1600D1600NN44	248
B1600N41600BECI	86	B800-H-4-800-TM	80	BC150BL10DCNNNARDN	966	BTSB1600HL1600BE33	248
B1600N41600BEGCI	86	B800-N-3-630-BE	77	BC150CL10ACNNNARDN	965	BTSB1600HL1600BE44	248
B1600N41600BEGRC	86	B800-N-3-630-TM	77	BC150CL10DCNNNARDN	966	BTSB1600N1600BE33	248
B1600N41600BEGRCICI	86	B800-N-3-800-BE	77	BC150GL10ACNNNARDN	965	BTSB1600N1600BE44	248
B1600N41600BERC	86	B800-N-3-800-SE	77	BC150GL10DCNNNARDN	966	BTSB800D800NN33	247
B1600N41600BERCCI	86	B800-N-3-800-SX	77	BC150RL10ACNNNARDN	965	BTSB800D800NN44	247
B17	744	B800-N-3-800-TM	77	BC150RL10DCNNNARDN	966	BTSB800F630TM33	245
B18	744	B800-N-4-630-BE	80	BC6 WP	744	BTSB800F630TM44	246
B18363	952	B800-N-4-630-TM	80	BC6YELLOW	744	BTSB800F800TM33	245
B2	744	B800-N-4-800-BE	80	BC7	744	BTSB800F800TM44	246
B21	744	B800-N-4-800-SE	80	BCO12503PMB	222	BTSB800G630BE33	245
B250-P-3-250-BE	63	B800-N-4-800-SX	80	BCO12504PMB	223	BTSB800G630BE44	246
B250-P-3-250-TM	63	B800-N-4-800-TM	80	BCO1253PMB	222	BTSB800G630TM33	245
B250-P-4-250-BE	66	B800-P-3-630-BE	79	BCO1254PMB	223	BTSB800G630TM44	246
B250-P-4-250-TM	66	B800-P-3-800-BE	79	BCO16003PMB	222	BTSB800G800BE33	245
B250-R-3-250-TM	64	B800-P-3-800-SE	79	BCO16004PMB	223	BTSB800G800BE44	246
B250P3125BE	63	B800-P-3-800-SX	79	BCO1603PMB	222	BTSB800G800SE33	246
B250P3125SE	63	B800-P-4-630-BE	81	BCO2003PMB	222	BTSB800G800SE44	246
B250P3250SE	63	B800-P-4-800-BE	81	BCO2004PMB	223	BTSB800G800SX33	246
B250P340BE	63	B800-P-4-800-SE	81	BCO2503PMB	222	BTSB800G800SX44	246
B250P340SE	63	B800-P-4-800-SX	81	BCO2504PMB	223	BTSB800G800TM33	245
B250P4125BE	66	B800-R-3-800-BE	79	BCO4003PMB	222	BTSB800G800TM44	246
B250P4125SE	66	B800-R-3-800-SE	79	BCO6303PMB	222	BTSB800H630BE33	245
B250P4250SE	66	B800-R-3-800-SX	80	BCO6304PMB	223	BTSB800H630BE44	246
B250P440BE	66	B800-R-4-800-BE	81	BCO8003PMB	222	BTSB800H630BEG33	246
B250P440SE	66	B800-R-4-800-SX	82	BCO8004PMB	223	BTSB800H630BEG44	246
B250R4250TM	66	B800D3800NN	80	BDAINVOLU	283	BTSB800H630TM33	245
B26	744	B800D4800NN	82	BDARE13AU	284	BTSB800H630TM44	246
B27	744	B800H3630BEG	78	BDBINCON4U	283	BTSB800H800BE33	245
B28	744	B800H3800BEG	78	BDBINCON8U	283	BTSB800H800BE44	246
B29	744	B800H4630BEG	80	BDBIOCP8AU	284	BTSB800H800BEG33	246
B400-P-3-250-BE	69	B800H4800BEG	80	BDBIOCP8U	284	BTSB800H800BEG44	246
B400-P-3-400-BE	69	B800P3630BEG	79	BFT7035	905	BTSB800H800SE33	246
B400-P-4-250-BE	71	B800P3630SX	79	BG01	904	BTSB800H800SE44	246
B400-P-4-400-BE	71	B800P3800BEG	79	BM3H	322	BTSB800H800SX33	246
B400-R-3-250-BE	69	B800P4630BEG	81	BMOH-MI	322	BTSB800H800SX44	246
B400-R-3-400-BE	69	B800P4630SX	81	BMP 1515	878	BTSB800H800TM33	245
B400-R-4-250-BE	72	B800P4800BEG	81	BMP 1530	878	BTSB800H800TM44	246
B400-R-4-400-BE	72	B800R3630BE	79	BMP 2020	878	BTSB800N630BE33	245
B400P3250SE	69	B800R4630BE	81	BMP 2030	878	BTSB800N630BE44	246
B400P3250SX	69	B91	744	BMP 2040	878	BTSB800N630TM33	245
B400P3400SE	69	BA15D-GRN-LED-48V	745	BMP 3030	878	BTSB800N630TM44	246
B400P3400SX	69	BA15D-GRNLED-24V	745	BMP 3040	878	BTSB800N800BE33	245
B400P4250SE	71	BA15D-I-240-7W	744	BMP 3050	878	BTSB800N800BE44	246
B400P4250SX	72	BA15D-I-24V-5W	744	BMP 4040	878	BTSB800N800SE33	246
B400P4400SE	71	BA15D-RED-LED-24V	745	BPP 15	878	BTSB800N800SE44	246
B400P4400SX	72	BA15D-RED-LED-48V	745	BPP 20	878	BTSB800N800SX33	246

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
B		C					
BTSB800N800Sx44	246	BTSP630H630BE44	245	CA7-9-01-240VAC	300	CA9-860-EI-11-120W	304
BTSB800N800TM33	245	BTSP630H630SE33	245	CA7-9-10-240VAC	300	CA9-CL146	309
BTSB800N800TM44	246	BTSP630H630SE44	245	CA7-9-M-22-240VAC	301	CA9-M1-00	309
BTSP160D160NN33	242	BTSP630H630TM33	244	CA7-9-M-31-240VAC	301	CA9-M2-00	309
BTSP160D160NN44	242	BTSP630H630TM44	245	CA7-9-M-40-240VAC	301	CA9-M4-00	309
BTSP160F160BE33	242	BTSP630N630BE33	244	CA7-90-M-22-240VAC	301	CA9-M5-00	309
BTSP160F160BE44	242	BTSP630N630BE44	245	CA7-90-M-40-240VAC	301	CA9-S1-11	308
BTSP160F160SE33	242	BTSP630N630SE33	245	CA7-90D-M-22-24VDC	301	CA9-S1-B01	308
BTSP160F160SE44	242	BTSP630N630SE44	245	CA7-90D-M-40-24VDC	301	CA9-S1-B10	308
BTSP160F160TM33	242	BTSP630N630TM33	244	CA7-97-00-240VAC	300	CA9-S2-11	308
BTSP160F160TM44	242	BTSP630N630TM44	245	CA7-97D-00-24VDC	301	CA9-S3-11	308
BTSP160H160BE33	242	BTSP630S630BE33	244	CA7-9E-01-24VDC	301	CA9-S4-11	308
BTSP160H160BE44	242	BTSP630S630BE44	245	CA7-9E-10-24VDC	301	CA9-TC146	309
BTSP160H160SE33	242	BTSP630S630SE33	245	CA7-9E-M-22-24VDC	301	CA9-TC205	309
BTSP160H160SE44	242	BTSP630S630SE44	245	CA7-9E-M-40-24VDC	301	CA9-TL205	309
BTSP160H160TM33	242	BTSP630S630TM33	244	CA7-P-B23	308	CA9-TS146L	309
BTSP160H160TM44	242	BTSP630S630TM44	245	CA7-P-K37	308	CA9-TS205C	309
BTSP160N160BE33	242			CA7-P-K43	308	CA9-TS205L	309
BTSP160N160BE44	242	C19M10-40-002	563	CA7-P-K85	308	CA9-TS370C	309
BTSP160N160SE33	242	C19M10-40-005	563	CA7-P-KL23	308	CA9-TS460C	309
BTSP160N160SE44	242	C19M10-40-020	563	CA7-P-KN23	308	CA9-TS750C	309
BTSP160N160TM33	242	C19M10-80-002	563	CA7-PA-01	307	CA9-TS750L	309
BTSP160N160TM44	242	C19M10-80-005	563	CA7-PA-02	307	CAB 1008030	886
BTSP250D250NN33	243	C40M40-40-005	564	CA7-PA-10	307	CAB 302017	886
BTSP250D250NN44	243	C40M40-40-010	564	CA7-PA-11	307	CAB 403017	886
BTSP250F250BE33	243	C40M40-40-015	564	CA7-PA-20	307	CAB 504023	886
BTSP250F250BE44	243	C40M40-40-020	564	CA7-PA-L11	307	CAB 604023	886
BTSP250F250SE33	243	C40M40-40-025	564	CA7-PV-02	306	CAB 705027	886
BTSP250F250SE44	243	CA-LE2-12-1781	656	CA7-PV-11	306	CAB 806030	886
BTSP250F250TM33	242	CA-LE2-12-1782	656	CA7-PV-20	306	CAB ABS 151511 G	885
BTSP250F250TM44	243	CA-LE2-12-2501	657	CA7-PV-22	306	CAB ABS 302018 G 3B	885
BTSP250H250BE33	243	CA-LE2-12-2502	657	CA7-PV-S11	306	CAB ABS 303018 G 3B	885
BTSP250H250BE44	243	CA-LE2-12-3501	657	CA7-PV-S22	306	CAB ABS 403018 G 3B	885
BTSP250H250SE33	243	CA-LE2-12-3502	657	CA8-12-01-240VAC	299	CAB ABS 504020 G 3B	885
BTSP250H250SE44	243	CA-LE2-12-3502	657	CA8-12-10-240VAC	299	CAB PC 302018 G3B	885
BTSP250H250TM33	242	CA-LE2-12-8751	657	CA8-12-M-22-240VAC	299	CAB PC 302018 T3B	885
BTSP250H250TM44	243	CA18CAF08PAM1	419	CA8-12-M-31-240VAC	299	CAB PC 303018 G3B	885
BTSP250N250BE33	243	CA18CLF08TCM6	419	CA8-12-M-40-240VAC	299	CAB PC 303018 T3B	885
BTSP250N250BE44	243	CA7-12-01-240VAC	300	CA8-12C-01-24VDCD	299	CAB PC 403018 G3B	885
BTSP250N250SE33	243	CA7-12-10-240VAC	300	CA8-12C-10-24VDCD	299	CAB PC 403018 T3B	885
BTSP250N250SE44	243	CA7-12-M-22-240VAC	301	CA8-12C-M-22-24VDC	300	CAB PC 504020 G3B	885
BTSP250N250TM33	242	CA7-12-M-31-240VAC	301	CA8-12C-M-31-24VDC	300	CAB PC 504020 T3B	885
BTSP250N250TM44	243	CA7-12-M-40-240VAC	301	CA8-12C-M-40-24VDC	300	CAB PC 604022 G3B	885
BTSP400D400NN33	244	CA7-12E-01-24VDC	301	CA8-5-01-240VAC	299	CABCOAXEXT3	552
BTSP400D400NN44	244	CA7-12E-10-24VDC	301	CA8-5-10-240VAC	299	CABCOAXEXT7	552
BTSP400E400TM33	243	CA7-12E-M-22-24VDC	301	CA8-5C-01-24VDCD	299	CAC7-16-110VAC	308
BTSP400E400TM44	244	CA7-12E-M-40-24VDC	301	CA8-5C-10-24VDCD	299	CAC7-16-240VAC	308
BTSP400F400BE33	243	CA7-16-01-240VAC	300	CA8-9-01-240VAC	299	CAC7-16-24VAC	308
BTSP400F400BE44	244	CA7-16-10-240VAC	300	CA8-9-10-240VAC	299	CAC7-16-415VAC	308
BTSP400F400SE33	244	CA7-16-M-22-240VAC	301	CA8-9-M-22-240VAC	299	CAC7-37-110VAC	308
BTSP400F400SE44	244	CA7-16-M-31-240VAC	301	CA8-9-M-31-240VAC	299	CAC7-37-240VAC	308
BTSP400F400TM33	243	CA7-16-M-40-240VAC	301	CA8-9-M-40-240VAC	299	CAC7-37-24VAC	308
BTSP400F400TM44	244	CA7-16E-01-24VDC	301	CA8-9C-01-24VDCD	299	CAC7-37-415VAC	308
BTSP400H400BE33	243	CA7-16E-10-24VDC	301	CA8-9C-10-24VDCD	299	CAC7-43-110VAC	308
BTSP400H400BE44	244	CA7-16E-M-22-24VDC	301	CA8-9C-M-22-24VDC	300	CAC7-43-240VAC	308
BTSP400H400SE33	244	CA7-16E-M-40-24VDC	301	CA8-9C-M-31-24VDC	300	CAC7-43-415VAC	308
BTSP400H400SE44	244	CA7-23-01-240VAC	300	CA8-9C-M-40-24VDC	300	CAC7-85-110VAC	308
BTSP400H400TM33	243	CA7-23-10-240VAC	300	CA8-P-02	306	CAC7-85-240VAC	308
BTSP400H400TM44	244	CA7-23-M-22-240VAC	301	CA8-P-04	306	CAC7-85-24VAC	308
BTSP400N400BE33	243	CA7-23-M-31-240VAC	301	CA8-P-11	306	CAC7-85-415VAC	308
BTSP400N400BE44	244	CA7-23-M-40-240VAC	301	CA8-P-20	306	CAS7-12-14C-240VAC	305
BTSP400N400SE33	244	CA7-23E-01-24VDC	301	CA8-P-22	306	CAS7-12E-14C-24VDC	305
BTSP400N400SE44	244	CA7-23E-10-24VDC	301	CA8-P-31	306	CAS7-16-14C-240VAC	305
BTSP400N400TM33	243	CA7-23E-M-22-24VDC	301	CA8-P-40	306	CAS7-16E-14C-24VDC	305
BTSP400N400TM44	244	CA7-23E-M-40-24VDC	301	CA9-1060-EI-11-120W	304	CAS7-23-14C-240VAC	305
BTSP400S400BE33	243	CA7-30-00-240VAC	300	CA9-116-11-120W	303	CAS7-23E-14C-24VDC	305
BTSP400S400BE44	244	CA7-30E-00-24VDC	301	CA9-116-EI-11-120W	304	CAS7-30-14C-240VAC	305
BTSP400S400SE33	244	CA7-37-00-240VAC	300	CA9-146-11-120W	303	CAS7-30E-14C-24VDC	305
BTSP400S400SE44	244	CA7-37E-00-24VDC	301	CA9-146-EI-11-120W	304	CAS7-37-14C-240VAC	305
BTSP400S400TM33	243	CA7-40-M-22-240VAC	301	CA9-190-11-120W	303	CAS7-37E-14C-24VDC	305
BTSP400S400TM44	244	CA7-40E-M-40-24VDC	301	CA9-190-EI-11-120W	304	CAS7-43E-14C-24VDC	305
BTSP630D630NN33	245	CA7-40E-M-22-24VDC	301	CA9-205-11-120W	303	CAS7-60-14C-240VAC	305
BTSP630D630NN44	245	CA7-43-00-240VAC	300	CA9-205-EI-11-120W	304	CAS7-60D-14C-24VDC	305
BTSP630E630TM33	244	CA7-43E-00-24VDC	301	CA9-265-11-120W	303	CAS7-72-14C-240VAC	305
BTSP630E630TM44	245	CA7-55-00-240VAC	300	CA9-265-EI-11-120W	304	CAS7-72D-14C-24VDC	305
BTSP630F630BE33	244	CA7-55E-00-24VDC	301	CA9-305-11-120W	303	CAS7-85-14C-240VAC	305
BTSP630F630BE44	245	CA7-60-00-240VAC	300	CA9-305-EI-11-120W	304	CAS7-85D-14C-24VDC	305
BTSP630F630SE33	245	CA7-60D-00-24VDC	301	CA9-370-11-120W	303	CAS7-9-14C-240VAC	305
BTSP630F630SE44	245	CA7-72-00-240VAC	300	CA9-370-EI-11-120W	304	CAS7-9E-14C-24VDC	305
BTSP630F630TM33	244	CA7-72D-00-24VDC	301	CA9-400-EI-11-120W	304	CAT7N-11P-240VAC	351
BTSP630F630TM44	245	CA7-85-00-240VAC	300	CA9-460-EI-11-120W	304	CAT7N-15P-240VAC	351
BTSP630H630BE33	244	CA7-85D-00-24VDC	301	CA9-580-EI-11-120W	304	CAT7N-15P-415VAC	351
				CA9-750-EI-11-120W	304	CAT7N-40MR	351

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
C							
CAT7N-5.5P-240VAC	351	CELBNC-72-A2	140	CEP7-1ERR	325	COEEN-24	122
CAT7N-5.5P-24VAC	351	CELBNC-84-A2	140	CEP7-ERID	325	COEEN-36	122
CAT7N-5.5P-415VAC	351	CELBNC-96-A2	140	CF10	440	COEEN-48	122
CAT7N-5.5PM-240VAC	351	CELBNG-24-A2	140	CF15	440	COEEN-60	122
CAT7N-5.5PM-415VAC	351	CELBNG-36-A2	140	CF20	440	COEEN-84	122
CAT7N-5.5R-240VAC	351	CELBNG-48-A2	140	CF5	440	COEFK-3MLG	122
CAT7N-5.5R-240VAC	351	CELBNG-60-A2	140	CGHD12	898	COEFK-4MLG	122
CAT7N-5.5R-415VAC	351	CELBNG-72-A2	140	CGHD16	898	COEFK-5MLG	122
CAT7N-7.5P-240VAC	351	CELBNG-84-A2	140	CGHD20	898	COEFK-6MLG	122
CAT7N-7.5P-24VAC	351	CELBNG-96-A2	140	CGHD25	898	COEGT-2M	122
CAT7N-7.5P-415VAC	351	CELDLR-3MS	139	CL100.100	812	COEGT-3M	122
CAT7N-7.5PM-240VAC	351	CELDLR-4MS	139	CL100.80	812	CONB14NF-S5W	831
CAT7N-7.5PM-415VAC	351	CELDLR-5MS	139	CL150.100	812	CONSMAFME	552
CAT7N-7.5R-240VAC	351	CELDLR-6MS	139	CL4	422	CONSMBFME	552
CAT7N-7.5R-415VAC	351	CELDLR-7MS	139	CL40.40	812	CONSMBFMERA	552
CAUT7-PW23	308	CELDLR-8MS	139	CL40.60	812	COSY131N4	550
CAUT7-PW37	308	CELDLR-9MS	139	CL40.80	812	COV100BOX	811
CAUT7-PW55	308	CELD5NB4	139	CL60.100	812	COV120BOX	811
CAUT7-PW85	308	CELEN24	140	CL60.40	812	COV150BOX	811
CAUT8-PW	306	CELEN36	140	CL60.60	812	COV25BOX	811
CAYT7-PW23	308	CELEN48	140	CL60.80	812	COV40BOX	811
CAYT7-PW37	308	CELEN60	140	CL80.100	812	COV60BOX	811
CAYT7-PW55	308	CELEN72	140	CL80.80	812	COV80BOX	811
CAYT7-PW72	308	CELEN84	140	CLD2EA1CM24	439	CPL-24-G	124
CB600	905	CELEN96	140	CLP2EA1C230	439	CPL-24-O	125
CBPA 064	909	CELEXT-LK1	137	CLP2EA1CM24	439	CPL-24M160-G	124
CBS ARCA 21	884	CELEXT-LK2	137	CLP4MA2A230	439	CPL-24M160-O	125
CBS ARCA 30	884	CELEXT-LKC	137	CLP4MA2AM24	439	CPL-36-G	124
CCE06	902	CELHC-RP21C60	139	CLPK 400	905	CPL-36-O	125
CCI6	902	CELHCR-P21A60	139	CLPK 500	905	CPL-36M160-G	124
CCJ06	903	CELHD-SSS9	138	CLPK 600	905	CPL-36M160-O	125
CCM04	902	CELHD-SSSC	138	CM7	307	CPL-36M250-G	124
CCS/Advanced	622	CELHDS-PB-E	138	CM7-02	307	CPL-36M250-O	125
CCS/Advanced-HB	622	CELHDS-PP-P	138	CM8	306	CPL-48-G	124
CCS/Interactive	622	CELHDS-PS-9	138	CMC101	193	CPL-48-O	125
CCS/Interactive-HB	622	CELHDS-PS-C	138	CMC101I	193	CPL-48M160-G	124
CCS/Standard	622	CELHDS-PS-K	138	CMC102	193	CPL-48M160-O	125
CCS/Standard-HB	622	CELHDS-ZB-E	138	CMC103	193	CPL-48M250-G	124
CE6DT1256	266	CELHDS-ZP-BN	138	CMC103I	193	CPL-48M250-O	125
CECEECMSG	122	CELHDS-ZP-P	138	CMC104	193	CPL-60-G	124
CECEECMSGA	122	CELHDS-ZS-9	138	CMR7-230VAC	366	CPL-60-O	125
CECEGPMS1LG	122	CELHDS-ZS-C	138	CMR7-24VDC	366	CPL-60M160-G	124
CECEGPPV5	122	CELHHC-S113	139	CMR7N-110VAC	327	CPL-60M160-O	125
CED16	814	CELHHC-ZBK3	139	CMR7N-240VAC	327	CPL-60M250-G	124
CED20	814	CELMCCB-3-100	138	CMR7N-24VAC	327	CPL-60M250-O	125
CED25	814	CELMCCB-3-160	138	CMR7N-24VDC	327	CPL-72-G	124
CED32	814	CELMCCB-3-200	138	CMS141	194	CPL-72-O	125
CED40	814	CELMCCB-3-63	138	CMS142	194	CPL-72M250-G	124
CED50	814	CELSURGEK1	138	CMS143	194	CPL-72M250-O	125
CEF1-AP-NEF	337	Centerline1500 SMC50	394	CMS221	194	CPL-84-G	124
CEL3160MK	138	CEP7-1BC8	326	CMS222	194	CPL-84-O	125
CEL3160MKGB	138	CEP7-1EEAB	325	CMS223	194	CPL-84M250-G	124
CEL3250MK	138	CEP7-1EEBB	325	CNM 615	905	CPL-84M250-O	125
CEL3250MKGB	138	CEP7-1EECB	325	COE-24-LG	121	CPL-96-G	124
CELAB-GBBK	141	CEP7-1EEDB	325	COE-24M160-LG	121	CPL-96-O	125
CELAC-MSA4	139	CEP7-1EEEB	325	COE-36-LG	121	CPL-96M250-G	124
CELAC-PA4	139	CEP7-1EEED	325	COE-36M160-LG	121	CPL-96M250-O	125
CELAELK1W	137	CEP7-1EEFD	325	COE-36M250-LG	121	CPL-EGGF	128
CELAELK2W	137	CEP7-1EEGE	325	COE-48-LG	121	CPL24MCCB160G	125
CELAG-MS05	138	CEP7-1EFAB	325	COE-48M160-LG	121	CPL24MCCB160O	125
CELAG-MS1	138	CEP7-1EFBB	325	COE-48M250-LG	121	CPL24MCCB200G	125
CELAG-MS2	138	CEP7-1EFGB	325	COE-60-LG	121	CPL24MCCB200O	126
CELAG-MS3	138	CEP7-1EFCP	325	COE-60M160-LG	121	CPL36MCCB160G	125
CELBEC-B4	139	CEP7-1EFDB	325	COE-60M250-LG	121	CPL36MCCB160O	125
CELBNC-12-B2	140	CEP7-1EFDP	325	COE-60MCCB160-LG	121	CPL36MCCB200G	125
CELBNC-12-C2	140	CEP7-1EFEB	325	COE-84-LG	121	CPL36MCCB200O	126
CELBNC-18-B2	140	CEP7-1EFED	325	COE-84M160-LG	121	CPL48MCCB160G	125
CELBNC-18-C2	140	CEP7-1EFEP	325	COE-84M250-LG	121	CPL48MCCB160O	125
CELBNC-24-A2	140	CEP7-1EFFD	325	COE-84MCCB160-LG	121	CPL48MCCB200G	125
CELBNC-24-B2	140	CEP7-1EFFP	325	COE24MCCB160LG	121	CPL48MCCB200O	126
CELBNC-24-C2	140	CEP7-1EFGE	325	COE36MCCB160LG	121	CPL60MCCB160G	125
CELBNC-30-B2	140	CEP7-1EFGP	325	COE36MCCB200LG	121	CPL60MCCB160O	125
CELBNC-30-C2	140	CEP7-1EGJ	325	COE48MCCB160LG	121	CPL60MCCB200G	125
CELBNC-36-A2	140	CEP7-1EKIT1	326	COE48MCCB200LG	121	CPL60MCCB200O	126
CELBNC-36-B2	140	CEP7-1EKIT2	326	COE60MCCB200LG	121	CPL72MCCB160G	125
CELBNC-36-C2	140	CEP7-1EMC	326	COE84MCCB200LG	121	CPL72MCCB160O	125
CELBNC-42-B2	140	CEP7-1EMRA	325	COEACC-21-LG	122	CPL72MCCB200G	125
CELBNC-42-C2	140	CEP7-1EMRD	325	COEACC-2M-ELG	122	CPL72MCCB200O	126
CELBNC-48-A2	140	CEP7-1EMRZ	325	COEACC-3M-ELG	122	CPL84MCCB160G	125
CELBNC-48-B2	140	CEP7-1EPB	326	COEACC-42-LG	122	CPL84MCCB160O	125
CELBNC-48-C2	140	CEP7-1EPD	326	COEACC-63-LG	122	CPL84MCCB200G	125
CELBNC-60-A2	140	CEP7-1EPE	326	COEAEGBMS	122	CPL84MCCB200O	126
		CEP7-1ERA	326	COEAEGBV	122	CPL96MCCB160G	125

