

Circuit Protection

2025 Product Pocketbook

NHP



Circuit Protection

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NHP offers the Australasian market the complete industrial electrical and automation solutions package. As authorised distributors for Rockwell Automation and their Allen-Bradley® products in our designated areas of Australia and throughout all of New Zealand, NHP is partnered with the leading global provider of industrial automation solutions and switchgear components.

An Australian owned company, NHP is committed to serving the Australasian industry with quality products and customer support. This is achieved through a 600+ strong team distributed across dozens of branches and regional locations throughout Australia and New Zealand.



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MOD6+

Circuit Protection



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	MD6RC	MD6RS	MD6RD
			
STANDARD (AS/NZS)	61008	61009	61009
WIDTH	2P 35 mm 4P 70 mm	1P 18 mm	1P 18 mm
SWITCHED NEUTRAL	YES	YES	YES
NEUTRAL CONNECTION	TERMINAL	PIGTAIL	TERMINAL
EARTH REFERENCE WIRE	NO	NO	NO
EARTH LEAKAGE FLAG	NO	NO	NO
MOUNTING	DIN RAIL	DIN RAIL OR CHASSIS	DIN RAIL
30mA CURRENT RATINGS	40-63 A	6-32 A	6-32 A
10mA CURRENT RATINGS	–	6-32 A	6-32 A
SHORT CIRCUIT RATING (kA)	6kA I _{nc}	6kA	6kA
RCD TYPE	A/AI	A	A
CURVE TYPES	–	C	C
RATED AC VOLTAGE	2P 230/240 V 4P 230-415 V	230/240 V	230/240 V
SEALABLE IN ON-OFF POSITION	YES	YES	YES
TRIP-FREE MECHANISM	YES	YES	YES
PADLOCK FACILITY	ACCESSORY	ACCESSORY	ACCESSORY
SUPPLY	TOP OR BOTTOM	BOTTOM	TOP OR BOTTOM
BUSBAR COMB TOP TERMINALS	DUAL TERMINAL PIN/PIN	–	–
BUSBAR COMB BOTTOM TERMINALS	DUAL TERMINAL PIN/PIN	PIN/FORK	PIN (9mm)
TERMINAL TOP (MAX)	16/25 mm ²	25 mm ²	25 mm ²
TERMINAL BOTTOM (MAX)	16/25 mm ²	25 mm ²	25 mm ²

MD6R2

61009
2P 35 mm

YES
TERMINAL

NO

YES

DIN RAIL

10-40 A

6-16 A

6kA

A

C

230/240

YES

YES

ACCESSORY

TOP OR BOTTOM

PIN

PIN

25 mm²

25 mm²

MD6R4

61009
4P 71 mm

YES
TERMINAL

NO

YES

DIN RAIL

6-32 A

—

6 kA

A

C

400/415

YES

YES

ACCESSORY

TOP OR BOTTOM

DUAL TERMINAL PIN/PIN

DUAL TERMINAL PIN/PIN

16/25 mm²

16/25 mm²

MD6RL

61009
1P 18 mm

NO
PIGTAIL

YES

NO

DIN RAIL OR CHASSIS

6-40 A

—

6 kA

A

C

230/240

YES

YES

ACCESSORY

BOTTOM

—

DUAL TERMINAL PIN/PIN

16 mm²

16/25 mm²

MD6RT

61009
3P 54 mm

NO
PIGTAIL

NO

NO

DIN RAIL OR CHASSIS

6-63 A

—

6kA

A

C

400/415

YES

YES

ACCESSORY

BOTTOM

—

PIN/FORK

25 mm²

25 mm²

MOD6+ MD6M

MCB 6kA (6-63 A)

MOD6+

Miniature Circuit Breakers

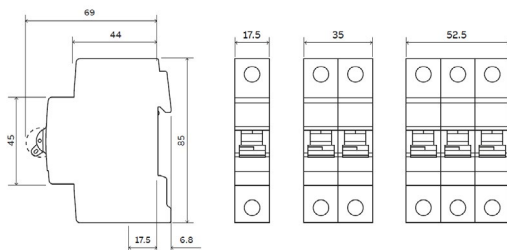
- Standard AS/NZS 60898
- Approval No. NSW29276 & RCM
- 6 kA short circuit rating
- Current ratings 6 - 63 A
- 1, 2 and 3 pole
- C Curve (5-10 I_n)
- Pad lockable handle option
- Handle sealable in ON and OFF position
- Suits pole covers, MOD6+ loadcentres/Panelboards
- Suits M6NC busbar chassis
- **General light and power applications**



C Curve

CURRENT RATING I _n (A)	1 POLE CAT. №	2 POLE CAT. №	3 POLE CAT. №
6	MD6M106	MD6M206	MD6M306
10	MD6M110	MD6M210	MD6M310
16	MD6M116	MD6M216	MD6M316
20	MD6M120	MD6M220	MD6M320
25	MD6M125	MD6M225	MD6M325
32	MD6M132	MD6M232	MD6M332
40	MD6M140	MD6M240	MD6M340
50	MD6M150	MD6M250	MD6M350
63	MD6M163	MD6M263	MD6M363

Dimensions mm



Notes

- Suits pin type busbar combs
- The line side is off or bottom of the MCB and connects to busbar chassis tee-offs

MOD6+ MD6MD

Dual 1P+1P MCB 6kA (6-20A)

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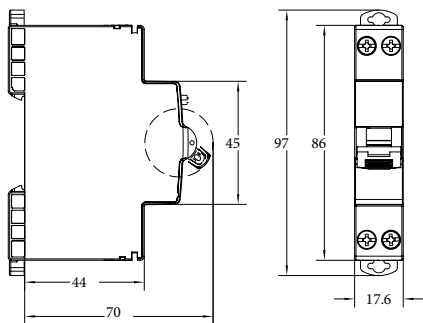
- Standard AS/NZS 60898.1
- Approval RCM
- Current ratings 6 - 20 A
- Compact design only 9mm per pole
- 240 V must be same phase for both poles
- C curve
- Suits pole covers, Loadcentres
- **General light and power applications**



C Curve

CURRENT RATING I_n (A)	1 POLE CAT. No
6	MD6MD1106
10	MD6MD1110
16	MD6MD1116
20	MD6MD1120

Dimensions mm



This product will be available in early 2026.
Please check nhp.com.au for stock availability.



MOD6+ MD6MH

MCB 10kA (80–125 A)

MOD6+

Miniature Circuit Breakers

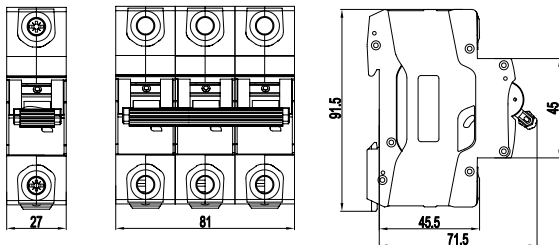
- Standard AS/NZS 60947.2
- Approval No. NSW29002 & RCM
- 10 kA short circuit rating
- Current ratings 80 - 125 A
- 1 and 3 pole
- C Curve (5-10 I_n)
- Pad lockable handle option
- Handle sealable in ON and OFF position
- Suits DIN rail mount (not suitable for busbar chassis)
- **General light and power applications**



C Curve

CURRENT RATING I_n (A)	1 POLE CAT. No	3 POLE CAT. No
80	MD6MH180	MD6MH380
100	MD6MH1100	MD6MH3100
125	MD6MH1125	MD6MH3125

Dimensions mm



Notes

- For operation by instructed or skilled persons only
- Cannot fit on chassis due to terminal height and 27mm terminal centres
- DIN rail only mount

MOD6+ MD6MS

Main Switch (80–100 A)

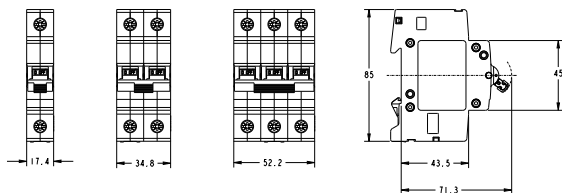
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- Standard IEC 60947-3
- Current ratings 80A and 100 A
- 1, 2 and 3 pole
- 6kA or 10kA short circuit rating^{1 2}
- Switch disconnecter (isolator)
- Pad lockable handle option
- Red Handle sealable in ON and OFF position
- DIN rail mounting
- Suits pole covers, loadcentres & M6NC busbar chassis
- **Main switch (isolator)**



CURRENT RATING I_n (A)	1 POLE CAT. №	2 POLE CAT. №	3 POLE CAT. №
80	MD6MS180	—	—
100	MD6MS1100	MD6MS2100	MD6MS3100

Dimensions mm



Notes

- MOD6+ main switches have the same profile as MOD6+ MCBs and are suitable as a main switch (isolator) in loadcentres and distribution boards.

1. 10kA when backed up with I_n rated NH00 gG fuse
2. 6kA when backed with MD6M MCB or 10kA when backed with MD6MH MCB

MOD6+ MD6RC

RCCB 6kA (40–63 A)

MOD6+

Residual Current Devices

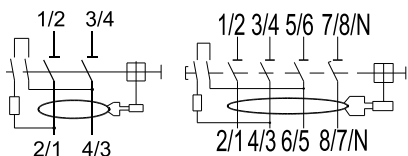
- Standard AS/NZS 61008.1
- Approval No. NSW20673 & RCM
- Current ratings 40 & 63 A
- Earth leakage protection Type A
- Type AI high immunity type option
- 30mA trip sensitivity
- Switched neutral
- Suits pole covers, loadcentres
- **General light and power applications**



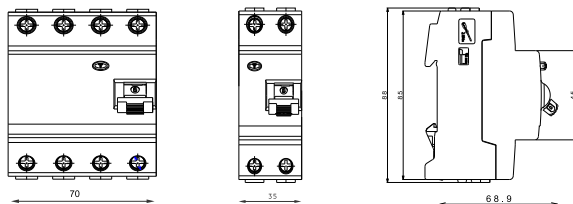
Two Pole & Four Pole

RCD TYPE	AMP. RATING	2 POLE CAT. No	4 POLE CAT. No
TYPE A	40 A	MD6RC24030A	MD6RC44030A
	63 A	MD6RC26330A	MD6RC46330A
TYPE AI	63A	MD6RC26330AI	MD6RC46330AI

Circuit diagrams



Dimensions mm



Notes

- Pin type busbar comb can used on top or bottom terminals

MOD6+ MD6RS

RCBO 1P (compact) 6kA (6-32 A)

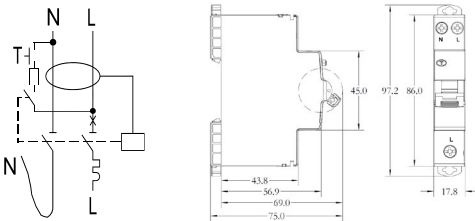
- Standard AS/NZS 61009
- Approval No. NSW24576 & RCM
- Current ratings 6-32 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 10mA and 30mA trip sensitivity
- Switched neutral
- Suits pole covers, loadcentres, MOD6+ Panelboards
- Suits M6NC busbar chassis
- **General light and power applications**



Single Pole

AMP. RATING	30mA CAT. No	10mA CAT. No
6 A	MD6RS0630A	MD6RS0610A
10 A	MD6RS1030A	MD6RS1010A
13 A	MD6RS1330A	-
16 A	MD6RS1630A	MD6RS1610A
20 A	MD6RS2030A	MD6RS2010A
25 A	MD6RS2530A	MD6RS2510A
32 A	MD6RS3230A	MD6RS3210A

Circuit diagram and dimensions mm



Notes

- Suited to bottom pin/fork type busbar
- 10mA Type 1 RCBO
- Neutral pigtail
- The line side is off or bottom of the RCBO and connects to busbar chassis tee-offs

MOD6+ MD6RD

RCBO 1P (compact) 6kA (6-32 A)

MOD6+

Residual Current Devices

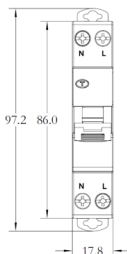
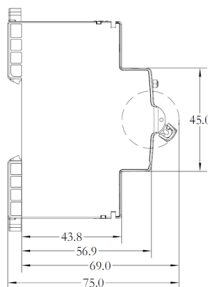
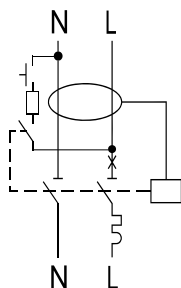
- Standard AS/NZS 61009
- Approval No. NSW24576 & RCM
- Current ratings 6-32 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 10mA and 30mA trip sensitivity
- Switched neutral
- Suits pole covers, loadcentres
- **General light and power applications**



Single Pole

AMP. RATING	30mA CAT. No	10mA CAT. No
6 A	MD6RD0630A	MD6RD0610A
10 A	MD6RD1030A	MD6RD1010A
13 A	MD6RD1330A	-
16 A	MD6RD1630A	MD6RD1610A
20 A	MD6RD2030A	MD6RD2010A
25 A	MD6RD2530A	MD6RD2510A
32 A	MD6RD3230A	MD6RD3210A

Circuit diagram and dimensions mm



Notes

- Suited to bottom pin type busbar, 9mm pitch
- Product not suitable for busbar chassis and Panelboards
- 10mA Type 1 RCBO
- Suits IBD and MD6AB busbar comb (page 23)

MOD6+ MD6R2

RCBO 2P 6kA (6-40 A)

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13

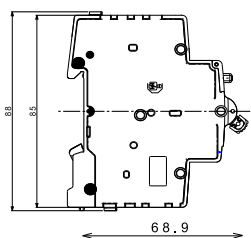
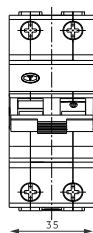
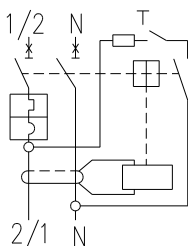
- Standard AS/NZS 61009
- Approval No. NSW29296 & RCM
- Current ratings 6-40 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 10mA and 30mA trip sensitivity
- Switched neutral
- Earth leakage blue trip indicator - ETI
- Suits pole covers, loadcentres
- **General light and power applications**



Two Pole 1P+N

AMP. RATING	30mA CAT. No	10mA CAT. No
6 A	—	MD6R20610A
10 A	MD6R21030A	MD6R21010A
16 A	MD6R21630A	MD6R21610A
20 A	MD6R22030A	—
25 A	MD6R22530A	—
32 A	MD6R23230A	—
40 A	MD6R24030A	—

Circuit diagram and dimensions mm



Notes

- Suited to top or bottom pin type busbar
- 10mA Type 1 RCBO

MOD6+ MD6R4
RCBO 4P 6kA (6-32 A)

MOD6+
Residual Current Devices

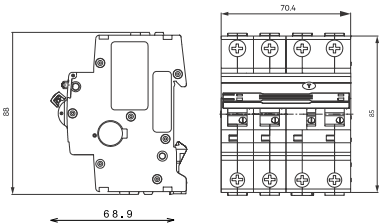
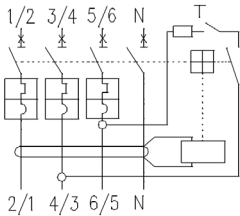
- Standard AS/NZS 61009
- Approval No. ESV180145 & RCM
- Current ratings 6-32 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 30mA trip sensitivity
- Switched neutral
- Earth leakage blue trip indicator - ETI
- Suits pole covers, loadcentres
- **General light and power applications**



Four Pole 3P+N

AMP. RATING	30mA CAT. №
6 A	MD6R40630A
10A	MD6R41030A
16 A	MD6R41630A
20 A	MD6R42030A
25 A	MD6R42530A
32 A	MD6R43230A

Circuit diagram and dimensions mm



Notes

- Suited to top or bottom pin type busbar

MOD6+ MD6RL

RCBO 1P (long body) 6kA (6–40 A)

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15

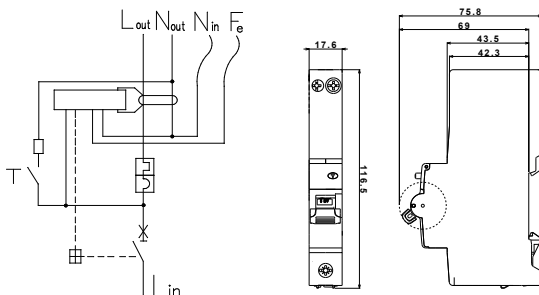
- Standard AS/NZS 61009
- Approval No. NSW29319 & RCM
- Current ratings 6–40 A
- C Curve (5–10 I_n)
- Earth leakage protection Type A
- 30mA trip sensitivity
- Unswitched neutral
- Suits MOD6+ Panelboards & M6NC busbar chassis
- **General light and power applications**



Single Pole

AMP. RATING	CAT. No
6 A	MD6RL0630A
10 A	MD6RL1030A
16 A	MD6RL1630A
20 A	MD6RL2030A
25 A	MD6RL2530A
32 A	MD6RL3230A
40 A	MD6RL4030A

Circuit diagram and dimensions mm



Notes

- Suited to bottom pin type busbar
- Neutral pigtail and earth reference wire
- The line side is off or bottom of the RCBO and connects to busbar chassis tee-offs

MOD6+ MD6RT

RCBO 3P 6kA (6-63 A)

MOD6+

Residual Current Devices

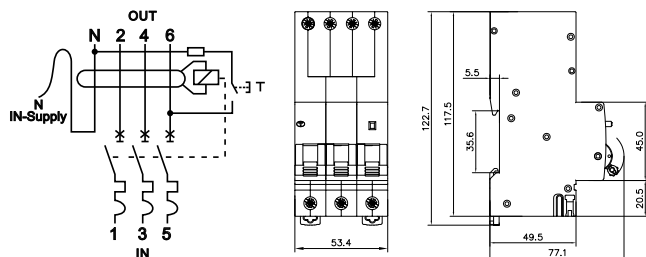
- Standard AS/NZS 61009
- Approval No. ESV220008 & RCM
- Current ratings 6-63 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 30mA trip sensitivity
- Unswitched neutral
- Suits MOD6+ Panelboards & M6NC busbar chassis
- **General light and power applications**



Three Pole

AMP. RATING	30mA CAT. №
6 A	MD6RT0630A
10 A	MD6RT1030A
16 A	MD6RT1630A
20 A	MD6RT2030A
25 A	MD6RT2530A
32 A	MD6RT3230A
40 A	MD6RT4030A
50 A	MD6RT5030A
63 A	MD6RT6330A

Circuit diagram and dimensions mm



Notes

- Suited to bottom pin type busbar
- The line side is off or bottom of the RCBO and connects to busbar chassis tee-offs

MOD6+ MD6AFDDM

AFDD + MCB 6kA (6-40 A)

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17

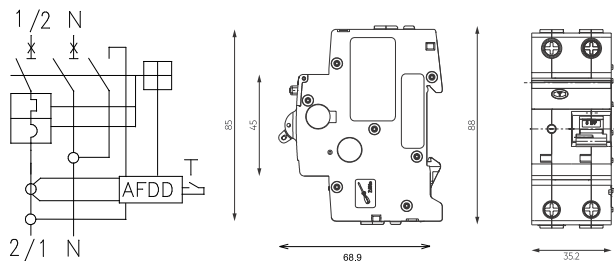
- Standard IEC 62606 & AS/NZS 60898.1
- Approval No NSW29481 & RCM
- C Curve (5-10 I_n)
- LED AFDD Trip indication
- Arc Fault Detection Device AFDD
- Contact position indicator green/red flag (CPI)
- Switched neutral
- Suits DIN rail mounting
- **General light and power specific applications**



Two Pole

AMP. RATING	MCB TYPE CAT. No
6 A	MD6AFDDM6C
10 A	MD6AFDDM10C
16 A	MD6AFDDM16C
20 A	MD6AFDDM20C
25 A	MD6AFDDM25C
32 A	MD6AFDDM32C
40 A	MD6AFDDM40C

Circuit diagram and dimensions mm



MOD6+ MD6AFDDR

AFDD + RCBO 6kA (6-20 A)

MOD6+

Residual Current Devices

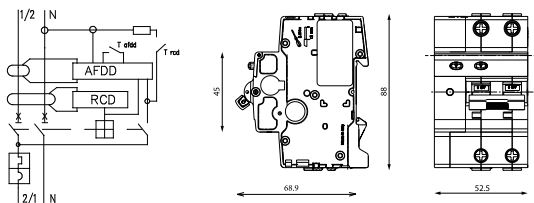
- IEC 62606 & AS/NZS 61009
- Approval No. ESV200140 & RCM
- C Curve (5-10 I_n)
- 30mA trip sensitivity
- Arc Fault Detection Device AFDD
- Earth leakage protection type A
- LED AFDD Trip indication
- Contact position indicator green/red flag (CPI)
- Switched neutral
- Suits DIN rail mounting
- **General light and power applications**



Two Pole

AMP. RATING	RCBO TYPE CAT. No
6 A	MD6AFDDR630A
10 A	MD6AFDDR1030A
16 A	MD6AFDDR1630A
20 A	MD6AFDDR2030A

Circuit diagram and dimensions mm



MOD6+ MD6AS

Surge Diverter

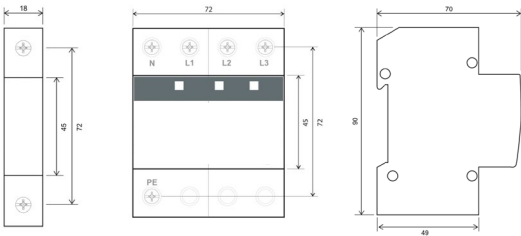
- Standard IEC 61643-11
- Type 2/class II
- Life indicator flag
- Remote indication (volt free contacts)



Single Pole and Four Pole (3P+N)

kA RATING	1P CAT. №	3P+N CAT. №
20kA	MD6AS120230	MD6AS420400
40kA	MD6AS140230	MD6AS440400

Dimensions mm



Terminals, Locking, Filler and Caps

MOD6+
Accessories

Pin terminals

DESCRIPTION	CAT. №
TERMINAL PIN 25mm LONG INSULATED	DTTLT25PN2
NEUTRAL PIN TERMINAL 3-WAY PERFECT FOR RCCBS	DTTAX16PN3
PIN TERMINAL 25mm 90° (REAR FEED) INSULATED	DTT9025PN
25mm TIN PLATED PIN TERMINAL GREAT FOR ALUMINUM CABLES	DTTAX25PN
50mm TIN PLATED PIN TERMINAL GREAT FOR ALUMINUM CABLES	DTTAX50PN

Locking devices

DESCRIPTION	CAT. №
NON CAPTIVE LOCKING DEVICE UP TO 8mm HASP	DTLD

Pole Filler & tee-off caps

DESCRIPTION	CAT. №
POLE FILLER 12 POLES	DTPF12
STRIP TEE-OFF CAPS 5 POLES	ICLTOC

DTTLT25PN2	DTTAX16PN3	DTT9025PN	DTTAX25PN
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DTTAX50PN	DTLD	DTPF12	ICLTOC
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- Pin type busbar comb
- 18mm pitch
- 80A end feed/ 130A centre feed
- Suit MCBs and RCBs

No WAYS	1P CAT. No	1P+N (2P) CAT. No	3P CAT. No	4P (R-W-B-N) CAT. No
6 WAY	–	ICL62	–	–
8 WAY	IBC108P	–	–	–
10 WAY	–	ICL102	–	–
12 WAY	IBC112P	–	ICL123	–
15 WAY	IBC115P	–	ICL153	–
18 WAY	IBC118P	–	ICL183	–
21 WAY	IBC121P	–	ICL213	–
56 WAY	–	ICL562	–	ICL564
57 WAY	IBC155P	–	ICL573	–
END CAP	IBCEC1	ICLEC23	ICLEC23	ICLEC4

IBC108P



ICL123



- Pin type busbar comb
- 9mm pitch
- 63A
- Suits MOD6+ compact MD6RD 1P RCBOs

No WAYS	1P+N CAT. No	3P+N (R-N-W-N-B-N) CAT. No
12 WAY	—	—
13 WAY	IBD213P	—
18 WAY	IBD218P	—
55 WAY	IBD255P	IBD4552P
END CAP	IBDEC2	IBDEC4

IBD213P



IBD255P

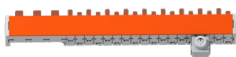


The products below will be available in early 2026.
Please check nhp.com.au for stock availability.



No WAYS	1P+N WITH 1P MAINS FEED CAT. No	1P+N WITHOUT MAINS FEED CAT. No	3P+N WITH 3P MAINS FEED CAT. No	3P+N WITHOUT MAINS FEED CAT. No
12 WAY	MD6AB1219M	MD6AB1219	MD6AB1239M	MD6AB1239
18 WAY	MD6AB1819M	MD6AB1819	MD6AB1839M	MD6AB1839
TEE-OFF CAP	MD6ABTC	MD6ABTC	MD6ABTC	MD6ABTC

MD6AB1239M



MD6AB1219



MOD6+ Enclosures

2

Introduction	Selection Guide	26
Loadcentres	MOD6+ CSP	28
	MOD6+ Lightning MD6LL	29
	NHP Weatherproof NWP	31
Panelboards	MOD6+ ONE	32
	MOD6+ Prime	36
	Powermax Chassis	40

Selection Guide

MINIATURE CIRCUIT BREAKERS	CSPC POLE COVER	ILC POLE COVER	MOD6+ LIGHTNING SURFACE-MD6LL LOADCENTRE
			
SURFACE MOUNTING	YES	YES	YES
FLUSH MOUNTING	NO	NO	NO
IP RATING	30	40	40
MATERIAL BASE		ABS	POLYCARBONATE
MATERIAL DOOR		POLYCARBONATE	POLYCARBONATE
COLOUR	RAL7035	RAL7035	RAL9003
WIDTH	1P 33 mm 2P 52 mm 4P 87 mm 6P 122 mm 8P 160 mm	4P 90 mm 8P 170 mm	8P 220 mm 12P 280 mm 18P 383 mm 24P 320 mm 36P 430 mm
POLE SIZES	1P, 2P, 4P, 6P & 8P	4P, 8P	8P, 12P, 18P, 24P & 36P
CURRENT RATING			80 A
DOOR	NO	YES TRANSPARENT	YES WHITE OR TRANSPARENT
LOCKABLE		NO	NO
E/N BARS	NO	NO	YES
PAGE NUMBER	28	28	29

**MOD6+ LIGHTNING
FLUSH- MD6LL
LOADCENTRE****NWP IP65 LOADCENTRE****MOD6+ ONE MD6PO
PANELBOARD****MOD6+ PRIME MD6PP
PANELBOARD**

NO	YES	YES	YES
YES	NO	ACCESSORY	NO
40	65	40	56
POLYCARBONATE	ABS/PV BASE UV TREATED HIPS LID	MILD STEEL	MILD STEEL
POLYCARBONATE	POLYCARBONATE	MILD STEEL	MILD STEEL
RAL9003	RAL7035	RAL7035	RAL7035
12P 320 mm 18P 430 mm 24P 320 mm 36P 430 mm	4P- 152 mm 8P- 232 mm 12P- 320 mm 24P- 320 mm 36P- 320 mm	530 mm	600 mm
12P, 18P, 24P & 36P	4P, 8P, 12P, 24P & 36P	24P, 36P, 48P, 60P & 84P	24P, 36P, 48P, 60P & 84P
80 A	63 A	160 A, 250 A	250 A
YES WHITE OR TRANSPARENT	YES TRANSPARENT	YES	YES
NO	ACCESSORY	YES	YES
YES	YES	YES	YES
30	31	32-35	36-39

MOD6+ CSP

Surface Mount IP30 Pole Covers

MOD6+ Enclosures
Loadcentres

- IP30 rating
- RAL 7035 Grey
- 1, 2 and 4 Pole sealable
- Surface Mount
- No Earth and neutral bars



Dimensions mm

POLES	H × W × D mm	CAT. No
1	130 X 33 X 62	CSPC1
2	130 X 52 X 62	CSPC2
4	130 X 87 X 62	CSPC4
6	159 X 122 X 65	CSPC6
8	159 X 160 X 65	CSPC8

MOD6+ ILC

Surface mount IP40 pole covers

- IP40 rating
- RAL 7035 Grey impact resistant base (ABS)
- 4 and 8 poles
- Surface Mount
- No Earth and neutral bars
- Sealing option
- Transparent polycarbonate door



Dimensions mm

POLES	H × W × D mm	CAT. No
4	175 X 90 X 100	ILC4S
8	175 X 170 X 120	ILC8S

Accessories

DESCRIPTION	CAT. No
ILC LEAD SEALING BRACKET	ILCSB

MOD6+ Lightning MD6LL

Surface mount IP40 Loadcentres

2
29

- Standard AS/NZS 61439.3
- IP40 ingress protection rating
- Complete with 1P pin type busbar comb
- Split neutral bars AS/NZS 5112
- Removable earth and neutral bars
- 80A Rated
- 8, 12, 18, 24, 36 Pole
- Transparent or white door
- Base (polycarbonate)
- Door (polycarbonate)



This new MOD6+ loadcentre from NHP offers a robust design with neutral finish to blend into the background for indoor applications. The new sleek design allows plenty of space allowing for lightning quick fit-out.

Surface mount

POLES	EARTH BAR CONFIGURATION	NEUTRAL BAR CONFIGURATION	WHITE DOOR CAT. №	TRANSPARENT DOOR CAT. №
8	8	5, 3	MD6LL08SW	MD6LL08ST
12	12	6, 3, 3	MD6LL12SW	MD6LL12ST
18	18	9, 3, 3, 3	MD6LL18SW	MD6LL18ST
24	24	12, 3, 3, 3, 3	MD6LL24SW	MD6LL24ST
36	36	24, 3, 3, 3, 3	MD6LL36SW	MD6LL36ST

Dimensions mm

POLES	HEIGHT mm	WIDTH mm	DEPTH mm
8	220	220	100
12	220	280	100
18	220	383	100
24	435	320	100
36	435	430	100

This product will be available in early 2026.
Please check nhp.com.au for stock availability.



MOD6+ Lightning MD6LL

Flush Mount IP40 Loadcentres

MOD6+ Enclosures
Loadcentres

- Standard AS/NZS 61439.3
- IP40 ingress protection rating
- Complete with pin type busbar comb
- Split neutral bars AS/NZS 5112
- Removable earth and neutral bars
- 12, 18, 24, 36 way
- 80A Rated
- Flush mount suitable for stud or plaster mounting
- Quick clip out mounts for plaster mount
- Transparent or white door
- Base, Door (polycarbonate)



Flush mount

POLES	EARTH BAR CONFIGURATION	NEUTRAL BAR CONFIGURATION	WHITE DOOR CAT. No	TRANSPARENT DOOR CAT. No
12	12	6, 3, 3	MD6LL12FW	MD6LL12FT
18	18	9, 3, 3, 3	MD6LL18FW	MD6LL18FT
24	24	12, 3, 3, 3, 3	MD6LL24FW	MD6LL24FT
36	36	24, 3, 3, 3, 3	MD6LL36FW	MD6LL36FT

Metal Backing Plate

DESCRIPTION	CAT. No
METAL BACK PLATE SUITS MD6LL12FW	MD6LLFP12
METAL BACK PLATE SUITS MD6LL18FW	MD6LLFP18
METAL BACK PLATE SUITS MD6LL24FW	MD6LLFP24
METAL BACK PLATE SUITS MD6LL36FW	MD6LLFP36

Dimensions mm

POLES	HEIGHT mm	WIDTH mm	DEPTH mm	CUT-OUT HxW WITH 2mm CLEARANCE mm
12	250	320	100	212X282
18	250	430	100	212X392
24	435	320	100	397X282
36	435	430	100	397X392

Min cavity with backplate 73mm



This product will be available in early 2026.
Please check nhp.com.au for stock availability.

NHP Weatherproof NWP

Surface mount IP65 Loadcentres

2
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- AS/NZS 61439.3
- IP65
- 4-36way
- Impact rating IK10
- 63A rated
- Earth and Neutral bars AS/NZS 5112
- Adjustable DIN rail 125 or 150mm centres
- 180° opening transparent door



Versatile range of weatherproof loadcentres with an IP65 rating and is suitable for indoor and outdoor applications. The whole consumer unit (or just the front panel) can be rotated, easily changing the door opening side. In the multi-row versions, the centre distance of the DIN rails can be varied from 150 mm to 125 mm. The frame is extractable for quick and easy bench cabling, and it is possible to anchor the cable ties to special eyeholes on the frame. Resistant to saline environments, chemical industries, sandy/dusty, dust or UV rays in outdoor applications.

Enclosure

POLES	EARTH BAR WAYS	NEUTRAL BAR WAYS	CAT. №
4	—	—	NWP4
8	9	9	NWP8
12	14	14	NWP12
24	24	24	NWP24
36	24	24	NWP36

General Accessories

DESCRIPTION	CAT. №
ENCLOSURE WALL FIXING BRACKETS (QTY. 4) EXTERNAL MOUNTING	NWPWFBRKT
JOINING BUSH 28 mm EACH	NWPJNU
ENCLOSURE LOCKING DEVICE WITH KEY	NWPLD

Dimensions mm

POLES	WIDTH mm	DEPTH mm	HEIGHT mm
4	152	117	202
8	232	155	250
12	320	155	250
24	320	155	435
36	320	155	600

MOD6+ ONE

Distribution Panel Boards

MOD6+ Enclosures Panelboards

- Standard AS/NZS 61439-3
- IP40
- 24-84 ways
- Main switch Concept Isolator 160 A - 250 A
- Main switch MCCB option 63 A - 200 A
- Knockouts for up to 16 modules
- Independent door hinged right-hand side
- Gloss white lift off escutcheon
- Accessory module
- Removable gland plates
- Semi concealed door hinges



Application

The MOD6+ One is an essential range of Panelboards to suit MOD6+ circuit protection. MOD6+ One offers a range of IP40 indoor panelboards for commercial purposes. The MOD6+ panelboard range is an economical option that fits variety of circuit breakers and associated accessory devices.

Width 530mm, depth 153mm including door (20mm) excluding door handle protrusion.

Technical Data

MATERIAL TYPE	1.0 mm STEEL ENCLOSURE 1.0 mm STEEL ESCUTCHEON
FINISH	TEXTURED POLYESTER POWDER COATED
COLOUR	ENCLOSURE-LIGHT GREY (RAL7035) ESCUTCHEON-BRIGHT WHITE GLOSS
PROTECTION DEGREE	IP30 WITHOUT DOOR IP40 WITH DOOR
BUSBAR RATINGS	CURRENT RATING 250A I_{cw} 25kA 0.1S & 10kA 1.0S
NEUTRAL AND EARTH BAR	CURRENT RATING 250A M8 STUD TOP AND BOTTOM SPARE 1x16mm ² & 1x25mm ² TUNNELS QTY 2x25mm ² TUNNELS BALANCE 16mm ² TUNNELS

MOD6+ ONE

Distribution Panel Boards

2
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No Main switch

POLES	HEIGHT mm	MODULES	CAT. №
24	648	3	MD6PO-24-LG
36	864	4	MD6PO-36-LG
48	864	4	MD6PO-48-LG
60	1080	5	MD6PO-60-LG
84	1296	6	MD6PO-84-LG

Concept isolator main switch

POLES	HEIGHT mm	MODULES	160A MAIN SWITCH CAT. №	250A MAIN SWITCH CAT. №
24	648	3	MD6PO-24-M160-LG	MD6PO-24-M250-LG
36	864	4	MD6PO-36-M160-LG	MD6PO-36-M250-LG
48	864	4	MD6PO-48-M160-LG	MD6PO-48-M250-LG
60	1080	5	MD6PO-60-M160-LG	MD6PO-60-M250-LG
84	1296	6	MD6PO-84-M160-LG	MD6PO-84-M250-LG

MCCB main switch

POLES	HEIGHT mm	MODULES	ADJUSTABLE 100-160A CAT. №	ADJUSTABLE 125-200A CAT. №
24	648	3	MD6PO-24-MCCB160-LG	MD6PO-24-MCCB200-LG
36	864	4	MD6PO-36-MCCB160-LG	MD6PO-36-MCCB200-LG
48	864	4	MD6PO-48-MCCB160-LG	MD6PO-48-MCCB200-LG
60	1080	5	MD6PO-60-MCCB160-LG	MD6PO-60-MCCB200-LG
84	1296	6	MD6PO-84-MCCB160-LG	MD6PO-84-MCCB200-LG

Notes

- Width 530mm, depth 153mm including door (20mm) excluding door handle
- Line side is off or bottom of the MCB/RCBO and connects to busbar chassis tee-offs

MOD6+ ONE

Accessory Modules

MOD6+ Enclosures

Panelboards



DIN cut-out Escutcheon

POLES	HEIGHT mm	MODULES	CAT. №
21 (1 X21 WAY CUTOUT)	432	2	MD6POACC-21-LG
42 (2 X21 WAY CUTOUT)	432	2	MD6POACC-42-LG
63 (3 X21 WAY CUTOUT)	648	3	MD6POACC-63-LG

Blank Escutcheon

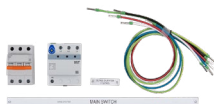
POLES	HEIGHT mm	MODULES	CAT. №
–	432	2	MD6POACC-2ME-LG
–	648	3	MD6POACC-3ME-LG

*Width 530mm, depth 153mm includes door 20mm excluding door handle.

Additional accessories

E/N KITS TO SUIT ACCESSORY MODULES	CAT. №
24WAY 250A EARTH & NEUTRAL KIT SUITS 2M AND 3M ENCLOSURES	MD6POEN24
36WAY 250A EARTH & NEUTRAL KIT SUITS 4-6M ENCLOSURES	MD6POEN36
48WAY 250A EARTH & NEUTRAL KIT SUITS 4-6M ENCLOSURES	MD6POEN48
60WAY 250A EARTH & NEUTRAL KIT SUITS 4-6M ENCLOSURES	MD6POEN60
84WAY 250A EARTH & NEUTRAL KIT SUITS 4-6M ENCLOSURES	MD6POEN84
MAIN SWITCH KITS	CAT. №
ISOLATOR SWITCH KIT 160A 3P	CEL3160MK
ISOLATOR SWITCH KIT 250A 3P	CEL3250MK
MCCB P250F MAIN SWITCH KIT 3P (ADJUSTABLE 40-63A)	CELMCCB363
MCCB A250E MAIN SWITCH KIT 3P (ADJUSTABLE 63-100A)	CELMCCB3100
MCCB A250F MAIN SWITCH KIT 3P (ADJUSTABLE 100-160A)	CELMCCB3160
MCCB A250F MAIN SWITCH KIT 3P (ADJUSTABLE 125-200A)	CELMCCB3200

SURGE KIT



DOOR HANDLE



EXTERNAL LIGHTING KIT



GEAR TRAYS	HEIGHT mm	MODULES	CAT. №
WHITE GEAR TRAY	395	2	MD6POGT-2M
WHITE GEAR TRAY	611	3	MD6POGT-3M
FLUSH MOUNTING KITS	HEIGHT mm	MODULES	CAT. №
FLUSH KIT	648	3	MD6POFK-3M-LG
FLUSH KIT	864	4	MD6POFK-4M-LG
FLUSH KIT	1080	5	MD6POFK-5M-LG
FLUSH KIT	1296	6	MD6POFK-6M-LG
GRAND PLATES		CAT. №	
STEEL GLANDPLATE ASSEMBLY		MD6POAEGMS	
5mm PVC GLANDPLATE ASSEMBLY		MD6POAEGPV	
DOOR HANDLES		CAT. №	
DOOR SWING HANDLE CL001		CELHDSPPSC	
DOOR SWING HANDLE 92268		CELHDSPPS9	
DOOR SWING HANDLE PAD LOCKABLE		CELHDSPPP	
DOOR SWING HANDLE E-KEY "PWD"		CELHDSPPBE	
DOOR SWING HANDLE NON LOCKABLE		CELHDSZNNKIT	
DOOR SWING HANDLE K144		CELHDSPPSK	
DOOR HANDLE CAM ROLLER - SINGLE POINT		CELHCFRP21A35	
GENERAL ACCESSORIES		CAT. №	
EMERGENCY LIGHTING TEST KIT (PUSHBUTTON SWITCH)		CELAELK1W	
EMERGENCY LIGHTING TEST KIT (KEY SWITCH)		CELAELK2W	
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 1 CHANNEL SLIM 2N/O 25A		CELEXTLKC	
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 1 CHANNEL 2N/O 25A		CELEXTLK1	
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 2 CHANNEL 4N/O 25A		CELEXTLK2	
SURGE KIT 40ka MCB + SURGE DIVERTER TYPE 2 + WIRING LOOM		MD6ASURGEK1	
TOUCH UP PAINT LIGHT GREY		BFT7035	

MOD6+ Prime

Distribution Panel Boards

MOD6+ Enclosures Panelboards

- Standard AS/NZS 61439-3
- IP56
- 24-84 ways
- Main switch Concept Isolator 250 A
- Main switch MCCB option 63 A - 200 A
- Knockouts for up to 18 modules
- Independent door hinged right-hand side
- Gloss white hinged escutcheon
- Accessory module
- Removable gland plates
- Semi concealed door hinges



Application

The MOD6+ Prime is a performance range of Panelboards at an economical price to suit MOD6+ circuit protection. MOD6+ Prime offers a range of IP56 solutions for outdoor or washdown areas for commercial purposes. The MOD6+ panelboard range is an economical option that fits a variety of circuit breakers and associated accessory devices. Width 600mm, depth 200mm including door 20mm excluding door handle.