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
C							
CPL96MCCB1600	125	CPLX-30-G	126	CPRACC-4ME-O	134	CPTCPSBLOCKPLUS120	149
CPL96MCCB200G	125	CPLX-48-G	126	CPRACC-5ME-O	134	CPTCPSBLOCKPLUS160	149
CPL96MCCB200O	126	CPLX-72-G	126	CPRACC-6ME-O	134	CPTCPSBLOCKPLUS200	149
CPLACC-24-G	127	CPLX-96-G	126	CPRACC-72-G	134	CPTCPSBLOCKPLUS240	149
CPLACC-24-O	128	CPR-24-G	131	CPRACC-72-O	134	CPTCPSNANOPLUS1P60	149
CPLACC-2M-O	128	CPR-24-O	132	CPRACC2MEG	134	CPTCPSNANOPLUS3P120	149
CPLACC-2ME-O	128	CPR-24-SS	133	CPRACC2MG	134	CPTCPSNANOPLUS3P160	149
CPLACC-3M-O	128	CPR-24-SSO	133	CPRACC2MO	134	CPTCPSNANOPLUS3P40	149
CPLACC-3ME-O	128	CPR-24M160-G	131	CPRACC3MEG	134	CPTCPSNANOPLUS3P60	149
CPLACC-48-G	127	CPR-24M160-O	132	CPRACC3MG	134	CPTCPSNANOPLUS3P80	149
CPLACC-48-O	128	CPR-24M250-G	132	CPRACC3MO	134	CPTCSF21-120IR	150
CPLACC-4ME-O	128	CPR-24M250-O	133	CPRACC4MEG	134	CPTCSF21-12IR	150
CPLACC-5ME-O	128	CPR-36-G	131	CPRACC5MEG	134	CPTCSF21-230IR	150
CPLACC-6ME-O	128	CPR-36-O	132	CPRACC6MEG	134	CPTCSF21-24IR	150
CPLACC-72-G	127	CPR-36-SS	133	CPRACC7MEG	134	CPTCSF21-48IR	150
CPLACC-72-O	128	CPR-36-SSO	133	CPRACC8MEG	134	CPTCSF21-60IR	150
CPLACC2MEG	128	CPR-36M160-G	131	CPRACC9MEG	134	CPTNETPRO1PPOE	151
CPLACC2MG	128	CPR-36M160-O	132	CPRAP-SGAL	135	CPTNETPROCG18P6	151
CPLACC3MEG	128	CPR-36M250-G	132	CPRAR-SOR	135	CPTPSM3-40/400IR	147
CPLACC3MG	128	CPR-36M250-O	133	CPRAR-SSG	135	CR 02701.0-00	915
CPLACC4MEG	128	CPR-48-G	131	CPRAR-SSS	135	CR10	440
CPLACC5MEG	128	CPR-48-O	132	CPRAR-SSSO	135	CR130510	915
CPLACC6MEG	128	CPR-48-SS	133	CPREGP-AL3	135	CR15	440
CPLACC7MEG	128	CPR-48-SSO	133	CPREGP-AL6	135	CR20	440
CPLACC8MEG	128	CPR-48M160-G	131	CPREGP-BK5	135	CR5	440
CPLACC9MEG	128	CPR-48M160-O	132	CPREGP-BR3	135	CRC7-280	307
CPLAP-SGAL	129	CPR-48M250-G	132	CPREGP-MS2OR	135	CRC7-48	307
CPLEGP-AL3	128	CPR-48M250-O	133	CPREGP-MS2SG	135	CRC8-280	306
CPLEGP-BK5	128	CPR-60-G	131	CPRH-1230-M400-G	132	CRD7-250V	307
CPLEGP-BR3	128	CPR-60-O	132	CPRH-1230-M400-O	133	CRD8-250	306
CPLEGP-MS1OR	128	CPR-60-SS	133	CPRH-1260-M400-G	132	CR17-E	307
CPLEGP-MS1SG	128	CPR-60-SSO	133	CPRH-1260-M400-O	133	CRV7-136	307
CPLIP52M3	129	CPR-60M160-G	131	CPRH-24-M400-G	132	CRV7-277	307
CPLIP52M4	129	CPR-60M160-O	132	CPRH-24-M400-O	133	CRV7-55	307
CPLIP52M5	129	CPR-60M250-G	132	CPRH-48-M400-G	132	CRZE7-180	307
CPLIP52M6	129	CPR-60M250-O	133	CPRH-48-M400-O	133	CRZE7-3	307
CPLIP52M7	129	CPR-72-G	131	CPRH-612-M400-G	132	CRZE7-30	307
CPLG-24-G	126	CPR-72-O	132	CPRH-612-M400-O	133	CRZY7-30	307
CPLG-36-G	126	CPR-72-SS	133	CPRH-636-M400-G	132	CS 06000.0-00	915
CPLG-48-G	126	CPR-72-SSO	133	CPRH-636-M400-O	133	CS 06010.0-00	915
CPLG-60-G	126	CPR-72M160-G	131	CPRH-72-M400-G	132	CS 06020.0-00	915
CPLG-72-G	126	CPR-72M160-O	132	CPRH-96-M400-G	132	CS 10256	875
CPLG-84-G	126	CPR-72M250-G	132	CPRH-96-M400-O	133	CS 10563	875
CPLG-96-G	126	CPR-72M250-O	133	CPSCHEDULECARD	140	CS7-04E-240VAC	311
CPLMD-1212M250-G	127	CPR-84-G	131	CPT-BNV30	150	CS7-22E-240VAC	311
CPLMD-1212M250-O	127	CPR-84-O	132	CPT-DIN-ADSL	150	CS7-31E-240VAC	311
CPLMD-1224M250-G	127	CPR-84-SS	133	CPT-DIN-12V-3	150	CS7-40E-240VAC	311
CPLMD-1224M250-O	127	CPR-84-SSO	133	CPT-DIN12V-8	150	CS7-PV-02	306
CPLMD-1818M250-G	127	CPR-84M250-G	132	CPT-DIN24V-3A	150	CS7-PV-04	306
CPLMD-1818M250-O	127	CPR-84M250-O	133	CPT-DIN24V-4G1	150	CS7-PV-11	306
CPLMD-1830M250-G	127	CPR-96-G	131	CPT-DIN24V-5N	150	CS7-PV-20	306
CPLMD-1830M250-O	127	CPR-96-O	132	CPT-DIN24V-8	150	CS7-PV-22	306
CPLMD-1842M250-G	127	CPR-96-SS	133	CPT-DIN24V-8	150	CS7-PV-31	306
CPLMD-1842M250-O	127	CPR-96-SSO	133	CPT-DIN485-2C	150	CS7-PV-40	306
CPLMD-2424M250-G	127	CPR-96M250-G	132	CPT-DIN485-3	150	CS7-PV-L22	306
CPLMD-2424M250-O	127	CPR-96M250-O	133	CPT-DIN6V-2C	150	CS7E-04E-24E	311
CPLMD-2448M250-G	127	CPR-EGGF	135	CPT-DM1-230-8A	148	CS7E-22E-24VDC	311
CPLMD-2448M250-O	127	CPR24MCCB160G	132	CPT-DM2-230-20A	148	CS7E-31E-24VDC	311
CPLMD-3030M250-G	127	CPR24MCCB160O	133	CPT-PSC1-12-230IR	145	CS7E-40E-24VDC	311
CPLMD-3030M250-O	127	CPR24MCCB200G	132	CPT-PSC1-25-230IR	145	CS8-22Z-240VAC	310
CPLMD-3054M250-G	127	CPR36MCCB160G	132	CPT-PSC12-230MOD	146	CS8-31Z-240VAC	310
CPLMD-3054M250-O	127	CPR36MCCB160O	133	CPT-PSC2-12-230IR	145	CS8-40E-240VAC	310
CPLMD-3636M250-G	127	CPR36MCCB200O	133	CPT-PSC2-25-230IR	145	CS8-P-04E	306
CPLMD-3636M250-O	127	CPR48MCCB160G	132	CPT-PSC25-230MOD	146	CS8-P-11E	306
CPLMD-3660M250-G	127	CPR48MCCB160O	133	CPT-PSC3-12-400IR	146	CS8-P-20E	306
CPLMD-3660M250-O	127	CPR48MCCB200G	132	CPT-PSC3-25-400IR	146	CS8-P-22Z	306
CPLMD-4242M250-G	127	CPR48MCCB200O	133	CPT-PSC3-5-1000IR	148	CS8-P-31Z	306
CPLMD-4242M250-O	127	CPR60MCCB160G	132	CPT-PSC4-12-400IR	146	CS8-P-40E	306
CPLMD-4848M250-G	127	CPR60MCCB160O	133	CPT-PSC4-25-400IR	146	CS8C-22Z-24VDC	310
CPLMD-4848M250-O	127	CPR60MCCB200G	132	CPT-PSM1-20-230IR	147	CS8C-31Z-24VDC	310
CPLMS-24M250-G	126	CPR60MCCB200O	133	CPT-PSM1-40-230IR	147	CS8C-40E-24VDC	310
CPLMS-24M250-O	127	CPR72MCCB200G	132	CPT-PSM2-20-230IR	147	CSB08ST	114
CPLMS-36M250-G	126	CPR72MCCB200O	133	CPT-PSM2-40-230IR	147	CSB08SW	114
CPLMS-36M250-O	127	CPR84MCCB200G	132	CPT-PSM2-40-230SG	146	CSB12FMPL	115
CPLMS-48M250-G	126	CPR84MCCB200O	133	CPT-PSM20-230MOD	147	CSB12FT	115
CPLMS-48M250-O	127	CPR96MCCB200G	132	CPT-PSM3-40-1000IR	148	CSB12FW	115
CPLMS-60M250-G	126	CPR96MCCB200O	133	CPT-PSM3-40-1500IR	148	CSB12ST	114
CPLMS-72M250-G	126	CPRACC-24-G	134	CPT-PSM3-40-600IR	148	CSB12SW	114
CPLMS-72M250-O	127	CPRACC-24-O	134	CPT-PSM4-20-400IR	147	CSB18FMPL	115
CPLMS-84M250-G	126	CPRACC-2ME-O	134	CPT-PSM4-40-400IR	147	CSB18FT	115
CPLMS-96M250-G	126	CPRACC-3ME-O	134	CPT-PSM4-40-400SG	146	CSB18FW	115
		CPRACC-48-G	134	CPT-PSM40-230MOD	147	CSB18ST	114
		CPRACC-48-O	134	CPT-PSM40N-MOD	147	CSB18SW	114

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
C							
CSB24FMPL	115	CT8-C12	326	D7-17BE184	706	D7-AD2CE152	705
CSB24FT	115	CTD24M2500	136	D7-17BE188	706	D7-AD2CE166	705
CSB24FW	115	CTD24O	136	D7-17BE208	706	D7-AD2CE170	705
CSB24ST	114	CTD24SS	136	D7-17BE212	706	D7-AD2CE186	705
CSB24SW	114	CTD36M2500	136	D7-17BE215	706	D7-AD2CE208	705
CSB36FMPL	115	CTD36O	136	D7-17BE223	706	D7-AD2CE212	705
CSB36FT	115	CTD36SS	136	D7-17BE224	706	D7-AD3	705
CSB36FW	115	CTD48M2500	136	D7-17BE238	706	D7-AD3CE166	705
CSB36ST	114	CTD48O	136	D7-17BE251	706	D7-AD4	705
CSB36SW	114	CTD48SS	136	D7-17BE261	706	D7-AE1	704
CSC416M20	957	CTD60M2500	136	D7-17BE300	706	D7-AE2	704
CSC416M25	957	CTD60O	136	D7-17BE301	706	D7-AE5	704
CSK 06030	915	CTD60SS	136	D7-17BE303	706	D7-AEAU4CE212	704
CSLPENA	619	CTD72O	136	D7-17WE100	706	D7-AEAU4CU910	704
CSPC1	114	CTD72SS	136	D7-18AE100	706	D7-AEU4	704
CSPC2	114	CTD84M2500	136	D7-18BE100	707	D7-AF1	704
CSPC4	114	CTD96M2500	136	D7-18BE112	707	D7-AF1CE110	704
CSPC6	114	CTKIT400A	328	D7-18BE113	707	D7-AF2	704
CSPC8	114	CTKIT600A	328	D7-18BE120	707	D7-AF2CE107	704
CSS7-53EC-240VAC	312	CTKIT800A	328	D7-18BE128	707	D7-AF2CE110	704
CSS7-62EC-240VAC	312	CV7-11-240VAC	307	D7-18BE152	707	D7-AF2CE120	704
CSS7E-53EC-24VDC	312	CV7-11-24VAC	307	D7-18BE163	707	D7-AF2CE152	704
CSS7E-62EC-24VDC	312	CV7-11-48VAC	307	D7-18BE165	707	D7-AF2CE170	704
CT7N-23-A16	327	CVE 0300 220	918	D7-18BE166	707	D7-AF2CE182	704
CT7N-23-A25	327	CVE 0500 220 8000	918	D7-18BE170	707	D7-AF2CE188	704
CT7N-23-A40	327	CVE 0800 220 8000	918	D7-18BE182	707	D7-AF2CE219	704
CT7N-23-A50	327	CVE 1500 220 8000	918	D7-18BE188	707	D7-AF2CE223	704
CT7N-23-A63	327	CVE 2000 220 8000	918	D7-18BE208	707	D7-AF3	704
CT7N-23-A80	327	CVE 3000 220 8000	918	D7-18BE212	707	D7-AF301	704
CT7N-23-B10	327	CVE 4000 261 8000	918	D7-18BE215	707	D7-AF3CE107	704
CT7N-23-B13	327	CVO 0800 220 8000	918	D7-18BE223	707	D7-AF3CE110	704
CT7N-23-B16	327	CVO 1500 220 8000	918	D7-18BE224	707	D7-AF3CE120	704
CT7N-23-B20	327	CVO 2000 220 8-S316	919	D7-18BE238	707	D7-AF3CE170	704
CT7N-23-B25	327	CVO 4000 261 8000	918	D7-18BE300	707	D7-AF3CE188	704
CT7N-23-B32	327	CZA7-180	307	D7-18BE301	707	D7-AF3CE223	704
CT7N-23-B40	327	CZA7-30	307	D7-18BE303	707	D7-AF4	704
CT7N-23-B48	327	CZE7-180	307	D7-18WE100	706	D7-AF402	704
CT7N-23-B63	327	CZE7-30	307	D7-1MM	701	D7-AF4CE107	704
CT7N-23-B75	327	D		D7-1MM1	678	D7-AF4CE212	704
CT7N-23-C10	327	D1030D	953	D7-1MYM	701	D7-AF5	704
CT7N-23-C12	327	D1031D	953	D7-1PB22G	701	D7-AF5CE219	704
CT7N-23-C16	327	D1042Q	953	D7-1PB22Y	701	D7-AF6	704
CT7N-23-C20	327	D1043Q	953	D7-1PM	700	D7-AF611	704
CT7N-23-C21	327	D1054S	954	D7-1PM301W	701	D7-AF6CE186	704
CT7N-23-C25	327	D1061S	954	D7-1PMHM22	701	D7-AFAU3CE110	704
CT7N-37-C20	327	D1063S	954	D7-1YM	700	D7-AFCU3CE208	704
CT7N-37-C21	327	D1064S	954	D7-1YM1	678	D7-AFCU3CE223	704
CT7N-37-C25	327	D1130D	953	D7-1YM4	678	D7-AFCU3CU712	704
CT7N-37-C30	327	D20 110V	273	D7-200	706	D7-AFCU3CU909	704
CT7N-37-C36	327	D20 240V	273	D7-2MM	701	D7-AFL1	710
CT7N-37-C38	327	D4CR12	268	D7-2MMPB	701	D7-AFU1	704
CT7N-37-P-A	327	D5014D	954	D7-2PB22G	701	D7-AFU2	704
CT7N-43-C25	327	D5014S	954	D7-2PB22Y	701	D7-AFU3	704
CT7N-43-C36	327	D5020D	955	D7-2PM	700	D7-AFU4	704
CT7N-43-C47	327	D5030D	955	D7-2PMPB	701	D7-AHA1	710
CT7N-55-C60	327	D5030S	955	D7-30WN	696	D7-AKR3801	712
CT7N-85-C47	327	D5049S	955	D7-34AE100	705	D7-AKR3802	712
CT7N-85-C47P	327	D5072D	955	D7-34BE100	705	D7-AKR3825	712
CT7N-85-C60	327	D5072S087	955	D7-35AE100	705	D7-AKR455	712
CT7N-85-C60P	327	D5212Q	954	D7-35BE100	705	D7-AL01	711
CT7N-85-C75	327	D5231E	955	D7-35WE100	705	D7-ALC1	710
CT7N-85-C75P	327	D5240T	955	D7-3MM	701	D7-ALF0	705
CT7N-85-C90	327	D7-110	706	D7-3PB22G	701	D7-ALF3	705
CT7N-85-C90P	327	D7-120	706	D7-3PB22Y	701	D7-ALF4	705
CT8-A16	326	D7-15Y	705	D7-3PM	700	D7-ALF6	705
CT8-A25	326	D7-15YE112	705	D7-3PMPB	701	D7-ALF7	705
CT8-A40	326	D7-16YE112	705	D7-400	706	D7-ALM	702
CT8-A50	326	D7-17BE100	706	D7-42BE100	707	D7-ALP	702
CT8-A63	326	D7-17BE107	706	D7-4PB22G	701	D7-ALR1	710
CT8-A80	326	D7-17BE110	706	D7-4PM	700	D7-AMEGY	711
CT8-B10	326	D7-17BE112	706	D7-5MM	701	D7-AML1	710
CT8-B13	326	D7-17BE113	706	D7-6PM	700	D7-AML2	710
CT8-B16	326	D7-17BE120	706	D7-A6PRS	711	D7-AMRG	711
CT8-B20	326	D7-17BE129	706	D7-AB7	712	D7-AMRGY	711
CT8-B25	326	D7-17BE145	706	D7-ABE7	712	D7-AP0	699
CT8-B32	326	D7-17BE152	706	D7-ABJS	712	D7-AP3	699
CT8-B40	326	D7-17BE163	706	D7-AC3	696	D7-AP4	699
CT8-B48	326	D7-17BE165	706	D7-AC4	696	D7-AP5	699
CT8-B63	326	D7-17BE166	706	D7-AC5	696	D7-AP6	699
CT8-B75	326	D7-17BE170	706	D7-AC6	696	D7-AP7	699
CT8-C10	326	D7-17BE171	706	D7-ACP	711	D7-ARM	710
		D7-17BE182	706	D7-AD2	705	D7-ARP	710
				D7-AD2CE107	705	D7-ASL2L	711

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
D							
D7-ASL3C	711	D7D-SM22X10	703	D7M-LSM25	692	D7P-F6	679
D7-ATR01	687	D7D-SM22X11	703	D7M-LSM26	692	D7P-F607PX10	678
D7-ATR02	687	D7D-SM22X20	703	D7M-LSM33	692	D7P-F6PX10	678
D7-ATR04	687	D7D-SM32X20	703	D7M-LU2X	688	D7P-F9	679
D7-ATR06	687	D7M-E2	681	D7M-MK44	677	D7P-FA1	684
D7-ATR08	687	D7M-E3	681	D7M-MK44MX01	676	D7P-FA2	684
D7-ATR19	687	D7M-E4	681	D7M-MM42	686	D7P-FA3	684
D7-ATW1	711	D7M-E402	681	D7M-MM43	686	D7P-FA4	684
D7-AUB1	712	D7M-E402MX01	678	D7M-MM44	686	D7P-FA5	684
D7-AUB2	712	D7M-E4PX01	678	D7M-MM45	686	D7P-FA6	684
D7-AW2	710	D7M-E9	681	D7M-MM46	686	D7P-FA9	684
D7-BN3G	699	D7M-F1	679	D7M-MM62	686	D7P-G3	682
D7-BN3R	699	D7M-F2	679	D7M-MM64	686	D7P-G4	682
D7-BN3W	699	D7M-F208	679	D7M-MT34	677	D7P-G6	682
D7-BN7G	699	D7M-F3	679	D7M-MT34MX01	676	D7P-HB32	694
D7-BN7R	699	D7M-F301	679	D7M-MT44	677	D7P-HL22	694
D7-BN7W	699	D7M-F301MX10	678	D7M-MT44MX01	676	D7P-HL32	694
D7-BX01	702	D7M-F306	679	D7M-MT44MX01S	676	D7P-HM22	694
D7-BX10	702	D7M-F3MX10	678	D7M-MT64	677	D7P-HM32	694
D7-D0C	700	D7M-F4	679	D7M-MT64MX01	676	D7P-HR32	694
D7-MX01	702	D7M-F402	679	D7M-P0	698	D7P-KB34	696
D7-MX10	702	D7M-F402MX01	678	D7M-P0-MN3W	697	D7P-KL22	695
D7-MX11	702	D7M-F4MX01	678	D7M-P0-MN7W	698	D7P-KM21	695
D7-N2	710	D7M-F5	679	D7M-P3	698	D7P-KM2101R	695
D7-N3G	699	D7M-F6	679	D7M-P3MN3G	697	D7P-KM2102R	695
D7-N3GXD7	700	D7M-F607MX10	678	D7M-P3MN7G	698	D7P-KM2103R	695
D7-N3R	699	D7M-F6MX10	678	D7M-P4	698	D7P-KM2104R	695
D7-N3RXD7	700	D7M-F9	679	D7M-P4MN3R	697	D7P-KM2130R	695
D7-N3W	699	D7M-FA3	684	D7M-P4MN7R	698	D7P-KM21PX10	690
D7-N3WXD7	700	D7M-FA4	684	D7M-P5	698	D7P-KM22	695
D7-N5G	699	D7M-FA6	684	D7M-P5MN3W	697	D7P-KM23	695
D7-N5R	699	D7M-G3	683	D7M-P6	698	D7P-KM31	696
D7-N5W	699	D7M-G4	683	D7M-P6MN3W	697	D7P-KM31PX20	691
D7-N7G	699	D7M-HB32	694	D7M-P6MN7W	698	D7P-KM33	696
D7-N7GXD7	700	D7M-HL22	694	D7M-P7	698	D7P-KM34	696
D7-N7R	699	D7M-HM22	694	D7M-P7MN3W	697	D7P-KR21	695
D7-N7RXD7	700	D7M-HM32	694	D7M-P7MN7W	698	D7P-KR31	696
D7-N7W	699	D7M-HR22	694	D7M-R2	687	D7P-LE3	681
D7-N7WXD7	700	D7M-JM2	697	D7M-R4	687	D7P-LE4	681
D7-N8	710	D7M-JR2	697	D7M-R6	687	D7P-LE6	681
D7-NUG	699	D7M-JR4	697	D7M-R607	687	D7P-LF0	679
D7-NUR	699	D7M-KB34	696	D7M-R611	687	D7P-LF0PN3AX10	678
D7-NUW	699	D7M-KL22	695	D7M-SB32	692	D7P-LF0PN7AX10	678
D7-P15	701	D7M-KM21	695	D7M-SB32PX20	691	D7P-LF3	679
D7-P25	701	D7M-KM2101R	695	D7M-SL22	692	D7P-LF3PN3GX10	678
D7-PD0C	700	D7M-KM2127R	695	D7M-SL32	692	D7P-LF3PN5GX10	678
D7-PX01	702	D7M-KM21MX10	691	D7M-SM22	692	D7P-LF3PN7GX10	678
D7-PX01S	702	D7M-KM21R	695	D7M-SM22MX10	691	D7P-LF4	679
D7-PX10	702	D7M-KM22	695	D7M-SM22PX10	691	D7P-LF4PN3RX01	678
D7-PX11	702	D7M-KM23	695	D7M-SM32	692	D7P-LF4PN5RX01	678
D7-Q3G	699	D7M-KM31MX20	691	D7M-SM32MX20	691	D7P-LF4PN7RX01	678
D7-Q3R	699	D7M-KM33	696	D7M-SM42	693	D7P-LF5	679
D7-Q3W	699	D7M-KM34	696	D7M-SR22	692	D7P-LF5PN3WX10	678
D7-X01	702	D7M-KR21	695	D7M-SR32	692	D7P-LF5PN5YX10	678
D7-X01B	702	D7M-KR21R	695	D7M-U2E4F3MX11	687	D7P-LF5PN7WX10	678
D7-X01L	702	D7M-LE3	681	D7M-U2EFFEMX11	687	D7P-LF6	679
D7-X01S	702	D7M-LE4	681	D7M-U2X	688	D7P-LF6PN3WX10	678
D7-X01V	702	D7M-LF0	679	D7MLF4MN5RX01	678	D7P-LF6PN5BX10	678
D7-X10	702	D7M-LF3	679	D7MLF6MN5BX10	678	D7P-LF6PN7WX10	678
D7-X10E	702	D7M-LF3MN3GX10	678	D7MP3MN5G	697	D7P-LF7	679
D7-X10V	702	D7M-LF3MN5GX10	678	D7MP4MN5R	697	D7P-LF9	679
D7-XD7	700	D7M-LF3MN7GX10	678	D7MX01S	702	D7P-LFA0	684
D7D-AP3	703	D7M-LF4	679	D7P-E1	681	D7P-LFA3	684
D7D-AP4	703	D7M-LF4MN3RX01	678	D7P-E2	681	D7P-LFA4	684
D7D-F2X10	702	D7M-LF4MN7RX01	678	D7P-E3	681	D7P-LFA5	684
D7D-F3X10	702	D7M-LF5	679	D7P-E4	681	D7P-LFA6	684
D7D-F6X10	702	D7M-LF5MN3WX10	678	D7P-E402	681	D7P-LG3	682
D7D-MT44X01	703	D7M-LF6	679	D7P-E402PX01	678	D7P-LG4	682
D7D-MT44X02	703	D7M-LF6MN3WX10	678	D7P-E4PX01	678	D7P-LMM43	685
D7D-MT44X11	703	D7M-LF7	679	D7P-E6	681	D7P-LMM44	685
D7D-P0N3	703	D7M-LF9	679	D7P-F1	679	D7P-LMM46	685
D7D-P0N7	703	D7M-LFA0	684	D7P-F2	679	D7P-LMT44	677
D7D-P3N3	703	D7M-LFA3	684	D7P-F208	679	D7P-LSB33	692
D7D-P3N7	703	D7M-LFA4	684	D7P-F3	679	D7P-LSM23	692
D7D-P4N3	703	D7M-LFA5	684	D7P-F301	679	D7P-LSM24	692
D7D-P4N7	703	D7M-LFA6	684	D7P-F301PX10	678	D7P-LSM25	692
D7D-P6N3	703	D7M-LG3	683	D7P-F3PX10	678	D7P-LSM26	692
D7D-P6N7	703	D7M-LG4	683	D7P-F4	679	D7P-LSM27	692
D7D-P7N3	703	D7M-LMM46	686	D7P-F402	679	D7P-LSM33	692
D7D-P9D0	703	D7M-LMT44	677	D7P-F402PX01	678	D7P-LSM34	692
D7D-SB32X20	703	D7M-LSB33	692	D7P-F4PX01	678	D7P-LU2X	688
		D7M-LSM23	692	D7P-F5	679	D7P-MK44	677
		D7M-LSM24	692	D7P-F5PX10	678	D7P-MK44PX01	676

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
D							
D7P-MK44PX01S	676	DBA-52-C-M24	796	DNMK01	902	DSRCBH-20-30-A	37
D7P-MM42	685	DBB-01-D-M24	796	DNMK02	902	DSRCBH-20-30-AD	38
D7P-MM43	685	DBB-51-C-M24 10M	796	DPA-01-C-M44	790	DSRCBH-25-10-A	37
D7P-MM44	685	DBB-51-C-M24 10S	796	DPA-01-D-M48	790	DSRCBH-25-100-A	37
D7P-MM45	685	DBB-51-C-M24 1M	796	DPA-51-C-M44	790	DSRCBH-25-30-A	37
D7P-MM46	685	DC 12 312 BTP	913	DPB-01-C-M48-N	790	DSRCBH-25-30-AD	38
D7P-MM62	685	DCB-01-C-M24	798	DPB-01-C-M48-W4	790	DSRCBH-32-10-A	37
D7P-MM63	685	DCB-51-C-M24	798	DPB-02-C-M48	791	DSRCBH-32-100-A	37
D7P-MM64	685	DCLD6	48	DPC-01-D-M48	791	DSRCBH-32-30-A	37
D7P-MT34	677	DD 084	917	DPD02DM44	792	DSRCBH-32-30-AD	38
D7P-MT34PX01	676	DDK 600R5	905	DPD02DM44B	792	DSRCBH-40-10-A	37
D7P-MT34PX01S	676	DDK 800R5	905	DR-6-2E-C	294	DSRCBH-40-100-A	37
D7P-MT44	677	DF-A	292	DR-6-2E-K	294	DSRCBH-40-30-A	37
D7P-MT44PX01	676	DF-A+	292	DR-6-2E-T	294	DSRCBH-40-30-AD	38
D7P-MT44PX01S	676	DF-AAD	292	DR-6E-2K2T	294	DSRCBH6-06-30-A	38
D7P-MT64	677	DF-AAD+	292	DR-6E-2KT	294	DSRCBH6-10-30-A	38
D7P-MT64PX01	676	DF-AADT	293	DR100	865	DSRCBH6-16-30-A	38
D7P-MT64PX01S	676	DF-AV	292	DR140	865	DSRCBH6-20-30-A	38
D7P-P0	698	DF-C-750	292	DR160	865	DSRCBH6-25-30-A	38
D7P-P0-PN3W	697	DF-D	292	DR210	865	DSRCBH6-32-30-A	38
D7P-P0-PN7W	698	DF-D+	292	DR215	865	DSRCBH6-40-30-A	38
D7P-P3	698	DF-DT	293	DR265	865	DSRCBH7C	47
D7P-P3PN3G	697	DF-K	292	DR316	865	DSRCBS-06-10-CAN	38
D7P-P3PN3GXD7	698	DF-LKB	292	DRA4	905	DSRCBS-06-30-CAN	38
D7P-P3PN7G	698	DF-P	292	DRB0303R5	905	DSRCBS-10-10-CAN	38
D7P-P4	698	DFB-01-C-M24	791	DRS ARCA 203015	884	DSRCBS-10-30-CAN	38
D7P-P4PN3R	697	DG3P 03 P5	275	DRS ARCA 302015	884	DSRCBS-16-10-CAN	38
D7P-P4PN7R	698	DG3P 06 P5	275	DRS ARCA 304015	884	DSRCBS-16-30-CAN	38
D7P-P5	698	DG3P 0M P5	275	DRS ARCA 304021	884	DSRCBS-20-10-CAN	38
D7P-P5PN3W	697	DG8P 03 P5	275	DRS ARCA 403015	884	DSRCBS-20-30-CAN	38
D7P-P5PN7W	698	DG8P 06 P5	275	DRS ARCA 403021	884	DSRCBS-25-10-CAN	38
D7P-P6	698	DG8P 0M P5	275	DRS ARCA 405021	884	DSRCBS-25-30-CAN	38
D7P-P6PN3W	697	DGM G03 C1	275	DRS ARCA 406021	884	DSRCBS-32-10-CAN	38
D7P-P6PN7W	698	DGM N0H N6	275	DRS ARCA 504021	884	DSRCBS-32-30-CAN	38
D7P-P7	698	DGT 1 024SLIM	805	DRS ARCA 507030	884	DSRCBS0630BAN	39
D7P-P7PN3W	697	DGT 1 230SLIM	805	DRS ARCA 604021	884	DSRCBS100610CAN	39
D7P-P7PN7W	698	DGT1024NFC	805	DRS ARCA 608040	884	DSRCBS100630CAN	39
D7P-POT	696	DGT1230NFC	805	DRS ARCA 705030	884	DSRCBS101010CAN	39
D7P-POT3	696	DGT2230NFC	805	DRS ARCA 806030	884	DSRCBS101030CAN	39
D7P-POT5	696	DGTA1230NFC	806	DSLK	118	DSRCBS101610CAN	39
D7P-POT6	696	DGTA2024NFC	806	DSR-M-110VC	186	DSRCBS101630CAN	39
D7P-R2	687	DGTA2230NFC	806	DSR-M-72C-110	187	DSRCBS102010CAN	39
D7P-R3	687	DHN 180	904	DSR-M-72C-24	187	DSRCBS102030CAN	39
D7P-R4	687	DI1806R5	902	DSR-M-72C-240	187	DSRCBS1030BAN	39
D7P-R6	687	DI1808R5	902	DSR-TD-48C-110	187	DSRCBS1630BAN	39
D7P-R607	687	DI1810R5	902	DSR-TD-48C-240	187	DSRCBS2030BAN	39
D7P-R611	687	DI2006R5	902	DSR110DEL	187	DSRCBS2530BAN	39
D7P-SB32	692	DI2008R5	902	DSR140DEL	187	DSRCBS3230BAN	39
D7P-SL22	692	DIA-01-C-B23 5A	787	DSR210DEL	187	DSRCBSAX	45
D7P-SL32	692	DIA-01-C-D48 5A	787	DSR35DEL	187	DSRCBSAXAL	45
D7P-SM22	692	DIB-01-C-B23 10A	788	DSR80DEL	187	DSRCBT06100A	41
D7P-SM22PX10	690	DIB-01-C-B23 500MA	788	DSRCB-06-10-A	39	DSRCBT06300A	42
D7P-SM32	692	DIB-01-C-B23 5A	788	DSRCB-06-30-A	39	DSRCBT0630A	41
D7P-SM32PX20	690	DIB-01-C-D48 10A	788	DSRCB-06-30-AI	40	DSRCBT10100A	41
D7P-SM42	692	DIB-01-C-D48 500MA	788	DSRCB-10-10-A	39	DSRCBT10300A	42
D7P-SR22	692	DIB-01-C-D48 5A	788	DSRCB-10-100-A	39	DSRCBT1030A	41
D7P-SR32	692	DIB-02-C-B23 150MV	788	DSRCB-10-30-A	39	DSRCBT16100A	41
D7P-U2E4F3PX11	687	DIB-02-C-D48 150MV	788	DSRCB-10-30-AI	40	DSRCBT16300A	42
D7P-U2EFFEPX11	687	DIN-F	193	DSRCB-16-10-A	39	DSRCBT1630A	41
D7P-U2X	688	DINCAP	813	DSRCB-16-100-A	39	DSRCBT20100A	41
D7P-U3X	688	DINTMS1001	44	DSRCB-16-30-A	39	DSRCBT20300A	42
D7PP0PN5W	697	DINTMS1002	44	DSRCB-16-30-AI	40	DSRCBT2030A	41
D7PP3PN5G	697	DINTMS1003	44	DSRCB-20-10-A	39	DSRCBT25100A	41
D7PP4PN5R	697	DINTMS631	44	DSRCB-20-100-A	39	DSRCBT25300A	42
D7PP5PN5W	697	DINTMS632	44	DSRCB-20-30-A	39	DSRCBT2530A	41
D7PRM-3	687	DINTMS633	44	DSRCB-20-30-AI	40	DSRCBT32100A	41
DA08400	917	DINTMS801	44	DSRCB-25-30-A	39	DSRCBT32300A	42
DA28400	917	DINTMS802	44	DSRCB-25-30-AI	40	DSRCBT3230A	41
DA28406	917	DINTMS803	44	DSRCB-32-30-A	39	DSRCBT40100A	41
DA28455	917	DINTT100A	167	DSRCB-32-30-AI	40	DSRCBT40300A	42
DAA-01-C-M24	796	DLA71DB232P	793	DSRCB-40-30-A	39	DSRCBT4030A	41
DAA-01-D-M24	796	DLA71DB482P	793	DSRCB-40-30-AI	40	DSRCBT50100A	41
DAA-51-C-M24	796	DLA71TB233P	793	DSRCBH-06-30-A	37	DSRCBT50300A	42
DAC-01-C-M24	798	DLA71TB483P	793	DSRCBH-10-10-A	37	DSRCBT5030A	41
DAC-01-C-M40	798	DLA73TB232P	793	DSRCBH-10-100-A	37	DSRCBT63100A	41
DAC-51-C-M24	798	DLA73TB482P	793	DSRCBH-10-30-A	37	DSRCBT63300A	42
DASY1012	438	DM15036	117	DSRCBH-10-30-AD	38	DSRCBT6330A	41
DASY1024	438	DM15054	117	DSRCBH-16-10-A	37	DSRCBT6330A	41
DASY10240	438	DM15072	117	DSRCBH-16-100-A	37	DSRCBT6330A	41
DASY16240	438	DMB-01-C-M24	797	DSRCBH-16-30-A	37	DSRCBT6330A	41
DBA-02-C-M24	796	DMB-01-D-M24	797	DSRCBH-16-30-AD	38	DSRCBT6330A	41
		DMB-51-C-W24	797	DSRCBH-20-10-A	37	DSRCBT6330A	41
		DMWP36	117	DSRCBH-20-100-A	37	DSRCBT6330A	41

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
D							
DSRCD-2-63-30-AI	40	DTCB10140B	31	DTCB10432C	31	DTCB6240C	28
DSRCD-2-63-30-B	41	DTCB10140C	30	DTCB10432D	32	DTCB6240D	29
DSRCD-2-63-300-S	41	DTCB10140D	32	DTCB10440C	31	DTCB6250C	28
DSRCD-2-80-100-A	40	DTCB10150B	31	DTCB10440D	32	DTCB6250D	29
DSRCD-2-80-30-A	40	DTCB10150C	30	DTCB10450C	31	DTCB6263C	28
DSRCD-4-40-30-A	40	DTCB10150D	32	DTCB10450D	32	DTCB6263D	29
DSRCD-4-40-30-AI	40	DTCB10163B	31	DTCB10463C	31	DTCB6302C	29
DSRCD-4-40-30-F	41	DTCB10163C	30	DTCB10463D	32	DTCB6302D	29
DSRCD-4-63-100-A	40	DTCB10163D	32	DTCB10H1100C	34	DTCB6304C	29
DSRCD-4-63-100-S	41	DTCB10201C	30	DTCB10H1100D	35	DTCB6304D	29
DSRCD-4-63-30-A	40	DTCB10201D	32	DTCB10H1125C	34	DTCB6306C	29
DSRCD-4-63-30-AI	40	DTCB10202C	30	DTCB10H1125D	35	DTCB6306D	29
DSRCD-4-63-30-AI	40	DTCB10202D	32	DTCB10H180C	34	DTCB6310C	29
DSRCD-4-63-30-B	41	DTCB10204C	30	DTCB10H180D	35	DTCB6310D	29
DSRCD-4-63-300-S	41	DTCB10204D	32	DTCB10H2100C	34	DTCB6313C	29
DSRCD-4-80-100-A	40	DTCB10206B	31	DTCB10H2100D	35	DTCB6316C	29
DSRCM32-100-1PN	42	DTCB10206C	30	DTCB10H2125C	34	DTCB6316D	29
DSRCM32-100-3PN	42	DTCB10206D	32	DTCB10H2125D	35	DTCB6320C	29
DSRCM32-30-1PN	42	DTCB10210B	31	DTCB10H280C	34	DTCB6320D	29
DSRCM32-30-3PNA	43	DTCB10210C	30	DTCB10H280D	35	DTCB6325C	29
DSRCM32-300-1PN	42	DTCB10210D	32	DTCB10H3100C	35	DTCB6325D	29
DSRCM32-300-3PN	42	DTCB10216B	31	DTCB10H3100D	35	DTCB6332C	29
DSRCM63-100-1PN	42	DTCB10216C	30	DTCB10H3125C	35	DTCB6332D	29
DSRCM63-100-3P	42	DTCB10216D	32	DTCB10H3125D	35	DTCB6340C	29
DSRCM63-100-3PN	42	DTCB10220B	31	DTCB10H380C	35	DTCB6340D	29
DSRCM63-30-1PN	42	DTCB10220C	30	DTCB10H380D	35	DTCB6350C	29
DSRCM63-30-3P	42	DTCB10220D	32	DTCB10H4100C	35	DTCB6350D	29
DSRCM63-30-3PA	43	DTCB10225C	30	DTCB10H4125C	35	DTCB6363C	29
DSRCM63-30-3PN	42	DTCB10225D	32	DTCB10H480C	35	DTCB6363D	29
DSRCM63-300-1PN	42	DTCB10232B	31	DTCB10HAUXAL	45	DTCBD6202C	33
DSRCM63-300-3P	42	DTCB10232C	30	DTCB10HLD	48	DTCBD6204C	33
DSRCM63-300-3PN	42	DTCB10232D	32	DTCB10HLDNC	48	DTCBD6206C	33
DSRM240VC	186	DTCB10240B	31	DTCB10HSHT220415	44	DTCBD6210C	33
DSTP 02	905	DTCB10240C	30	DTCB10HSHT48130	44	DTCBD6216C	33
DSW01	904	DTCB10240D	32	DTCB10HSRD	47	DTCBD6220C	33
DT-6-2E-D	294	DTCB10250B	31	DTCB15306C	33	DTCBDC101C	34
DT-6E-2K2D	294	DTCB10250C	30	DTCB15310C	33	DTCBDC102C	34
DT-6E-2KD	294	DTCB10250D	32	DTCB15316C	33	DTCBDC104C	34
DTAUXAL	45	DTCB10263B	31	DTCB15320C	33	DTCBDC105C	34
DTAUXALG	45	DTCB10263C	30	DTCB15325C	33	DTCBDC106C	34
DTC1611240D	50	DTCB10263D	32	DTCB15332C	33	DTCBDC110C	34
DTC1620240D	50	DTCB10301C	30	DTCB15340C	33	DTCBDC116C	34
DTC2002240D	50	DTCB10302C	30	DTCB15350C	33	DTCBDC120C	34
DTC2011240D	50	DTCB10302D	32	DTCB15363C	33	DTCBDC125C	34
DTC2020240D	50	DTCB10304C	30	DTCB6102C	28	DTCBDC132C	34
DTC202024D	50	DTCB10304D	32	DTCB6102D	29	DTCBDC140C	34
DTC2504240D	50	DTCB10306B	31	DTCB6104C	28	DTCBDC150C	34
DTC254012D	50	DTCB10306C	30	DTCB6104D	29	DTCBDC163C	34
DTC2540240D	50	DTCB10306D	32	DTCB6106C	28	DTCBDC201C	34
DTC254024D	50	DTCB10310B	31	DTCB6106D	29	DTCBDC202C	34
DTC4040240D	50	DTCB10310C	30	DTCB6110C	28	DTCBDC204C	34
DTC404024D	50	DTCB10310D	32	DTCB6110D	29	DTCBDC206C	34
DTC6340240D	50	DTCB10316B	31	DTCB6113C	28	DTCBDC210C	34
DTC634024D	50	DTCB10316C	30	DTCB6116C	28	DTCBDC216C	34
DTCAUX11	50	DTCB10316D	32	DTCB6116D	29	DTCBDC220C	34
DTCAUX20	50	DTCB10320B	31	DTCB6120C	28	DTCBDC225C	34
DTCB10101C	30	DTCB10320C	30	DTCB6120D	29	DTCBDC232C	34
DTCB10101D	32	DTCB10320D	32	DTCB6125C	28	DTCBDC240C	34
DTCB10102C	30	DTCB10325B	31	DTCB6125D	29	DTCBDC250C	34
DTCB10102D	32	DTCB10325C	30	DTCB6132C	28	DTCBDC263C	34
DTCB10103C	30	DTCB10325D	32	DTCB6132D	29	DTCF35	47
DTCB10104C	30	DTCB10332B	31	DTCB6140C	28	DTCS2522	45
DTCB10104D	32	DTCB10332C	30	DTCB6140D	29	DTCS2523	45
DTCB10105C	30	DTCB10332D	32	DTCB6150C	28	DTCSP9	50
DTCB10106B	31	DTCB10340B	31	DTCB6150D	29	DTLCM	48
DTCB10106C	30	DTCB10340C	30	DTCB6163C	28	DTLD	48
DTCB10106D	32	DTCB10340D	32	DTCB6163D	29	DTLDM	47
DTCB10110B	31	DTCB10350B	31	DTCB6202C	28	DTLLA	48
DTCB10110C	30	DTCB10350C	30	DTCB6202D	29	DTLLAB	48
DTCB10110D	32	DTCB10350D	32	DTCB6204C	28	DTLLABRH	48
DTCB10116B	31	DTCB10363B	31	DTCB6204D	29	DTLLABULK	48
DTCB10116C	30	DTCB10363C	30	DTCB6206C	28	DTLLADTCB10H	48
DTCB10116D	32	DTCB10363D	32	DTCB6206D	29	DTLLARH	48
DTCB10120B	31	DTCB10402C	31	DTCB6210C	28	DTLLARHBULK	48
DTCB10120C	30	DTCB10406C	31	DTCB6210D	29	DTLLB	48
DTCB10120D	32	DTCB10410C	31	DTCB6216C	28	DTLPF	48
DTCB10125B	31	DTCB10410D	32	DTCB6216D	29	DTMD240VAC	47
DTCB10125C	30	DTCB10416C	31	DTCB6220C	28	DTPC119	47
DTCB10125D	32	DTCB10416D	32	DTCB6220D	29	DTPC2LD	116
DTCB10132B	31	DTCB10420C	31	DTCB6225C	28	DTPC2LD631PK	116
DTCB10132C	30	DTCB10420D	32	DTCB6225D	29	DTPC2LDCB	116
DTCB10132D	32	DTCB10425C	31	DTCB6232C	28	DTPC4LD	116
		DTCB10425D	32	DTCB6232D	29	DTPC4LD633PK	116

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
D		EEX14DS1O1S5M	958	EKP 30T	875	EREV4-5PB-240VAC	352
DTPC4LDCB	116	EEX14R1O1S5M	958	EKP 30T-2FSH	875	EREV4-5PB-415VAC	352
DTPF12	48	EEXEM97D1160C	958	EKP 80G	874	EREV4-5R-240VAC	352
DTSHT110415V	44	EEXEM97TK1160C	958	EKP 80G-2FSH	875	EREV4-5R-415VAC	352
DTSHT2460V	44	EEXES97D1160C	958	EKP 80T	875	EREV4-5RD-240VAC	352
DTT9025PN	26	EEXES97DS1160C	958	EKPVT	875	EREV4-5RD-415VAC	352
DTTAX16PN3	26	EEXM14DS1O1S5M	958	EKPVTP	876	EREV4-9PB-240VAC	352
DTTAX25PN	47	EEXZS73SR1S1OUE3M	959	EKPZR	875	EREV4-9PB-415VAC	352
DTTAX25SP	47	EEXZS92S22VDF30C	963	EKSS 18064-316	906	EREV4-9R-240VAC	352
DTTAX50PN	47	EFCS20-316	908	EKSS 18084-316	906	EREV4-9R-415VAC	352
DTTC35	47	EFCS2530-316	908	EKSS 18104-316	906	ES61 SR 1O/1S	431
DTTC5	47	EFSCO244M20	957	EKSS 20084-316	906	ES954K1O1S	428
DTTLT25PN2	26	EFSCO24M20	957	EKSS 20104-316	906	ES95D1O1S	428
DTTLT35LPN	47	EFSCO24M25	957	EKT 30T	875	ES95D2O	428
DTTLT35PN	47	EFSCO24M32	957	EKTVT	875	ES95DD1O1S	428
DTUVT240VAC	44	EFSCO63M25	957	EKU 30G	874	ES95DS1O1S	428
DTUVT24VDC	44	EFSCO66M25	957	EKU 30T	875	ES95R1O1S	428
DUA-01-C-B23 500V	789	EI1202PPOSS1	417	EKU 30T-3FSH	875	ES95TK1O1S	428
DUA-52-C-724	789	EI1204PPOSL1	417	EKUVT	875	ES95TL1O1S	428
DUA-52-C-748	789	EI1204PPOSS1	417	EKUVTP	876	ES95W1O1S	428
DUB-01-C-B23 500V	789	EI1204TBOSL6	417	EKUZR	875	ES95WH1O1S	428
DUB-01-C-D48 500V	789	EI1805PPCSS1	417	ELBPM1003P	197	ESS1254P	198
DUB-02-C-T23	790	EI1805PPOSS1	417	ELBPM253P	197	ESSL1253P	198
DUCTAFIX R4	812	EI1805TBOSL6	417	ELBPM323P	197	ESSL2003P	198
DUCTAFIX R6	812	EI1808PPOPL1	417	ELBPM403P	197	ESSL2004P	198
DUCTAMARK 1	812	EI1808PPOSL1	417	ELBPM633P	197	ESSL803P	198
DWB-01-C-M48 10A	791	EI1808PPOSS1	417	ELBPM803P	197	ESSL804P	198
Dynamic Brake Resistor	393	EI1808TBOSL6	417	ELBS1003P	197	ESSS1253P	198
E		EI1808TBOSL6	417	ELBS1253P	197	ESSS1254P	198
E21407R5	893	EI3010PPOSS1	418	ELBS1603P	197	ESSS2003P	198
E21407S5	896	EI3010TBOSL6	418	ELBS2003P	197	ESSS2004P	198
E21410R5	893	EI3015PPOSL1	418	ELBS203P	197	ESSS4003P	198
E21410S5	896	EI3015TBOSL6	418	ELBS2503P	197	ESSS4004P	198
E21418R5	893	EIAWE22KTBE5A02	1017	ELBS3153P	197	ESSS503P	198
E21418S5	896	EIAWE22KTBS0A02	1017	ELBS323P	197	ESSS504P	198
EC3016PPASL1	420	EIAWE22KTSE5A04	1017	ELBS4003P	197	ESSS6303P	198
EC3016TBAPL6	419	EIAWE22KTSH0A04	1017	ELBS403P	197	ESSS6304P	198
EC3025PPASL1	420	EKDS 181244X-316	907	ELBS6303P	197	ESSS8003P	198
EC3025TBASL6	420	EKDS 181644X-316	907	ELBS633P	197	ESSS8004P	198
EC5525NPAP1	420	EKDS 201244X-316	907	ELBS803P	197	ESSS803P	198
ECOM16086ITS	909	EKDS 201644X-316	907	ELTKA	137	ESSS804P	198
ECOM16086ITS2	909	EKH 30G	874	ELTSA	137	ETE 0901 220 7000	919
EEX AZ16 1O/1S 30N 5M	961	EKH 30G-2FSH	875	EM110DINAV81XO1X	262	ETE 2000 220 7000	919
EEX AZ16 1O/1S 5M	961	EKH 30T	875	EM111DINAV81XS1X	262	EVDE25AFSP1	1015
EEX AZM415 2O/2S A	959	EKH 30T-2FSH	875	EM112DINAV01XO1X	262	EVDE25AFSP2	1015
EEX AZM415 2O/2S R	959	EKH 80T	875	EM112DINAV01XS1X	262	EVDE25D4DUM	1012
EEX EM97 R 11 60C	958	EKHVT	875	EM20096ADAPTER	264	EVDE25D7DUM	1012
EEX ES 98 SR-02	959	EKHVTP	876	EM21072DAV53XOSX	262	EVDE25E4DUM	1012
EEX ES 98 SR-11	959	EKIV15	885	EM21072DAV53XOXX	262	EVDE4GANT	1015
EEX GF 1O/1S	960	EKIV23	885	EM2172RVV23XOSX	262	EVDE4GMOD	1015
EEX GFS 1O/1S	960	EKIV33	885	EM2172RVV33XOSX	262	EVDECCS2H	1014
EEX GFS 2O/2S	960	EKIV43	885	EM2172RVV53XOSX	262	EVDECHADEMOH	1014
EEX HS SI 4 1O/1S 5M	961	EKIV54	885	EM24DINAV53DISX	263	EVHE104EKA05	1013
EEX IS M12 B2ABBAB	964	EKJ 30G	874	EM24DINAV53DISX26	263	EVHE503EJCA05	1013
EEX IS M12 NB4ABBAB	964	EKJ 30G-2FSH	875	EM24DINAV53DR2X	263	EVPE1320CP	1018
EEX IS M18 B5ABBAB	964	EKJ 30T	875	EM24DINAV93XISX	263	EVPE3220MNMK	1016
EEX IS M18 NB8ABBAB	964	EKJ 30T-2FSH	875	EM24DINAV93XR2X	263	EVPE3220MUN	1016
EEX IS M30 B10ABBAB	964	EKJ 80G	874	EM27072DMV53X2SX	263	EVPE3220MWN	1016
EEX IS M30 NB15ABBAB	964	EKJ 80G-2FSH	875	EM27072DMV53XOSX	263	EVPE3225MNMK	1016
EEX IS M8 B1ABBAB	964	EKJ 80T	875	EM27172DMV53X2SX	263	EVPEBKT01	1018
EEX IS M8 NB2ABBAB	964	EKJ 80T-2FSH	875	EM2SERVESOFTBASE	258	EVPEBKT02	1014
EEX MC 30	962	EKJVT	875	EM2SERVESOFTKIT100	258	EVPERFID1	1018
EEX MC 30 NIRO	962	EKJVTP	876	EM2SERVESOFTKIT40	258	EVPP00105	1018
EEX MC 4	962	EKJZR	875	EM2SERVESOFTKIT60	258	EVPP00160	1018
EEX MC 56	962	EKM 30G	874	EM2SERVESOFTKIT80	258	EX55.4.00NBB	483
EEX MC 56-3	962	EKM 30T	875	EM41D1O1S	429	EX55.4.00NBBG	483
EEX RC M20 1S 2M	964	EKMVT	875	EM41DS1O1S	429	EXRF96DSSW915	433
EEX RC M20 1W	964	EKMVTP	876	EM41R1O1S	429	EXRF96DSW915	433
EEX RC SI 56 1O/1S-5M	962	EKO 30G-2FSH	875	EM95D1O1S	428	EXRF96RLSW915	433
EEX RC SI 56 2O 5M	962	EKO 30T	875	EM95DD1O1S	428	EXRF96STSW915	432
EEX RC SI M30 2O 5M	962	EKO 30T-2FSH	875	EM95DS1O1S	428	EXRF96WSW915	433
EEX RC SI M30 5m	962	EKO 80G	874	EM95R1O1S	428	EXRF96WSW915	433
EEX ST 14 1O/1S 5M	961	EKO 80G-2FSH	875	EM95TK1O1S	428	EXRFISM12NBST2M	433
EEX ST 14 2O 5M	961	EKO 80T	875	EM95W1O1S	428	EXRFISM18NBST2M	433
EEX STM 295 2O/2S-A-3	959	EKOM 12066	909	EM95WH1O1S	428	EXRFISM30NBST2M	433
EEX STM 295 2O/2S-R-3	959	EKOM 12086	909	ENCATYS160	236	EXT-PF1-10M-ST-ST	155
EEX ZS 71 1O/1S WVD	963	EKOM 12126	909	ENCATYS250	236	EXT-PF1-15M-ST-ST	155
EEX ZS71 2O WVD	963	EKOM 14086	909	ENCATYS400	236	F	
EEX ZS80 1O/1S WVD	963	EKOVT	875	ENCATYSP160	236	FAA-01-D-W24	795
EEX ZS80 2O WVD	963	EKOVTTP	876	ENCATYSP250	236	FAA-08-D-W24	795
EEX ZS92 S22 VD F	963	EKOZR	875	ENCATYSP400	236	FB1001120	176
EEX14D1O1S5M	958	EKP 30G	874	ER100	411	FB100160	176
		EKP 30G-2FSH	875	ER4	411		