Technical Data

MATERIAL TYPE	1.6 mm STEEL ENCLOSURE 1.0 mm STEEL ESCUTCHEON 1.6 mm STEEL DOOR
FINISH	TEXTURED POLYESTER POWDER COATED
COLOUR	ENCLOSURE-LIGHT GREY (RAL7035) ESCUTCHEON-BRIGHT WHITE GLOSS
PROTECTION DEGREE	IP30 WITHOUT DOOR IP56 WITH DOOR
BUSBAR RATINGS	CURRENT RATING 250A I_{cw} 25kA 0.1S & 10kA 1.0S
NEUTRAL AND EARTH BAR	CURRENT RATING 250A M8 STUD TOP AND BOTTOM SPARE 1x16mm ² & 1x25mm ² TUNNELS QTY 2x25mm ² TUNNELS BALANCE 16mm ² TUNNELS



No Main switch

POLES	HEIGHT mm	MODULES	CAT. №
24	648	3	MD6PP-24-LG
36	864	4	MD6PP-36-LG
48	864	4	MD6PP-48-LG
60	1080	5	MD6PP-60-LG
84	1296	6	MD6PP-84-LG

Concept isolator main switch

POLES	HEIGHT mm	MODULES	250A MAIN SWITCH CAT. №
24	648	3	MD6PP-24-M250-LG
36	864	4	MD6PP-36-M250-LG
48	864	4	MD6PP-48-M250-LG
60	1080	5	MD6PP-60-M250-LG
84	1296	6	MD6PP-84-M250-LG

MCCB main switch

POLES	HEIGHT mm	MODULES	160A (ADJUSTABLE 100-160A) CAT. №	200A (ADJUSTABLE 125-200A) CAT. №
24	648	3	MD6PP-24-MCCB160-LG	MD6PP-24-MCCB200-LG
36	864	4	MD6PP-36-MCCB160-LG	MD6PP-36-MCCB200-LG
48	864	4	MD6PP-48-MCCB160-LG	MD6PP-48-MCCB200-LG
60	1080	5	MD6PP-60-MCCB160-LG	MD6PP-60-MCCB200-LG
84	1296	6	MD6PP-84-MCCB160-LG	MD6PP-84-MCCB200-LG

Notes

- Width 600mm, depth 200mm including door (20mm) excluding door handle
- Line side is off or bottom of the MCB/RCBO and connects to busbar chassis tee-offs

MOD6+ Prime

Accessory Modules

MOD6+ Enclosures

Panelboards



Accessory Modules

POLES	HEIGHT mm	MODULES	CAT. No
2 X 24 WAY HORIZONTAL CUTOUT	432	2	MD6PPACC-48-LG
BLANK ESCUTCHEON	432	2	MD6PPACC-2ME-LG

*Width 600mm, depth 200mm includes door 20mm excluding door handle.

E/N KITS to suit Accessory Modules

ITEM DESCRIPTION	CAT. No
24WAY 250A EARTH & NEUTRAL KIT SUITS 2M AND 3M ENCLOSURES	MD6PPEN24
36WAY 250A EARTH & NEUTRAL KIT SUITS 4-6M ENCLOSURES	MD6PPEN36
48WAY 250A EARTH & NEUTRAL KIT SUITS 4-6M ENCLOSURES	MD6PPEN48
60WAY 250A EARTH & NEUTRAL KIT SUITS 4-6M ENCLOSURES	MD6PPEN60
84WAY 250A EARTH & NEUTRAL KIT SUITS 4-6M ENCLOSURES	MD6PPEN84

Main Switch Kits

DESCRIPTION	CAT. No
ISOLATOR SWITCH KIT 250A 3P	CEL 3250MK
MCCB P250F MAIN SWITCH KIT 3P (ADJUSTABLE 40-63A)	CELMCCB363
MCCB A250E MAIN SWITCH KIT 3P (ADJUSTABLE 63-100A)	CELMCCB3100
MCCB A250F MAIN SWITCH KIT 3P (ADJUSTABLE 100-160A)	CELMCCB3160
MCCB A250F MAIN SWITCH KIT 3P (ADJUSTABLE 125-200A)	CELMCCB3200

EXTERNAL LIGHTING KIT



DOOR HANDLE



EMERGENCY LIGHT TESTING KIT



Door Handles

DESCRIPTION	CAT. No
DOOR SWING HANDLE IP66 CL001	CELHDSZSC
DOOR SWING HANDLE IP66 92268	CELHDSZS9
DOOR SWING HANDLE IP66 PAD LOCKABLE	CELHDSZPP
DOOR SWING HANDLE IP66 E-KEY "PWD"	CELHDSZBE
DOOR SWING HANDLE IP66 NON LOCKABLE	CELHDSZNKIT
DOOR SWING HANDLE IP66 K144	CELHDSZSK
DOOR HANDLE CAM ROLLER - THREE POINT	CELHCRP21C60
LOCK BARREL 42886 SUIT NON LOCKABLE HANDLE	CELD5NB4

General Accessories

DESCRIPTION	CAT. No
EMERGENCY LIGHTING TEST KIT PUSHBUTTON	CELAELK1W
EMERGENCY LIGHTING TEST KIT KEY SWITCH	CELAELK2W
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO1CH SLIM 2N/O 25A	CELEXTLKC
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO1CH 2N/O 25A	CELEXTLK1
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO 2CH 4N/O 25A	CELEXTLK2
SURGE KIT 40kA MCB + SURGE TYPE 2 + LOOM	MD6ASURGEK1
TOUCH UP PAINT LIGHT GREY	BFT7035
WHITE GEAR TRAY SUIT 2 MODULE ENCLOSURE	CELAGMS2
GLAND PLATE ALUMINUM 3mm	CPLEGPAL3
GLAND PLATE STEEL LIGHT GREY	CPLEGPMS1LG
GLAND PLATE GASKET	CPLEGGF
RAINHOOD (RECOMMENDED FOR OUTDOOR USE)	MD6PPARSLG
PLINTH (75mm)	CPLAPSGAL
WALL MOUNTING BRACKET KIT BLACK	CELABGBBK

Powermax Chassis

M6NC–MOD6+ Panelboard Busbar Chassis

MOD6+ Enclosures
Panelboards

- Encapsulated busbar (no insulating coatings)
- Main bar current rating 250A
- 3 pole
- 12 to 108 way
- 50% tee-off capped
- Direct connect to 160A or 250A main switch
- Withstand ratings:
25 kA for 0.1 s, 20 kA for 0.3 s, 10 kA for 1.0 s
- Suits MOD6 and MOD6+ MCBs and RCBOs
- Not suitable for MOD6+ MD6MH MCBs

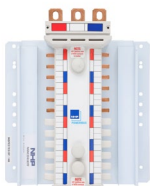
Application

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 design verified and are mounted on a sturdy box section steel pan powder coated white.

M6NC Chassis feed–250 A 3P 18 mm pole pitch

POLES	CUT-OUT LENGTH mm	PAN HEIGHT mm	UNIVERSAL FEED CAT. №	TOP FEED CAT. №
12	110	134	M6NC2-12-183U	M6NC2-12-183TF
18	164	188	M6NC2-18-183U	M6NC2-18-183TF
24	218	242	M6NC2-24-183U	M6NC2-24-183TF
36	326	350	M6NC2-36-183U	M6NC2-36-183TF
48	434	458	M6NC2-48-183U	M6NC2-48-183TF
60	542	566	M6NC2-60-183U	M6NC2-60-183TF
72	650	674	M6NC2-72-183U	M6NC2-72-183TF
84	758	782	M6NC2-84-183U	M6NC2-84-183TF
96	866	890	M6NC2-96-183U	M6NC2-96-183TF
108	974	998	–	M6NC2-108183TF

For a bottom feed chassis replace “TF” with “BF” in the cat number.



Accessories for NC chassis –General Accessories

DESCRIPTION	CAT. №
TEE-OFF CAP (18mm TEE-OFF)	M6250TOPC
BUSBAR CAP (EACH)	NCBBC

Notes

The line side is off or bottom of the MCB/RCBO and connects to busbar chassis tee-offs

DIN-T Circuit Protection

3

Selection Guide	Miniature Circuit Breakers	44
	Residual Current Devices	46
	Substitution Reference	78
Miniature Circuit Breakers	DIN-T DTM6	48
	DIN-T DTM10	50
	DIN-T DTMD6	52
	DIN-T DTMH	53
	DIN-T DTMDC	54
	DIN-T DTMSW	55
Residual Current Devices	DIN-T DTRCD	56
	DIN-T DTR6S	58
	DIN-T DTRS	59
	DIN-T DTRD	60
	DIN-T DTR6L	61
	DIN-T DTRL	62
	DIN-T DTRT	64
	DIN-T DTRTN	66
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Accessories	DIN-T and General Accessories	70
	Busbar Combs and LockDin™ Captive Locking	74
	Din Contactors	76

Miniature Circuit Breakers

DIN-T
Selection Guide

SELECTION GUIDE	DTMSW	DTM6
		
STANDARD (AS/NZS)	60947-3	60898 & 60947-2
WIDTH	1P 17.5 mm 2P 35 mm 3P 52.5 mm 4P 70 mm	1P 17.5 mm 2P 35 mm 3P 52.5 mm
MOUNTING (* SUITABLE CHASSIS REQUIRED)	DIN RAIL & CHASSIS	DIN RAIL & CHASSIS
SHORT CIRCUIT RATING (kA)	10 kA	6 kA
NUMBER POLES	1P, 2P, 3P & 4P	1P, 2P & 3P
CURVE TYPES	–	C & D
CURRENT RATING	63-100 A	2-63 A
RATED AC VOLTAGE	1P 230/240 V 2P-4P 400/415 V	1P 230/240 (240/415 V) 2P-3P 400/415 V
RATED DC VOLTAGE	1P 60 V 2P 125 V	1P 60 V 2P 125 V
SEALABLE IN ON-OFF POSITION	YES	YES
TRIP-FREE MECH	–	YES
PAD LOCKING FACILITY	ACCESSORY	ACCESSORY
LOCKDIN	NO	YES
ACCESSORIES	AUX	SHUNT, UVT, AUX/AL
SUPPLY	TOP OR BOTTOM	TOP OR BOTTOM
BUSBAR COMB TOP TERM	PIN	FORK/PIN
BUSBAR COMB BOTTOM TERM	PIN	FORK/PIN
TERMINAL TOP (MAX)	50 mm ²	35 mm ²
TERMINAL BOTTOM (MAX)	50 mm ²	35 mm ²

DTM10	DTMDC	DTMH	DTMD
			
60898 & 60947-2	60898-2 & 60947-2	60947-2	60898
1P 17.5 mm 2P 35 mm 3P 52.5 mm 4P 70 mm	1P 17.5 mm 2P 35 mm	1P 27 mm 2P 54 mm 3P 81 mm 4P 108 mm	18 mm
DIN RAIL & CHASSIS	DIN RAIL & CHASSIS*	DIN RAIL & CHASSIS*	DIN RAIL
10 kA	10 kA	50 kA	6 kA
1P, 2P, 3P & 4P	1P, 2P	1P, 2P, 3P & 4P	2P
B, C & D	C	B, C & D	C
0.5-63 A	0.5-63 A	80-125 A	2-40 A
1P 230/240 (240/415 V) 2P-4P 400/415 V	1P 230/240 V 2P 400/415 V	1P 230/240 V 2P-4P 400/415 V	230/240 V
1P 60 V 2P 125 V	1P 220 V 2P 440 V	1P 125 V 2P 250 V 3P 375 V 4P 500 V	—
YES	YES	YES	YES
YES	YES	YES	YES
ACCESSORY	ACCESSORY	ACCESSORY	ACCESSORY
YES	YES	YES	NO
SHUNT, UVT, AUX/AL	SHUNT, UVT, AUX/AL	SHUNT, AUX/AL	—
TOP OR BOTTOM	TOP OR BOTTOM	TOP OR BOTTOM	TOP OR BOTTOM
FORK/PIN	DUAL TERMINAL PIN/PIN	PIN	PIN (9mm)
FORK/PIN	DUAL TERMINAL PIN/PIN	PIN	PIN (9mm)
35 mm ²	10/35 mm ²	70 mm ²	16 mm ²
35 mm ²	10/35 mm ²	70 mm ²	16 mm ²

Residual Current Devices

DIN-T
Selection Guide

	DTRCD	DTR6S	DTRS	DTRD
				
STANDARD (AS/NZS)	61008 TYPE A, AI, F IEC62423 TYPE B	61009	61009	61009
WIDTH	2P 35 mm 4P 70 mm	18 mm	18 mm	35 mm
SWITCHED NEUTRAL	YES	YES	YES	YES
NEUTRAL CONNECTION	TERMINAL	PIGTAIL	PIGTAIL	TERMINAL
EARTH REFERENCE WIRE	NO	NO	NO	NO
EARTH LEAKAGE TRIP FLAG ETI	–	NO	NO	YES
MOUNTING	DIN RAIL	DIN RAIL & CHASSIS	DIN RAIL & CHASSIS	DIN RAIL & CHASSIS*
10mA TYPE A, CURRENT RATINGS	–	6-32 A	6-20 A	6-16 A
30mA TYPE A, CURRENT RATINGS	40-100 A	6-32 A	6-20 A	6-40 A
100mA TYPE A, CURRENT RATINGS	40-100 A	–	–	10-20 A
300mA TYPE A, CURRENT RATINGS	63-100 A	–	–	–
30mA TYPE X, CURRENT RATINGS	40-63 A TYPE AI 40 A TYPE F 63 A TYPE B	–	–	6-40A TYPE F
SHORT CIRCUIT RATING (kA)	10 kA COND	6 kA	10 kA	10 kA
CURVE TYPES	–	C & B	C & B	C
RATED AC VOLTAGE	2P 230/240 V 4P 400/415 V	230/240 V	230/240 V	230/240 V (110V)
SEALABLE IN ON-OFF POSITION	YES	YES	YES	YES
TRIP-FREE MECH	YES	YES	YES	YES
PADLOCK FACILITY	ACCESSORY	ACCESSORY	ACCESSORY	ACCESSORY
LOCKDIN	NO	YES	YES	YES
ACCESSORIES	SHUNT, UVT, AUX/AL	SHUNT, UVT, AUX/AL	SHUNT, UVT, AUX/AL	SHUNT, UVT, AUX/AL
SUPPLY	TOP OR BOTTOM	BOTTOM	BOTTOM	TOP OR BOTTOM
BUSBAR COMB TOP TERMINAL	PIN	–	–	PIN
BUSBAR COMB BOTTOM TERMINAL	PIN	PIN /FORK	PIN/FORK	PIN/FORK
TERMINAL TOP (MAX)	40-63A 25 mm ² 80-100A 35 mm ²	25 mm ²	25 mm ²	35 mm ²
TERMINAL BOTTOM (MAX)	40-63A 25 mm ² 80-100A 35 mm ²	35 mm ²	35 mm ²	35 mm ²

*Special chassis required for DTRD 2P RCBOs

DTR6L	DTRL	DTRT	DTRTN	DTRTNN
				
61009	61009	61009	61009	61009
17.5 mm	17.5 mm	54 mm	72 mm	54 mm
NO	NO	NO	YES	—
PIGTAIL	PIGTAIL	PIGTAIL	PIGTAIL	—
YES	YES	NO	NO	NO
COMING SOON	COMING SOON	NO	NO	NO
DIN RAIL & CHASSIS	DIN RAIL & CHASSIS	DIN RAIL & CHASSIS	DIN RAIL & CHASSIS	DIN RAIL & CHASSIS
—	6-50 A	—	—	—
6-50 A	6-50 A	6-63 A	6-63 A	6-63 A
—	6-50 A	6-63 A	6-63 A	6-63 A
—	—	6-63 A	6-63 A	6-63 A
—	6-50A TYPE F	—	—	—
6 kA	10 kA	10 kA	10 kA	10 kA
C	C & D	C & D	C & D	C & D
230/240 V	230/240 V	400/415 V	400/415 V	400/415 V
YES	YES	YES	YES	YES
YES	YES	YES	YES	YES
ACCESSORY	ACCESSORY	ACCESSORY	ACCESSORY	ACCESSORY
YES	YES	YES	YES	YES
SHUNT, UVT, AUX/AL	SHUNT, UVT, AUX/AL	NO	BUILT IN AUX	NO
BOTTOM	BOTTOM	BOTTOM	BOTTOM	BOTTOM
—	—	—	—	—
DUAL PIN	DUAL PIN	PIN/FORK	PIN/FORK	PIN/FORK
16 mm ²	16 mm ²	16 mm ²	16 mm ²	16 mm ²
10/35 mm ²	10/35 mm ²	25 mm ²	25 mm ²	25 mm ²

DIN-T DTM6

MCB 6kA (2-63 A) C Curve

DIN-T

Miniature Circuit Breakers

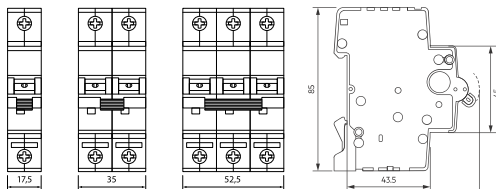
- Standard AS/NZS 60898, AS/NZS 60947-2
- Approval No NSW29277 & RCM
- Current ratings 2- 63 A
- 1, 2 and 3 pole configurations
- Available in C and D curves
- Handle sealable in ON and OFF position
- Shunt, UVT and Auxiliary compatible
- Contact position indicator green/red flag (CPI)
- Pad lockable handle & LOCKDIN compatible
- Suits pole covers, Loadcentres and Concept Panelboards
- Suits POWERMAX NC & GB busbar chassis
- **General light, power and motor starting applications**



C Curve

AMP. RATING I_n (A)	1 POLE CAT. №	2 POLE CAT. №	3 POLE CAT. №
2	DTM6102C	DTM6202C	DTM6302C
4	DTM6104C	DTM6204C	DTM6304C
6	DTM6106C	DTM6206C	DTM6306C
10	DTM6110C	DTM6210C	DTM6310C
13	DTM6113C	DTM6213C	DTM6313C
16	DTM6116C	DTM6216C	DTM6316C
20	DTM6120C	DTM6220C	DTM6320C
25	DTM6125C	DTM6225C	DTM6325C
32	DTM6132C	DTM6232C	DTM6332C
40	DTM6140C	DTM6240C	DTM6340C
50	DTM6150C	DTM6250C	DTM6350C
63	DTM6163C	DTM6263C	DTM6363C