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
F		FS2550	177	GSV 1000 203	911	ICB12S30N08POM1	417
FB100224	176	FS5050	177	GSV 1000 211	911	ICL102	46
FB100288	176	FS5064	177	GSV 1000 220	911	ICL121F	25
FB100352	176	FT-1PB	739	GSV 1500 203	911	ICL123	46
FB100416	176	FT-2P-B	739	GSV 1500 211	911	ICL153	46
FB100480	176	FT-3 P-B	740	GSV 1500 220	911	ICL181F	25
FB100544	176	FT1DESL	739	GSV 2000 203	911	ICL183	46
FB100608	176	FT1DEST	739	GSV 2000 211	911	ICL213	46
FB100672	176	FTS2PB	739	GSV 2000 220	911	ICL41F	25
FB100736	176	FTX602PWR12CH	154	GSV 2500 203	911	ICL561F	25
FB100800	176	FTX602PWR18CH	154	GSV 2500 211	911	ICL562	46
FB100864	176	FTX602PWR24CH	154	GSV 2500 220	911	ICL563A	46
FB100928	176	FTX602PWR6CH	154	GSV 2501 203	912	ICL564	46
FB243288	176	FZK 01100	916	GSV 2501 220	912	ICL573	46
FB243352	176	G		GSV 3000 203	912	ICL573F	25
FB243416	176	GB212183TF	166	GSV 3000 220	912	ICL62	46
FB243480	176	GB212183U	166	GSV 3001 203	912	ICLEC1	46
FB243544	176	GB224183BF	167	GSV 3001 220	912	ICLEC23	46
FB243608	176	GB224183TF	166	GSV 3002 220	912	ICLEC4	46
FB243672	176	GB224183U	166	GSV 3002 262	912	ICLTOC	46
FB243736	176	GB236183BF	167	GUARDIAN2	423	ICX35-HWC	547
FB25160	175	GB236183TF	166	H		ICX35-HWCA	547
FB25224	175	GB236183U	166	HCSTD1DS16153	173	IDS ARCA 2030	883
FB25288	175	GB248183BF	167	HCSTD2DS16243	173	IDS ARCA 3020	883
FB25352	175	GB248183TF	166	HCSTD3SSL16153	173	IDS ARCA 3040	883
FB25416	175	GB248183U	166	HCSTD5SSL16213	173	IDS ARCA 4030	883
FB25480	175	GB260183BF	167	HCSTD7SSL22243	173	IDS ARCA 4050	883
FB25544	175	GB260183TF	166	HDW0442215	898	IDS ARCA 4060	883
FB25608	175	GB260183U	166	HDW0553921	898	IDS ARCA 5040	883
FB25672	175	GB272183BF	167	HDW0558121	898	IDS ARCA 5070	883
FB25736	175	GB272183TF	166	HDW0606130	898	IDS ARCA 6040	883
FB25800	175	GB272183U	166	HDW0675121	898	IDS ARCA 6080	883
FB25864	175	GB284183BF	167	HDW0773921	898	IDS ARCA 7050	883
FB25928	175	GB284183TF	166	HDW0776121	898	IDS ARCA 8060	883
FB501120	176	GB284183U	166	HDW0828130	898	IF96001	267
FB50160	176	GB296183BF	167	HDW1228130	898	IF96003	267
FB50224	176	GB296183TF	166	HDW1428130	898	IF96004	267
FB50288	176	GB296183U	166	HDWD05539	555	IF96005	267
FB50352	176	GBBBC	167	HF SPRING	798	IF96012	267
FB50416	176	GBLM	167	HG 14000	914	IF96014	267
FB50480	176	GBLM2P	167	HG 14001	914	IF96015A	267
FB50544	176	GBTB1	167	HG 14003	914	ILC4S	116
FB50608	176	GBTB2	167	HG 14005	914	ILC4SLD	116
FB50672	176	GBTB3	167	HG 14006	914	ILC4SLDCB1003P	117
FB50736	176	GBTB4	167	HG 14007	914	ILC4SLDCB3P	117
FB50800	176	GBTOC	167	HG 14008	914	ILC4SLDCB801P	117
FB50864	176	GF 10/1S	668	HG14012	914	ILC4SLDCB803P	117
FB50928	176	GFM 10/1S	668	HGK 04700	914	ILC8S	116
FD4	273	GFM 20/2S	668	HGK 04701	914	ILCSB	116
FL-300	142	GFS 101S	668	HGK 04702	914	ILX34-MBS232	536
FLB3202N	550	GFS 10S D 10S	669	HGL 04640	915	ILX34-MBS485	536
FLEXY201N	550	GFS 1S D 10 VD	669	HGL 04641	915	ILX56-PBM	519
FLEXY202N	550	GFS 2 10S 10S	668	HS 10255	875	ILX56-PBS	519
FLEXY203N	550	GFS 2 20S 20S	668	HS 10532	876	ILX69-PBM	505
FLEXY205N	550	GFS 2S D 20 VD	669	HS 10562	875	ILX69-PBS	505
FLX3101N	550	GFS101SIP69K	669	HSP-ANT01-3M	551	IMAX20	788
FLX3402N	550	GFS202S	668	I		IMAX50	788
FMB-01-D-W24	797	GFSM 10/1S	668	IA08BLN25POM1	416	IP00 IP20 PF755TL	386
FP 10674	872	GFSM202S	668	IA12ASN08DOM1	417	IP00 IP20 PF755TR	386
FP 12017	885	GH15-RF1-240VAC	322	IA18ASF05POM1	418	IP21 PF755TL	386
FP 22046	872	GH15-RF5-240VAC	322	IA18ASF08DOM1	418	IP21 PF755TR	386
FP 6040-D	886	GH15-S11	322	IA18ASF15DOM1	418	IP54 PF755TL	386
FR10-GG-40V-32	194	GH15-T11	322	IA18ASN14DOM1	418	IP54 PF755TR	386
FR10-GG-50V-1	194	GH15-T22	322	IA18ELF05UCM1	418	IPS-B036-FN4-VD	442
FR10-GG-50V-10	194	GH15BN-04-240VAC	322	IA18ELN08UCM1	418	IPS-B046-FN4-VD	442
FR10-GG-50V-16	194	GH15GN-04-240VAC	322	IA30ASF15DOM1	418	IPS-B056-FN4-VD	442
FR10-GG-50V-2	194	GH15GN-40-240VAC	322	IA30ASN22DOM1	418	IPS-B066-FN4-VD	442
FR10-GG-50V-20	194	GH15HN-40-240VAC	322	IA30ELF10UCM1	418	IRS01	423
FR10-GG-50V-4	194	GH15JN-40-240VAC	322	IBC108P	25	IS-B-02-01	967
FR10-GG-50V-6	194	GH15LN-04-240VAC	322	IBC112P	25	IS-B-02-02	967
FR14-GG-50V-32	194	GH15LN-40-240VAC	322	IBC115P	25	IS-B-02-03	967
FR14-GG-50V-40	194	GNM 25	913	IBC118P	25	IS-B-02-04	967
FR14-GG-50V-50	194	GP12	949	IBC121P	46	IS-B-02-05	967
FR14-GG-69V-20	194	GP6	949	IBC155P	46	IS-S-02	969
FR22-GG-50V-100	194	GPS-B015-FN4-VD	442	IBCEC1	26	IS-SB-02-01	970
FR22-GG-50V-125	194	GPS-B025-FN4-VD	442	IBD213P	25	IS-SB-02-02	970
FR22-GG-69V-40	194	GPS-B045-FN4-VD	442	IBD218P	25	IS-SB-02-03	970
FR22-GG-69V-50	194	GSF 10	912	IBD255P	25	IS-SB-02-04	970
FR22-GG-69V-63	194	GSF 15	912	IBD312P	46	IS-SB-02-05	970
FR22-GG-69V-80	194	GSF 20	912	IBDEC2	26	ISO3100MGS	202
FS10056	177	GSF 25	912	IC40CNN30COT1	419	ISO3100MYS	202
FS24064	177	GSF 30	912	IC40CNN30PAT1	419	ISO3100PGS	200
				IC40CNN30TAT1	418	ISO3100PYS	200

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
I		ISO480SSYS	203	ISOC310LPRO	978	ISOC510PRO	979
ISO3100SSYS	203	ISO6 63PYS	201	ISOC310LPRW	978	ISOC510PRW	979
ISO3125PGS	200	ISO632PGS	201	ISOC310LRCDPG	985	ISOC510RCDPG	986
ISO3125PYS	200	ISO632PYS	201	ISOC310LRCDPRO	985	ISOC510RCDPRO	986
ISO3160MGS	202	ISO663PGS	201	ISOC310LRCDPRW	985	ISOC510RCDPRW	986
ISO3160MYS	202	ISOAI310PG	984	ISOC310LRCDPVHG	986	ISOC510RCDPVHG	987
ISO3160PGLES	201	ISOAI310PGLB	984	ISOC310LRCDPVHRO	986	ISOC510RCDPVHRO	987
ISO3160PGS	201	ISOAI310PROLB	984	ISOC310LRCDPVHRW	986	ISOC510RCDPVHRW	987
ISO3160PYLES	201	ISOAI315PG	984	ISOC310PG	978	ISOC520PG	979
ISO3160PYS	201	ISOAI315PGLB	984	ISOC310PGDB	978	ISOC520PRO	979
ISO3160SSYS	203	ISOAI315PROLB	984	ISOC310PRO	978	ISOC520PRW	979
ISO3250MGS	202	ISOAI320PG	984	ISOC310PRW	978	ISOC520RCDPG	986
ISO3250MYS	202	ISOAI320PGLB	984	ISOC310RCDPG	985	ISOC520RCDPRO	986
ISO3250PGS	201	ISOAI320PROLB	984	ISOC310RCDPRO	985	ISOC520RCDPRW	986
ISO3250PYS	201	ISOAI332PG	984	ISOC310RCDPRW	985	ISOC520RCDPVHG	987
ISO3250SSYS	203	ISOAI332PGLB	984	ISOC310RCDPVHG	986	ISOC520RCDPVHRO	987
ISO325MGS	202	ISOAI332PROLB	984	ISOC310RCDPVHRO	986	ISOC520RCDPVHRW	987
ISO325MYS	202	ISOAI410PG	984	ISOC310RCDPVHRW	986	ISOC532PG	979
ISO325PGS	200	ISOAI410PGLB	985	ISOC315PG	978	ISOC532PRO	979
ISO325PYS	200	ISOAI410PROLB	985	ISOC315PGDB	978	ISOC532PRW	979
ISO325SSYS	203	ISOAI420PG	984	ISOC315PRO	978	ISOC532RCDPG	986
ISO332PGS	200	ISOAI420PGLB	985	ISOC315PRW	978	ISOC532RCDPRO	986
ISO332PYS	200	ISOAI420PROLB	985	ISOC315RCDPG	985	ISOC532RCDPRW	986
ISO340MGS	202	ISOAI432PG	984	ISOC315RCDPRO	985	ISOC532RCDPVHG	987
ISO340MYS	202	ISOAI432PGLB	985	ISOC315RCDPRW	985	ISOC532RCDPVHRO	987
ISO340PGLES	200	ISOAI432PROLB	985	ISOC315RCDPVHG	986	ISOC532RCDPVHRW	987
ISO340PGS	200	ISOAI440PG	984	ISOC315RCDPVHRO	986	ISOC540PG	979
ISO340PYLES	200	ISOAI440PGLB	985	ISOC315RCDPVHRW	986	ISOC540PRO	979
ISO340PYS	200	ISOAI440PROLB	985	ISOC320FPG	978	ISOC540RCDPG	986
ISO340SSYS	203	ISOAI450PG	984	ISOC320FPRO	978	ISOC540RCDPRO	986
ISO363MGS	202	ISOAI450PGLB	985	ISOC320FPRW	978	ISOC540RCDPVHG	987
ISO363MYS	202	ISOAI450PROLB	985	ISOC320PG	978	ISOC540RCDPVHRO	987
ISO363PGS	200	ISOAI510PG	984	ISOC320PRO	978	ISOC550PG	979
ISO363PYS	200	ISOAI510PGLB	985	ISOC320RCDPG	985	ISOC550PRO	979
ISO363SSYS	203	ISOAI510PROLB	985	ISOC320RCDPRO	985	ISOC550RCDPG	986
ISO380MGS	202	ISOAI520PG	984	ISOC320RCDPVHG	986	ISOC550RCDPRO	986
ISO380MYS	202	ISOAI520PGLB	985	ISOC320RCDPVHRO	986	ISOC550RCDPVHG	987
ISO380PGS	200	ISOAI520PROLB	985	ISOC332PG	978	ISOC550RCDPVHRO	987
ISO380PYS	200	ISOAI532PG	984	ISOC332PRO	978	ISOCAPG	992
ISO380SSYS	203	ISOAI532PGLB	985	ISOC332RCDPG	985	ISOCAPRO	992
ISO4100MGS	202	ISOAI532PROLB	985	ISOC332RCDPRO	985	ISOCAPRW	992
ISO4100MYS	202	ISOAI540PG	984	ISOC332RCDPVHG	986	ISOEX310P	983
ISO4100PGS	200	ISOAI540PGLB	985	ISOC332RCDPVHRO	986	ISOEX310PRO	983
ISO4100PYS	201	ISOAI540PROLB	985	ISOC410PG	978	ISOEX315P	983
ISO4100SSYS	203	ISOAI550PG	984	ISOC410PRO	978	ISOEX315PRO	983
ISO4125PGS	200	ISOAI550PGLB	985	ISOC410PRW	978	ISOEX320P	983
ISO4125PYS	201	ISOAI550PROLB	985	ISOC410RCDPG	986	ISOEX320PRO	983
ISO4160MGS	202	ISOBB1G	990	ISOC410RCDPRO	986	ISOEX332P	983
ISO4160MYS	202	ISOBB1RO	990	ISOC410RCDPRW	986	ISOEX332PRO	983
ISO4160PGLES	201	ISOBB1RW	990	ISOC410RCDPVHG	987	ISOEX410P	983
ISO4160PGS	201	ISOBB2EDG	990	ISOC410RCDPVHRO	987	ISOEX410PRO	983
ISO4160PYLES	202	ISOBB2EDRO	990	ISOC410RCDPVHRW	987	ISOEX420P	983
ISO4160PYS	202	ISOBB2G	990	ISOC420PG	978	ISOEX420PRO	983
ISO4160SSYS	203	ISOBB2PENG	990	ISOC420PRO	978	ISOEX432P	983
ISO4250MGS	202	ISOBB2PENRO	990	ISOC420PRW	978	ISOEX432PRO	983
ISO4250MYS	202	ISOBB2PENRW	990	ISOC420RCDPG	986	ISOEX440P	983
ISO4250PGS	201	ISOBB2RO	990	ISOC420RCDPRO	986	ISOEX440PRO	983
ISO4250PYS	202	ISOBB2RW	990	ISOC420RCDPRW	986	ISOEX450P	983
ISO4250SSYS	203	ISOBB3G	990	ISOC420RCDPVHG	987	ISOEX450PRO	983
ISO425MGS	202	ISOBB3RO	990	ISOC420RCDPVHRO	987	ISOEX510P	983
ISO425MYS	202	ISOBB3RW	990	ISOC420RCDPVHRW	987	ISOEX510PRO	983
ISO425PGS	200	ISOBB4G	991	ISOC432PG	978	ISOEX520P	983
ISO425PYS	201	ISOBB4RO	991	ISOC432PRO	978	ISOEX520PRO	983
ISO425SSYS	203	ISOBB4RW	991	ISOC432PRW	978	ISOEX532P	983
ISO432PGS	200	ISOBB4VHG	991	ISOC432RCDPG	986	ISOEX532PRO	983
ISO432PYS	201	ISOBB4VHRO	991	ISOC432RCDPRO	986	ISOEX540P	983
ISO440MGS	202	ISOBB4VHRW	991	ISOC432RCDPRW	986	ISOEX540PRO	983
ISO440MYS	202	ISOBB6G	991	ISOC432RCDPVHG	987	ISOEX550P	983
ISO440PGLES	200	ISOBB6RO	991	ISOC432RCDPVHRO	987	ISOEX550PRO	983
ISO440PGS	200	ISOBB9G	991	ISOC432RCDPVHRW	987	ISOK1SW120PG	988
ISO440PYLES	201	ISOBB9RO	991	ISOC440PG	978	ISOK1SW120PGLB	989
ISO440PYS	201	ISOBBL1G	991	ISOC440PRO	978	ISOK1SW120PROLB	989
ISO440SSYS	203	ISOBBL1RO	991	ISOC440RCDPG	986	ISOK1SW132PG	988
ISO463MGS	202	ISOBBL1RW	991	ISOC440RCDPRO	986	ISOK1SW132PGLB	989
ISO463MYS	202	ISOBBL2G	991	ISOC440RCDPVHG	987	ISOK1SW132PROLB	989
ISO463PGS	200	ISOBBL2RO	991	ISOC440RCDPVHRO	987	ISOK1SW320PG	988
ISO463PYS	201	ISOBBS1G	990	ISOC450PG	978	ISOK1SW320PGLB	989
ISO463SSYS	203	ISOBBS2G	990	ISOC450PRO	978	ISOK1SW320PROLB	989
ISO480MGS	202	ISOBKBB	992	ISOC450RCDPG	986	ISOK1SW332PG	988
ISO480MYS	202	ISOBKL	992	ISOC450RCDPRO	986	ISOK1SW332PGLB	989
ISO480PGS	200	ISOBKS	992	ISOC450RCDPVHG	987	ISOK1SW332PROLB	989
ISO480PYS	201	ISOBKS1	992	ISOC450RCDPVHRO	987	ISOK1SW350PG	988
		ISOC310LPG	978	ISOC510PG	979	ISOK1SW350PGLB	989

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
I		ISOPS432PRO	977	ISOSO450RCDPRO	988	ISOSWAGLANDSH	992
ISOK1SW350PROLB	989	ISOPS440P	977	ISOSO510PG	981	J	
ISOK2SW120PG	988	ISOPS440PRO	977	ISOSO510PGLB	982	JDFT049	955
ISOK2SW120PGLB	989	ISOPS450P	977	ISOSO510PROLB	982	JDFT050	955
ISOK2SW120PROLB	989	ISOPS450PRO	977	ISOSO510PRWLB	982	K	
ISOK2SW132PG	988	ISOPS510P	977	ISOSO510RCDPG	988	KEY92268	138
ISOK2SW132PGLB	989	ISOPS510PRO	977	ISOSO510RCDPRO	988	KEYCL001	138
ISOK2SW132PROLB	989	ISOPS520P	977	ISOSO510RCDPRW	988	Kinetix 5700	631
ISOK2SW320PG	988	ISOPS520PRO	977	ISOSO520PG	981	KL1049646	944
ISOK2SW320PGLB	989	ISOPS532P	977	ISOSO520PGLB	982	KL1049650	944
ISOK2SW320PROLB	989	ISOPS532PRO	977	ISOSO520PRWLB	982	KL2105	948
ISOK2SW332PG	988	ISOPS540P	977	ISOSO520RCDPG	988	KL2108	948
ISOK2SW332PGLB	989	ISOPS540PRO	977	ISOSO520RCDPRO	988	KL2214	948
ISOK2SW332PROLB	989	ISOPS550P	977	ISOSO520RCDPRW	988	KL2303	949
ISOK2SW350PG	988	ISOPS550PRO	977	ISOSO532PG	981	KL2492	947
ISOK2SW350PGLB	989	ISORCDNPG	991	ISOSO532PGLB	982	KL2494	947
ISOK2SW350PROLB	989	ISORCDNPRO	991	ISOSO532PROLB	982	KL2496A	947
ISOKC1SW120PG	989	ISORCDNPRW	991	ISOSO532PRWLB	982	KL2496R	947
ISOKC1SW120PGLB	990	ISOSO310LPG	981	ISOSO532RCDPG	988	KL2497A	947
ISOKC1SW120PROLB	990	ISOSO310LPGLB	982	ISOSO532RCDPRO	988	KL2497R	947
ISOKC1SW132PG	989	ISOSO310LPROLB	982	ISOSO532RCDPRW	988	KL980542	946
ISOKC1SW132PGLB	990	ISOSO310LPRWLB	982	ISOSO540PG	981	KL980545	946
ISOKC1SW132PROLB	990	ISOSO310LRCDPG	987	ISOSO540PGLB	982	KL980548	946
ISOKC1SW320PG	989	ISOSO310LRCDPRO	987	ISOSO540PROLB	982	KL980549	946
ISOKC1SW320PGLB	990	ISOSO310LRCDPRW	987	ISOSO540RCDPG	988	KL980550	946
ISOKC1SW320PROLB	990	ISOSO310PG	981	ISOSO540RCDPRO	988	KL980551	946
ISOKC1SW332PG	989	ISOSO310PGLB	982	ISOSO550PG	981	KL980552	947
ISOKC1SW332PGLB	990	ISOSO310PROLB	982	ISOSO550PGLB	982	KL980553	947
ISOKC1SW332PROLB	990	ISOSO310PRWLB	982	ISOSO550PROLB	982	KL980554	946
ISOKC1SW350PG	989	ISOSO310RCDPG	987	ISOSO550RCDPG	988	KL980557	946
ISOKC1SW350PGLB	990	ISOSO310RCDPRO	987	ISOSO550RCDPRO	988	KL980558	946
ISOKC1SW350PROLB	990	ISOSO310RCDPRW	987	ISOSW1102PG	979	KL980559	946
ISOKC2SW120PG	989	ISOSO315PG	981	ISOSW1102PGLB	980	KL980605	946
ISOKC2SW120PGLB	990	ISOSO315PGLB	982	ISOSW1102PROLB	980	KL980620	946
ISOKC2SW120PROLB	990	ISOSO315PROLB	982	ISOSW1102PRWLB	980	KL980621	946
ISOKC2SW132PG	989	ISOSO315PRWLB	982	ISOSW110PG	979	KL980622	946
ISOKC2SW132PGLB	990	ISOSO315RCDPG	987	ISOSW110PGDB	979	KL980634	946
ISOKC2SW132PROLB	990	ISOSO315RCDPRO	987	ISOSW110PGLB	980	KL980635	947
ISOKC2SW320PG	989	ISOSO315RCDPRW	987	ISOSW110PROLB	980	KL980636	947
ISOKC2SW320PGLB	990	ISOSO320FPG	981	ISOSW110PRWLB	980	KL980638	947
ISOKC2SW320PROLB	990	ISOSO320FPGLB	982	ISOSW115PG	979	KL980658	946
ISOKC2SW332PG	989	ISOSO320FPROLB	982	ISOSW115PGDB	979	KL980662	946
ISOKC2SW332PGLB	990	ISOSO320FPRWLB	982	ISOSW115PGLB	980	KL980726	947
ISOKC2SW332PROLB	990	ISOSO320PG	981	ISOSW115PROLB	980	KL980774	947
ISOKC2SW350PG	989	ISOSO320PGLB	982	ISOSW115PRWLB	980	KL980775	947
ISOKC2SW350PGLB	990	ISOSO320PROLB	982	ISOSW120PG	979	KL980784	947
ISOKC2SW350PROLB	990	ISOSO320RCDPG	987	ISOSW120PGLB	980	KL980785	947
ISOL1H1G	992	ISOSO320RCDPRO	987	ISOSW120PROLB	980	KL980785	947
ISOL1H1RO	992	ISOSO332PG	981	ISOSW132PG	979	KL980785	947
ISOL1H1RW	992	ISOSO332PGLB	982	ISOSW132PGLB	980	KL980785	947
ISOL1H2G	992	ISOSO332PROLB	982	ISOSW132PROLB	980	KL980785	947
ISOL1H2RO	992	ISOSO332RCDPG	987	ISOSW310PG	979	KL980785	947
ISOL1H2RW	992	ISOSO332RCDPRO	987	ISOSW310PGLB	980	KL980785	947
ISOL2H2G	992	ISOSO410PG	981	ISOSW310PROLB	980	KL980785	947
ISOL2H3G	992	ISOSO410PGLB	982	ISOSW310PRWLB	980	KL980785	947
ISOL2H3RO	992	ISOSO410PROLB	982	ISOSW320PG	979	KL980785	947
ISOPA420P	977	ISOSO410PRWLB	982	ISOSW320PGLB	980	KL980785	947
ISOPA432P	977	ISOSO410RCDPG	988	ISOSW320PROLB	980	KL980785	947
ISOPA440P	977	ISOSO410RCDPRO	988	ISOSW320PRWLB	980	KL980785	947
ISOPA450P	977	ISOSO410RCDPRW	988	ISOSW332PG	979	KL980785	947
ISOPA520P	977	ISOSO420PG	981	ISOSW332PGLB	980	KL980785	947
ISOPA532P	977	ISOSO420PGLB	982	ISOSW332PROLB	980	KL980785	947
ISOPA540P	977	ISOSO420PROLB	982	ISOSW332PRWLB	980	KL980785	947
ISOPA550P	977	ISOSO420PRWLB	982	ISOSW340PG	979	KL980785	947
ISOPS310LP	977	ISOSO420RCDPG	988	ISOSW340PGLB	980	KL980785	947
ISOPS310LPRO	977	ISOSO420RCDPRO	988	ISOSW340PROLB	980	KL980785	947
ISOPS310P	976	ISOSO420RCDPRW	988	ISOSW350PG	979	KL980785	947
ISOPS310PRO	976	ISOSO432PG	981	ISOSW350PGLB	980	KL980785	947
ISOPS315P	976	ISOSO432PGLB	982	ISOSW350PROLB	980	KL980785	947
ISOPS315PRO	976	ISOSO432PROLB	982	ISOSW420PG	979	KL980785	947
ISOPS320FP	976	ISOSO432PRWLB	982	ISOSW420PGLB	980	KL980785	947
ISOPS320FPRO	976	ISOSO432RCDPG	988	ISOSW420PROLB	980	KL980785	947
ISOPS320P	977	ISOSO432RCDPRO	988	ISOSW420PRW LB	980	KL980785	947
ISOPS320PRO	977	ISOSO432RCDPRW	988	ISOSW432PG	979	KL980785	947
ISOPS332P	977	ISOSO440PG	981	ISOSW432PGLB	980	KL980785	947
ISOPS332PRO	977	ISOSO440PGLB	982	ISOSW432PROLB	980	KL980785	947
ISOPS410P	977	ISOSO440PROLB	982	ISOSW432PRW LB	980	KL980785	947
ISOPS410PRO	977	ISOSO440RCDPG	988	ISOSW440PG	979	KL980785	947
ISOPS420P	977	ISOSO440RCDPRO	988	ISOSW440PGLB	980	KL980785	947
ISOPS420PRO	977	ISOSO450PG	981	ISOSW440PROLB	980	KL980785	947
ISOPS432P	977	ISOSO450PGLB	982	ISOSW440PRWLB	980	KL980785	947
		ISOSO450PROLB	982	ISOSWAGLAND	992		
		ISOSO450RCDPG	988				

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
K							
KT5-PE1-11	339	KTA7-25S-0P63A	340	LABLEG1-48D	140	LFC2-A-4350S	660
KT5-PE1-20	339	KTA7-25S-10A	340	LABLEG4996D	140	LFC2-A-4425	663
KT5-SAR	339	KTA7-25S-16A	340	LC02	903	LFC2-A-4426	663
KT5-SHS	339	KTA7-25S-1A	340	LD12/15	118	LFC2-A-4427	663
KT5-WSN	339	KTA7-25S-1P6A	340	LD15/18	118	LFC2-A-4428	663
KT7-25-A2E	342	KTA7-25S-20A	340	LD18/21	118	LFC2-A-4525	663
KT7-25-CD-06S-00H	343	KTA7-25S-25A	340	LD24	118	LFC2-A-4526	663
KT7-25-CD-16S-00H	343	KTA7-25S-2P5A	340	LD6/8	118	LFC2-A-4527	663
KT7-25-CD-24S-00H	343	KTA7-25S-4A	340	LD9/12	118	LFC2-A-4528	663
KT7-25H-PEC23	343	KTA7-25S-6P3A	340	LE 2-12-1781	658	LFC2-A-4529	663
KT7-25H-PKC23	343	KTA7-32H-29A	340	LE 2-12-1782	658	LFC2-A-4730R	665
KT7-25H-PNC23	343	KTA7-32H-32A	340	LE 2-12-1783	658	LFC2-A-4825A	664
KT7-25H-PNC37	343	KTA7-32S-29A	340	LE 2-12-1784	658	LFC2-A-4827A	663
KT7-25S-PEC23	343	KTA7-32S-32A	340	LE 2-12-2251	660	LFC2-A-4875	664
KT7-25S-PEK12	343	KTA7-45H-10A	340	LE 2-12-2501	661	LFC2-A-4925	662
KT7-25S-PNC23	343	KTA7-45H-16A	340	LE 2-12-2502	661	LFC2-B-001	659
KT7-25S-PSC23	343	KTA7-45H-20A	340	LE 2-12-2503	661	LFC2-CC-4-001	659
KT7-32-A3	342	KTA7-45H-25A	340	LE 2-12-2504	661	LFC2-CC-4178I	659
KT7-32-DB-45-2	342	KTA7-45H-32A	340	LE 2-12-3261	661	LFC2-CC-4325	661
KT7-32-DB-45-3	342	KTA7-45H-45A	340	LE 2-12-3262	661	LFC2-CC-4350	660
KT7-32-DB-45-4	342	KTB7-25H-10A	341	LE 2-12-3501	659	LFC2-CC-4925	662
KT7-32-DB-45-5	342	KTB7-25H-16A	341	LE 2-12-3502	659	LFC2-CK-4225	660
KT7-32-DB-54-2	342	KTB7-25H-25A	341	LE 2-12-3503	659	LFC2-E-4-001	666
KT7-32-DB-54-3	342	KTB7-25H-2P5A	341	LE 2-12-3504	659	LFHD04	898
KT7-32-DB-54-4	342	KTB7-25H-4A	341	LE 2-12-4261	663	LFS 2-E-4-001	666
KT7-32-DB-54-5	342	KTB7-25H-6P3A	341	LE 2-12-5251	662	LFS 2-L-4-001	666
KT7-32-DBA	342	KTB7-25S-0P25A	341	LE 2-12-5261	662	LFS2-A-4-001	666
KT7-45H-PKC37	343	KTB7-25S-0P4A	341	LE 2-12-5271	662	LFS2-A-4-427	663
KT7-45H-PNC37	343	KTB7-25S-0P63A	341	LE 2-12-7303	665	LFS2-A-4178I	659
KT7-45H-PNC43	343	KTB7-25S-1A	341	LE 2-12-8251	664	LFS2-A-4225	660
KT7-45H-PSC43	343	KTB7-25S-1P6A	341	LE 2-12-8271	663	LFS2-A-4225R	660
KT7-AA-24VDC	342	KTB7-25S-2P5A	341	LE 2-12-8751	664	LFS2-A-4250	661
KT7-AYTG2	343	KTB7-45H-25A	341	LE 2-12-9251	662	LFS2-A-4250R	661
KT7-AYTJ2	343	KTB7-45H-32A	341	LE 2-16-1783	658	LFS2-A-4325	661
KT7-DS	342	KTB7-45H-45A	341	LE 2-20-1781	658	LFS2-A-4325R	661
KT7-HT	342	KTC7-25S-0P16A	341	LE 2-20-1782	658	LFS2-A-4350	660
KT7-HTFCN	342	KTC7-25S-0P25A	341	LE 2-20-1783	658	LFS2-A-4350S	660
KT7-HTL	342	KTC7-25S-0P63A	341	LE 2-20-1784	658	LFS2-A-4425	663
KT7-HTN	342	KTC7-25S-10A	341	LE 2-20-2501	661	LFS2-A-4426	663
KT7-HTRY	342	KTC7-25S-16A	341	LE 2-20-2502	661	LFS2-A-4428	663
KT7-KN1	342	KTC7-25S-1A	341	LE 2-20-2503	661	LFS2-A-4525	663
KT7-KRY1	342	KTC7-25S-1P6A	341	LE 2-20-3501	659	LFS2-A-4526	663
KT7-PA1-02	342	KTC7-25S-2P5	341	LE 2-20-3502	659	LFS2-A-4527	663
KT7-PA1-11	342	KTC7-25S-4A	341	LE 2-20-3503	659	LFS2-A-4528	663
KT7-PA1-20	342	KTC7-25S-6P3A	341	LE 2-20-5261	662	LFS2-A-4529	663
KT7-PAF1-M11	342	KTO 11100000	916	LE 2-20-5271	662	LFS2-A-4730R	665
KT7-PAF1-S01/M01	342	KTS 11101000	916	LE 2-25-1783	658	LFS2-A-4825A	664
KT7-PAF1-S01/M10	342	L		LE 2-25-2503	661	LFS2-A-4827A	663
KT7-PAF1-S10/M01	342	L 2-G3667	666	LE 2-25-3503	659	LFS2-A-4875	664
KT7-PAF1-S10/M10	342	L02	876	LE 2-25-3504	659	LFS2-A-4925	662
KT7-PE1-01	342	L04	876	LE 2-25-7303	665	LFS2-E-4178I	659
KT7-PE1-02	342	L06	876	LE 2-25-8271	663	LFS2-E-4350	660
KT7-PE1-10	342	L08	876	LE 2-25-8751	664	LFS2-E-4350R	660
KT7-PE1-11	342	L10	876	LE 9304	903	LFS2-E-4730R	665
KT7-PE1-20	342	L12II	876	LE2-20-3252	659	LFS2-N-6-178	659
KT7-PEF1-S10/N01	342	L13	876	LE2-25-1782	658	LFS2-P-4-350R	660
KT7-PEF1-S10/N10	342	L24II	876	LE2-25-1784	658	LFS2A4350R	660
KTA5-32A-A16	339	L43II	876	LE2-25-2254	660	LHC528	903
KTA5-32A-A25	339	LA 2-12-1751/Q	665	LE2-25-3253	659	LHC534	903
KTA5-32A-A40	339	LA 2-12-1781	658	LE2-25-3254	659	LHC536	903
KTA5-32A-A63	339	LA 2-12-3251/Q	665	LE2-25-4512	663	LI503	903
KTA5-32A-B10	339	LA 2-12-3501	660	LE2-25-5252	662	LL 2-A-4-000	666
KTA5-32A-B16	339	LA 2-12-3502	660	LE2-25-8251	664	LL 2-A-4-175I	666
KTA5-32A-B25	339	LA 2-12-UNI-COS	665	LE7-100-1753	219	LL 2-A-4-178 I	666
KTA5-32A-B40	339	LA 2-16-1783	658	LE7-16-1753	219	LL 2-A-4-225R	666
KTA5-32A-B63	339	LA 2-25-1783	658	LE7-25-1753	219	LL 2-A-4-250	666
KTA5-32A-C10	339	LA 2-G 3578	666	LE7-32-1753	219	LL 2-A-4-250R	666
KTA5-32A-C12	339	LA 2-G-2830	667	LE7-40-1753	219	LL 2-A-4-325	666
KTA5-32A-C16	339	LA 2-G-2853	667	LE7-63-1753	219	LL 2-A-4-350	666
KTA5-32A-C20	339	LA 2-G-3194	667	LE7-80-1753	219	LL 2-A-4-350R	666
KTA5-32A-C25	339	LA 2-G-3195	667	LED-0254.0-001	904	LL 2-A-4-350S	666
KTA5-32A-C32	339	LA 2-G-3393	667	LED-0254.0-101	904	LL 2-A-4-375	666
KTA7-25H-10A	340	LA 2-G-3394	667	LF 002	892	LL 2-A-4-425	666
KTA7-25H-16A	340	LA 2-G-3399	667	LFC2-A-4-001	666	LL 2-A-4-428	666
KTA7-25H-20A	340	LA 2-G-3398	667	LFC2-A-4-178I	659	LL 2-A-4-526	666
KTA7-25H-2P5A	340	LA 2-UNIEMITS	665	LFC2-A-4-225	660	LL 2-A-4-527	666
KTA7-25H-4A	340	LA2-12-9251	662	LFC2-A-4-225R	660	LL 2-A-4-528	666
KTA7-25H-6P3A	340	LA2-20-3252	660	LFC2-A-4-250	661	LL 2-A-4-529	666
KTA7-25S-0P16A	340	LA2-25-1754	659	LFC2-A-4250R	661	LL 2-A-4-730R	666
KTA7-25S-0P25A	340	LA212UNICOSK	659	LFC2-A-4325	661	LL 2-A-4-825A	666
KTA7-25S-0P4A	340	LABLE148DT	140	LFC2-A-4325R	661	LL 2-A-4-827A	666
		LABLE4996DT	140	LFC2-A-4350	660	LL 2-A-4-875	666
				LFC2-A-4350R	660	LL 2-A-4-925	666

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
L		MAD1201030R5	891	MCD18124R5	900	MOD6-SD2-40-230	152
LL 2-A-4725	666	MAD1201230R5	891	MCD18125R5	900	MOD6-SD4-20-400	152
LL 2-A-6-175I	666	MAD1201240R5	891	MCD18164R5	900	MOD6-SD4-40-400	152
LL 2-A-6-375	666	MAD1401030R5	891	MCD20124R5	900	MOD6106	18
LL 2-I-4-000	666	MAP0306030R5	891	MCD20125R5	900	MOD6110	18
LL 2-I-4-178 I	666	MAP0308030R5	891	MCD20126R5	900	MOD6116	18
LL 2-P-4-000	666	MAS0202015R5	889	MCD20128R5	900	MOD6120	18
LL 2-P4-925ELS	666	MAS0203015R5	889	MCD20164R5	900	MOD6125	18
LLH500N	903	MAS0252015R5	889	MCDS 18125-316	907	MOD612PK2	115
LLH501N	903	MAS0252515R5	889	MCETH	265	MOD612PKV2	115
LLH502N	903	MAS0302515R5	889	MCS18064R5	900	MOD6132	18
LLH503N	903	MAS0303015R5	889	MCS18065R5	900	MOD6140	18
LLHS501N	908	MAS0303021R5	889	MCS18084R5	900	MOD6150	18
LLHS502N	908	MAS0305015R5	889	MCS18085R5	900	MOD6163	18
LMT6 604	892	MAS0352515R5	889	MCS18104R5	900	MOD6206	18
LMT6 92268	892	MAS0403021R5	889	MCS18105R5	900	MOD6210	18
LMT6 CL001	892	MAS0404021R5	889	MCS20064R5	900	MOD6216	18
LP-24002	564	MAS0404021R5X15	890	MCS20065R5	900	MOD6220	18
LP-25001	564	MAS0405021R5	889	MCS20066R5	900	MOD6225	18
LSK503	893	MAS0406021R5	889	MCS20084R5	900	MOD6232	18
LSK505	893	MAS0503021R5	889	MCS20085R5	900	MOD6240	18
LSK523	893	MAS0503026R5	890	MCS20086R5	900	MOD6250	18
LSK524	893	MAS0504021R5	889	MCS20104R5	900	MOD6263	18
LSK527	893	MAS0504026R5	890	MCS20105R5	900	MOD6306	18
LSMK01	893	MAS0504030R5	890	MCS20106R5	900	MOD6310	18
LTL2	892	MAS0505021R5	889	MCS20108R5	900	MOD6316	18
M		MAS0505030R5	890	MCSS 18085-316	907	MOD6320	18
M-SDS7-xx-xxxVAC	353	MAS0604021R5	889	MCSS 20086-316	907	MOD6325	18
M22IVS	139	MAS0604021R5X15	890	MF CAB	886	MOD6332	18
M6NC2-12-18-3-U	170	MAS0604030R5	890	MF72421	266	MOD6340	18
M6NC2-18-18-3-U	170	MAS0605021R5	889	MF96002	267	MOD6350	18
M6NC2-24-18-3-U	170	MAS0605030R5	890	MF96021	267	MOD6363	18
M6NC2-36-18-3-U	170	MAS0606021R5	889	MFD4411	266	MOD6MS1100	25
M6NC2-48-18-3-U	170	MAS0606021R5X15	890	MFD4421	266	MOD6MS180	25
M6NC2-60-18-3-U	170	MAS0606030R5	890	MFD44B1	266	MOD6MS2100	25
M6NC2-72-18-3-U	170	MAS0606040R5	890	MF16R4	265	MOD6MS3100	25
M6NC2-84-18-3-U	170	MAS0608030R5	890	MFQ96021	268	MOD6RCBO1-10-30-AL	21
M6NC2-96-18-3-U	170	MAS0705021R5	889	MFR 012	916	MOD6RCBO1-16-30-AL	21
M6RCBD-06-10-CAN	22	MAS0705026R5	890	MI100CT	792	MOD6RCBO1-20-30-AL	21
M6RCBD-06-30-CAN	22	MAS0804030R5	890	MI20CT	792	MOD6RCBO1-25-30-AL	21
M6RCBD-10-10-CAN	22	MAS0806021R5	889	MI5CT	792	MOD6RCBO1-32-30-AL	21
M6RCBD-10-30-CAN	22	MAS0806021R5X15	890	MIV10	872	MOD6RCBO2-06-10-A	23
M6RCBD-16-10-CAN	22	MAS0806030R5	890	MIV100	871	MOD6RCBO2-10-10-A	23
M6RCBD-16-30-CAN	22	MAS0806030R5X15	890	MIV125	871	MOD6RCBO2-10-30-A	23
M6RCBD-20-10-CAN	22	MAS0806040R5	890	MIV15	872	MOD6RCBO2-16-10-A	23
M6RCBD-20-30-CAN	22	MAS0808021R5	889	MIV150	871	MOD6RCBO2-16-30-A	23
M6RCBD-25-10-CAN	22	MAS0808030R5	890	MIV175	871	MOD6RCBO2-20-10-A	23
M6RCBD-25-30-CAN	22	MAS0808040R5	890	MIV200	871	MOD6RCBO2-20-30-A	23
M6RCBD-32-10-CAN	22	MAS1006030R5	890	MKD16124R5	900	MOD6RCBO2-25-30-A	23
M6RCBD-32-30-CAN	22	MAS1006030R5X15	890	MKD18124R5	900	MOD6RCBO2-32-30-A	23
M6RCBD-AFDD	23	MAS1008030R5	890	MKD18164R5	900	MOD6RCBO2-40-30-A	23
M6RCBF0630A	23	MAS1008030R5X15	890	MKD20124R5	900	MOD6RCCB2-40-30-A	21
M6RCBF1030A	23	MAS1008040R5	890	MKD20164R5	900	MOD6RCCB2-63-30-A	21
M6RCBF1630A	23	MAS1206030R5	890	MKS16064R5	899	MOD6RCCB4-40-30-A	21
M6RCBF2030A	23	MAS1206030R5X15	890	MKS16084R5	899	MOD6RCCB4-63-30-A	21
M6RCBF2530A	23	MAS1208030R5	890	MKS16104R5	899	MOLED100-01A	926
M6RCBF3230A	23	MAS1208030R5X15	890	MKS18064R5	899	MOLED100-01G	926
M6RCBS-06-10-CAN	22	MAS1208040R5	890	MKS18084R5	899	MOLED100-01R	926
M6RCBS-06-30-CAN	22	MB 10564	876	MKS18104R5	899	MOLED100-02A	926
M6RCBS-10-10-CAN	22	MB 10622 S	876	MKS20064R5	899	MOLED100-02G	926
M6RCBS-10-30-CAN	22	MB 10631	876	MKS20084R5	899	MOLED100-02R	926
M6RCBS-16-10-CAN	22	MB 10666	875	MKS20104R5	899	MOLED100-05A	926
M6RCBS-16-30-CAN	22	MB 10674	876	MMH02	893	MOLED100-05G	926
M6RCBS-20-10-CAN	22	MB CAB	887	MMHS02	896	MOLED100-05R	926
M6RCBS-20-30-CAN	22	MB-CC-1	191	MMSH06	893	MOLED125-02A	927
M6RCBS-25-10-CAN	22	MB-CC-2	191	MO50003	934	MOLED125-02B	927
M6RCBS-25-30-CAN	22	MB-CC-3	191	MO50004	934	MOLED125-02G	927
M6RCBS-32-10-CAN	22	MBB-00-160A-3P	191	MO50007	934	MOLED125-02R	927
M6RCBS-32-30-CAN	22	MBB-1-250A-3P	191	MO50010	934	MOLED125-02W	927
M6RCBT0630A	24	MBB-CS-00-3P	191	MO50023	966	MOLED125-03A	928
M6RCBT1030A	24	MBB-CS-1-3P	191	MO50064	933	MOLED125-03G	928
M6RCBT1630A	24	MBB-CS-2-3P	191	MO50065	933	MOLED125-03R	928
M6RCBT2030A	24	MBB000125A3P	191	MO50066	933	MOLED125-04A	928
M6RCBT2530A	24	MBP-00-160A-3P	191	MO50067	933	MOLED125-04B	928
M6RCBT3230A	24	MBP-1-250A-3P	191	MO50068	933	MOLED125-04G	928
M6RCBT4030A	24	MBP-2-400A-3P	191	MO50080	934	MOLED125-04R	928
M6RCBT5030A	24	MBP-3-630A3P	191	MO50124	934	MOLED125-04W	928
M6RCBT6330A	24	MBP-SW	191	MO50125	934	MOLED195-02WH-A	927
MAD0608030R5	891	MBP000125A3P	191	MO50126	934	MOLED195-02WH-B	927
MAD0801230R5	891	MBS LH	872	MOBILE91110	621	MOLED195-02WH-C	927
MAD0801240R5	891	MC485232	265	MOD6-SD1-20-230	152	MOLED195-02WH-G	927
MAD1001030R5	891	MC485232M	265	MOD6-SD1-40-230	152	MOLED195-02WH-H	927
		MCBACIP	265	MOD6-SD2-20-230	152	MOLED195-05WH-A	927

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
M							
MOLED195-05WH-B	927	MOX400-22R	932	MTSP160N160SE33	238	MVI56-PDPS	519
MOLED195-05WH-C	927	MOX401-18A	932	MTSP160N160SE44	239	MVI56E-61850S	519
MOLED195-05WH-G	927	MOX401-18B	932	MTSP160N160TM33	238	MVI56E-AFC	520
MOLED195-05WH-R	927	MOX401-18G	932	MTSP160N160TM44	238	MVI56E-DNPNET	519
MOLED400-04-B	929	MOX500-22B	932	MTSP250D250NN33	239	MVI56E-GSC	519
MOLED400-04-C	929	MOX501-18R	932	MTSP250D250NN44	240	MVI56E-MCM	519
MOLED400-04-G	929	MOX80-02A	931	MTSP250F250BE33	239	MVI56E-MCMR	519
MOLED400-04A	929	MOX80-02R	931	MTSP250F250BE44	239	MVI56E-MCMXT	519
MOLED400-04R	929	MOX80-04A	931	MTSP250F250SE33	239	MVI56E-MNET	519
MOLED401-02A	929	MOX80-04R	931	MTSP250F250SE44	239	MVI56E-MNETC	519
MOLED401-02B	929	MP 10080	886	MTSP250F250TM33	239	MVI56E-MNETCR	519
MOLED401-02C	929	MP 1206	869	MTSP250F250TM44	239	MVI56E-MNETR	519
MOLED401-02G	929	MP 1912	864	MTSP250H250BE33	239	MVI56E1850C	519
MOLED401-02R	929	MP 2016	864	MTSP250H250BE44	239	MVI69-104S	505
MOLED80-02A	925	MP 2419	864	MTSP250H250SE33	239	MVI69-DFNT	506
MOLED80-02B	925	MP 2924	864	MTSP250H250SE44	239	MVI69-DNP	506
MOLED80-02G	925	MP 3020	886	MTSP250H250TM33	239	MVI69-DNPSNET	506
MOLED80-02R	925	MP 3429	864	MTSP250H250TM44	239	MVI69-MCM	505
MOLED80-04A	925	MP 4030	886	MTSP250N250BE33	239	MVI69E-AFC	505
MOLED80-04B	925	MP 4030 P	886	MTSP250N250BE44	239	MVI69E-MBS	505
MOLED80-04G	925	MP 5040	886	MTSP250N250SE33	239	MVI69E-MBTC	505
MOLED80-04R	925	MP 6040	886	MTSP250N250SE44	239	MVI69L-MBS	505
MOLEDA100-02A	926	MP 6040 P	886	MTSP250N250TM33	239	MVI69L-MBTC	505
MOLEDA100-02G	926	MP 7050	886	MTSP250N250TM44	239		
MOLEDA100-02R	926	MP 8060	886	MTSP400D400NN33	240	N	
MOLEDA100-05A	926	MPA 06	902	MTSP400D400NN44	240	N000 10	192
MOLEDA100-05G	926	MPAL 1206	909	MTSP400E400TM33	240	N000 100	192
MOLEDA100-05R	926	MPAL 1208	909	MTSP400E400TM44	240	N000 125	192
MOLEDA125-01	929	MPAL 1406	909	MTSP400F400BE33	240	N000 16	192
MOLEDA125-02A	928	MPAL 1408	909	MTSP400F400BE44	240	N000 20	192
MOLEDA125-02B	928	MPD02	902	MTSP400F400SE33	240	N000 25	192
MOLEDA125-02G	928	MPF1800	903	MTSP400F400SE44	240	N000 32	192
MOLEDA125-02R	928	MPF2000	903	MTSP400F400TM33	240	N000 35	192
MOLEDA125-03A	928	MPG 06R5	901	MTSP400F400TM44	240	N000 40	192
MOLEDA125-03G	928	MPG 08R5	901	MTSP400H400BE33	240	N000 50	192
MOLEDA125-03R	928	MPG 10R5	901	MTSP400H400BE44	240	N000 6	192
MOLEDA125-04A	928	MPG 12R5	901	MTSP400H400SE33	240	N000 63	192
MOLEDA125-04B	928	MPL-A220T-HJ72AA	633	MTSP400H400SE44	240	N000 80	192
MOLEDA125-04G	928	MPL-A230P-VJ72AA	633	MTSP400H400TM33	240	N1 100	192
MOLEDA125-04R	928	MPL-A230P-VJ74AA	633	MTSP400H400TM44	240	N1 125	192
MOLEDTL-02-RAG	930	MPL-A320P-SJ72AA	633	MTSP400N400BE33	240	N1 160	192
MOLEDTL-02-RG	930	MPL-A430H-SJ72AA	633	MTSP400N400BE44	240	N1 200	192
MOLEDTL-02A	930	MPL-B220T-VJ72AA	634	MTSP400N400SE33	240	N1 250	192
MOLEDTL-02G	930	MPL-B230P-EJ72AA	634	MTSP400N400SE44	240	N1 35	192
MOLEDTL-02R	930	MPL-B230P-EJ74AA	634	MTSP400N400TM33	240	N1 50	192
MOLEDTL-05-RAG	930	MPL-B230P-VJ72AA	634	MTSP400N400TM44	240	N1 63	192
MOLEDTL-05-RG	930	MPL-B230P-VJ74AA	634	MTSP400S400BE33	240	N1 80	192
MOLEDTL-05A	930	MPL-B320P-MJ72AA	634	MTSP400S400BE44	240	N100-PAG	743
MOLEDTL-05G	930	MPL-B330P-MJ72AA	634	MTSP400S400SE33	240	N2 100	193
MOLEDTL-05R	930	MPL-B330P-SJ72AA	634	MTSP400S400SE44	240	N2 125	193
MOLEDTLM-02A	936	MPL-B430P-MJ72AA	634	MTSP400S400TM33	240	N2 160	193
MOLEDTLM-02B	936	MPL-B430P-SJ72AA	634	MTSP400S400TM44	240	N2 200	193
MOLEDTLM-02G	936	MPL-B4560F-MJ74AA	634	MTSP630D630NN33	241	N2 250	193
MOLEDTLM-02R	936	MPL-B580J-MJ74AA	634	MTSP630D630NN44	241	N2 315	193
MOLEDTLM-02W	936	MPS ARCA 3020	884	MTSP630E630TM33	241	N2 355	193
MOLEDTLM-AUD-02	936	MPS ARCA 4030	884	MTSP630E630TM44	241	N2 400	193
MOLEDTLM-BC	936	MPS ARCA 5040	884	MTSP630F630BE33	241	N2 80	193
MOLEDTLM-FCP100	936	MPS ARCA 6040	884	MTSP630F630BE44	241	N3 400	193
MOLEDTLM-LCP10	936	MPS ARCA 7050	884	MTSP630F630SE33	241	N3 500	193
MOLEDTLM-LCP100	936	MPS ARCA 8060	884	MTSP630F630SE44	241	N3 630	193
MOR017	954	MPS ARCA 3020 P	884	MTSP630F630TM33	241	N3 800	193
MOR022	954	MPS ARCA 4030 P	884	MTSP630F630TM44	241	NB160000	215
MOR400-05A	933	MPS ARCA 5040 P	884	MTSP630H630BE33	241	NB250000	215
MOR400-05B	933	MPS ARCA 6040 P	884	MTSP630H630BE44	241	NBA-FP	742
MOR400-05G	933	MPS ARCA 7050 P	884	MTSP630H630SE33	241	NBB-FP	742
MOR400-05R	933	MPS ARCA 8060 P	884	MTSP630H630SE44	241	NBBG	742
MOR401-14A	933	MTSP160D160NN33	239	MTSP630H630TM33	241	NC2-12-18-3BF	160
MOR401-14B	933	MTSP160D160NN44	239	MTSP630H630TM44	241	NC2-12-18-3TF	160
MOR401-14G	933	MTSP160F160BE33	238	MTSP630N630BE33	241	NC2-12-18-3U	159
MOR401-14R	933	MTSP160F160BE44	238	MTSP630N630SE33	241	NC2-18-18-3BF	160
MOX195-02WHA	931	MTSP160F160SE33	238	MTSP630N630SE44	241	NC2-18-18-3TF	160
MOX195-02WHB	931	MTSP160F160SE44	239	MTSP630N630TM33	241	NC2-18-18-3U	159
MOX195-02WHG	931	MTSP160F160TM33	238	MTSP630N630TM44	241	NC2-24-18-2U	162
MOX195-02WHR	931	MTSP160F160TM44	238	MTSP630S630BE33	241	NC2-24-18-3BF	160
MOX195-05WHA	931	MTSP160H160BE33	238	MTSP630S630BE44	241	NC2-24-18-3PNU	162
MOX195-05WHB	931	MTSP160H160BE44	238	MTSP630S630SE33	241	NC2-24-18-3TF	160
MOX195-05WHG	931	MTSP160H160SE33	238	MTSP630S630SE44	241	NC2-24-18-3U	159
MOX195-05WHR	931	MTSP160H160SE44	239	MTSP630S630TM33	241	NC2-24-18-4U	161
MOX400-22A	932	MTSP160H160TM33	238	MTSP630S630TM44	241	NC2-30-18-3BF	160
MOX400-22B	932	MTSP160H160TM44	238	MVI56-104S	519	NC2-30-18-3TF	160
MOX400-22G	932	MTSP160N160BE33	238	MVI56-DNP	519	NC2-30-18-3U	159
		MTSP160N160BE44	238	MVI56-EGD	520	NC2-36-18-2U	162
						NC2-36-18-3BF	160