Dimensions mm



Notes

- Compatible with pin or fork type busbar on bottom terminals
- The line side is off or bottom of the MCB and connects to busbar chassis tee-offs

DIN-T DTM6

MCB 6kA (2-63 A) D Curve

3
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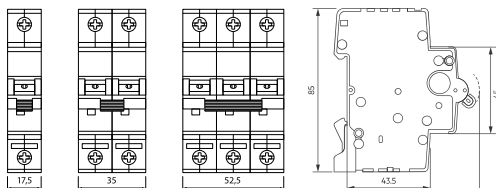
- Standard AS/NZS 60898, AS/NZS 60947-2
- Approval No NSW29277 & RCM
- Current ratings 2- 63 A
- 1, 2 and 3 pole configurations
- Available in C and D curves
- Handle sealable in ON and OFF position
- Shunt, UVT and Auxiliary compatible
- Contact position indicator green/red flag (CPI)
- Pad lockable handle & LOCKDIN compatible
- Suits pole covers, Loadcentres and Concept Panelboards
- Suits POWERMAX NC and GB busbar chassis
- **Motor starting and transformer applications**



D Curve

AMP. RATING I_n (A)	1 POLE CAT. №	2 POLE CAT. №	3 POLE CAT. №
2	DTM6102D	DTM6202D	DTM6302D
4	DTM6104D	DTM6204D	DTM6304D
6	DTM6106D	DTM6206D	DTM6306D
10	DTM6110D	DTM6210D	DTM6310D
13	DTM6113D	DTM6213D	DTM6313D
16	DTM6116D	DTM6216D	DTM6316D
20	DTM6120D	DTM6220D	DTM6320D
25	DTM6125D	DTM6225D	DTM6325D
32	DTM6132D	DTM6232D	DTM6332D
40	DTM6140D	DTM6240D	DTM6340D
50	DTM6150D	DTM6250D	DTM6350D
63	DTM6163D	DTM6263D	DTM6363D

Dimensions mm



Notes

- Compatible with pin or fork type busbar on bottom terminals
- The line side is off or bottom of the MCB and connects to busbar chassis tee-offs

DIN-T DTM10

MCB 10kA (0.5-63 A) C Curve

DIN-T

Miniature Circuit Breakers

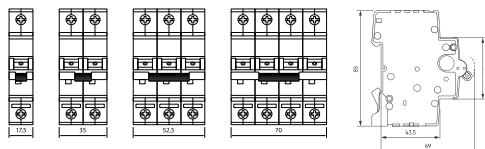
- Standard AS/NZS 60898, AS/NZS 60947-2
- Approval No NSW29277 & RCM
- Current ratings 0.5- 63 A
- 1, 2, 3 and 4 pole configurations
- Available in B, C and D curves
- Handle sealable in ON and OFF position
- Shunt, UVT and Auxiliary compatible
- Contact position indicator green/red flag (CPI)
- Pad lockable handle & LOCKDIN compatible
- Suits pole covers, Loadcentres and Concept Panelboards
- Suits POWERMAX NC & GB busbar chassis
- General light, power and motor starting applications**



C Curve

AMP. RATING I_n (A)	1 POLE CAT. №	2 POLE CAT. №	3 POLE CAT. №	4 POLE CAT. №
0.5	DTM10105C	DTM10205C	DTM10305C	—
1	DTM10101C	DTM10201C	DTM10301C	DTM10401C
2	DTM10102C	DTM10202C	DTM10302C	DTM10402C
3	DTM10103C	—	—	—
4	DTM10104C	DTM10204C	DTM10304C	—
6	DTM10106C	DTM10206C	DTM10306C	DTM10406C
10	DTM10110C	DTM10210C	DTM10310C	DTM10410C
13	DTM10113C	DTM10213C	DTM10313C	DTM10413C
16	DTM10116C	DTM10216C	DTM10316C	DTM10416C
20	DTM10120C	DTM10220C	DTM10320C	DTM10420C
25	DTM10125C	DTM10225C	DTM10325C	DTM10425C
32	DTM10132C	DTM10232C	DTM10332C	DTM10432C
40	DTM10140C	DTM10240C	DTM10340C	DTM10440C
50	DTM10150C	DTM10250C	DTM10350C	DTM10450C
63	DTM10163C	DTM10263C	DTM10363C	DTM10463C

Dimensions mm



Notes

- B Curve also available 2-63A 1P, 2P & 3P
- Compatible with pin or fork type busbar on bottom terminals
- The line side is off or bottom of the MCB and connects to busbar chassis tee-offs

DIN-T DTM10

MCB 10kA (0.5-63 A) D Curve

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51

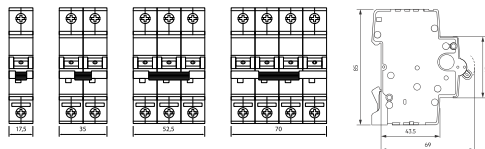
- Standard AS/NZS 60898, AS/NZS 60947-2
- Approval No NSW29277 & RCM
- Current ratings 0.5- 63 A
- 1, 2, 3 and 4 pole configurations
- Available in B, C and D curves
- Handle sealable in ON and OFF position
- Shunt, UVT and Auxiliary compatible
- Contact position indicator green/red flag (CPI)
- Pad lockable handle & LOCKDIN compatible
- Suits pole covers, Loadcentres and Concept Panelboards
- Suits POWERMAX NC & GB busbar chassis
- **Motor starting and transformer applications**



D Curve

AMP. RATING I_n (A)	1 POLE CAT. No	2 POLE CAT. No	3 POLE CAT. No	4 POLE CAT. No
0.5	DTM10105D	DTM10205D	DTM10305D	—
1	DTM10101D	DTM10201D	DTM10301D	—
2	DTM10102D	DTM10202D	DTM10302D	—
4	DTM10104D	DTM10204D	DTM10304D	—
6	DTM10106D	DTM10206D	DTM10306D	DTM10406D
10	DTM10110D	DTM10210D	DTM10310D	DTM10410D
13	DTM10113D	DTM10213D	DTM10313D	DTM10413D
16	DTM10116D	DTM10216D	DTM10316D	DTM10416D
20	DTM10120D	DTM10220D	DTM10320D	DTM10420D
25	DTM10125D	DTM10225D	DTM10325D	DTM10425D
32	DTM10132D	DTM10232D	DTM10332D	DTM10432D
40	DTM10140D	DTM10240D	DTM10340D	DTM10440D
50	DTM10150D	DTM10250D	DTM10350D	DTM10450D
63	DTM10163D	DTM10263D	DTM10363D	DTM10463D

Dimensions mm



Notes

- B Curve also available 2-63A 1P, 2P & 3P
- Compatible with pin or fork type busbar on bottom terminals
- The line side is off or bottom of the MCB and connects to busbar chassis tee-offs

DIN-T DTMD6

MCB 6kA (2-40A)

DIN-T

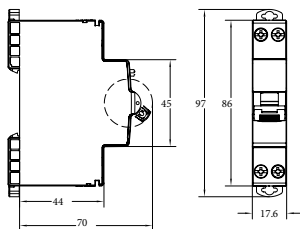
Miniature Circuit Breakers

- Standard AS/NZS 60898-1
- Approval RCM
- Current ratings 2 - 40 A
- Compact design only 9mm per pole
- 2 pole configuration
- C curve
- Suits pole covers, Loadcentres
- **General light and power applications**



AMP. RATING I_n (A)	2 POLE CAT. No
2	DTMD6202C
4	DTMD6204C
6	DTMD6206C
10	DTMD6210C
16	DTMD6216C
20	DTMD6220C
25	DTMD6225C
32	DTMD6232C
40	DTMD6240C

Dimensions mm



Notes

- 9mm pin type busbar on the top or bottom can be used, must be type IBD.
- Not compatible with Shunt, UVT or Auxiliary

DIN-T DTMH

MCB 50kA (80-125A)

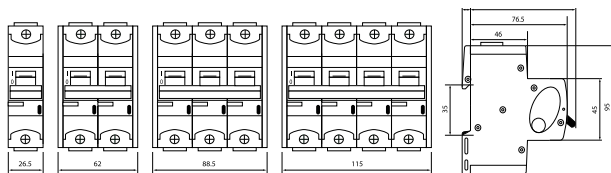
3
53

- Standard AS/NZS 60947-2
- Approval NSW29002
- Current ratings 80-125 A
- 1, 2, 3, and 4 pole configurations
- Available in B, C and D curves
- AC voltages 240/415V
- DC voltages 1P-125V, 2P-250V, 3P-375V, 4P-500V
- Handle sealable in ON and OFF position
- Shunt and Auxiliary compatible
- Contact position indicator green/red flag (CPI)
- Pad lockable handle & LOCKDIN compatible
- Test trip button with centre trip position
- Suits Concept Panelboards with 27mm pitch NC busbar chassis
- General light, power and motor starting applications**



TYPE	AMP. RATING I_n (A)	1 POLE CAT. №	2 POLE CAT. №	3 POLE CAT. №	4 POLE CAT. №
B CURVE	80	DTMH180B	DTMH280B	DTMH380B	DTMH480B
	100	DTMH1100B	DTMH2100B	DTMH3100B	DTMH4100B
	125	DTMH1125B	DTMH2125B	DTMH3125B	DTMH4125B
C CURVE	80	DTMH180C	DTMH280C	DTMH380C	DTMH480C
	100	DTMH1100C	DTMH2100C	DTMH3100C	DTMH4100C
	125	DTMH1125C	DTMH2125C	DTMH3125C	DTMH4125C
D CURVE	80	DTMH180D	DTMH280D	DTMH380D	DTMH480D
	100	DTMH1100D	DTMH2100D	DTMH3100D	DTMH4100D
	125	DTMH1125D	DTMH2125D	DTMH3125D	DTMH4125D

Dimensions mm



Notes

- For operation by instructed or skilled persons only
- The line side is off or bottom of the MCB and connects to busbar chassis tee-offs

DIN-T DTMDC

DC MCB 10kA (0.5–63 A)

DIN-T

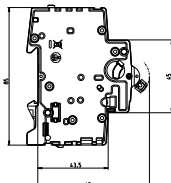
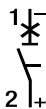
Miniature Circuit Breakers

- Standard AS/NZS 60898-2 & 60947-2
- Approval No NSW29280 & RCM
- Current ratings 0.5 – 63 A
- 1 and 2 pole configurations
- AC voltages 240/415V
- DC voltages 1P-220V, 2P-440V
- C curve
- Shunt, UVT and Auxiliary compatible
- Contact position indicator green/red flag (CPI)
- Handle sealable in ON and OFF position
- Dual terminals line and load
- Pad lockable handle & LOCKDIN compatible
- POWERMAX NC & GB busbar chassis (2P models)
- Industrial applications**



AMP. RATING I_n (A)	1 POLE CAT. №	2 POLE CAT. №
0.5	DTMDC105C	DTMDC205C
1	DTMDC101C	DTMDC201C
2	DTMDC102C	DTMDC202C
4	DTMDC104C	DTMDC204C
6	DTMDC106C	DTMDC206C
10	DTMDC110C	DTMDC210C
16	DTMDC116C	DTMDC216C
20	DTMDC120C	DTMDC220C
25	DTMDC125C	DTMDC225C
32	DTMDC132C	DTMDC232C
40	DTMDC140C	DTMDC240C
50	DTMDC150C	DTMDC250C
63	DTMDC163C	DTMDC263C

Circuit Diagram and Dimensions mm



Notes

- Compatible with pin type busbar on the bottom terminals
- MCB polarity must be respected

DIN-T DTMSW

Main Switch (63–100 A)

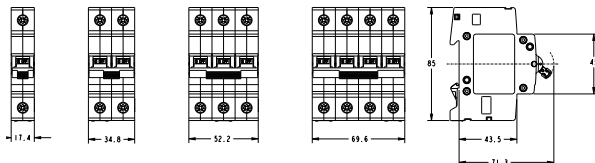
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55

- Standard AS/NZS 60947-3
- Current ratings 63A, 80A and 100 A
- 1, 2, 3 and 4 pole
- 10kA short circuit rating^{1 2}
- Pad lockable handle
- Red Handle sealable in ON and OFF position
- DIN rail mounting
- Large 50mm² terminals
- Auxiliary compatible
- Suits pole covers, loadcentres & POWERMAX NC busbar chassis
- Main switch (switch disconnecter-isolator) applications**



AMP. RATING I_n (A)	1 POLE CAT. №	2 POLE CAT. №	3 POLE CAT. №	4 POLE CAT. №
63	DTMSW163	DTMSW263	DTMSW363	—
80	DTMSW180	DTMSW280	DTMSW380	—
100	DTMSW1100	DTMSW2100	DTMSW3100	DTMSW4100

Dimensions mm



Notes

- DIN-T main switches have the same profile as DIN-T MCBs and are suitable as a main switch (isolator) in loadcentres and distribution boards.
 - Not suitable for shunt trip or UVT
- 10kA when backed up with I_n rated NH00 gG fuse
 - 10kA when backed with DIN-T MCB

DIN-T DTRCD

RCCB Safety Switches (40–100 A)

DIN-T

Residual Current Devices

- Standard AS/NZS 61008
- Approval No NSW20674 & RCM (Type A, AI, F & S)
- Approval No NSW29450 & RCM (Type B)
- Current ratings 40, 63, 80, and 100 A
- Switched neutral
- Shunt, UVT and Aux compatible
- Contact position indicator green/red flag (CPI)
- **Type A general light and power**
- **Type AI high immunity**
- **Type F frequency-controlled appliances and equipment**
- **Type B suits inverters & variable speed drives**
- **Type S selective type for upstream protection**



2 Pole

TRIP SENS. (mA)	AMP. RATING	TYPE A CAT. №	TYPE AI CAT. №	TYPE F CAT. №	TYPE B CAT. №
30	40 A	DTRCD24030A	DTRCD24030AI	DTRCD24030F	—
	63 A	DTRCD26330A	DTRCD26330AI	—	DTRCD26330B
	80 A	DTRCD28030A	—	—	—
100	40 A	DTRCD240100A	—	—	—
	80 A	DTRCD280100A	—	—	—

4 Pole

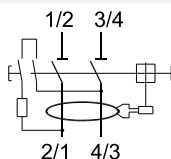
TRIP SENS. (mA)	AMP. RATING	TYPE A CAT. №	TYPE AI CAT. №	TYPE F CAT. №	TYPE B CAT. №
30	40 A	DTRCD44030A	DTRCD44030AI	DTRCD44030F	—
	63 A	DTRCD46330A	DTRCD46330AI	—	DTRCD46330B
	100 A	DTRCD410030A	—	—	—
100	63 A	DTRCD463100A	—	—	—
	80 A	DTRCD480100A	—	—	—
	100 A	DTRCD4100100A	—	—	—
300	63 A	—	—	—	DTRCD463300B
	100 A	DTRCD4100300A	—	—	—
500	100 A	DTRCD4100500A	—	—	—

Type S Selective Type 40mS delayed

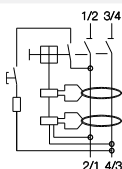
No POLES	AMP. RATING	100mA CAT. №	300mA CAT. №
2P (1P+N)	63 A	DTRCD263100S	DTRCD263300S
4P (3P + N)	63 A	DTRCD463100S	DTRCD463300S

Circuit Diagrams

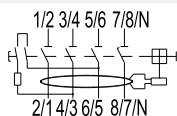
2P TYPE A, AI, F & S



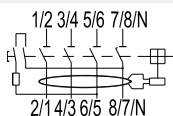
2P TYPE B



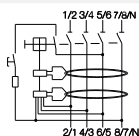
4P TYPE A, AI, F & S



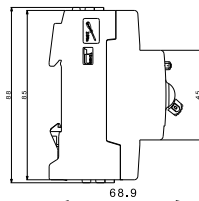
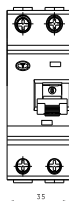
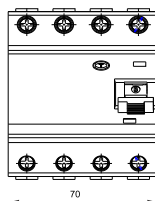
4P TYPE A 80-100A



4P TYPE B



Dimensions mm



Notes

- Compatible with pin type busbar on the bottom terminals

DIN-T DTR6S
RCBO 1P 6kA (6–32 A)

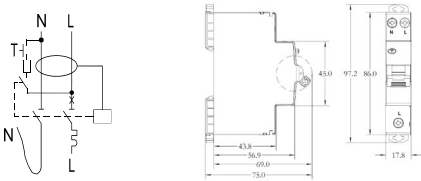
DIN-T
Residual Current Devices

- Standard AS/NZS 61009
- Approval No NSW24576 & RCM
- Current ratings 6A - 32 A
- B or C Curve
- Earth leakage protection Type A
- 10mA and 30mA trip sensitivity
- Shunt, UVT and Aux compatible*
- Pad lockable handle & LOCKDIN compatible
- Switched neutral
- Suits loadcentres, Concept Panelboards
- Suits POWERMAX NC & GB busbar chassis
- **General light and power applications**



TRIP SENSITIVITY (mA)	AMP. RATING I _n (A)	C CURVE CAT. NO	B CURVE CAT. No
10	6	DTR6S0610A	—
	10	DTR6S1010A	—
	16	DTR6S1610A	—
	20	DTR6S2010A	—
	25	DTR6S2510A	—
	32	DTR6S3210A	—
30	6	DTR6S0630A	DTR6S0630AB
	10	DTR6S1030A	DTR6S1030AB
	13	DTR6S1330A	DTR6S1330AB
	16	DTR6S1630A	DTR6S1630AB
	20	DTR6S2030A	DTR6S2030AB
	25	DTR6S2530A	DTR6S2530AB
	32	DTR6S3230A	DTR6S3230AB

Circuit Diagram and Dimensions mm



Notes

- 10mA Type 1 RCD
- Neutral pigtail lead
- Compatible with pin or fork type busbar on the bottom terminals.
- * Must use auxiliary interface "DTASAUX" to be compatible with Shunt, UVT and Auxiliary.

DIN-T DTRS

RCBO 1P 10kA (6-20 A)

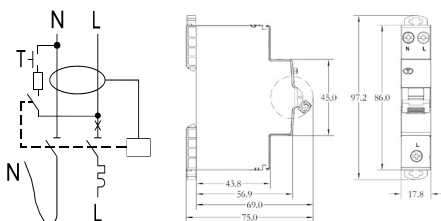
3
59

- Standard AS/NZS 61009
- Approval No NSW24576 & RCM
- Current ratings 6A - 20 A
- B or C Curve
- Earth leakage protection Type A
- 10mA and 30mA trip sensitivity
- Shunt, UVT and Aux compatible*
- Pad lockable handle & LOCKDIN compatible
- Switched neutral
- Suits loadcentres, Concept Panelboards
- Suits POWERMAX NC & GB busbar chassis
- General light and power applications**



TRIP SENSITIVITY (mA)	AMP. RATING I_n (A)	C CURVE CAT. NO	B CURVE CAT. No
10	6	DTRS0610A	—
	10	DTRS1010A	—
	16	DTRS1610A	—
	20	DTRS2010A	—
30	6	DTRS0630A	DTRS0630AB
	10	DTRS1030A	DTRS1030AB
	16	DTRS1630A	DTRS1630AB
	20	DTRS2030A	DTRS2030AB

Circuit Diagram and Dimensions mm



Notes

- 10mA Type 1 RCD
- Neutral pigtail lead
- Compatible with pin or fork type busbar on the bottom terminals.
- * Must use auxiliary interface "DTASAUX" to be compatible with Shunt, UVT and Auxiliary.