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
N		NCONH6AS5	831	NLS0606021	888	OPT1091	954
NC2-36-18-3TF	160	NDRA-35-2	813	NLS0606030	888	OPT1096	954
NC2-36-18-3U	159	NDRA-35-3	813	NLS0806021	888	OPT5096	955
NC2-36-18-4U	161	NEF-160-110VAC	337	NLS0806030	888	OSENSAVIEW-PRO	155
NC2-42-18-3BF	160	NEF-160-240VAC	337	NLS1008030	888	P	
NC2-42-18-3TF	160	NEF-160-24VAC	337	NLSW116L	973	P 1060	894
NC2-42-18-3U	159	NEF-160-24VDC	337	NLSW116S	973	P 1080	894
NC2-48-18-2U	162	NEF-40-110VAC	337	NLSW120L	973	P11	741
NC2-48-18-3BF	160	NEF-40-240VAC	337	NLSW120S	973	P14	741
NC2-48-18-3PNU	162	NEF-40-24VAC	337	NLSW216L	973	P160-F2-2-100-FF	56
NC2-48-18-3TF	160	NEF-BB-160A	337	NLSW216S	973	P160-F2-2-125-FF	56
NC2-48-18-3U	159	NEMO96HD	267	NLSW316L	973	P160-F2-2-15-FF	56
NC2-48-18-4U	161	NEMO96HD1000	267	NNS 10	195	P160-F2-2-20-FF	56
NC2-54-18-3BF	160	NEMO96HD1000DC	267	NNS 16	195	P160-F2-2-30-FF	56
NC2-54-18-3TF	160	NEMO96HD1300	267	NNS 2	195	P160-F2-2-40-FF	56
NC2-54-18-3U	159	NEMO96HD2000	267	NNS 20	195	P160-F2-2-50-FF	56
NC2-60-18-3BF	160	NEMO96HD3000	267	NNS 20M25	195	P160-F2-2-60-FF	56
NC2-60-18-3TF	160	NEMO96HDM000	267	NNS 20M32	195	P160-F2-2-75-FF	56
NC2-60-18-3U	159	NES 20	196	NNS 25	195	P160-F2-3-100-BE	57
NC2-60-18-4U	161	NES 25	196	NNS 32	195	P160-F2-3-100-BEG	57
NC2-72-18-3BF	160	NES 32	196	NNS 4	195	P160-F2-3-100-SE	57
NC2-72-18-3TF	160	NES 40	196	NNS 6	195	P160-F2-3-100-TM	56
NC2-72-18-3U	159	NES 50	196	NPA-FP	742	P160-F2-3-125-TM	56
NC2-72-18-4U	161	NES 63	196	NPB-FP	742	P160-F2-3-160-BE	57
NC2-84-18-3BF	160	NHP Configured Drives	390	NPBTCONT	742	P160-F2-3-160-BEG	57
NC2-84-18-3TF	160	NL120L	974	NPJT	742	P160-F2-3-160-SE	57
NC2-84-18-3U	159	NL120S	974	NRT-MC8F5	142	P160-F2-3-160-TM	56
NC2-96-18-3BF	160	NL140L	974	NRT-RB24F	142	P160-F2-3-20-TM	56
NC2-96-18-3TF	160	NL320L	974	NRT-TUWFM	142	P160-F2-3-32-TM	56
NC2-96-18-3U	159	NL340L	974	NRTFCPL55G	142	P160-F2-3-40-BE	57
NC250HTOPC	163	NL432PV	972	NRTFCPL55O	142	P160-F2-3-40-BEG	57
NC250TOPC	163	NL432PVACK	972	NRTFCPR55G	142	P160-F2-3-40-SE	57
NC25-12/12-18-3U	160	NL432PVACK2	972	NRTFCPR55LSG	142	P160-F2-3-50-TM	56
NC25-12/24-18-3U	160	NL432PVACK3	972	NRTFCPR55LSO	142	P160-F2-3-63-TM	56
NC25-18/18-18-3U	160	NLA432PVBL	972	NRTFCPR55O	142	P160-F2-4-100-BE	59
NC25-18/30-18-3U	160	NLA432PVKIT	972	NRTFPC32CL	142	P160-F2-4-100-BEG	59
NC25-18/42-18-3U	160	NLA432PVSH	972	NT-1PB	740	P160-F2-4-100-SE	59
NC25-24/24-18-3U	160	NLARDM25M12	972	NT1-DESLY-NBBSIM	739	P160-F2-4-100-TM	59
NC25-24/48-18-3U	160	NLAWMB	972	NT10C-0	741	P160-F2-4-125-TM	59
NC25-30/54-18-3U	160	NLC12S	118	NT10CBNPAK	738	P160-F2-4-160-BE	59
NC25-36/36-18-3U	160	NLC15S	118	NT10CGNPAK	738	P160-F2-4-160-BEG	59
NC25-36/60-18-3U	160	NLC18S	118	NT10CRNPAK	738	P160-F2-4-160-SE	59
NC25-42/42-18-3U	160	NLC21S	118	NT1DES	739	P160-F2-4-160-TM	59
NC25-48/48-18-3U	160	NLC24S	118	NT1DESL	739	P160-F2-4-20-TM	59
NC4-108-18-3TF	161	NLC8S	118	NT20C	741	P160-F2-4-32-TM	59
NC4-12-18-3U	160	NLGPO10D	975	NT20CBNPAK	738	P160-F2-4-40-BE	59
NC4-18-18-3U	160	NLGPO10DX	975	NT20CGNPAK	738	P160-F2-4-40-BEG	59
NC4-24-18-3TF	161	NLGPO10S	975	NT20CRNPAK	738	P160-F2-4-50-TM	59
NC4-24-18-3U	160	NLGPO15D	975	NT2PB	740	P160-F2-4-63-TM	59
NC4-30-18-3U	160	NLGPO15DX	975	NT30CGNPAK	738	P160-H2-3-100-BE	58
NC4-36-18-3TF	161	NLGPO15S	975	NT3PB	740	P160-H2-3-100-BEG	58
NC4-36-18-3U	160	NLP 090706	864	NTOCBNPAK	738	P160-H2-3-100-SE	58
NC4-42-18-3U	160	NLP 090706 T	864	NTOCGNPAK	738	P160-H2-3-100-TM	58
NC4-48-18-3TF	161	NLP 111107	864	NTOCO	741	P160-H2-3-125-TM	58
NC4-48-18-3U	160	NLP 111107 T	864	NTOCRNP	738	P160-H2-3-160-BE	58
NC4-54-18-3U	160	NLP 131007	864	NTSKEY	137	P160-H2-3-160-BEG	58
NC4-60-18-3TF	161	NLP 131007 T	864	NUAC	742	P160-H2-3-160-SE	58
NC4-60-18-3U	160	NLP 131308	864	NUACNPAK	738	P160-H2-3-160-TM	58
NC4-72-18-3U	160	NLP 131308 T	864	NUCC	742	P160-H2-3-20-TM	58
NC4-78-18-3U	160	NLP 191209	864	NUCCNPAK	738	P160-H2-3-32-TM	58
NC4-84-18-3TF	161	NLP 191209 T	864	NUFCNPAK	738	P160-H2-3-40-BE	58
NC4-84-18-3U	160	NLP 191213	864	NUHCNPBK	738	P160-H2-3-40-BEG	58
NC4-96-18-3U	160	NLP 201610	864	NUHSC	742	P160-H2-3-40-SE	58
NC400HTOPC	163	NLP 201610 T	864	NUHSCNPBK	738	P160-H2-3-50-TM	58
NC400TOPC	163	NLP 201614	864	NUNC	742	P160-H2-3-63-TM	58
NCBBC	163	NLP 241911	864	NUNCNPBK	738	P160-H2-4-100-BE	60
NCCK-2504P	162	NLP 241911 T	864	NUNSC	742	P160-H2-4-100-BEG	60
NCCK-3250	162	NLP 241915	864	NUNSCNPBK	738	P160-H2-4-100-SE	60
NCCK-400	163	NLP 292411	864	NUSSC	742	P160-H2-4-100-TM	60
NCH4-12-27-3U	161	NLP 292411 T	864	NUSSCNPAK	738	P160-H2-4-125-TM	60
NCH4-12/30-27/18-3U	161	NLP 292415	864	NV32 BBS	195	P160-H2-4-160-BE	60
NCH4-12/42-27/18-3U	161	NLP 342911	864	NV32 FW	195	P160-H2-4-160-BEG	60
NCH4-12/60-27/18-3U	161	NLP 342911 T	864	NV63 FW	195	P160-H2-4-160-SE	60
NCH4-18-27-3U	161	NLP342916	864	NVFC	743	P160-H2-4-160-TM	60
NCH4-24-27-3U	161	NLS0202015	888	NVFCPGK	738	P160-H2-4-20-TM	60
NCH4-6-27-3U	161	NLS0302515	888	NVFCPRK	738	P160-H2-4-32-TM	60
NCH4-6/12-27/18-3TF	161	NLS0303021	888	NVFCPTK	738	P160-H2-4-40-BE	60
NCH4-6/12-27/18-3U	161	NLS0403021	888	O		P160-H2-4-40-BEG	60
NCH4-6/24-27/18-3TF	161	NLS0404021	888	O-SDS7-xx-xxxVAC	353	P160-H2-4-40-SE	60
NCH4-6/24-27/18-3U	161	NLS0504021	888	OI-E1480	407	P160-H2-4-50-TM	60
NCH4-6/36-27/18-3U	161	NLS0505021	888	OI-G1480	407	P160-H2-4-63-TM	60
NCH4-6/48-27/18-3U	161	NLS0604021	888	One Gear SMC50	394	P160-N2-3-100-BE	57
		NLS0604030	888				

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
P							
P160-N2-3-100-BEG	57	P250-H-3-160-BE	63	P400-F-3-400-BEG	67	P630-N-4-630-BE	75
P160-N2-3-100-SE	57	P250-H-3-160-BEG	63	P400-F-3-400-SE	67	P630-N-4-630-BEG	75
P160-N2-3-100-TM	57	P250-H-3-160-SE	63	P400-F-3-400-TM	66	P630-N-4-630-SE	76
P160-N2-3-125-TM	57	P250-H-3-160-TM	63	P400-F-4-250-BE	70	P630-N-4-630-TM	75
P160-N2-3-160-BE	57	P250-H-3-200-TM	63	P400-F-4-250-BEG	70	P630-S-3-630-BE	74
P160-N2-3-160-BEG	57	P250-H-3-250-BE	63	P400-F-4-250-SE	70	P630-S-3-630-BEG	74
P160-N2-3-160-SE	57	P250-H-3-250-BEG	63	P400-F-4-250-TM	70	P630-S-3-630-SE	75
P160-N2-3-160-TM	57	P250-H-3-250-SE	63	P400-F-4-250-TM	70	P630-S-3-630-TM	74
P160-N2-3-20-TM	57	P250-H-3-250-TM	63	P400-F-4-400-BE	70	P630-S-4-630-BE	76
P160-N2-3-32-TM	57	P250-H-3-40-BE	63	P400-F-4-400-BEG	70	P630-S-4-630-BEG	76
P160-N2-3-40-BE	57	P250-H-3-40-BEG	63	P400-F-4-400-SE	70	P630-S-4-630-SE	76
P160-N2-3-40-BEG	57	P250-H-3-40-SE	63	P400-F-4-400-TM	70	P630-S-4-630-TM	76
P160-N2-3-40-SE	57	P250-H-3-50-TM	63	P400-H-3-250-BE	68	P630D3630NN	75
P160-N2-3-40-TM	57	P250-H-3-63-TM	63	P400-H-3-250-BEG	68	P630D4630NN	76
P160-N2-3-50-TM	57	P250-H-4-100-BE	65	P400-H-3-250-SE	68	PA 1030	893
P160-N2-3-63-TM	57	P250-H-4-100-BEG	65	P400-H-3-250-TM	68	PA 1040	893
P160-N2-4-100-BE	60	P250-H-4-100-SE	66	P400-H-3-400-BE	68	PA18ALD04TOSA	408
P160-N2-4-100-BEG	60	P250-H-4-100-TM	65	P400-H-3-400-BEG	68	PA18CAD10PAM1SA	408
P160-N2-4-100-SE	60	P250-H-4-125-TM	65	P400-H-3-400-SE	68	PA18CAR65PAM1SA	409
P160-N2-4-100-TM	60	P250-H-4-160-BE	65	P400-H-3-400-TM	68	PAA-01-D-M24	795
P160-N2-4-125-TM	60	P250-H-4-160-BEG	65	P400-H-4-250-BE	71	PBA-02-C-M24	796
P160-N2-4-160-BE	60	P250-H-4-160-BEG	65	P400-H-4-250-BEG	71	PBH01	711
P160-N2-4-160-BEG	60	P250-H-4-160-SE	66	P400-H-4-250-SE	71	PC 100/125HG	871
P160-N2-4-160-TM	60	P250-H-4-160-TM	65	P400-H-4-250-TM	71	PC 100/60 HG	871
P160-N2-4-160-SE	60	P250-H-4-200-TM	65	P400-H-4-400-BE	71	PC 100/75 HG	871
P160-N2-4-160-TM	60	P250-H-4-250-BE	65	P400-H-4-400-BEG	71	PC 125/100 HG	871
P160-N2-4-20-TM	60	P250-H-4-250-BEG	65	P400-H-4-400-SE	71	PC 125/100 HT	871
P160-N2-4-32-TM	60	P250-H-4-250-SE	66	P400-H-4-400-TM	71	PC 125/125 HG	871
P160-N2-4-40-BE	60	P250-H-4-250-TM	65	P400-N-3-250-BE	67	PC 125/75 HG	871
P160-N2-4-40-BEG	60	P250-H-4-40-BE	65	P400-N-3-250-BEG	67	PC 125/75 HT	871
P160-N2-4-40-SE	60	P250-H-4-40-BEG	65	P400-N-3-250-SE	67	PC 125/75 LG	871
P160-N2-4-50-TM	60	P250-H-4-40-SE	66	P400-N-3-250-TM	67	PC 150/100 HG	871
P160-N2-4-63-TM	60	P250-H-4-50-TM	65	P400-N-3-400-BE	67	PC 150/100 HT	871
P160D23160NN	59	P250-H-4-63-TM	65	P400-N-3-400-BEG	67	PC 150/100 LG	871
P160D24160NN	61	P250-N-3-100-BE	62	P400-N-3-400-SE	67	PC 150/100 HT	871
P20	741	P250-N-3-100-BEG	62	P400-N-3-400-TM	67	PC 150/125 HG	871
P21	741	P250-N-3-100-SE	62	P400-N-4-250-BE	70	PC 150/150 HG	871
P22	741	P250-N-3-100-TM	62	P400-N-4-250-BEG	70	PC 150/60 HT	871
P23I	741	P250-N-3-125-TM	62	P400-N-4-250-SE	70	PC 150/75 HG	871
P24	741	P250-N-3-160-BE	62	P400-N-4-250-TM	70	PC 150/75 HT	871
P250-F-3-100-BE	62	P250-N-3-160-BEG	62	P400-N-4-400-BE	70	PC 162509	872
P250-F-3-100-BEG	62	P250-N-3-160-SE	62	P400-N-4-400-BEG	70	PC 162513	872
P250-F-3-100-SE	62	P250-N-3-160-TM	62	P400-N-4-400-SE	70	PC 175/100 HG	871
P250-F-3-100-TM	61	P250-N-3-200-TM	62	P400-N-4-400-TM	70	PC 175/125 HG	871
P250-F-3-125-TM	61	P250-N-3-250-BE	62	P400-S-3-250-BE	68	PC 175/150 HG	871
P250-F-3-160-BE	62	P250-N-3-250-BEG	62	P400-S-3-250-BEG	68	PC 175/150 HT	871
P250-F-3-160-BEG	62	P250-N-3-250-SE	62	P400-S-3-250-SE	69	PC 175/75 HG	871
P250-F-3-160-SE	62	P250-N-3-250-TM	62	P400-S-3-250-TM	68	PC 1919	874
P250-F-3-160-TM	61	P250-N-3-40-BE	62	P400-S-3-400-BE	68	PC 191913 G	874
P250-F-3-160-TM	61	P250-N-3-40-BEG	62	P400-S-3-400-BEG	68	PC 191913 T	874
P250-F-3-200-TM	61	P250-N-3-40-SE	62	P400-S-3-400-SE	69	PC 191918 G	874
P250-F-3-250-BE	62	P250-N-3-50-TM	62	P400-S-3-400-TM	68	PC 191918 T	874
P250-F-3-250-BEG	62	P250-N-3-63-TM	62	P400-S-4-250-BE	71	PC 200/100 HG	871
P250-F-3-250-SE	62	P250-N-4-100-BE	65	P400-S-4-250-BEG	71	PC 200/100 HT	871
P250-F-3-250-TM	61	P250-N-4-100-BEG	65	P400-S-4-250-SE	71	PC 200/150 HG	871
P250-F-3-40-BE	62	P250-N-4-100-SE	65	P400-S-4-250-TM	71	PC 200/150 HT	871
P250-F-3-40-BEG	62	P250-N-4-100-TM	65	P400-S-4-400-BE	71	PC 200/75 HG	871
P250-F-3-40-SE	62	P250-N-4-125-TM	65	P400-S-4-400-BEG	71	PC 200/75 HT	871
P250-F-3-50-TM	61	P250-N-4-160-BE	65	P400-S-4-400-SE	71	PC 21/18-3	870
P250-F-3-63-TM	61	P250-N-4-160-BEG	65	P400-S-4-400-TM	71	PC 2819	874
P250-F-4-100-BE	64	P250-N-4-160-SE	65	P400D3400NN	70	PC 281913 G	874
P250-F-4-100-BEG	64	P250-N-4-160-TM	65	P400D4400NN	72	PC 281913 T	874
P250-F-4-100-SE	64	P250-N-4-200-TM	65	P630-E-3-630-TM	72	PC 281918 G	874
P250-F-4-100-TM	64	P250-N-4-250-BE	65	P630-E-4-630-TM	75	PC 281918 T	874
P250-F-4-125-TM	64	P250-N-4-250-BEG	65	P630-F-3-630-BE	73	PC 2828	874
P250-F-4-160-BE	64	P250-N-4-250-SE	65	P630-F-3-630-BEG	73	PC 282813 G	874
P250-F-4-160-BEG	64	P250-N-4-250-TM	65	P630-F-3-630-SE	73	PC 282813 T	874
P250-F-4-160-SE	64	P250-N-4-40-BE	65	P630-F-3-630-TM	72	PC 282818 G	874
P250-F-4-160-TM	64	P250-N-4-40-BEG	65	P630-F-4-630-BE	75	PC 282818 T	874
P250-F-4-200-TM	64	P250-N-4-40-SE	65	P630-F-4-630-BEG	75	PC 3819	874
P250-F-4-250-BE	64	P250-N-4-50-TM	65	P630-F-4-630-SE	75	PC 381913 G	874
P250-F-4-250-BEG	64	P250-N-4-63-TM	65	P630-F-4-630-TM	75	PC 381913 T	874
P250-F-4-250-SE	64	P250D3250NN	64	P630-H-3-630-BE	74	PC 381918 G	874
P250-F-4-250-TM	64	P250D4250NN	66	P630-H-3-630-BEG	74	PC 381918 T	874
P250-F-4-40-BE	64	P30	741	P630-H-3-630-SE	74	PC 3828	874
P250-F-4-40-BEG	64	P400-E-3-250-TM	66	P630-H-4-630-BE	76	PC 382813 G	874
P250-F-4-40-SE	64	P400-E-3-400-TM	66	P630-H-4-630-BEG	76	PC 382813 T	874
P250-F-4-50-TM	64	P400-E-4-250-TM	70	P630-H-4-630-SE	76	PC 382818 G	874
P250-F-4-63-TM	64	P400-E-4-400-TM	70	P630-H-4-630-TM	76	PC 382818 T	874
P250-H-3-100-BE	63	P400-F-3-250-BE	67	P630-H3-3-630-TM	74	PC 562813 G	874
P250-H-3-100-BEG	63	P400-F-3-250-BEG	67	P630-N-3-630-BE	73	PC 562813 T	874
P250-H-3-100-SE	63	P400-F-3-250-SE	67	P630-N-3-630-BEG	73	PC 563818 G	874
P250-H-3-100-TM	63	P400-F-3-250-TM	66	P630-N-3-630-SE	73	PC 563818 T	874
P250-H-3-125-TM	63	P400-F-3-400-BE	67	P630-N-3-630-TM	73	PC50CND10RP	408