DIN-T DTRD

RCBO 2P 10kA (6-40 A)

DIN-T

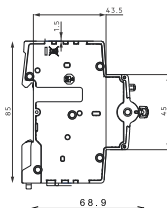
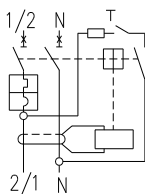
Residual Current Devices

- Standard AS/NZS 61009
- Approval No NSW29318 & RCM
- Current ratings 6-40A
- Earth leakage protection Type A, AI or Type F
- 10mA, 30mA & 100mA trip sensitivity in C curve
- Contact position indicator green/red flag (CPI)
- Shunt, UVT and Aux compatible
- Switched neutral (RH Pole)
- Pad lockable handle & LOCKDIN compatible
- Handle sealable in ON and OFF position
- Earth leakage trip blue indicator flag (ETI)
- Suits POWERMAX NC & GB busbar chassis (4P models)
- General light and power applications**



TRIP SENSITIVITY (mA)	AMP. RATING I_n (A)	TYPE A CAT. №	TYPE AI CAT. №	TYPE F CAT. №
10	6	DTRD0610A	—	—
	10	DTRD1010A	—	—
	16	DTRD1610A	—	—
30	6	DTRD0630A	DTRD0630AI	DTRD0630F
	10	DTRD1030A	DTRD1030AI	DTRD1030F
	16	DTRD1630A	DTRD1630AI	DTRD1630F
	20	DTRD2030A	DTRD2030AI	DTRD2030F
	25	DTRD2530A	DTRD2530AI	DTRD2530F
	32	DTRD3230A	DTRD3230AI	DTRD3230F
	40	DTRD4030A	DTRD4030AI	DTRD4030F
100	10	DTRD10100A	—	—
	16	DTRD16100A	—	—
	20	DTRD20100A	—	—

Circuit Diagram and Dimensions mm



Notes

- 10mA Type 1 RCD
- Type AI higher immunity type
- Type F suited for frequency-controlled appliances and equipment
- 30mA suitable for 110 VAC

DIN-T DTR6L

RCBO Long body 1P 6kA (6–50 A)

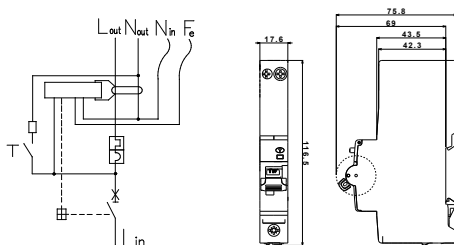
3
61

- Standard AS/NZS 61009
- Approval No NSW29319 & RCM
- Current ratings 6–50A
- Earth leakage protection Type A
- C Curve
- 30mA trip sensitivity
- Contact position indicator green/red flag (CPI)
- Shunt, UVT and Aux compatible
- Pad lockable handle & LOCKDIN compatible
- Handle sealable in ON and OFF position
- Earth leakage blue trip indicator flag (ETI) (feature coming soon)
- Suits Concept Panelboards, POWERMAX NC & GB busbar chassis
- **General light and power applications**



TRIP SENSITIVITY (mA)	AMP. RATING I_n (A)	C CURVE CAT. NO
30	6	DTR6L0630A
	10	DTR6L1030A
	16	DTR6L1630A
	20	DTR6L2030A
	25	DTR6L2530A
	32	DTR6L3230A
	40	DTR6L4030A
	50	DTR6L5030A

Circuit Diagram and Dimensions mm



Notes

- Neutral pigtail lead and earth reference wire
- Compatible with pin or fork type busbar on the bottom terminals

DIN-T DTRL

RCBO Long Body 1P 10kA (6–50 A)

DIN-T

Residual Current Devices

- Standard AS/NZS 61009
- Approval No NSW29319 & RCM
- Current ratings 6–50A
- Earth leakage protection Type A or Type F
- C or D Curve
- 10mA, 30mA & 100mA trip sensitivity
- Contact position indicator green/red flag (CPI)
- Shunt, UVT and Aux compatible
- Pad lockable handle & LOCKDIN compatible
- Handle sealable in ON and OFF position
- Earth leakage blue trip indicator flag (ETI) (feature coming soon)
- Suits Concept Panelboards, POWERMAX NC & GB busbar chassis
- **General light and power applications**



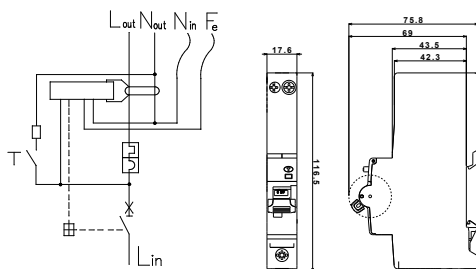
TRIP SENSITIVITY (mA)	AMP. RATING I_n (A)	C CURVE TYPE A CAT. No	D CURVE TYPE A CAT. No	C CURVE TYPE F CAT. No
10	6	DTRL0610A	–	–
	10	DTRL1010A	–	–
	16	DTRL1610A	–	–
	20	DTRL2010A	–	–
	25	DTRL2510A	–	–
	32	DTRL3210A	–	–
	40	DTRL4010A	–	–
	50	DTRL5010A	–	–
30	6	DTRL0630A	DTRL0630AD	DTRL0630F
	10	DTRL1030A	DTRL1030AD	DTRL1030F
	16	DTRL1630A	DTRL1630AD	DTRL1630F
	20	DTRL2030A	DTRL2030AD	DTRL2030F
	25	DTRL2530A	DTRL2530AD	DTRL2530F
	32	DTRL3230A	DTRL3230AD	DTRL3230F
	40	DTRL4030A	DTRL4030AD	DTRL4030F
	50	DTRL5030A	–	DTRL5030F

Notes

- 10mA Type 1 RCD
- Neutral pigtail lead and earth reference wire
- Compatible with pin or fork type busbar on the bottom terminals
- Type F suited for frequency-controlled appliances and equipment

TRIP SENSITIVITY (mA)	AMP. RATING I_n (A)	C CURVE TYPE A CAT. №	D CURVE TYPE A CAT. №
100	6	DTRL06100A	—
	10	DTRL10100A	—
	16	DTRL16100A	DTRL16100AD
	20	DTRL20100A	DTRL20100AD
	25	DTRL25100A	DTRL25100AD
	32	DTRL32100A	—
	40	DTRL40100A	—
	50	DTRL50100A	—

Circuit Diagram and Dimensions mm



Notes

- Neutral pigtail lead and earth reference wire
- Compatible with pin or fork type busbar on the bottom terminals equipment

DIN-T DTRT

RCBO 3P 10kA (6-63 A)

DIN-T

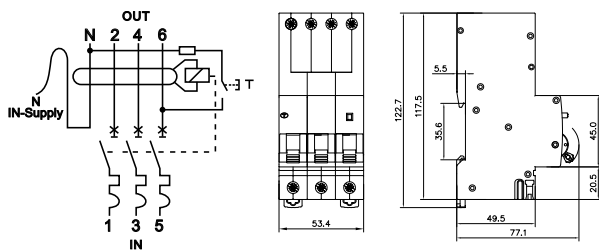
Residual Current Devices

- Standard AS/NZS 61009
- Approval No ESV220008 & RCM
- Current ratings 6-63A
- Earth leakage protection Type A
- Compact 3 pole 54mm width
- C or D Curve
- 30mA, 100mA & 300mA trip sensitivity
- Pad lockable handle & LOCKDIN compatible
- Handle sealable in ON and OFF position
- Suits Concept Panelboards, POWERMAX NC & GB busbar chassis
- General light and power applications**



TRIP SENSITIVITY (mA)	AMP. RATING I_n (A)	C CURVE CAT. No	D CURVE CAT. No
30	6	DTRT0630A	DTRT0630AD
	10	DTRT1030A	DTRT1030AD
	16	DTRT1630A	DTRT1630AD
	20	DTRT2030A	DTRT2030AD
	25	DTRT2530A	DTRT2530AD
	32	DTRT3230A	DTRT3230AD
	40	DTRT4030A	DTRT4030AD
	50	DTRT5030A	DTRT5030AD
	63	DTRT6330A	DTRT6330AD
100	6	DTRT06100A	DTRT06100AD
	10	DTRT10100A	DTRT10100AD
	16	DTRT16100A	DTRT16100AD
	20	DTRT20100A	DTRT20100AD
	25	DTRT25100A	DTRT25100AD
	32	DTRT32100A	DTRT32100AD
	40	DTRT40100A	DTRT40100AD
	50	DTRT50100A	DTRT50100AD
	63	DTRT63100A	DTRT63100AD
300	6	DTRT06300A	DTRT06300AD
	10	DTRT10300A	DTRT10300AD
	16	DTRT16300A	DTRT16300AD
	20	DTRT20300A	DTRT20300AD
	25	DTRT25300A	DTRT25300AD
	32	DTRT32300A	DTRT32300AD
	40	DTRT40300A	DTRT40300AD
	50	DTRT50300A	DTRT50300AD
	63	DTRT63300A	DTRT63300AD

Circuit Diagram and Dimensions mm



Notes

- Neutral pigtail lead
- Compatible with pin or fork type busbar on the bottom terminals equipment

DIN-T DTRTN

RCBO 3P+N 10kA (6-63 A)

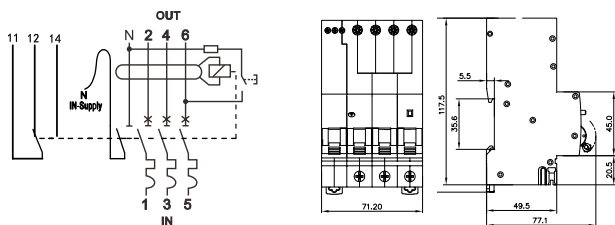
DIN-T

Residual Current Devices

- Standard AS/NZS 61009
- Approval No NSW29308 & RCM
- Current ratings 6-63A
- Earth leakage protection Type A
- Compact 4 pole 72mm width
- C or D Curve
- 30mA, 100mA & 300mA trip sensitivity
- Switched neutral
- Built in C/O Auxiliary contact
- Dummy terminal to suit standard 3P busbar chassis
- Pad lockable handle & LOCKDIN compatible
- Handle sealable in ON and OFF position
- Suits Concept Panelboards, POWERMAX NC & GB busbar chassis
- **General light and power applications**



Circuit Diagram and Dimensions mm



Notes

- Neutral pigtail lead
- Compatible with pin or fork type busbar on the bottom terminals

TRIP SENSITIVITY (mA)	AMP. RATING I_n (A)	C CURVE CAT. №	D CURVE CAT. №
30	6	DTRTN0630A	DTRTN0630AD
	10	DTRTN1030A	DTRTN1030AD
	16	DTRTN1630A	DTRTN1630AD
	20	DTRTN2030A	DTRTN2030AD
	25	DTRTN2530A	DTRTN2530AD
	32	DTRTN3230A	DTRTN3230AD
	40	DTRTN4030A	DTRTN4030AD
	50	DTRTN5030A	DTRTN5030AD
	63	DTRTN6330A	DTRTN6330AD
100	6	DTRTN06100A	DTRTN06100AD
	10	DTRTN10100A	DTRTN10100AD
	16	DTRTN16100A	DTRTN16100AD
	20	DTRTN20100A	DTRTN20100AD
	25	DTRTN25100A	DTRTN25100AD
	32	DTRTN32100A	DTRTN32100AD
	40	DTRTN40100A	DTRTN40100AD
	50	DTRTN50100A	DTRTN50100AD
	63	DTRTN63100A	DTRTN63100AD
300	6	DTRTN06300A	DTRTN06300AD
	10	DTRTN10300A	DTRTN10300AD
	16	DTRTN16300A	DTRTN16300AD
	20	DTRTN20300A	DTRTN20300AD
	25	DTRTN25300A	DTRTN25300AD
	32	DTRTN32300A	DTRTN32300AD
	40	DTRTN40300A	DTRTN40300AD
	50	DTRTN50300A	DTRTN50300AD
	63	DTRTN63300A	DTRTN63300AD

DIN-T DTRTNN

RCBO 3P 10kA (6-63 A)

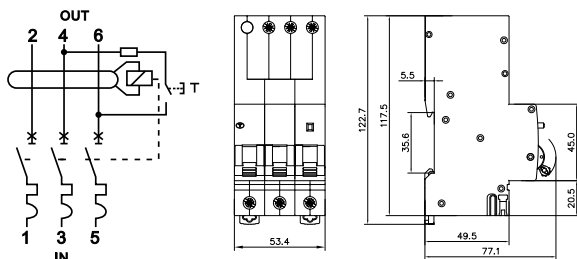
DIN-T
Residual Current Devices

- Standard AS/NZS 61009
- Approval No NSW29308 & RCM
- Current ratings 6-63A
- Applications with no neutral
- Earth leakage protection Type A
- Compact 3 pole 54mm width
- C or D Curve
- 30mA, 100mA & 300mA trip sensitivity
- Pad lockable handle & LOCKDIN compatible
- Handle sealable in ON and OFF position
- Suits Concept Panelboards, POWERMAX NC & GB busbar chassis
- General light and power applications without a neutral**



TRIP SENSITIVITY (mA)	AMP. RATING I_n (A)	C CURVE CAT. №	D CURVE CAT. №
30	6	DTRTNN0630A	DTRTNN0630AD
	10	DTRTNN1030A	DTRTNN1030AD
	16	DTRTNN1630A	DTRTNN1630AD
	20	DTRTNN2030A	DTRTNN2030AD
	25	DTRTNN2530A	DTRTNN2530AD
	32	DTRTNN3230A	DTRTNN3230AD
	40	DTRTNN4030A	DTRTNN4030AD
	50	DTRTNN5030A	DTRTNN5030AD
100	63	DTRTNN6330A	DTRTNN6330AD
	6	DTRTNN06100A	DTRTNN06100AD
	10	DTRTNN10100A	DTRTNN10100AD
	16	DTRTNN16100A	DTRTNN16100AD
	20	DTRTNN20100A	DTRTNN20100AD
	25	DTRTNN25100A	DTRTNN25100AD
	32	DTRTNN32100A	DTRTNN32100AD
	40	DTRTNN40100A	DTRTNN40100AD
300	50	DTRTNN50100A	DTRTNN50100AD
	63	DTRTNN63100A	DTRTNN63100AD
	6	DTRTNN06300A	DTRTNN06300AD
	10	DTRTNN10300A	DTRTNN10300AD
	16	DTRTNN16300A	DTRTNN16300AD
	20	DTRTNN20300A	DTRTNN20300AD
	25	DTRTNN25300A	DTRTNN25300AD
	32	DTRTNN32300A	DTRTNN32300AD
	40	DTRTNN40300A	DTRTNN40300AD
	50	DTRTNN50300A	DTRTNN50300AD
	63	DTRTNN63300A	DTRTNN63300AD

Circuit Diagram and Dimensions mm

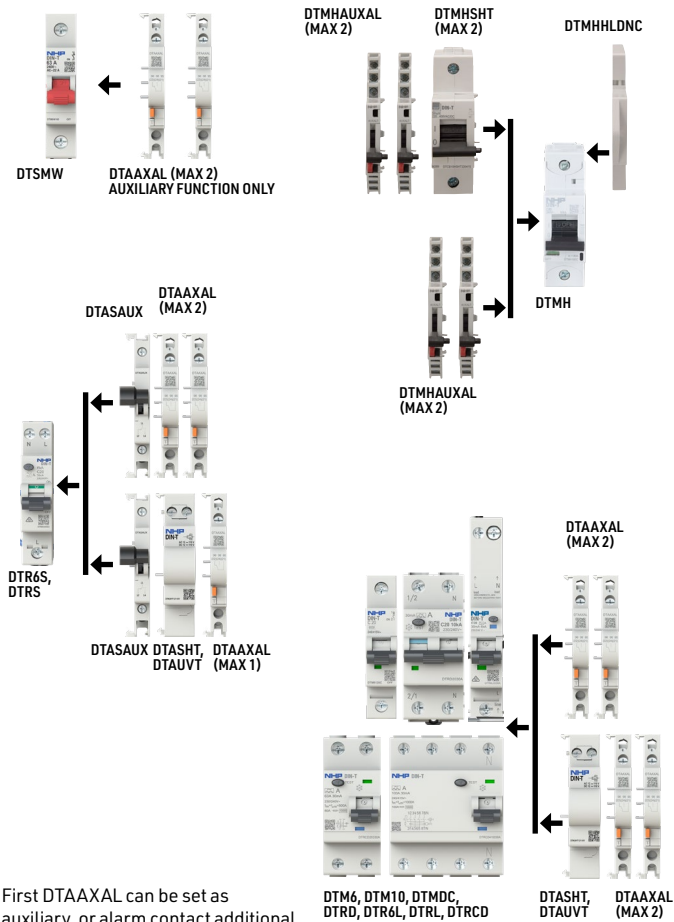


Notes

- Compatible with pin or fork type busbar on the bottom terminals

Compatibility Chart

DIN-T
Accessories



First DTAAXAL can be set as auxiliary, or alarm contact additional DTAAXAL must set only as auxiliary

*DTAUVT or DTSHT accepts on it right max QTY 1 DTAAXAL

DESCRIPTION	COMPATIBLE RANGES	CAT. №
POLE FILLER	POLE FILLER 12 POLES (24×9mm)	DTPF12
POLE FILLER	DUMMY MODULE (POLE FILLER IN PROFILE OF MCB)	DTADM
CHANGEOVER SWITCH	CHANGEOVER SWITCH 25A WITHOUT OFF	DTCS2522
CHANGEOVER SWITCH	CHANGEOVER SWITCH 25A WITH OFF	DTCS2523
PUSH BUTTON	DIN PUSH BUTTON 9mm	DTPC119
TERMINAL	35mm PIN LATERAL	DTTLT35PN
TERMINAL	35mm PIN LATERAL LONG	DTTLT35LPN
TERMINAL	25mm PIN LONG INSULATED	DTTLT25PN2
TERMINAL	25mm PIN 90° (REAR CONNECT)	DTT9025PN
TERMINAL	50mm PIN 90° (REAR CONNECT)	DTT9050PN
TERMINAL	NEUTRAL LINK FOR RCCB (3 WAYS)	DTTAX16PN3
TERMINAL	25mm PIN AXIAL	DTTAX25PN
TERMINAL	25mm SPADE AXIAL	DTTAX25SP
TERMINAL	50mm PIN AXIAL	DTTAX50PN
TERMINAL	35mm CABLE TO BUSCOMB	DTCF35
TERMINAL	MCB PROFILE 100A	DTATM100
LOCKING	CAPTIVE LOCKDOG TOGGLE MOUNT (NOT SUITABLE DTMH OR DTRT)	DTALDC
LOCKING	CAPTIVE LOCKDOG TOGGLE MOUNT (SUITABLE DTRT)	DCLD6
LOCKING	NON CAPTIVE LOCKDOG	DTLD
LOCKING	SIDE MOUNT LOCKING DEVICE DTMH	DTMHLD
LOCKING	NON CAPTIVE LOCKING DEVICE DTMH YELLOW	DTMHLDNC
SPACER	DIN SPACER 9mm	DTSP
SUPPORT	DIN MOUNT 22.5 PUSH BUTTON SUPPORT	M22IVS
SHROUD	SHROUD DTMH	DTMHSRD

DTPF12



DTSP



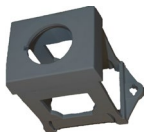
DTLD



DTMHLDNC



M221VS



DTTAX50PN



DTADM



DTATM100



DTCS2523



DTCP119



DTALDC



DTTLT35PN



DTCF35



DTTLT35LPN



DTTLT25PN2



DTTAX25PN



DTTAX25SPP



DTT9025PN



DTTAX16PN3



DTT9050PN



Busbar Combs

DIN-T
Accessories

- Busbar comb
- 18mm pitch
- 80A end feed/ 130A center feed
- Suit MCBs and RCBOS

No WAYS	1P CAT. №	1P+N (2P) CAT. №	3P CAT. №	4P CAT. №
6 WAY	—	ICL62	—	—
8 WAY	IBC108P	—	—	—
10 WAY	—	ICL102	—	—
12 WAY	IBC112P	—	ICL123	—
15 WAY	IBC115P	—	ICL153	—
18 WAY	IBC118P	—	ICL183	—
21 WAY	IBC121P	—	ICL213	—
56 WAY	—	ICL562	—	ICL564
57 WAY	IBC155P	—	—	—
END CAP	IBCEC1	ICLEC23	ICLEC23	ICLEC4
IBC118P		ICL123		



Pin Type

DESCRIPTION	CAT. №
56 WAY 3P+AUX	ICL563A
STRIP TEE OFF CAPS 5P	ICLTOC

Fork Type

No WAYS	1P CAT. №	3P CAT. №
12	ICL121F	—
18	ICL181F	—
57	ICL561F	ICL573F
ICL121F		ICLTOC



- Fits captive to MCB/ RCBO
- 16mm extra wide cut-out required (63mm vs 47mm)
- Secure regardless of escutcheon position



DESCRIPTION	COMPATIBLE RANGES	CAT. No
1P LH	DTM6, DTM10, DTMDC, DTR6L, DTRL	DTALDT
1P LH 10 PACK		DTALDTPK
1P RH		DTALDTRH
1P RH 10 PACK		DTALDTRHPK
1P LH	DTR6S, DTRS	DTALDTRS*
1P RH		DTALDTRS RH*
2P LH/RH	DTRD	DTALDTRD
1-4P LH/RH	DTMH	DTALMH
3P/4P LH/RH	DTRT, DTRTN, DTRTNN	DTALDTRT
POLE FILLER	SUIT 63mm CUT-OUTS - 3P (54mm 6 × 9mm)	DTALPF
POLE FILLER (MCB PROFILE)	DUMMY MODULE	DTADM
BLANK MODULES 10 PACK	DTM6, DTM10, DTMDC, DTR6L, DTRL	DTALBPK
9mm, 18mm & 27mm AUX FILLER 10 PACK OF EACH	DTALDT, DTALDTRS, DTALDTRD	DTALBAX

DTALDT	DTALDTRS	DTALDTRD	DTALB	DTADM
DTALDTRT	DTALMH	DTALB	DTALBAX	DTALPF

Notes

*Cannot use accessories with LOCKDIN

Din Contactors

DIN-T Accessories

- Silent hum-free operation
- IEC 60947-4-1
- Varistor coil protection
- Red /Green indicator status
- No spacer required for 16A and 20A* models
- 25A, 40A & 63A spacer required for every 2nd contactor**



AC-1/AC-7A RATING	AC-3/AC-7B RATING	BALLAST AC-5 RATING	CONTACTS	COIL VOLTAGE	WIDTH	CAT. №
16A	6A	8A	1 NO/1 NC	240V AC/DC	1P	DTC1611240D
16A	6A	8A	2 NO	240V AC/DC	1P	DTC1620240D
20A	8.5A	10A	2 NC	240V AC/DC	1P	DTC2002240D
20A	8.5A	10A	1 NO/1 NC	240V AC/DC	1P	DTC2011240D
20A	8.5A	10A	2 NO	240V AC/DC	1P	DTC2020240D
20A	8.5A	10A	2 NO	24V AC/DC	1P	DTC202024D
25A	8.5A	10A	4 NC	240V AC/DC	2P	DTC2504240D
25A	9A	25A	4 NO	12V AC/DC	2P	DTC254012D
25A	9A	25A	4 NO	240V AC/DC	2P	DTC2540240D
25A	9A	25A	4 NO	24V AC/DC	2P	DTC254024D
40A	22A	30A	4 NO	240V AC/DC	3P	DTC4040240D
40A	22A	30A	4 NO	24V AC/DC	3P	DTC404024D
63A	30A	40A	4 NO	240V AC/DC	3P	DTC6340240D
63A	30A	40A	4 NO	24V AC/DC	3P	DTC634024D

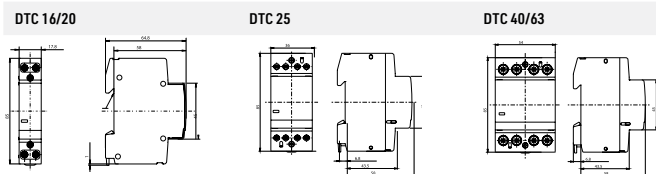
*Ambient temperatures up to 55°C

**** Ambient temperature $\geq 40^{\circ}\text{C}$; duty time ≥ 1 hour**

240 V coils also suitable for 230 V

DESCRIPTION	AC15 240V	AC-15 24V	DC-13 125V	CONTACTS	CAT. №
AUXILIARY LH MOUNT 9mm	4A	6A	0.55A	1 NO/1 NC	DTC AUX11
AUXILIARY LH MOUNT 9mm	4A	6A	0.55A	2 NO	DTC AUX20
SPACER 9mm	—	—	—	—	DTC SP9

Dimensions mm



	DTC16	DTC20	DTC25	DTC40	DTC63
PERMITTED COMPENSATING CAPACITY PER PHASE $C_{\max}$ / μ F	45	75	100	350	500
LAMP TYPES	MAXIMUM LOAD OF THE CURRENT PATHS DURING SWITCHING OF ELECTRIC LAMPS I_b /A PER PHASE				
INCANDESCENT AND HALOGEN LAMPS (230V)	4	6	7	20	30
MIXING LAMPS WITHOUT BALLAST	4	6	7	20	30
FLUORESCENT LAMPS WITH CONVENTIONAL BALLAST					
SINGLE LAMP UNCOMPENSATED	14	18	22	36	56
SINGLE LAMP PARALLEL COMPENSATED	2	3	3.5	10	15
SERIES COMPENSATION, DUO CIRCUIT	14	18	22	36	56
FLUORESCENT LAMPS WITH ELECTRONIC BALLAST OR CFL	4	6	7	20	30
LED LAMPS	4	6	7	20	30
HIGH PRESSURE MERCURY-VAPOR LAMPS					
SINGLE LAMP WITHOUT COMPENSATION	7	9	11	18	28
PARALLEL COMPENSATION, SINGLE LAMP WITH ELECTRONIC BALLAST	2	3	3.5	10	15
HALOGEN METAL-VAPOR LAMPS					
SINGLE LAMP WITHOUT COMPENSATION	7	9	11	18	28
PARALLEL COMPENSATION, SINGLE LAMP WITH ELECTRONIC BALLAST	2	3	3.5	10	15
HIGH PRESSURE SODIUM-VAPOR LAMPS					
SINGLE LAMP WITHOUT COMPENSATION	7	9	11	18	28
PARALLEL COMPENSATION, SINGLE LAMP WITH ELECTRONIC BALLAST	2	3	3.5	10	15
LOW PRESSURE SODIUM-VAPOR LAMPS					
SINGLE LAMP WITHOUT COMPENSATION	7	9	11	18	28
PARALLEL COMPENSATION, SINGLE LAMP WITH ELECTRONIC BALLAST	2	3	3.5	10	15

DIN-T Substitution Reference

DIN-T
Substitution reference

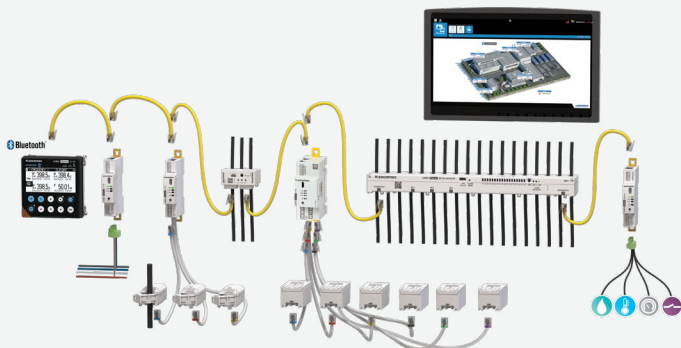
DEVICE TYPE	OLD DIN-T		NEW DIN-T
Miniature Circuit Breakers	DT CB XXXX	→	DT M XXXX
Residual Current Devices	DS RCD XXXX	→	DT RCD XXXX
Main Switches	DINT MS XXXX	→	DT MSW XXXX
Residual Current Breakers	DS RCB XXXX	→	DT RD XXXX
	DS RCBS XXXX	→	DT R6S XXXX DT RS XXXX
	DS RCBH XXXX	→	DT R6L XX DT RL XXXX
	DS RCBT XXXX	→	DT RT XXXX



For more information on substitution to the new range of DIN-T, please scan the QR code to view the overview and migration document, available on our website.

DIRIS Digiware

Multi-circuit Power Monitoring
System for AC electrical installations



PreciSense

Overall class 0.5 accuracy for
all digiware metering option



VirtualMonitor

Smart monitoring of
your protective devices



AutoCorrect

Automatic error detection with
ability for remote correction



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DIN-T Enclosures

4

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Selection Guide

DIN-T Enclosures Introduction

	CSPC	ILC	NWP
			
SURFACE MOUNTING	YES	YES	YES
FLUSH MOUNTING	NO	NO	NO
IP RATING	30	40	65
MCB/ RCBO TYPE	DIN-T OR MOD6+	DIN-T OR MOD6+	DIN-T OR MOD6+
MATERIAL BASE	ABS	ABS	ABS/PV- BASE UV TREATED HIPS- LID
MATERIAL DOOR	–	POLYCARBONATE	POLYCARBONATE
COLOUR	RAL7035	RAL7035	RAL7035
WIDTH	1P 33 mm 2P 52 mm 4P 87 mm 6P 122 mm 8P 160 mm	4P 90 mm 8P 170 mm	4P 152 mm 8P 232 mm 12,24 & 36 320 mm
DEPTH	1-4P 62 mm 6-8P 65 mm	4P 100 mm & 8P 120 mm	4P 117 mm, OTHERS 155 mm
POLE SIZES	1P, 2P, 4P, 6P & 8P	4P & 8P	4P, 8P, 12P, 24P & 36P
SPARE HORIZONTAL DIN SPACES	–	–	–
CURRENT RATING	–	–	63 A
BUSBAR TYPE	–	–	PIN BUSBAR COMB
DOOR	NO	YES- TRANSPARENT	YES TRANSPARENT
DOOR HINGED	–	YES, TOP	YES, LH OR RH
3-POINT LOCKING	–	–	–
ESCUTCHEON HINGED	–	–	–
LOCKABLE	–	NO	ACCESSORY
E/N BARS	NO	NO	YES

NLC	CONCEPT PLUS	CONCEPT PREMIER	CONCEPT TOUGH
			
YES	YES	YES	YES
ACCESSORY	ACCESSORY	ACCESSORY	NO
30	42 (52 OPTION)	66	66
DIN-T	DIN-T	DIN-T	DIN-T
MILD STEEL	MILD STEEL	MILD STEEL 316 STAINLESS STEEL	MILD STEEL 316 STAINLESS STEEL
ACCESSORY- MILD STEEL	MILD STEEL	MILD STEEL 316 STAINLESS STEEL	MILD STEEL 316 STAINLESS STEEL
N42 STORM GREY	N42 STORM GREY X15 ORANGE	MILD STEEL: N42 STORM GREY OR X15 ORANGE STAINLESS STEEL: X15 ORANGE, RAW FINISH	MILD STEEL: X15 ORANGE STAINLESS STEEL: X15 ORANGE, RAW FINISH
8P- 268 mm 12P- 418 mm 15P- 418 mm 18P- 493 mm 21P- 568 mm 24P- 693 mm	600 mm	600 mm	800 mm
68 mm	200 mm	240 mm	340 mm
8P, 12P, 15P, 18P, 21P & 24P	24P, 36P, 48P, 60P, 72P, 84P & 96P	24P, 36P, 48P, 60P, 72P, 84P & 96P	24P, 36P, 48P, 60P, 72P, 84P & 96P
–	18	18	18
100A	160 A, 250 A	160 A, 250 A, 400 A	250 A
–	NC- ENCAPSULATED GB- ISOLATION OPTION	NC- ENCAPSULATED GB- ISOLATION OPTION	NC- ENCAPSULATED GB- ISOLATION OPTION
ACCESSORY	YES	YES	YES
OPTION- TOP	YES-RH	YES-RH	YES-RH
–	OPTION	YES	YES
–	YES	YES	YES
ACCESSORY	YES	YES	YES
YES	YES	YES	YES

CSPC

Surface Mount IP30 Pole Covers

DIN-T Enclosures Pole Covers

- IP30 rating
- RAL 7035 Grey
- 1, 2 and 4 Pole lead sealable
- Surface Mount
- No Earth and neutral bars



Dimensions mm

POLES	H × W × D mm	CAT. №
1	130 X 33 X 62	CSPC1
2	130 X 52 X 62	CSPC2
4	130 X 87 X 62	CSPC4
6	159 X 122 X 65	CSPC6
8	159 X 160 X 65	CSPC8

ILC

Surface mount IP40 Pole covers

- IP40 rating
- RAL 7035 Grey impact resistant base (ABS)
- 4 and 8 way
- Surface Mount
- No Earth and neutral bars
- Sealing option
- Transparent polycarbonate door



Dimensions mm

POLES	H × W × D mm	CAT. №
4	175 X 90 X 100	ILC4S
8	175 X 170 X 120	ILC8S

Accessories

DESCRIPTION	CAT. №
ILC LEAD SEALING BRACKET	ILCSB

- Securely lockable isolator
- 40-100A models
- 1 pole and 3 pole
- C & D curve
- Sealable enclosure
- LOCKDIN captive locking system
- Suitable as supply capacity device
- Compact CSPC models



Enclosures with LOCKDIN cutout (circuit protection & LOCKDIN excluded)

ENCLOSURE	COMPATIBLE MCBS	H × W × D mm	CAT. No
CSPC2	1P DINT (DTM6, DTM10)	130 X 52 X 62	CSPC2LD
CSPC4	3P DINT (DTM6, DTM10)	130 X 87 X 62	CSPC4LD
ILC4S (DOOR REMOVED)	1P/3P DINT (DTM6, DTM10)	175 X 90 X 100	ILC4SLDA
ILC4S (DOOR REMOVED)	1P/3P DINT (DTMH)	175 X 90 X 100	ILC4SLD10HA

note: IP rating is reduced to IP30 when door is removed

Enclosures (complete with 1P MCB & LOCKDIN)

IN (A)	CURVE	KA	ENCLOSURE	CAT. No
40	C	10	CSPC2LD	CSPC2LD10140C
50	C		CSPC2LD	CSPC2LD10150C
63	C	10	CSPC2LD	CSPC2LD10163C
	D		CSPC2LD	CSPC2LD10163D
	C	6	CSPC2LD	CSPC2LD6163C
	D		CSPC2LD	CSPC2LD6163D
	C		ILC4SLDA	ILC4SLD6163C
	D		ILC4SLDA	ILC4SLD6163D
	C	10	ILC4SLDA	ILC4SLD10163C
	D		ILC4SLDA	ILC4SLD10163D
80	C	10	ILC4SLD10HA	ILC4SLD180C
	D		ILC4SLD10HA	ILC4SLD180D
100	C		ILC4SLD10HA	ILC4SLD1100C
	D		ILC4SLD10HA	ILC4SLD1100D

Enclosures (complete with 3P MCB & LOCKDIN)

		KA	ENCLOSURE	CAT. No
50	C	10	CSPC4LD	CSPC4LD10350C
63	C	6	CSPC4LD	CSPC4LD6363C
	C	10	CSPC4LD	CSPC4LD10363C
	D	10	CSPC4LD	CSPC4LD10363D
	C		ILC4SLDA	ILC4SLD10363C
	D		ILC4SLDA	ILC4SLD10363D
80	C	10	ILC4SLD10HA	ILC4SLD380C
	D		ILC4SLD10HA	ILC4SLD380D
100	C	10	ILC4SLD10HA	ILC4SLD3100C
	D		ILC4SLD10HA	ILC4SLD3100D

Weatherproof

NWP IP65 Loadcentres

DIN-T Enclosures
Loadcentres

- AS/NZS 61439.3
- IP65
- 4-36way
- Impact rating IK10
- 63A rated
- Earth and Neutral bars meet AS/NZS 5112
- Adjustable DIN rail 125 or 150mm centres
- 180° opening transparent door



Versatile range of weatherproof loadcentres with an IP65 rating and is suitable for indoor and outdoor applications. The whole consumer unit (or just the front panel) can be rotated, easily changing the door opening side. In the multi-row versions, the centre distance of the DIN rails can be varied from 150 mm to 125 mm. The frame is extractable for quick and easy bench cabling, and it is possible to anchor the cable ties to special eyeholes on the frame. Resistant to saline environments, range of chemicals, sandy/dusty environments or UV rays in outdoor applications.

Enclosure

POLE CAPACITY	EARTH BAR WAYS	NEUTRAL BAR WAYS	CAT. No
4	—	—	NWP4
8	9	9	NWP8
12	14	14	NWP12
24	24	24	NWP24
36	24	24	NWP36

General Accessories

DESCRIPTION	CAT. No
ENCLOSURE WALL FIXING BRACKETS (QTY. 4)	NWPWFBRKT
JUNCTION UNIT 28mm EACH	NWPJNU
ENCLOSURE LOCKING DEVICE WITH KEY	NWPLD

Dimensions mm

POLE CAPACITY	HEIGHT mm	DEPTH mm	WIDTH mm
4	202	117	152
8	250	155	232
12	250	155	320
24	435	155	320
36	600	155	320

NHP Metal

NLC Loadcentres

4
87

- 1mm mild 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



Surface Mounted Metal Loadcentre

POLES	H × W × D mm	CAT. №
8	245 X 268 X 68	NLC8S
12	245 X 418 X 68	NLC12S
15	245 X 418 X 68	NLC15S
18	245 X 493 X 68	NLC18S
21	245 X 568 X 68	NLC21S
24	245 X 693 X 68	NLC24S

Doors

DESCRIPTION	NLC CAT. №
SUIT NLC8S	LD68
SUIT NLC12S	LD912
SUIT NLC15S	LD1215
SUIT NLC18S	LD1518
SUIT NLC21S	LD1821
SUIT NLC24S	LD24

Flush Escutcheon

DESCRIPTION	NLC CAT. №
SUIT NLC8S	NLC8FE
SUIT NLC12S	NLC12FE
SUIT NLC15S	NLC15FE
SUIT NLC18S	NLC18FE
SUIT NLC21S	NLC21FE

General Accessories

DESCRIPTION	NLC CAT. №
NLC DOOR LOCKING KIT CL001	DSLK

Concept Plus

Multi-purpose Panelboards

DIN-T Enclosures Panelboards

- Standard AS/NZS 61439.3
- IP42 rating, optional kit for IP52 rating
- 8 modular sizes from 24-96 poles (432-1944mm)
- Compact 160 A - 250 A main switch or 63 A - 200 A MCCB
- Knockouts for up to DIN spaces
- Dual earth/neutral bars
- Door hinged right-hand side
- 1.6 mm fully welded construction
- Cable management system
- Accessory module
- Removable gland plates
- Chassis tee-off isolator option



Application

The Concept Plus multi-Purpose Panelboards offers a range of IP42 indoor panelboards designed for the commercial and industrial sectors. Concept Plus is a modular design that will accept DIN-T circuit protection devices and associated accessories. Options to choose from Standard, Isolation, X-Row, Energy metering, Single/Dual/Triple Energy metering and Electrical vehicle charging panelboards.