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
P							
PC50CND20BAM1	408	PLX82-EIP-PNC	553	RDD421-31	184	RLX-AD40-40	564
PC50CNP06RP	410	PLX82-MBTCP-PNC	554	RDD421-H1	184	RLX-AD50-22	564
PC50CNR10BAM1	409	PLX82-MNET-61850	554	RDR-80081AKB-P	571	RLX-AD50-50	564
PC50CNR10RP	409	PMB-01-C-M24	797	RDR-800W1AKE-P	571	RLX-AD50-90	564
PC50CNT20KIT	411	PMB-01-D-M24	797	RDR-80581AKB-P	571	RLX-WPK001	564
PCB-01-C-M24	798	PMD8RI	409	RDR-80581AKU-RA	571	RLX2-IHA-A	562
PCM 150/100 G	871	PMD8RIT	409	RDR-80582AK0	571	RLX2-IHG-A	562
PCP 04	901	PMP12RGM	410	RDR-805W1AGU-RA	571	RLX2-IHNF-A	562
PCP 05	901	PMR10RI	409	RDR-805W1AKB-P	571	RM1A23A25	780
PCP 06	901	PMR10RIT	409	RDR-805W1AKU-RA	571	RM1A23A50	780
PCP-064-480V	366	POE-48I-AC	564	RDR-805W2AKU	571	RM1A23A75	780
PCS-003-480V	366	POE-48I-DC-DC	564	RF95DDLRSW915	436	RM1A23D25	780
PCS-009-480V	366	PowerFlex 6000	395	RF95DDLRSW915	436	RM1A23D50	780
PCS-016-480V	366	PPA-01-C-M44	790	RF95DFLRSW915	436	RM1A60A100	781
PCS-019-480V	366	PPB-01-C-M48-W4	790	RF95DFULRSW915	436	RM1A60A50	780
PCS-025-480V	366	PPB-02-C-M48	791	RF95DLRSW915	436	RM1A60D50	780
PCS-030-480V	366	PPC1090	954	RF95DSLRSW915	436	RP1A23D5	784
PCS-037-480V	366	PPC1092	954	RF95DSLRSW915	436	RP1A23D5M1	784
PCS-043-480V	366	PPC5092	955	RF95RLRSW915	436	RP1B23D5M1	784
PCS-060-480V	366	PRB-GB3-05M-ST-L-TP2	154	RF95RLULRSW915	436	RQ480 10 80VDC	273
PCS-085-480V	366	PRB-GB3-10M-ST-L-TP2	154	RF95RLULRSW915	436	RQ480 110VAC	273
PCS-PA-10	366	PS 1040	901	RF95WKLRSW915	436	RQ480 240V 60HZ	273
PCS-PA-11	366	PS 1050	901	RF95WLRWSW915	436	RQ480 240VAC	273
PCS-PA-20	366	PS 1060	901	RF95WULRSW915	436	RQ480 24VAC	273
PCT 121609	873	PS 1080	901	RF96IOSW915-4E	434	RQ480 415VAC	273
PCV-064	366	PS 2040	901	RF96IOSW9154EVCC	434	RQ48E AAC 10A	270
PD24-2	564	PSC-PDN-ACT	549	RF96STSW915	434	RQ48E AAC 15A	270
PD30CNB15PPM5RT	410	PSC-PDN-SITE-1Y	549	RF96STSW915K	434	RQ48E AAC 20A	270
PD30CNP06PPRT	410	PSC-PDN-SITE-2Y	549	RF96STSW915KIT1	433	RQ48E AAC 5A	270
PD30CNT15PKIT	411	PSC-PDN-SITE-3Y	549	RF96STSW915VCC	434	RQ48E VAC 300V	272
PE-FB25672	176	PSC-PUP-LRG-12	548	RF96STSW915VCCCK	434	RQ48E VAC 500V	272
PE-FB25736	176	PSC-PUP-LRG-24	548	RFANTSW915	437	RQ48E VVT 110V 1K IME	272
PF 1040	901	PSC-PUP-MED-12	548	RFBF74-1	435	RQ48EACT5A5X10	271
PF 1060	901	PSC-PUP-MED-24	548	RFBF74-2	435	RQ48EACT5A5X100	271
PF 1080	901	PSD1220-098	954	RFBF74-3	435	RQ48EACT5A5X15	271
PF 1100	901	PSS 1040-316	908	RFBF74RT1SW915KIT1	434	RQ48EACT5A5X150	271
PF 1120	901	PSS 1050-316	908	RFBF74RT1SW915KIT11	434	RQ48EACT5A5X20	271
PF 2060	901	PSS 1060-316	908	RFBF74RT2SW915KIT12	434	RQ48EACT5A5X200	271
PF 2080	901	PSS 2040-316	908	RFBF74RT2SW915KIT2	434	RQ48EACT5A5X25	271
PFAL 1064	910	PSS 2050-316	908	RFBF74RT3SW915KIT13	434	RQ48EACT5A5X250	271
PFAL 1066	910	PSS 2060-316	908	RFBF74RT3SW915KIT3	434	RQ48EACT5A5X30	271
PFAL 1124	910	PST 1040	902	RFBF74RTSW915	434	RQ48EACT5A5X40	271
PFAL 1126	910	PUB-01-C-B23 500V	789	RFEXTCAB-3M	437	RQ48EACT5A5X5	271
PFAL 1184	910	PUB-02-C-T23	790	RFGISW915	437	RQ48EACT5A5X50	271
PFB-01-C-M24	792	PW 343009T	884	RFHBSW9154CH	435	RQ48EACT5A5X60	271
PFS 1060-316	908	PW 454009T	884	RFHBSW9154CHKIT1	435	RQ48EACT5A5X75	271
PFS 1080-316	908	PXB80012U	171	RFIOPROCAP	434	RQ48EACT5A5X80	271
PFS 1100-316	908	PXB80018U	171	RFISM122MSW915KIT12	435	RQ48F1 240V	273
PFS 1120-316	908	PXB80024U	171	RFISM180MSW915KIT12	435	RQ48M ADC 1MA	272
PIB-01-C-B23 5A	788	PXB80030U	171	RFISM182MSW915KIT12	435	RQ720 10 80VDC	273
PIB-02-C-B23 150MV	788	PXB80036U	171	RFISM302MSW915KIT12	435	RQ720 240V	273
PLC 01	892	PXB80048U	171	RFM100N	436	RQ720 24V	273
PLX31-EIP-ASCII	553	PXB80060U	171	RFRC10SW915K	436	RQ72E AAC 100A	270
PLX31-EIP-ASCII4	553	PXB80072U	171	RFRC30SW915KST	436	RQ72E AAC 10A	270
PLX31-EIP-MBS	553	PY216BM20	956	RFRC30SW915KSTKIT11	436	RQ72E AAC 15A	270
PLX31-EIP-MBS4	553	PY216BM25	956	RFRXSW9154S	437	RQ72E AAC 20A	270
PLX31-EIP-MBTCP	553	PY332RM25	956	RFRXTSW9151K	437	RQ72E AAC 25A	270
PLX31-EIP-MBTCP-PND	553	PY332RM32	956	RFRXTSW9152K	437	RQ72E AAC 30A	270
PLX31-EIP-PND	553	PY432RM32	956	RFRXTSW915USB	437	RQ72E AAC 40A	270
PLX31-EIP-SIE	553	R		RGC1A23A15KKE	778	RQ72E AAC 50A	270
PLX31-MBTCP-MBS	554	RA Arc Fault Contained Drives	391	RGC1A23A30KKE	778	RQ72E AAC 5A	270
PLX31-MBTCP-MBS4	554	RD1B212	183	RGC1A23D15KKE	778	RQ72E AAC 60A	270
PLX31-MBTCP-PND	554	RD1B214	183	RGC1A23D30KKE	778	RQ72E AAC 80A	270
PLX31-MBTCP-SIE	554	RD1B21H	183	RGC1A23D40KGE	779	RQ72E VAC 300V	272
PLX32-EIP-104	553	RD1DF14	184	RGC1A60A20KKE	778	RQ72E VAC 500V	272
PLX32-EIP-MBTCP	553	RD1EP212	184	RHS00	783	RQ72E VVT 110V 1K IME	272
PLX32-EIP-MBTCP-UA	553	RD1EP214	184	RHS100	783	RQ72EACT5A5X10	271
PLX32-EIP-PND	553	RD1EP21H	184	RHS301	783	RQ72EACT5A5X100	271
PLX32-EIP-SIE	553	RD1G212	185	RHS301F230C	783	RQ72EACT5A5X120	271
PLX32-MBTCP-PND	554	RD3AF12	183	RHS45B	783	RQ72EACT5A5X15	271
PLX32-MBTCP-SIE	554	RD3AF14	183	RL-24i	935	RQ72EACT5A5X150	271
PLX35-NB2	548	RD3AF15	183	RL-24iD	935	RQ72EACT5A5X20	271
PLX51-DF1-ENI	555	RD3AF1H	183	RLB12503P	208	RQ72EACT5A5X200	271
PLX51-DF1-MSG	555	RD3AF1N	183	RLB16003P	208	RQ72EACT5A5X25	271
PLX51-DL-232	555	RD3E212B	185	RLB16023P	208	RQ72EACT5A5X250	271
PLX51-DLPLUS-232	555	RD3E217B	185	RLB16043P	208	RQ72EACT5A5X30	271
PLX51-DNP-M	555	RD3E21HB	185	RLB18003P	208	RQ72EACT5A5X300	271
PLX51-DNP-S	555	RD4848C	185	RLB2503P	208	RQ72EACT5A5X40	271
PLX51-HART-40	555	RD7272C	185	RLB4003P	208	RQ72EACT5A5X400	271
PLX51-PBM	555	RD9696C	185	RLB4023P	208	RQ72EACT5A5X5	271
PLX51-PBS	555	RDBMRCD230	186	RLB6303P	208	RQ72EACT5A5X50	271
PLX82-EIP-61850	553	RDBMRCD24	186	RLB6323P	208	RQ72EACT5A5X500	271
				RLB6343P	208	RQ72EACT5A5X60	271

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
R							
RQ72EACT5A5X600	271	RZ7-FSM 3U A40	801	SD1251DCNNARD	968	SLB3153P	205
RQ72EACT5A5X75	271	RZ7-FSM 3U U23	801	SD1501ACNNARD	968	SLB3153PD	205
RQ72EACT5A5X750	271	RZ7-FSM 4U U23	801	SD1501DCNNARD	968	SLB3154P	206
RQ72EACT5A5X80	271	RZ7-FSQ 3Q U18	800	SDR-2	813	SLB32003P	205
RQ72EACT5A5X800	271	RZ7-FSQ 4Q U18	800	SDS7-11L-240VAC	352	SLB32003PD	205
RQ72FI 240V	273	RZ7-FSY 2C A40	802	SDS7-11L-415VAC	352	SLB32004P	206
RQ72FI 415V	273	RZ7-FSY 2C U23	801	SDS7-15L-240VAC	352	SLB40003P	205
RQ960 240V	273	RZ7-FSY 2D A40	802	SDS7-15L-415VAC	352	SLB40004P	206
RQ96E AAC 10A	270	RZ7-FSY 2D U23	801	SDS7-22L-240VAC	352	SLB4003P	205
RQ96E AAC 15A	270	RZ7-FSY 2E A40	802	SDS7-22L-415VAC	352	SLB4003PD	205
RQ96E AAC 20A	270	RZ7-FSY 2E U23	801	SDS7-37L-240VAC	352	SLB4004P	206
RQ96E AAC 30A	270	S		SDS7-37L-415VAC	352	SLB4006P	206
RQ96E AAC 5A	270	SA-LE2-12-1781	656	SEP-E40	811	SLB5003P	205
RQ96E VAC 300V	272	SA-LE2-12-1782	656	SEP-E80	811	SLB5003PD	205
RQ96E VAC 500V	272	SA-LE2-12-2501	657	SH2D10V424	284	SLB5004P	206
RQ96E VWT 110V 1K IME	272	SA-LE2-12-2502	657	SH2D500W1230	284	SLB6303P	205
RQ96EACT5A5X10	272	SA-LE2-12-3501	657	SH2D500W230	284	SLB6303PD	205
RQ96EACT5A5X100A	272	SA-LE2-12-3502	657	SH2INDI424	283	SLB6304P	206
RQ96EACT5A5X120	272	SA-LE2-12-3502	657	SH2MCG24	283	SLB6306P	206
RQ96EACT5A5X150	272	SA-LE2-12-8751	657	SH2RE16A2E230	284	SLB8003P	205
RQ96EACT5A5X1K6	272	SA2MAGNETIC	421	SH2RE16A4	284	SLB8003PD	205
RQ96EACT5A5X1KA	272	SB1251AL10ACNNNNARDN	969	SH2RE1A424	284	SLB8004P	206
RQ96EACT5A5X20	272	SB1251AL10DCNNNNARDN	969	SH2ROAC224	285	SLBADAP2	212
RQ96EACT5A5X200	272	SB1251RL10ACNNNNARDN	969	SH2RODC224	285	SLBADAP3	212
RQ96EACT5A5X250	272	SB1251RL10DCNNNNARDN	969	SH2SSTR424	284	SLBDL01	212
RQ96EACT5A5X2K	272	SB1501AL10ACNNNNARDN	969	SH2WBU230	285	SLBLK4	212
RQ96EACT5A5X300	272	SB1501AL10DCNNNNARDN	969	SHA4XP150	284	SLBM1003P	204
RQ96EACT5A5X30A	272	SB1501RL10ACNNNNARDN	969	SHA4XP150L	284	SLBM1003PD	204
RQ96EACT5A5X40	272	SB2DALI230	283	SHA4XP90L	284	SLBM1003PS	205
RQ96EACT5A5X400	272	SB2REP230	285	SHA4XTMEDIS	285	SLBM1253P	204
RQ96EACT5A5X5	272	SCO12503PMB	222	SHC0806	904	SLBM1253PD	204
RQ96EACT5A5X500	272	SCO12503PSTD	221	SHDRODC230	285	SLBM1253PS	205
RQ96EACT5A5X50A	272	SCO12504PSTD	221	SHDWWISEN	285	SLBM163P	204
RQ96EACT5A5X60	272	SCO1253PMB	222	SHDWWISENIN1	285	SLBM163PD	204
RQ96EACT5A5X600	272	SCO1253PSTD	221	SHE5XP150	284	SLBM163PS	205
RQ96EACT5A5X75	272	SCO1254PSTD	221	SHE5XP150L	284	SLBM203P	204
RQ96EACT5A5X750	272	SCO16003PMB	222	SHE5XP90L	284	SLBM203PD	204
RQ96EACT5A5X80	272	SCO16003PSTD	221	SHE5XTMEDIS	285	SLBM203PS	205
RQ96FI 110V	273	SCO16004PSTD	221	SHPAD	892	SLBM253P	204
RQ96FI 240V	273	SCO1603PMB	222	SHPAD316A	896	SLBM253PD	204
RQ96FI 415V	273	SCO1603PSTD	221	SHPINCNT4	283	SLBM253PS	205
RS1A23D10	783	SCO1604PSTD	221	SHSBP90L	284	SLBM323P	204
RT6	812	SCO20004PSTD	221	SHSDP90L	284	SLBM323PD	204
RT7-E1	328	SCO2003PMB	222	SHSPP90L	284	SLBM323PS	205
RT7-E2	328	SCO2003PSTD	221	SHSPP90LA	284	SLBM403P	204
RTSDC	142	SCO2004PSTD	221	SHSUCOT	285	SLBM403PD	204
RZ3A60A25	781	SCO25004PSTD	221	SHSUCOTD	285	SLBM403PS	205
RZ3A60A40	782	SCO2503PMB	222	SHSUCOTH	285	SLBM633P	204
RZ3A60A55	782	SCO2503PSTD	221	SHSUCOTHDL	285	SLBM633PD	204
RZ3A60A75	783	SCO2504PSTD	221	SHSUCOTHL	285	SLBM633PS	205
RZ3A60D25	781	SCO4003PMB	222	SHSUCOTL	285	SLBM803P	204
RZ3A60D40	782	SCO4003PSTD	221	SHSUT	285	SLBM803PD	204
RZ3A60D55	782	SCO4004PSTD	221	SHSUTH	285	SLBM803PS	205
RZ7-FEA 1T U22	799	SCO5003PMB	222	SLB10003P	205	SLBPH09	210
RZ7-FEA 3T U23	799	SCO5003PSTD	221	SLB10003PD	205	SLBPH11	211
RZ7-FEB 1T U22	799	SCO5004PSTD	221	SLB10004P	206	SLBPHM	211
RZ7-FEB 3T U23	799	SCO6303PMB	222	SLB12503P	205	SM1552302K	422
RZ7-FED 1T U22	799	SCO6303PSTD	221	SLB12503PD	205	SM155230300	421
RZ7-FED 3T U23	799	SCO6304PSTD	221	SLB12504P	206	SPD1804	903
RZ7-FEE 3T U23	799	SCO8003PMB	222	SLB1253P	205	SPD1805	903
RZ7-FEF 3T U23	800	SCO8003PSTD	221	SLB1253PD	205	SPD2004	903
RZ7-FEM 1T U22	799	SCO8004PSTD	221	SLB1254P	206	SPM 2004R5	901
RZ7-FEM 3T U23	799	SCOM203P	220	SLB1256P	206	SPM 2005R5	901
RZ7-FEY 2Q U23	800	SCOM203PD	220	SLB16003P	205	SPM 2006R5	901
RZ7-FSA 3C U23	800	SCOM203PDMB	221	SLB16003PD	205	SPM 2008R5	901
RZ7-FSA 3D A40	800	SCOM204P	220	SLB16004P	206	SPM1804R5	901
RZ7-FSA 3D U23	800	SCOM204PD	220	SLB1603P	205	SPM1805R5	901
RZ7-FSA 3E A40	800	SCOM403P	220	SLB1603PD	205	SPMS 1805-316	908
RZ7-FSA 3E U23	800	SCOM403PD	220	SLB1604P	206	SPMS 2006-316	908
RZ7-FSA 3H A40	800	SCOM403PDMB	221	SLB1606P	206	SPY216BM20	956
RZ7-FSA 3H U23	800	SCOM404P	220	SLB18003P	205	SPY216BM25	956
RZ7-FSA 3I A40	800	SCOM404PD	220	SLB18004P	206	SPY332RM25	956
RZ7-FSA4U U23	800	SCOM633P	220	SLB20003P	205	SPY432RM32	956
RZ7-FSB 3B U23	801	SCOM633PD	220	SLB20004P	206	SRCB1010	49
RZ7-FSB 3D U23	801	SCOM634P	220	SLB2003P	205	SRCB1030	49
RZ7-FSB 3E U23	801	SCOM634PD	220	SLB2003PD	205	SRCB1030HA	49
RZ7-FSB 3H A40	801	SCOM803P	220	SLB2004P	206	SRCB1030WA	49
RZ7-FSB 3J A40	801	SCOM803PD	220	SLB25003P	205	SRCB1610	49
RZ7-FSB 4U U23	801	SCOM803PDMB	221	SLB25004P	206	SRCB1630	49
RZ7-FSC 3K A40	801	SCOM804P	220	SLB2503P	205	SRCB1630HA	49
RZ7-FSH 3V U23	801	SCOM804PD	220	SLB2503PD	205	SRCB1630WA	49
		SD1251ACNNARD	968	SLB2504P	206	SRCB2010	49
				SLB2506P	206	SRCB2030	49

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
S		T1.25.80	810	T2FB253BA	99	T2SH00A40TA	98
SRCB2030HA	49	T1.40.100	810	T2FB254BA	99	T2SH00D01TA	98
SRCB2030WA	49	T1.40.40	810	T2FB25L3SB	99	T2SH00D02TA	98
SRE0302015-316	897	T1.40.80	810	T2FB25L3WB	99	T2SH00D04TA	98
SRE0302015316X15	897	T1.60.100	810	T2FB404H	94	T2SH00D10TA	98
SRE0403021-316	897	T1.60.40	810	T2FB463BA	99	T2SH00D20TA	98
SRE0403021316X15	897	T1.60.60	810	T2FB464BA	99	T2SH00LA10T	96
SRE0604026-316	897	T1.60.80	810	T2FW1253A	93	T2SH00LA10WA	98
SRE0604026316X15	897	T1.80.40	810	T2FW1254A	99	T2SH00LA20T	96
SRE0806030-316	897	T1.80.60	810	T2FW25L3B	93	T2SH00LA40T	96
SRE0806030316X15	897	T1.80.80	810	T2FW25L4B	99	T2SH00LA40WA	98
SS 10535	875	T1CF033SLNG	106	T2FW40L3A	93	T2SH00LD01T	96
SS1-BLANK	740	T1E100X100GBOX	811	T2FW40L4A	99	T2SH00LD01WA	98
SS1225	740	T1E100X80GBOX	811	T2GB40N04A	94	T2SH00LD02T	96
SS1305	740	T1E25X60GBOX	811	T2GB40N08A	100	T2SH00LD04T	96
SS2-BLANK	740	T1E40X100G	811	T2GBX6N10A	100	T2SH00LD04WA	98
SS2225	740	T1E60X100G	811	T2GBX6N12A	100	T2SH00LD10T	96
SS2305	740	T1E80X100G	811	T2GBX6N16A	94	T2SH00LD20T	96
SS3-BLANK	740	T1E80X40GBOX	811	T2HB12UR5BNP	89	T2SH00LD20WA	98
SS3225	740	T1HP03R6BNA4	106	T2HB12UR5RNP	89	T2SH16A10WA	98
SS3305	740	T1HP30PALK	106	T2HB16LUR5BNP	89	T2SH16A20WA	98
SS4305	741	T1HP40R6BNA4	106	T2HB16LUR5RNP	89	T2SH16A40WA	98
SSFDN12503P	189	T1HS40R5GM	105	T2HB25LUR5BNP	89	T2SH16D02WA	98
SSFDN12504P	189	T2 DA 12A	99	T2HB25LUR5RNP	89	T2SH16D04WA	98
SSFDN1253P	189	T2 RP 403 LA	99	T2HB25UR5BNP	89	T2SW3P1251255K	99
SSFDN1254P	189	T20BLK	742	T2HB25UR5RNP	89	T2SW3P125TC	100
SSFDN1603P	189	T20GRN	742	T2HB40UR5BNP	89	T2SW3P2501505K	99
SSFDN1604P	189	T20RED	742	T2HB40UR5RNP	89	T2SW3P2502505K	99
SSFDN2503P	189	T2AL00B1STA	97	T2HB80UR5BNP	89	T2SW3P250TC	100
SSFDN2504P	189	T2AL00B2STA	97	T2HB80UR5RNP	89	T2SW3P6304005K	99
SSFDN4003P	189	T2AL00ML3RWA	97	T2HBX6UR5BT	89	T2SW3P6306005K	99
SSFDN4004P	189	T2AL00ML3SWA	97	T2HBX6UR5RT	89	T2SW3P630TC	100
SSFDN6303P	189	T2AL00LMR3SWA	97	T2HL25B	93	T2SW4P6304005K	99
SSFDN6304P	189	T2AL00M3RTA	97	T2HL25L	98	T2SW4P630TC	100
SSFDN633P	189	T2AL00M3STA	97	T2HL40A	93	T2UV00A10DSA	97
SSFDN634P	189	T2AL00M3SWA	97	T2HLX6A	93	T2UV00A10NTA	98
SSFDN8003P	189	T2AX00B1STA	97	T2HP12R6BNP	90	T2UV00A20DSA	97
SSFDN8004P	189	T2AX00B2STA	97	T2HP12R6RNP	90	T2UV00A20NTA	98
SSTB 151508-316	879	T2AX00ML3RWA	97	T2HP16LR6BNP	90	T2UV00A24DSA	97
SSTB 153008-316	879	T2AX00ML3SWA	97	T2HP16LR6RNP	90	T2UV00A40DSA	97
SSTB 153012-316	879	T2AX00M3RTA	97	T2HP25LR6BNP	90	T2UV00A40NTA	98
SSTB 202008-316	879	T2AX00M3STA	97	T2HP25LR6RNP	90	T2UV00A45DSA	97
SSTB 202012-316	879	T2AX00M3SWA	97	T2HP25R6BNP	90	T2UV00D02DSA	97
SSTB 203012-316	879	T2BA25L3LHA	99	T2HP25R6RNP	90	T2UV00D02NTA	98
SSTB 204012-316	879	T2BA25L3SH	92	T2HP40R6BNP	90	T2UV00D04NTA	98
SSTB 303012-316	879	T2BA403SHA	99	T2HP40R6RNP	90	T2UV00D10DSA	97
SSTB 304012-316	879	T2CF00L	92	T2HP80R6BNP	90	T2UV00D10NTA	98
SSTB 305012-316	879	T2CF123SLHP	92	T2HP80R6RNP	90	T2UV00D20NTA	98
SSTB 404012-316	879	T2CF124SLHP	92	T2HPX6R6BNP	90	T2UV00D24DSA	97
STB H 02	879	T2CF12L1SLNP	92	T2HPX6R6RNP	90	T2UV00LA10DL	96
STB 151508	878	T2CF253LLHP	92	T2HS250SHAFT	100	T2UV00LA10DS	96
STB 151512	878	T2CF253SLHP	92	T2HS400SHAFT	100	T2UV00LA10NT	96
STB 153012	878	T2CF254SLHP	92	T2M2264CAA	93	T2UV00LA10NWA	98
STB 202008	878	T2CF804SLHP	92	T2MCX6A24NP	94	T2UV00LA20NT	96
STB 202012	878	T2CR123SHP	91	T2MCX6D02NP	94	T2UV00LA20NWA	98
STB 203008	878	T2CR123SP	91	T2MW00LA	93	T2UV00LA24DL	96
STB 203012	878	T2CR124SHP	91	T2MW00SA	93	T2UV00LA24DS	96
STB 204012	878	T2CR124SP	91	T2MW25CA	93	T2UV00LA40DL	96
STB 303012	878	T2CR12L3SHP	91	T2MW25LCP	93	T2UV00LA40DS	96
STB 304012	878	T2CR12L3SP	91	T2PF123HA	94	T2UV00LA40NT	96
STB 305012	878	T2CR12L4SHP	91	T2PF124HA	94	T2UV00LA40NWA	98
STB 404012	878	T2CR12L4SP	91	T2PF253HA	94	T2UV00LA45DL	96
SV250230	422	T2CR253SHP	91	T2PF254HA	94	T2UV00LA45DS	96
T		T2CR253SNP	91	T2PF403HA	94	T2UV00LD02DL	96
T1 25.100	810	T2CR254SHP	91	T2PF404HA	94	T2UV00LD02DS	96
T1 80.100	810	T2CR254SNP	91	T2PF803HA	94	T2UV00LD02NT	96
T1-E 25X40 G	811	T2CR25L3SHP	91	T2PF804HA	94	T2UV00LD02NWA	98
T1-E 25X80 G	811	T2CR25L3SP	91	T2RP123SA	93	T2UV00LD10DL	96
T1-E 40X40 G	811	T2CR25L4SHP	91	T2RP124SA	99	T2UV00LD10DS	96
T1-E 40X60 G	811	T2CR25L4SP	91	T2RP253LA	99	T2UV00LD10NT	96
T1-E 40X80 G	811	T2CR803LHP	91	T2RP253SB	99	T2UV00LD10NWA	98
T1-E 60X60 G	811	T2CR803LNP	91	T2RP254SA	99	T2UV00LD20NT	96
T1-E 60X80 G	811	T2CR803SHP	91	T2RP25L3SA	93	T2UV00LD20NWA	98
T1-E 80X60 G	811	T2CR803SNP	91	T2RP403SA	93	T2UV00LD24DL	96
T1-E 80X80 G	811	T2CR804LHP	91	T2RP404SA	93	T2UV00LD24DS	96
T1.100.100	810	T2CR804LNP	91	T2RP463SA	99	T2UV80A10DSA	97
T1.100.60	810	T2CR804SHP	91	T2RP803LA	99	T2UV80A10NTA	98
T1.100.80	810	T2CR804SNP	91	T2RP803SA	93	T2UV80A20NTA	98
T1.150.100	810	T2CS161SP	91	T2RPX03SA	99	T2UV80A24NTA	96
T1.25.30	810	T2FB121BA	94	T2SF25NEA	94	T2UV80A40DSA	97
T1.25.40	810	T2FB123BA	94	T2SF25NTA	100	T2UV80A40NTA	98
T1.25.60	810	T2FB124BA	94	T2SH00A10TA	98	T2UV80A45DSA	97
		T2FB251BA	99	T2SH00A20TA	98	T2UV80A45NTA	96