Technical Data

MATERIAL TYPE	1.6 mm MILD STEEL ENCLOSURE 1.0/1.2 mm MILD STEEL ESCUTCHEON
FINISH	TEXTURED POLYESTER POWDER COATED
COLOUR	ENCLOSURE - GREY (N42 STORM GREY) ENCLOSURE - ORANGE (X15) ESCUTCHEON - BRIGHT WHITE GLOSS
PROTECTION DEGREE	IP30 WITHOUT DOOR IP42 (OPTION IP52) WITH DOOR
BUSBAR RATINGS	CURRENT RATING 250 A NC I_{cw} 25kA 0.1S, I_{cw} 20 kA 0.3S & 10 kA 1.0S GB I_{cw} 25kA 0.1S, 10 kA 1.0S
NEUTRAL AND EARTH BAR	CURRENT RATING 250 A M8 STUD TOP AND BOTTOM SPARE 1x16 mm ² & 1x25 mm ² TUNNELS QTY 2x25 mm ² TUNNELS BALANCE 16 mm ² TUNNELS

Notes

The line side is off or bottom of the MCB/RCBO and connects to busbar chassis tee-offs



NO MAIN SWITCH (MID-STEEL GREY)

POLES	HEIGHT mm	MODULES	CAT. №
24	648	3	CPL-24-G
36	864	4	CPL-36-G
48	864	4	CPL-48-G
60	1080	5	CPL-60-G
72	1296	6	CPL-72-G
84	1296	6	CPL-84-G
96	1512	7	CPL-96-G

CONCEPT ISOLATOR MAIN SWITCH

POLES	HEIGHT mm	MODULES	160A MAIN SWITCH CAT. №	250A MAIN SWITCH CAT. №
24	648	3	CPL-24M160-G	CPL-24M250-G
36	864	4	CPL-36M160-G	CPL-36M250-G
48	864	4	CPL-48M160-G	CPL-48M250-G
60	1080	5	CPL-60M160-G	CPL-60M250-G
72	1296	6	—	CPL-72M250-G
84	1296	6	—	CPL-84M250-G
96	1512	7	—	CPL-96M250-G

TERASAKI MCCB MAIN SWITCH*

POLES	HEIGHT mm	MODULES	160A (ADJUSTABLE 100-160A) CAT. №	200A (ADJUSTABLE 125-200A) CAT. №
24	648	3	CPL-24MCCB160-G	CPL-24MCCB200-G
36	864	4	CPL-36MCCB160-G	CPL-36MCCB200-G
48	864	4	CPL-48MCCB160-G	CPL-48MCCB200-G
60	1080	5	CPL-60MCCB160-G	CPL-60MCCB200-G
72	1296	6	CPL-72MCCB160-G	CPL-72MCCB200-G
84	1296	6	CPL-84MCCB160-G	CPL-84MCCB200-G
96	1512	7	CPL-96MCCB160-G	CPL-96MCCB200-G

Notes

Width 600mm, depth 200mm including door (20mm) excluding door handle.

*Supplied as a kit (main switch loose).

Concept Plus

Multi-purpose Panelboards

DIN-T Enclosures
Panelboards



MILD STEEL - ORANGE
NO MAIN SWITCH

POLES	HEIGHT mm	MODULES	CAT. №
24	648	3	CPL-24-0
36	864	4	CPL-36-0
48	864	4	CPL-48-0
60	1080	5	CPL-60-0
72	1296	6	CPL-72-0
84	1296	6	CPL-84-0
96	1512	7	CPL-96-0

CONCEPT ISOLATOR MAIN SWITCH

POLES	HEIGHT mm	MODULES	160A MAIN SWITCH CAT. №	250A MAIN SWITCH CAT. №*
24	648	3	CPL-24M160-0	CPL-24M250-0
36	864	4	CPL-36M160-0	CPL-36M250-0
48	864	4	CPL-48M160-0	CPL-48M250-0
60	1080	5	CPL-60M160-0	CPL-60M250-0
72	1296	6	—	CPL-72M250-0
84	1296	6	—	CPL-84M250-0
96	1512	7	—	CPL-96M250-0

TERASAKI MCCB MAIN SWITCH*

POLES	HEIGHT mm	MODULES	160A (ADJUSTABLE 100-160A) CAT. №	200A (ADJUSTABLE 125-200A) CAT. №
24	648	3	CPL-24MCCB160-0	CPL-24MCCB200-0
36	864	4	CPL-36MCCB160-0	CPL-36MCCB200-0
48	864	4	CPL-48MCCB160-0	CPL-48MCCB200-0
60	1080	5	CPL-60MCCB160-0	CPL-60MCCB200-0
72	1296	6	CPL-72MCCB160-0	CPL-72MCCB200-0
84	1296	6	CPL-84MCCB160-0	CPL-84MCCB200-0
96	1512	7	CPL-96MCCB160-0	CPL-96MCCB200-0

Notes

Width 600mm, depth 200mm including door (20mm) excluding door handle.

*Supplied as a kit (main switch loose).



Concept Plus Panelboard CPLG with GB Isolation Chassis

These multi-purpose isolation panelboards for DIN-T MCBs & RCBOs come complete with GB isolation top feed chassis. The DB isolation chassis allows each tee-off on the chassis to be separately isolated by the means of a colour coded mechanically interlocked isolation switch.

Mild Steel 0 Grey & Orange No Main Switch

POLES	HEIGHT mm	MODULES	CAT. No GREY	CAT. No ORANGE
24	648	3	CPLG-24-G	CPLG-24-O
36	864	4	CPLG-36-G	CPLG-36-O
48	864	4	CPLG-48-G	CPLG-48-O
60	1080	5	CPLG-60-G	CPLG-60-O
72	1296	6	CPLG-72-G	CPLG-72-O
84	1296	6	CPLG-84-G	CPLG-84-O
96	1512	7	CPLG-96-G	CPLG-96-O

Width 600mm, depth 200mm including door (20mm) excluding door handle.

Concept Plus

Extra Row

DIN-T Enclosures
Panelboards



Concept Plus Panelboard CPLX (Extra Row DIN Rail Below Chassis - 24 Poles)

The multi-purpose panelboard for DIN-T circuit protection devices (with extra row DIN rail). These panelboards come complete with an encapsulated top fed NC chassis and an extra row of horizontal 24 poles DIN rail at the bottom of the board.

No Main Switch (Mild Steel–Grey & Orange)

POLES	HEIGHT mm	MODULES	CAT. № GREY	CAT. № ORANGE
30	864	4	CPLX-30-G	CPLX-30-O
48	1080	5	CPLX-48-G	CPLX-48-O
72	1512	7	CPLX-72-G	CPLX-72-O
96	1728	8	CPLX-96-G	CPLX-96-O

Width 600mm, depth 200mm including door (20mm) excluding door handle.



Concept Plus with Single Energy Metering

These energy metering panelboard for DIN-T circuit protection devices offer a compact energy metering solution utilising a DIN energy meter. With NABERS ready, the energy meter comes complete with communications.

250A Main Switch (Mild Steel–Grey & Orange)

POLES	HEIGHT mm	MODULES	CAT. № GREY	CAT. № ORANGE
24	864	3	CPL-MS-24-M250-G	CPL-MS-24-M250-O
36	864	4	CPL-MS-36-M250-G	CPL-MS-36-M250-O
48	1080	4	CPL-MS-48-M250-G	CPL-MS-48-M250-O
60	1296	5	CPL-MS-60-M250-G	CPL-MS-60-M250-O
72	1296	6	CPL-MS-72-M250-G	CPL-MS-72-M250-O
84	1512	6	CPL-MS-84-M250-G	CPL-MS-84-M250-O
96	1512	7	CPL-MS-96-M250-G	CPL-MS-96-M250-O

With extra rows of DIN rail (Below Chassis)

POLES	EXTRA DIN RAIL HEIGHT mm	MODULES	EXTRA DIN RAIL	CAT. № GREY	CAT. № ORANGE
24	1080	4	2 ROWS X 24	CPLMSX-24-M250-G	CPLMSX-24-M250-O
48	1512	6	3 ROWS X 24	CPLMSX-48-M250-G	CPLMSX-48-M250-O
72	1728	7	3 ROWS X 24	CPLMSX-72-M250-G	CPLMSX-72-M250-O

Width 600mm, depth 200mm including door (20mm) excluding door handle.

Concept Plus

Dual Metering

DIN-T Enclosures

Panelboards



Concept Plus with Dual Energy Metering

The dual energy metering panelboard for DIN-T circuit protection devices separately monitors light and power. These energy metering panelboards offer a compact energy metering solution utilising a DIN energy meter. With NABERS ready, the energy meter comes complete with communications.

250A Main Switch Mild Steel—Grey and Orange

TOTAL POLES	LIGHT POLES	POWER POLES	HEIGHT mm	MODULES	CAT. № GREY	CAT. № ORANGE
24	12	12	864	4	CPL-MD-1212-M250-G	CPL-MD-1212-M250-O
36	12	24	1080	5	CPL-MD-1224-M250-G	CPL-MD-1224-M250-O
36	18	18	1080	5	CPL-MD-1818-M250-G	CPL-MD-1818-M250-O
48	18	30	1080	5	CPL-MD-1830-M250-G	CPL-MD-1830-M250-O
48	24	24	1080	5	CPL-MD-2424-M250-G	CPL-MD-2424-M250-O
60	18	42	1296	6	CPL-MD-1842-M250-G	CPL-MD-1842-M250-O
60	30	30	1296	6	CPL-MD-3030-M250-G	CPL-MD-3030-M250-O
72	24	48	1512	7	CPL-MD-2448-M250-G	CPL-MD-2448-M250-O
72	36	36	1512	7	CPL-MD-3636-M250-G	CPL-MD-3636-M250-O
84	30	54	1512	7	CPL-MD-3054-M250-G	CPL-MD-3054-M250-O
84	42	42	1512	7	CPL-MD-4242-M250-G	CPL-MD-4242-M250-O
96	36	60	1728	8	CPL-MD-3660-M250-G	CPL-MD-3660-M250-O
96	48	48	1728	8	CPL-MD-4848-M250-G	CPL-MD-4848-M250-O

Width 600mm, depth 200mm including door (20mm) excluding door handle.

Concept Plus

Triple Metering

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Concept Plus with Triple Energy Metering

The triple energy metering panelboard for DIN-T circuit protection devices separately monitors light, power & miscellaneous services. These triple metering panelboards offer additional space for energy metering solution utilising a DIN energy meter. With NABERS ready, the energy meter comes complete with communications.

250A Main Switch Mild Steel—Grey and Orange

TOTAL POLES	LIGHT POLES	POWER POLES	MISC. POLES	HEIGHT mm	MODULES	CAT. No GREY	CAT. No ORANGE
48	12	24	12	1296	6	CPL-MT-122412-M250-G	CPL-MT-122412-M250-O
66	18	36	12	1512	7	CPL-MT-183612-M250-G	CPL-MT-183612-M250-O
84	24	48	12	1728	8	CPL-MT-244812-M250-G	CPL-MT-244812-M250-O
96	36	48	12	1944	9	CPL-MT-364812-M250-G	CPL-MT-364812-M250-O
108	36	96	12	1944	9	CPL-MT-369612-M250-G	CPL-MT-369612-M250-O

Width 600mm, depth 200mm including door (20mm) excluding door handle.

Concept Plus

Electric Vehicle Charging

DIN-T Enclosures
Panelboards



EV Charging Metering DB

The National Construction Code outlines a number of provisions regarding facilities for electric vehicle charging. In the energy efficiency section, many classes of building with associated car parks must have dedicated distribution boards for electric vehicle charging. NHP can make it easy to comply with the new requirements via a standardised distribution board in the Concept Plus Panelboard range. Load management kits available.

WITHOUT CONTROL LOAD MANAGEMENT ZONE (GREY)

POLES	CHARGER TYPE	EXTRA DIN RAIL	HEIGHT mm	CAT. No GREY
24	1 PHASE	2 ROWS X 24	1080	CPLMSX-24-M250-G
48	MIX 1/3 PHASE	3 ROWS X 24	1512	CPLMSX-48-M250-G
72	3 PHASE	3 ROWS X 24	1728	CPLMSX-72-M250-G

WITH SINGLE MODULE CONTROL LOAD MANAGEMENT ZONE (GREY)

POLES	CHARGER TYPE	EXTRA DIN RAIL	HEIGHT mm	CAT. No GREY
24	1 PHASE	2 ROWS X 24	1296	CPLMSXCS-24-M250-G
48	MIX 1/3 PHASE	3 ROWS X 24	1728	CPLMSXCS-48-M250-G
72	3 PHASE	3 ROWS X 24	1944	CPLMSXCS-72-M250-G

WITH DOUBLE MODULE CONTROL LOAD MANAGEMENT ZONE (GREY)

POLES	CHARGER TYPE	EXTRA DIN RAIL	HEIGHT mm	CAT. No GREY
24	1 PHASE	2 ROWS X 24	1512	CPLMSXCD-24-M250-G
48	MIX 1/3 PHASE	3 ROWS X 24	1944	CPLMSXCD-48-M250-G

Width 600mm, depth 200mm including door (20mm) excluding door handle.



WITHOUT CONTROL LOAD MANAGEMENT ZONE (ORANGE)

POLES	CHARGER TYPE	EXTRA DIN RAIL	HEIGHT mm	CAT. № ORANGE
24	1 PHASE	2 ROWS X 24	1080	CPLMSX24M2500
48	MIX 1/3 PHASE	3 ROWS X 24	1512	CPLMSX48M2500
72	3 PHASE	3 ROWS X 24	1728	CPLMSX72M2500

WITH SINGLE MODULE CONTROL LOAD MANAGEMENT ZONE (ORANGE)

POLES	CHARGER TYPE	EXTRA DIN RAIL	HEIGHT mm	CAT. № ORANGE
24	1 PHASE	2 ROWS X 24	1296	CPLMSXCS24M2500
48	MIX 1/3 PHASE	3 ROWS X 24	1728	CPLMSXCS48M2500
72	3 PHASE	3 ROWS X 24	1944	CPLMSXCS72M2500

WITH DOUBLE MODULE CONTROL LOAD MANAGEMENT ZONE (ORANGE)

POLES	CHARGER TYPE	EXTRA DIN RAIL	HEIGHT mm	CAT. № ORANGE
24	1 PHASE	2 ROWS X 24	1512	CPLMSXCD24M2500
48	MIX 1/3 PHASE	3 ROWS X 24	1944	CPLMSXCD48M2500

Width 600mm, depth 200mm including door (20mm) excluding door handle.

Accessories

EMERGENCY STOP KITS

POLES	CAT. №
STOP KIT (SHUNT TRIP)	CELAEVS
FAIL SAFE EMERGENCY STOP KIT (UNDER VOLTAGE TRIP)	CELAEVES

LOAD MANAGEMENT KITS

PROGRAMMED NUMBER OF CHARGERS	AVAILABLE ETHERNET PORTS	CHARGER PLUG CAPACITY	CONTROL ZONE REQUIRED	CAT. №
6	4	6	SINGLE	EVLM2CP06DBA
6	12	6	SINGLE	EVLM2CP06DBB
12	4	12	SINGLE	EVLM2CP12DBA*
24	4	24	SINGLE	EVLM2CP24DBA*
12	12	12	DOUBLE	EVLM2CP12DBB
24	24	24	DOUBLE	EVLM2CP24DBC

*External ethernet switch may be required

Concept Plus

Accessory Modules

DIN-T Enclosures
Panelboards



Concept Plus Accessory Modules—CPLACC

Mounted to either top, bottom or side of Concept Plus or mounted separately. Earth and neutral bars not included but kits are available.

Accessory Modules

GREY & ORANGE, MILD STEEL, HORIZONTAL DIN CUTOUT ESCUTCHEON

POLES	HEIGHT mm	MODULES	CAT. № GREY	CAT. № ORANGE
24	432	2	CPLACC-24-G	CPLACC-24-O
48	432	2	CPLACC-48-G	CPLACC-48-O
72	648	3	CPLACC-72-G	CPLACC-72-O

Blank Escutcheon

HEIGHT mm	MODULES	CAT. № GREY	CAT. № ORANGE
432	2	CPLACC-2ME-G	CPLACC-2ME-O
684	3	CPLACC-3ME-G	CPLACC-3ME-O
864	4	CPLACC-4ME-G	CPLACC-4ME-O
1080	5	CPLACC-5ME-G	CPLACC-5ME-O
1296	6	CPLACC-6ME-G	CPLACC-6ME-O
1512	7	CPLACC-7ME-G	CPLACC-7ME-O
1728	8	CPLACC-8ME-G	CPLACC-8ME-O
1944	9	CPLACC-9ME-G	CPLACC-9ME-O

No Escutcheon

POLES	HEIGHT mm	MODULES	CAT. № GREY	CAT. № ORANGE
–	432	2	CPLACC-2M-G	CPLACC-2M-O
–	684	3	CPLACC-3M-G	CPLACC-3M-O

Width 600mm, depth 200mm including door (20mm) excluding door handle.

EARTH AND NEUTRAL BAR MOUNTING KITS (SINGLE) TO SUIT ACCESSORY MODULES

ITEM DESCRIPTION	CAT. №
24 WAY 250A EARTH & NEUTRAL KIT	CELEN24
36 WAY 250A EARTH & NEUTRAL KIT	CELEN36
48 WAY 250A EARTH & NEUTRAL KIT	CELEN48
60 WAY 250A EARTH & NEUTRAL KIT	CELEN60
72 WAY 250A EARTH & NEUTRAL KIT	CELEN72
84 WAY 250A EARTH & NEUTRAL KIT	CELEN84
96 WAY 250A EARTH & NEUTRAL KIT	CELEN96

EARTH AND NEUTRAL BAR MOUNTING KITS (DUAL BARS - ODD & EVEN) TO SUIT ACCESSORY MODULES

ITEM DESCRIPTION	CAT. №
24 WAY 250A EARTH & NEUTRAL KIT	CPLEN24D
36 WAY 250A EARTH & NEUTRAL KIT	CPLEN36D
48 WAY 250A EARTH & NEUTRAL KIT	CPLEN48D
60 WAY 250A EARTH & NEUTRAL KIT	CPLEN60D
72 WAY 250A EARTH & NEUTRAL KIT	CPLEN72D
84 WAY 250A EARTH & NEUTRAL KIT	CPLEN84D
96 WAY 250A EARTH & NEUTRAL KIT	CPLEN96D

GEAR TRAYS

ITEM DESCRIPTION	HEIGHT mm	MODULES	CAT. №
WHITE GEAR TRAY	71	0.5	CELAGMS05
WHITE GEAR TRAY	179	1	CELAGMS1
WHITE GEAR TRAY	395	2	CELAGMS2
WHITE GEAR TRAY	611	3	CELAGMS3

Accessories

ITEM DESCRIPTION	CAT. №
TOP MULLION PLATE	CELAMMS
SEGREGATION BARRIER ALUMINIUM 2mm	CPLASBAL2

MAIN SWITCH KITS

ITEM DESCRIPTION	CAT. №
ISOLATOR SWITCH KIT 160 A 3P	CEL3160MK
ISOLATOR SWITCH KIT 250 A 3P	CEL3250MK
MCCB P250F MAIN SWITCH KIT 3P (ADJUSTABLE 40-63 A)	CELMCCB363
MCCB A250E MAIN SWITCH KIT 3P (ADJUSTABLE 63-100 A)	CELMCCB3100
MCCB A250F MAIN SWITCH KIT 3P (ADJUSTABLE 100-160 A)	CELMCCB3160
MCCB A250F MAIN SWITCH KIT 3P (ADJUSTABLE 125-200 A)	CELMCCB3200

GLAND PLATE

ITEM DESCRIPTION	CAT. №
GLAND PLATE GASKET	CPL-EGGF
GLAND PLATE, MILD STEEL 1.6 mm, ORANGE (X15)	CPLEGP-MS10R
GLAND PLATE, MILD STEEL 1.6 mm, STORM GREY (N42)	CPLEGP-MS1SG
GLAND PLATE, ALUMINIUM 3.0 mm	CPLEGP-AL3
GLAND PLATE, BAKELITE 5.0 mm	CPLEGP-BK5
GLAND PLATE, BRASS 3.0 mm	CPLEGP-BR3

IP52 KITS

ITEM DESCRIPTION	CAT. №
PANELBOARD KIT IP52, TO SUIT 3M-648 mm CPL ENCLOSURE	CPLEIP52M3
PANELBOARD KIT IP52, TO SUIT 4M-864 mm CPL ENCLOSURE	CPLEIP52M4
PANELBOARD KIT IP52, TO SUIT 5M-1080 mm CPL ENCLOSURE	CPLEIP52M5
PANELBOARD KIT IP52, TO SUIT 6M-1296 mm CPL ENCLOSURE	CPLEIP52M6
PANELBOARD KIT IP52, TO SUIT 7M-1512 mm CPL ENCLOSURE	CPLEIP52M7