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
T							
T2UV80D02NTA	98	TAS127B 4000/5A	280	TOH63	253	TPHS25L	90
T2UV80D10NTA	98	TAS127B1600/5A	280	TPCF163SLEPH	92	TPHS25LR5GM	90
T2UV80D20NTA	98	TAS127BH 1500/5A	280	TPCF163SLNP	92	TPHS25LR5RM	90
T30GRN	742	TAS127BH 1600/5A	280	TPCF163SLNPH	92	TPHS25R5GM	90
TA 100-40	811	TAS127BH 2000/5A	280	TPCF163SSEPH	92	TPHS25R5RM	90
TA 100.80	811	TAS127BH 2500/5A	280	TPCF163SSNP	92	TPHS25SR5GM	90
TA 120.60	811	TAS127BH 3000/5A	280	TPCF163SSNPH	92	TPHS25SR5RM	90
TA 200.80	811	TAS127BH 4000/5A	280	TPCF164SLEPH	92	TPHS40	90
TA 40.40	811	TAS63P2505A	279	TPCF164SLNP	92	TPHS40BR6GM	90
TA 60.60	811	TAS63P3005A	279	TPCF164SLNPH	92	TPHS40BR6RM	90
TA 80.60	811	TAS63P4005A	279	TPCF164SSEPH	92	TPHS63R5GM	90
TA3271001A	278	TAS63P6005A	279	TPCF164SSNP	92	TPHS63R5RM	90
TA3271005A	278	TAS63P8005A	279	TPCF165L	92	TPHS80	90
TA3271205A	278	TAS65 1000/5A	279	TPCF633SLEPH	92	TPHS80F65BM	90
TA3271255A	278	TAS65 1200/5A	279	TPCF633SLNP	92	TPHS80F65RM	90
TA3271505A	278	TAS65 1500/5A	279	TPCF633SLNPH	92	TPHSB12	90
TA3272001A	278	TAS65 500/5A	279	TPCF633SWEPH	92	TPHSB25	90
TA3272005A	278	TAS65 600/5A	279	TPCF633SWNP	92	TPHSB40	90
TA3272505A	278	TAS65 750/5A	279	TPCF633SWNPH	92	TPHSX6F65BM	90
TA3273001A	278	TAS65 800/5A	279	TPCF634SLEPH	92	TPHSX6F65RM	90
TA3273005A	278	TAS65H 1000/5A	279	TPCF634SLNP	92	TPMC25SD02N	94
TA3274005A	278	TAS65H 1200/5A	279	TPCF634SLNPH	92	TPMC25SD10N	94
TA3275005A	278	TAS65H 1500/5A	279	TPCF634SWEPH	92	TPMC25SD20N	94
TA327501A	278	TAS65H 500/5A	279	TPCF634SWNP	92	TPMC63SA10N	94
TA327505A	278	TAS65H 600/5A	279	TPCF634SWNPH	92	TPMC63SD02N	94
TA3276005A	278	TAS65H 750/5A	279	TPCF635L	92	TPML16SL3	93
TA327605A	278	TAS65H 800/5A	279	TPCLCA25	95	TPML16SL4	93
TA327755A	278	TC-TAS65-105-127B	280	TPCLCA25D	95	TPML16SR3	93
TA327805A	278	TC72 RQ AQ	274	TPCLCB100	95	TPML25SL3	93
TA43210005A	279	TC96 144 RQ AQ	274	TPCLCB160	95	TPML25SL4	93
TA4321005A	279	TCD12BS32AE	264	TPCLCP16	95	TPML25SR3	93
TA4321505A	279	TCD12WSS2Ti100	264	TPCLCP16SE	95	TPML63SL3H	93
TA4322005A	279	TCD12WSS2Ti300	264	TPCLCP25	95	TPML63SL3M	93
TA4322505A	279	TCD1M10080CMX	264	TPCLCP25SE	95	TPML63SL4H	93
TA4323005A	279	TCD1X160150CMX	263	TPCLCP63	95	TPML63SL4M	93
TA43232505A	279	TCD1X160200CMX	263	TPCM00D02NA	95	TPML63SR3H	93
TA4324005A	279	TCD1X16080CMX	263	TPCM00D02WA	95	TPML63SR3M	93
TA4325005A	279	TCD2X250150CMX	263	TPCR163SP	91	TPMW00L	93
TA4326005A	279	TCD2X250200CMX	263	TPCR163SPH	91	TPMW00S	93
TA4327505A	279	TCD2X25080CMX	263	TPCR164SP	91	TPMW16SCN	93
TA4328005A	279	TCD3X630200CMX	263	TPCR164SPH	91	TPMW25SCN	93
TAI BB 100/5A	278	TDAA2	185	TPCR633SP	91	TPMW63SCH	93
TAI BB 120/5A	278	TDAB2	185	TPCR633SPH	91	TPMW63SCM	93
TAI BB 125/5A	278	TDAC2	185	TPCR634SP	91	TPPHQTT130HA	95
TAI BB 150/5A	278	TDB120	186	TPCR634SPH	91	TPPHQTT140HA	95
TAI BB 200/5A	278	TDB210	186	TPCS163SPB	91	TPPHQTT150HA	96
TAI BB 250/5A	278	TDB35	186	TPDA16SA	92	TPPHQTT160HA	95
TAI BB 300/5A	278	TDB60	186	TPDOSZ	188	TPPHQTT330HA	95
TAI BB 40/1A	278	TDGA2	185	TPFB163SBC	94	TPPHQTT340HA	95
TAI BB 40/5A	278	TDGB2	185	TPFB164SBC	94	TPPHQTT350HA	95
TAI BB 50/1A	278	TDGC2	185	TPFB403WHA	94	TPPHQTT360HA	95
TAI BB 50/5A	278	TDGD2	185	TPFB404WHC	94	TPPHQTT370HA	95
TAI BB 60/5A	278	TDGE2	185	TPFB633WHC	94	TPPHQTT430HA	95
TAI BB 70/5A	278	TDGF2	185	TPFB634WHC	94	TPPHQTT440HA	95
TAI BB 75/5A	278	TDGH2	185	TPFW16S3L1H	93	TPPHQTT450HA	95
TAI BB 80/5A	278	TF 28037	873	TPFW16S3L6H	93	TPPHQTT460HA	95
TAQ10 10/5	280	TF CAB	886	TPFW16S4L1H	93	TPPHQTT470HA	95
TAQ10 25/5	280	TH A	873	TPFW16S4L6H	93	TPPM16A3A	94
TAS102 1000/5A	279	TLCL 87035	904	TPFW63S3L2H	93	TPPM16A4A	94
TAS102 1200/5A	279	TLCL 8703524	904	TPFW63S3S1H	93	TPPM25A3A	94
TAS102 1250/5A	279	TLCS 01	904	TPFW63S4L2H	93	TPPM25A4A	94
TAS102 1500/5A	279	TLCS 600	904	TPFW63S4S1H	93	TPPM63A3A	94
TAS102 1600/5A	279	TLP Motors	635	TPHB165UR5BN	89	TPPM63A4A	94
TAS102 2000/5A	279	TLP1	238	TPHB165UR5R	89	TPRP164SH	93
TAS102 2500/5A	279	TLP2	238	TPHB255UR5BN	89	TPSS00NA	96
TAS102 3000/5A	279	TLP2L1LCABLE	238	TPHB255UR5RN	89	TQZS701O1SVD	482
TAS1028005A	279	TLY-A130P-BJ62AA	635	TPHB635UR5BN	89	TQZS70KIT10M	482
TAS102B15005A	280	TLY-A230T-HJ62AA	635	TPHB635UR5RN	89	TQZS71KIT20M	482
TAS102B16005A	280	TLY-A2530P-HJ62AA	635	TPHL63SA	93	TQZS802O2SWVD	482
TAS102B25005A	280	TLY-A2540P-BJ62AA	635	TPHP16SR6BN	90	TQZS80KIT50M	482
TAS102H 1000/5A	279	TM 1216	873	TPHP16SR6RN	90	TQZSTS150N	482
TAS102H 1200/5A	279	TM 1625	873	TPHP25SR6BN	90	TQZSTS250N	482
TAS102H 1250/5A	279	TM2IA34	282	TPHP25SR6RN	90	TRA230-100-5A	281
TAS102H 1500/5A	279	TM3I210	282	TPHP63SR6BN	90	TRA230-150-5A	281
TAS102H 1600/5A	279	TM3I230	282	TPHS12R5GM	90	TRA230-200-5A	281
TAS102H 2000/5A	279	TM3I310	282	TPHS12R5RM	90	TRA230-250-5A	281
TAS102H 2500/5A	279	TM3I330	282	TPHS16L	90	TRA230-300-5A	281
TAS102H 3000/5A	279	TM3IH30	282	TPHS16LR5GM	90	TRA230-400-5A	281
TAS127B 1500/5A	280	TM3U370	282	TPHS16LR5RM	90	TRA230-60-5A	281
TAS127B 2000/5A	280	TO400XS125	107	TPHS16R5GM	90	TRAS801000/5A	281
TAS127B 2500/5A	280	TOH100	253	TPHS16R5RM	90	TRAS80250/5A	281
TAS127B 3000/5A	280	TOH150	253	TPHS16S	90	TRAS80300/5A	281
		TOH40	253	TPHS25	90	TRAS80400/5A	281

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
T		V4DE470	993	V6CF430	997	V7-MP-G	838
TRA580500/5A	281	V4PR335	993	V6DF318	996	V7-MP-H	838
TRA580600/5A	281	V4PR335V	993	V6DF324	996	V7-MP-I	838
TRA580800/5A	281	V4PR350	993	V6DF330	996	V7-MP-J	838
TRA8121000/5A	281	V4PR350V	993	V6DF418	996	V7-MP-K	838
TRA8121200/5A	281	V4PR370	993	V6DF424	996	V7-MP-L	838
TRA8121500/5A	281	V4PR395	993	V6DF430	996	V7-MP-M	838
TRA812500/5A	281	V4PR435	994	V6PM318	997	V7-MP-N	838
TRA812600/5A	281	V4PR435V	994	V6PM324	997	V7-MP-P	838
TRA812800/5A	281	V4PR450	994	V6PM330	997	V7-MP-POS	838
TRA8162000/5A	281	V4PR450V	994	V6PM418	997	V7-MP-Q	838
TRA8162500/5A	281	V4PR470	994	V6PM424	997	V7-MP-R	838
TRA8163000/5A	281	V5AR312	996	V6PM430	997	V7-MP-S	838
TRA8164000/5A	281	V5AR315	996	V7-CJ14-2	841	V7-MP-T	838
TRA8165000/5A	281	V5AR318	996	V7-CJ14-3	841	V7-MP-U	838
TT1AB502A	282	V5AR31816	996	V7-CJ5-10	841	V7-MP-V	838
TT35 10-30V 5-45A	282	V5AR324	996	V7-CJ5-2	841	V7-MP-W	838
TT351030VDC	282	V5AR32418	996	V7-CJ5-3	841	V7-MP-X	838
TT35A110VAC	282	V5AR370	996	V7-CJ5-50	841	V7-MP-Y	838
TT35A240VAC	282	V5AR395	996	V7-CJ6-10	841	V7-MP-Z	838
TZS-100	188	V5AR412	996	V7-CJ6-2	841	V7-MP5-0	839
TZS-24	188	V5AR415	996	V7-CJ6-3	841	V7-MP5-1	839
TZS-40	188	V5AR41516	996	V7-CJ6-50	841	V7-MP5-10	839
TZS-68	188	V5AR418	996	V7-CJ7-10	841	V7-MP5-2	839
TZS-AD 120/240V	188	V5AR41816	996	V7-CJ7-2	841	V7-MP5-3	839
TZS-AD 24V AC	188	V5AR470	996	V7-CJ7-3	841	V7-MP5-4	839
TZS-AD 415/440V	188	V5AR495	996	V7-CJ7-40	841	V7-MP5-5	839
U		V5CE312	995	V7-CJ8-10	841	V7-MP5-6	839
UA30CAD35PKTI	421	V5CE315	995	V7-CJ8-2	841	V7-MP5-7	839
ULAC	742	V5CE318	995	V7-CJ8-3	841	V7-MP5-8	839
USB	142	V5CE31816	995	V7-CJD5-10	841	V7-MP5-9	839
USBL	142	V5CE324	995	V7-CJD6-10	841	V7-MP5-AC	839
UWP30RSEXXX	261	V5CE32418	995	V7-CJD6-2	841	V7-MP5-BLANK	839
UXHB0001B	106	V5CE370	995	V7-CJD6-3	841	V7-MP5-C	839
UXKB0001A	106	V5CE395	995	V7-CJD6-50	841	V7-MP5-D	839
UXKC0012A	106	V5CE412	996	V7-CJDL6	841	V7-MP5-DC	839
UXLB0008C	105	V5CE415	996	V7-CJL5	841	V7-MP5-GND	839
UXMB0006B	105	V5CE41516	996	V7-CJL6	841	V7-MP5-K	839
UXMB0008B	105	V5CE418	996	V7-CJS11-10	841	V7-MP5-L	839
UXMB0008B	105	V5CE41816	996	V7-CJS11-2	841	V7-MP5-NEG	839
UXMB0009B	105	V5CE470	996	V7-CJS11-3	841	V7-MP5-POS	839
UXOY0006A	107	V5CE495	996	V7-CJT5-10	841	V7-MP5-S	839
UXOY0007A	107	V5DE312	995	V7-CJT5-50	841	V7-MP5-T	839
V		V5DE315	995	V7-CP4	841	V7-MP5-U	839
V4-05FA1	837	V5DE318	995	V7-DP4	836	V7-MP5-V	839
V4-10FA1	837	V5DE31816	995	V7-EA35	842	V7-MP5-W	839
V4-1F	837	V5DE324	995	V7-EAH35	842	V7-MP5-Z	839
V4-1FA1	837	V5DE32418	995	V7-EB10	842	V7-N37	842
V4-2F	837	V5DE370	995	V7-EB10-Y	834	V7-PP10	842
V4-2FA1	837	V5DE395	995	V7-EB3	842	V7-PP3	842
V4AR335	994	V5DE412	995	V7-EB3-Y	834	V7-PP35	842
V4AR335V	994	V5DE415	995	V7-EB35	842	V7-PPD3	842
V4AR350	994	V5DE41516	995	V7-EB3TW	842	V7-PPSL3	842
V4AR350V	994	V5DE418	995	V7-EBD3	842	V7-PPTS3	842
V4AR370	994	V5DE41816	995	V7-EBD3-Y	834	V7-SJ5-10	841
V4AR395	994	V5DE470	995	V7-EBFB10V	842	V7-SJ6-10	841
V4AR435	994	V5DE495	995	V7-EBKD3	842	V7-SJ8-10	841
V4AR435V	994	V5PR312	995	V7-EBTF3	842	V7-SJFB8-10	841
V4AR450	994	V5PR315	995	V7-EBTS3	842	V7-SM5X12	837
V4AR450V	994	V5PR318	995	V7-EWP6-4	842	V7-SM5X9	837
V4AR470	994	V5PR31816	995	V7-FP4	836	V7-SM5X9H00	837
V4CE335	994	V5PR324	995	V7-FP424	836	V7-SM5X9H01	837
V4CE335V	994	V5PR32418	995	V7-GM35	839	V7-SM5X9H02	837
V4CE350	994	V5PR370	995	V7-H5	835	V7-SM5X9H03	837
V4CE350V	994	V5PR395	995	V7-H6	835	V7-SM5X9H04	837
V4CE370	994	V5PR412	995	V7-MP	838	V7-SM5X9H05	837
V4CE395	994	V5PR415	995	V7-MP-0	838	V7-SM5X9H06	837
V4CE435	994	V5PR41516	995	V7-MP-1	838	V7-SM5X9H07	837
V4CE435V	994	V5PR418	995	V7-MP-2	838	V7-SM5X9H08	837
V4CE450	994	V5PR41816	995	V7-MP-3	838	V7-SM5X9H09	837
V4CE450V	994	V5PR470	995	V7-MP-4	838	V7-SM5X9H10	837
V4CE470	994	V5PR495	995	V7-MP-5	838	V7-SM5X9H100	837
V4DE335	993	V6AM318	997	V7-MP-6	838	V7-SM5X9H200	837
V4DE335V	993	V6AM324	997	V7-MP-7	838	V7-SM5X9H300	837
V4DE350	993	V6AM330	997	V7-MP-8	838	V7-SM6X12	837
V4DE350V	993	V6AM418	997	V7-MP-9	838	V7-SM6X12H01	838
V4DE370	993	V6AM424	997	V7-MP-A	838	V7-SM6X12H02	838
V4DE395	993	V6AM430	997	V7-MP-AC	838	V7-SM6X12H03	838
V4DE435	993	V6CF318	997	V7-MP-BLANK	838	V7-SM6X12H04	838
V4DE435V	993	V6CF324	997	V7-MP-C	838	V7-SM6X12H05	838
V4DE450	993	V6CF330	997	V7-MP-D	838	V7-SM6X12H06	838
V4DE450V	993	V6CF418	997	V7-MP-E	838	V7-SM6X12H07	838
		V6CF424	997	V7-MP-F	838	V7-SM6X12H08	838

CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE	CAT. NO.	PAGE
V							
V7-SM6X12H09	838	VLB16004P	207	WM40AV53H	264	X5DR312	999
V7-SM6X12H10	838	VLB1603P	206	WM50AV53HBC	264	X5PE312	999
V7-SM6X12H100	838	VLB2003P	206	WMK ARCA 10M	884	X5PR312	999
V7-SM6X12H200	838	VLB2004P	207	WMK ARCA 40	884	X5PR312S	1000
V7-SM6X12H300	838	VLB2503P	206	WMK ARCA 40M	884	X5PR315	999
V7-SP3	842	VLB2504P	207	X			
V7-SPD3	842	VLB2504P1	207	X4CE333S	999	X5PR315S	1000
V7-TA40	842	VLB3153P	206	X4CE335VS	999	X5PR318	999
V7-TP28	842	VLB3154P	207	X4CE335VS	999	X5PR31816	999
V7-W10	833	VLB323P	206	X4CE350S	999	X5PR318S	1000
V7-W10-B	833	VLB4003P	206	X4CE350VS	999	X5PR318S16	1000
V7-W16S	833	VLB4004P	207	X4CE370S	999	X5PR32418	999
V7-W16S-B	833	VLB403P	206	X4CE395S	999	X5PR324S	1000
V7-W3	832	VLB5003P	206	X4CE435S	999	X5PR324S18	1000
V7-W3-B	832	VLB5004P	207	X4CE435VS	999	X5PR370	999
V7-W3-RE	832	VLB6303P	206	X4CE450S	999	X5PR370S	1000
V7-W3-W	832	VLB633P	206	X4CE450VS	999	X5PR395	999
V7-W35	833	VLB634P	207	X4CE470S	999	X5PR395S	1000
V7-W35-B	833	VLB8003P	206	X4DE335	998	X5PR412	1000
V7-W3TW	836	VLB803P	206	X4DE335V	998	X5PR412S	1000
V7-W4	832	VLB804P	207	X4DE350	998	X5PR415	1000
V7-W4-B	832	VLBM1003P	206	X4DE350V	998	X5PR41516	1000
V7-W4-BL	832	VLBM1004P	207	X4DE370	998	X5PR415S	1000
V7-W4-RE	832	VLBM1253P	206	X4DE395	998	X5PR415S16	1000
V7-W4-W	832	VLBM1254P	207	X4DE435	998	X5PR418	1000
V7-W4P	835	VLBM1603P	206	X4DE435V	998	X5PR41816	1000
V7-W6	833	VLBM1604P	207	X4DE450	998	X5PR418S	1000
V7-W6-B	833	VMUCEMAWSSUX	261	X4DE450V	998	X5PR418S16	1000
V7-W70	833	VN2	439	X4DE470	998	X5PR470	1000
V7-W70-B	833	VN3	439	X4PR335	998	X5PR470S	1000
V7-WD3	833	VP02EP	440	X4PR335S	998	X5PR495	1000
V7-WD4	833	VP02EPM	440	X4PR335V	998	X5PR495S	1000
V7-WD4-B	833	VPL-B0632F-CJ12AA	632	X4PR335VS	998	X6CF318S	1001
V7-WD4C	835	VPL-B0753F-PJ12AA	632	X4PR350	998	X6CF324S	1001
V7-WD4DF	835	VPL-B0753F-PJ14AA	632	X4PR350S	998	X6CF330S	1001
V7-WD4G4C	834	VPL-B0753M-PJ12AA	632	X4PR350V	998	X6CF418S	1001
V7-WFB10V	836	VPL-B0753M-PJ14AA	632	X4PR350VS	998	X6CF424S	1001
V7-WFB10VA	836	VPL-B1002E-PJ12AA	632	X4PR370	998	X6CF430S	1001
V7-WFB4	835	VPL-B1002M-PJ12AA	632	X4PR370S	998	X6DF318	1001
V7-WFB424	835	VPL-B1002M-PJ14AA	632	X4PR395	998	X6DF324	1001
V7-WFB4250	835	VPL-B1003F-PJ12AA	632	X4PR395S	998	X6DF330	1001
V7-WG10S	834	VPL-B1003T-PJ12AA	632	X4PR435	998	X6DF418	1001
V7-WG16	834	VPL-B1153F-PJ12AA	632	X4PR435S	998	X6DF424	1001
V7-WG35	834	VPL-B1153F-PJ14AA	632	X4PR435V	998	X6DF430	1001
V7-WG4	834	VR1B	420	X4PR435VS	998	X6PM318S	1001
V7-WG6	834	VR2B	420	X4PR450	998	X6PM324S	1001
V7-WG70	834	VS1250NE31250K	103	X4PR450V	998	X6PM330S	1001
V7-WKD3	836	VS125GJ3100	101	X4PR450VS	998	X6PM418S	1001
V7-WKD6	836	VS125GJ3125	101	X4PR470	998	X6PM424S	1001
V7-WTF3	835	VS125GJ350	101	X4PR470S	998	X6PM430S	1001
V7-WTS3	836	VS125GJ363	101	X5CE312S	1000	XA80056U4POLE	171
VC12RN230	420	VS125NJ320	101	X5CE315S	1000	XA80064U4POLE	171
VC12RT23010M	420	VS125NJ332	101	X5CE318S	1000	XA8008U4POLE	171
VCO1003P	222	VS250GJ3160	102	X5CE318S16	1000	XAP63012U	172
VCO1004P	222	VS250GJ3250	102	X5CE324S	1000	XAP63018U	172
VCO12503P	222	VS400NE3250K	102	X5CE324S18	1000	XAP63024U	172
VCO12504P	222	VS400NE3400K	102	X5CE370S	1000	XAP63024U4POLE	172
VCO1253P	222	VS630NE3630K	103	X5CE395S	1000	XAP63030U	172
VCO1254P	222	VS630NE3AG630K	103	X5CE412S	1000	XAP63036U	172
VCO16003P	222	VS800GE3800	103	X5CE415S	1000	XAP63042U	172
VCO16004P	222	VTI3	439	X5CE415S16	1000	XAP63048U	172
VCO2003P	222	VTL	142	X5CE418S	1000	XAP6306U	172
VCO2004P	222	W				XAP80024U	172
VCO4003P	222	W6024VDC	944	X5CE418S16	1000	XAP80036U	172
VCO6303P	222	W6115VAC	944	X5CE470S	1000	XBP80012U	172
VCO6304P	222	W6230VAC	944	X5CE495S	1000	XBP80016U4POLE	172
VCO633P	222	WFC	743	X5DE312	999	XBP80018U	172
VCO634P	222	WIN-911/FT	621	X5DE315	999	XBP80024U	172
VCO8004P	222	WIN-911/FT-HB	622	X5DE318	999	XBP80030U	172
VCO803P	222	WIN-911/I2A	622	X5DE31816	999	XBP80036U	172
VCO804P	222	WIN-911/PV	621	X5DE324	999	XBP80042U	172
VCOAX04	223	WIN911/NODES	621	X5DE32418	999	XBP80048U	172
VF01CRA10M	440	WIN911/NODES-HB	622	X5DE370	999	XBP80060U	172
VF01CRA15M	440	WIN911/P2I	622	X5DE395	999	XBP8006U	172
VF01CRA5M	440	WIN911/S2A	622	X5DE412	999	XBPSL80012U	172
VH2	439	WIN911/S2I	622	X5DE41235	999	XBPSL80015U	172
VLB1003P	206	WIN911/ADVANCED	621	X5DE415	999	XBPSL80018U	172
VLB12503P	206	WIN911/ADVANCEDHB	622	X5DE41516	999	XBPSL80024U	172
VLB12504P	207	WIN911/INTERACTIVE	621	X5DE418	999	XBPSL80030U	172
VLB1253P	206	WIN911/INTERACTIVEHB	622	X5DE41816	999	XBPSL8006U	172
VLB16003P	206	WIN911/STANDARD	621	X5DE470	999	XBPSL8009U	172
		WIN911/STANDARDHB	622	X5DE495	999	XBPSR80012U	173
				X5DE49525	999	XBPSR80015U	173
						XBPSR80018U	173

CAT. NO. PAGE

X

XBPSSR80021U	173
XBPSSR80024U	173
XBPSSR80030U	173
XBPSSR8006U	173
XBPSSR8009U	173
XCP100012U	173
XCP100018U	173
XCP100024U	173
XCP100030U	173
XCP100036U	173
XCW0840LS02	113
XEC1640LS20	113
XEP63012U	171
XEP63024U	171
XEP63036U	171
XEP63048U	171
XEP63072U	171
XFE10	105
XM30PB073P	104
XM30PB103P	104
XM30PB123P	104
XM30PB143P	104
XM30PB23P	104
XM30PB263P	104
XM30PB43P	104
XM30PB53P	104
XM30PB83P	104
XM30TSC	106
XS2000-HL-3-2000-BE	87
XS2000-HL-4-2000-BE	87
XS2000D32000NN	87
XS2000D42000NN	87
XS2000OCRSK	107
XS2500-HL-3-2500-BE	87
XS2500-HL-4-2500-BE	87
XS2500D32500NN	87
XS2500D42500NN	87
XS3200-HL-3-3200-BE	88

Y

YASD22	106
YASD22D	106
YASD34	106

Z

ZP2.FIXING	812
ZPD11	798
ZPD8	798
ZR 01172	916
ZS125M3100TF	88
ZS125M3125TF	88
ZS125M320TF	88
ZS125M332TF	88
ZS125M350TF	88
ZS125M363TF	88
ZS125M4100TF	88
ZS125M4100TFSN	88
ZS125M4125TF	88
ZS125M4125TFSN	88
ZS125M420TF	88
ZS125M420TFSN	88
ZS125M432TF	88
ZS125M432TFSN	88
ZS125M450TF	88
ZS125M463TF	88
ZS250M3160TF	89
ZS250M3250TF	89
ZS250M4160TF	89
ZS250M4160TFSN	89
ZS250M4250TF	89
ZS250M4250TFSN	89
ZS71201SWVDA	482
ZS73SR101S	431
ZS73SR101SVD	431
ZS92S22VDF4085C	482
ZS92SR22P4085C	431

The NHP logo is located in the top right corner. It consists of the letters 'NHP' in a bold, white, sans-serif font, set against a dark blue square background. The background of the entire page is a lighter blue with a faint grid pattern and a stylized map of Australia and New Zealand composed of white dots.

NHP

AUSTRALIA

nhp.com.au

SALES 1300 NHP NHP

sales@nhp.com.au

NEW ZEALAND

nhp-nz.com

SALES 0800 NHP NHP

sales@nhp-nz.com

24/7 Service and Support

NHP Electrical Engineering Products
A.B.N. 84 004 304 812

NPLCAU22 V.2022-03-14 © Copyright NHP 2022