*Size 8 & 9 just require IP66 handle

PLINTHS

ITEM DESCRIPTION	CAT. №
PLINTH KIT, SINGLE, 75 mm, HOT DIP GALVANISED	CPLAPSGAL
PLINTH KIT, DOUBLE, 75 mm, HOT DIP GALVANISED	CPLAPDGal
PLINTH KIT, TRIPLE, 75 mm, HOT DIP GALVANISED	CPLAPTGal

DOOR LOCKING RODS

ITEM DESCRIPTION	CAT. №
DOOR LOCKING RODS SIZE 3	CELDLR3MS
DOOR LOCKING RODS SIZE 4	CELDLR4MS
DOOR LOCKING RODS SIZE 5	CELDLR5MS
DOOR LOCKING RODS SIZE 6	CELDLR6MS
DOOR LOCKING RODS SIZE 7	CELDLR7MS
DOOR LOCKING RODS SIZE 8	CELDLR8MS
DOOR LOCKING RODS SIZE 9	CELDLR9MS

DOOR HANDLES

ITEM DESCRIPTION	CAT. №
DOOR SWING HANDLE CL001	CELHDSPPSC
DOOR SWING HANDLE 92268	CELHDSPPS9
DOOR SWING HANDLE PAD LOCKABLE	CELHDSPPP
DOOR SWING HANDLE E-KEY "PWD"	CELHDSPE
DOOR SWING HANDLE NON LOCKABLE	CELHDSZNKIT
DOOR SWING HANDLE 7mm SQUARE	CELHDSZQ7KIT
DOOR HANDLE CAM ROLLER - THREE POINT	CELHCRP21C60
DOOR HANDLE CAM ROLLER - SINGLE POINT	CELHCRP21A60

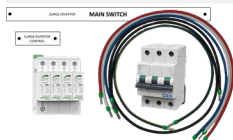
GENERAL

ITEM DESCRIPTION	CAT. No
EMERGENCY LIGHTING TEST KIT (PUSHBUTTON SWITCH)	CELAELK1W
EMERGENCY LIGHTING TEST KIT (KEY SWITCH)	CELAELK2W
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 1 CHANNEL 2N/O 25A	CELEXTLKC
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 1 CHANNEL 2N/O 25A	CELEXTLK1
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 2 CHANNEL 4N/O 25A	CELEXTLK2
SURGE KIT 40kA MCB + SURGE DIVERter TYPE 2 + WIRING LOOM	CELSURGEK1
SAFETY SERVICE MECHANICAL SEPARATION KIT 1 POLE	CELASSED1
SAFETY SERVICE MECHANICAL SEPARATION KIT 2 POLE	CELASSED2
SAFETY SERVICE MECHANICAL SEPARATION KIT 3 POLE	CELASSED3
WALL MOUNTING KIT BLACK	CELABGBBK
SCHEDULE CARD	CPSCCHEDULECARD
SCHEDULE CARD HOLDER (FLAT)	CELACPA4
DOOR STICKER SET	LBLPWBKACC
7mm DEEP SCHEDULE CARD HOLDER	CELACMSA4
30mm DEEP SCHEDULE CARD HOLDER ORANGE	CELACMSA430R
DOOR HINGE REVERSAL KIT (RH TO LH)	CELAKDHR
TOUCH UP PAINT GREY	392P35554
TOUCH UP PAINT ORANGE	392P35555
KEY CL001 (SET OF 2)	KEYCL001
KEY 92268 (SET OF 2)	KEY92268
ESCUTCHEON SCREW	FXSM5TX10HD12Z
DUCT SUPPORT	CELSU
NEUTRAL BAR EXTENSION	CELBECB4

ESCUTCHEON LABELS

ITEM DESCRIPTION	CAT. No
LABEL ESCUTCHEON LEGEND 1-24 DIN-T	LABLEG124D
LABEL ESCUTCHEON LEGEND 1-36 DIN-T	LABLEG136D
LABEL ESCUTCHEON LEGEND 1-48 DIN-T	LABLEG148D
LABEL ESCUTCHEON LEGEND 1-60 DIN-T	LABLEG160D
LABEL ESCUTCHEON LEGEND 1-72 DIN-T	LABLEG172D
LABEL ESCUTCHEON LEGEND 1-84 DIN-T	LABLEG184D
LABEL ESCUTCHEON LEGEND 1-96 DIN-T	LABLEG196D
LABEL ESCUTCHEON LEGEND 97-144 DIN-T	390P00007
LABEL ESCUTCHEON LEGEND 1-24 DIN-T10H (27 mm)	390P00006

SURGE KIT



EMERGENCY LIGHT TESTING KIT



EXTERNAL LIGHTING KIT



Concept Premier

Premium Panelboards

DIN-T Enclosures Panelboards

- Standard AS/NZS 61439.3
- IP66 rating
- 8 modular sizes from 24-96 poles (432-1944 mm)
- Compact 160 A - 250 A main switch or 63 A - 200 A MCCB
- Knockouts for up to 18 modules
- Stainless Steel option
- Dual earth/neutral bars
- Door hinged right-hand side
- Semi flush swing handle, with 3 point lockable door
- 1.6 mm fully welded construction
- Cable management system
- Extra space between door & escutcheon for accessory options
- Removable gland plates



Application

The Concept Premier Panelboard for DIN-T circuit protection devices offer a range of IP66 panelboards suited for washdown or outdoor applications in the commercial and industrial sectors. Concept Plus is a modular design that will accept DIN-T circuit breakers and associated accessory devices.

Technical Data

MATERIAL TYPE	1.6 mm MILD STEEL OR STAINLESS STEEL ENCLOSURE 1.0/1.2 mm MILD STEEL ESCUTCHEON
FINISH	TEXTURED POLYESTER POWDER COATED
COLOUR	ENCLOSURE-GREY (N42 STORM GREY) ENCLOSURE-ORANGE (X15) ENCLOSURE-RAW BRUSHED ESCUTCHEON-BRIGHT WHITE GLOSS
PROTECTION DEGREE	IP30 WITHOUT DOOR IP66 WITH DOOR
BUSBAR RATINGS	CURRENT RATING 250 A (OPTION 400 A) NC I_{cw} 25 kA 0.1S, I_{cw} 20 kA 0.3S & 10 kA 1.0S NC I_{cw} 30 kA 0.1S, I_{cw} 25 kA 0.3S
NEUTRAL AND EARTH BAR	CURRENT RATING 250 A M8 STUD TOP AND BOTTOM SPARE 1x16 mm ² & 1x25 mm ² TUNNELS QTY 2x25 mm ² TUNNELS BALANCE 16 mm ² TUNNELS

Notes

The line side is off or bottom of the MCB/RCBO and connects to busbar chassis tee-offs



NO MAIN SWITCH (MILD-STEEL GREY)

POLES	HEIGHT mm	MODULES	CAT. №
24	648	3	CPR-24-G
36	864	4	CPR-36-G
48	864	4	CPR-48-G
60	1080	5	CPR-60-G
72	1296	6	CPR-72-G
84	1296	6	CPR-84-G
96	1512	7	CPR-96-G

CONCEPT ISOLATOR MAIN SWITCH*

POLES	HEIGHT mm	MODULES	160A MAIN SWITCH CAT. №	250A MAIN SWITCH CAT. №
24	648	3	CPR-24M160-G	CPR-24M250-G
36	864	4	CPR-36M160-G	CPR-36M250-G
48	864	4	CPR-48M160-G	CPR-48M250-G
60	1080	5	CPR-60M160-G	CPR-60M250-G
72	1296	6	—	CPR-72M250-G
84	1296	6	—	CPR-84M250-G
96	1512	7	—	CPR-96M250-G

TERASAKI MCCB MAIN SWITCH*

POLES	HEIGHT mm	MODULES	160A (ADJUSTABLE 100-160A) CAT. №	200A (ADJUSTABLE 125-200A) CAT. №
24	648	3	CPR-24MCCB160-G	CPR-24MCCB200-G
36	864	4	CPR-36MCCB160-G	CPR-36MCCB200-G
48	864	4	CPR-48MCCB160-G	CPR-48MCCB200-G
60	1080	5	CPR-60MCCB160-G	CPR-60MCCB200-G
72	1296	6	CPR-72MCCB160-G	CPR-72MCCB200-G
84	1296	6	CPR-84MCCB160-G	CPR-84MCCB200-G
96	1512	7	CPR-96MCCB160-G	CPR-96MCCB200-G

Notes

Width 600mm, depth 240mm including door (20mm) excluding door handle.

*Supplied as a kit (main switch loose).



NO MAIN SWITCH (MILD-STEEL ORANGE)

POLES	HEIGHT mm	MODULES	CAT. №
24	648	3	CPR-24-0
36	864	4	CPR-36-0
48	864	4	CPR-48-0
60	1080	5	CPR-60-0
72	1296	6	CPR-72-0
84	1296	6	CPR-84-0
96	1512	7	CPR-96-0

CONCEPT ISOLATOR MAIN SWITCH*

POLES	HEIGHT mm	MODULES	160A MAIN SWITCH CAT. №	250A MAIN SWITCH CAT. №
24	648	3	CPR-24M160-0	CPR-24M250-0
36	864	4	CPR-36M160-0	CPR-36M250-0
48	864	4	CPR-48M160-0	CPR-48M250-0
60	1080	5	CPR-60M160-0	CPR-60M250-0
72	1296	6	—	CPR-72M250-0
84	1296	6	—	CPR-84M250-0
96	1512	7	—	CPR-96M250-0

TERASAKI MCCB MAIN SWITCH*

POLES	HEIGHT mm	MODULES	160A (ADJUSTABLE 100-160A) CAT. №	200A (ADJUSTABLE 125-200A) CAT. №
24	648	3	CPR-24MCCB160-0	CPR-24MCCB200-0
36	864	4	CPR-36MCCB160-0	CPR-36MCCB200-0
48	864	4	CPR-48MCCB160-0	CPR-48MCCB200-0
60	1080	5	CPR-60MCCB160-0	CPR-60MCCB200-0
72	1296	6	CPR-72MCCB160-0	CPR-72MCCB200-0
84	1296	6	CPR-84MCCB160-0	CPR-84MCCB200-0
96	1512	7	CPR-96MCCB160-0	CPR-96MCCB200-0



NO MAIN SWITCH (STAINLESS STEEL 316)

POLES	HEIGHT mm	MODULES	CAT. № ORANGE	CAT. № NATURAL
24	648	3	CPR-24-SSO	CPR-24-SS
36	864	4	CPR-36-SSO	CPR-36-SS
48	864	4	CPR-48-SSO	CPR-48-SS
60	1080	5	CPR-60-SSO	CPR-60-SS
72	1296	6	CPR-72-SSO	CPR-72-SS
84	1296	6	CPR-84-SSO	CPR-84-SS
96	1512	7	CPR-96-SSO	CPR-96-SS

Notes

Width 600mm, depth 240mm including door (20mm) excluding door handle.

*Supplied as a kit (main switch loose).

Main switches can be purchased separately



400A Main Switch (Mild-Steel Grey)

POLES	POLES (27mm PITCH)	POLES (18mm PITCH)	HEIGHT mm	MODULES	CAT. № GREY
24	—	24	864	4	CPRH-24-M400-G
48	—	48	1080	5	CPRH-48-M400-G
72	—	72	1296	6	CPRH-72-M400-G
96	—	96	1512	7	CPRH-96-M400-G
18	6	12	864	4	CPRH-612-M400-G
42	6	36	1080	5	CPRH-636-M400-G
42	12	30	1080	5	CPRH-1230-M400-G
72	12	60	1512	7	CPRH-1260-M400-G

400A Main Switch (Mild-Steel Orange)

POLES	POLES (27mm PITCH)	POLES (18mm PITCH)	HEIGHT mm	MODULES	CAT. № ORANGE
24	—	24	864	4	CPRH-24-M400-O
48	—	48	1080	5	CPRH-48-M400-O
72	—	72	1296	6	CPRH-72-M400-O
96	—	96	1512	7	CPRH-96-M400-O
18	6	12	864	4	CPRH-612-M400-O
42	6	36	1080	5	CPRH-636-M400-O
42	12	30	1080	5	CPRH-1230-M400-O
72	12	60	1512	7	CPRH-1260-M400-O

Notes

Width 600mm, depth 240mm including door (20mm) excluding door handle.



Concept Premier Accessory Modules–CPRACC

Mounted to either top, bottom or side of Concept Premier panelboard or mounted separately. Earth and neutral bars not included but kits are available.

Horizontal DIN Cutout Escutcheon (Grey or Orange)

POLES	HEIGHT mm	MODULES (QTY)	CAT. № GREY	CAT. № ORANGE
24	432	2	CPRACC-24-G	CPRACC-24-O
48	432	2	CPRACC-48-G	CPRACC-48-O
72	648	3	CPRACC-72-G	CPRACC-72-O

Blank Escutcheon

POLES	HEIGHT mm	MODULES (QTY)	CAT. № GREY	CAT. № ORANGE
–	432	2	CPRACC-2ME-G	CPRACC-2ME-O
–	648	3	CPRACC-3ME-G	CPRACC-3ME-O
–	864	4	CPRACC-4ME-G	CPRACC-4ME-O
–	1080	5	CPRACC-5ME-G	CPRACC-5ME-O
–	1296	6	CPRACC-6ME-G	CPRACC-6ME-O
–	1512	7	CPRACC-7ME-G	CPRACC-7ME-O
–	1728	8	CPRACC-8ME-G	CPRACC-8ME-O
–	1944	9	CPRACC-9ME-G	CPRACC-9ME-O

No Escutcheon

POLES	HEIGHT mm	MODULES (QTY)	CAT. № GREY	CAT. № ORANGE
–	432	2	CPRACC-2M-G	CPRACC-2M-O
–	648	3	CPRACC-3M-G	CPRACC-3M-O

Width 600mm, depth 240mm including door (20mm) excluding door handle.
For stainless modules replace “G” with “SS” for raw stainless steel or “SSO” for stainless steel Orange

EARTH AND NEUTRAL BAR MOUNTING KITS (SINGLE) TO SUIT ACCESSORY MODULES

ITEM DESCRIPTION	CAT. №
24 WAY 250A EARTH & NEUTRAL KIT	CELEN24
36 WAY 250A EARTH & NEUTRAL KIT	CELEN36
48 WAY 250A EARTH & NEUTRAL KIT	CELEN48
60 WAY 250A EARTH & NEUTRAL KIT	CELEN60
72 WAY 250A EARTH & NEUTRAL KIT	CELEN72
84 WAY 250A EARTH & NEUTRAL KIT	CELEN84
96 WAY 250A EARTH & NEUTRAL KIT	CELEN96

EARTH AND NEUTRAL BAR MOUNTING KITS (DUAL BARS - ODD & EVEN) TO SUIT ACCESSORY MODULES

ITEM DESCRIPTION	CAT. №
24 WAY 250A EARTH & NEUTRAL KIT	CPREN24D
36 WAY 250A EARTH & NEUTRAL KIT	CPREN36D
48 WAY 250A EARTH & NEUTRAL KIT	CPREN48D
60 WAY 250A EARTH & NEUTRAL KIT	CPREN60D
72 WAY 250A EARTH & NEUTRAL KIT	CPREN72D
84 WAY 250A EARTH & NEUTRAL KIT	CPREN84D
96 WAY 250A EARTH & NEUTRAL KIT	CPREN96D

GEAR TRAYS

ITEM DESCRIPTION	HEIGHT mm	MODULES (QTY)	CAT. №
WHITE GEAR TRAY	71	0.5	CELAGMS05
WHITE GEAR TRAY	179	1	CELAGMS1
WHITE GEAR TRAY	395	2	CELAGMS2
WHITE GEAR TRAY	611	3	CELAGMS3

ACCESSORIES

ITEM DESCRIPTION	CAT. №
TOP MULLION PLATE	CELAMMS
SEGREGATION BARRIER ALUMINIUM 2mm	CPRASBAL2

MAIN SWITCH KITS

ITEM DESCRIPTION	CAT. №
ISOLATOR SWITCH KIT 160 A 3P	CEL3160MK
ISOLATOR SWITCH KIT 250 A 3P	CEL3250MK
MCCB P250F MAIN SWITCH KIT 3P (ADJUSTABLE 40-63 A)	CELMCCB363
MCCB A250E MAIN SWITCH KIT 3P (ADJUSTABLE 63-100 A)	CELMCCB3100
MCCB A250F MAIN SWITCH KIT 3P (ADJUSTABLE 100-160 A)	CELMCCB3160
MCCB A250F MAIN SWITCH KIT 3P (ADJUSTABLE 125-200 A)	CELMCCB3200

GLAND PLATE

ITEM DESCRIPTION	CAT. №
GLAND PLATE GASKET	CPR-EGGF
GLAND PLATE, MILD STEEL 2.0 mm, ORANGE	CPREGP-MS20R
GLAND PLATE, MILD STEEL 2.0 mm, GREY	CPREGP-MS2SG
GLAND PLATE, STAINLESS STEEL 2.0 mm, ORANGE	CPREGP-SS0211
GLAND PLATE, STAINLESS STEEL 2.0 mm	CPREGP-SS211
GLAND PLATE, ALUMINIUM 3.0 mm	CPREGP-AL3
GLAND PLATE, ALUMINIUM 6.0 mm	CPREGP-AL6
GLAND PLATE, BAKELITE 5.0 mm	CPREGP-BK5
GLAND PLATE, BRASS 3.0 mm	CPREGP-BR3

RAINHOODS

ITEM DESCRIPTION	CAT. № GREY	CAT. № ORANGE
RAINHOOD, SINGLE, MILD STEEL	CPRAR-S-SG	CPRAR-S-OR
RAINHOOD, DOUBLE, MILD STEEL	CPRAR-D-SG	CPRAR-D-OR
RAINHOOD, TRIPLE, MILD STEEL	CPRAR-T-SG	CPRAR-T-OR

For stainless modules replace "SG" with "SS" for raw stainless steel or "SSO" for stainless steel Orange

FLOOR MOUNTING PLINTHS-SINGLE WIDTH

ITEM DESCRIPTION	CAT. №
KIT, SINGLE, 75 mm, HOT DIP GALVANISED	CPRAP-S-GAL
KIT, DOUBLE, 75 mm, HOT DIP GALVANISED	CPRAP-D-GAL
KIT, TRIPLE, 75 mm, HOT DIP GALVANISED	CPRAP-T-GAL

For stainless modules replace "GAL" with "SS" for raw stainless steel or "SSO" for stainless steel Orange

DOOR HANDLES

ITEM DESCRIPTION	CAT. №
DOOR SWING HANDLE CL001	CELHDSZPSC
DOOR SWING HANDLE 92268	CELHDSZS9
DOOR SWING HANDLE PAD LOCKABLE	CELHDSZPP
DOOR SWING HANDLE E-KEY "PWD"	CELHDSZBE
DOOR SWING HANDLE NON LOCKABLE	CELHDSZNKIT
DOOR SWING HANDLE 7mm SQUARE	CELHDSZQ7KIT
DOOR SWING HANDLE CL001 STAINLESS STEEL	CELHDSSPSC
DOOR SWING HANDLE 92268 STAINLESS STEEL	CELHDSSS9
DOOR SWING HANDLE PAD LOCKABLE STAINLESS STEEL	CELHDSSPP
DOOR SWING HANDLE E-KEY "PWD" STAINLESS STEEL	CELHDSSBE
DOOR HANDLE CAM ROLLER - THREE POINT	CELHCRP21C60
DOOR HANDLE CAM ROLLER - SINGLE POINT	CELHCRP21A60

General Accessories

ITEM DESCRIPTION	CAT. №
EMERGENCY LIGHTING TEST KIT (PUSHBUTTON SWITCH)	CELAELK1W
EMERGENCY LIGHTING TEST KIT (KEY SWITCH)	CELAELK2W
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 1 CHANNEL 2N/O 25A	CELEXTLKC
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 1 CHANNEL 2N/O 25A	CELEXTLK1
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 2 CHANNEL 4N/O 25A	CELEXTLK2
SURGE KIT 40kA MCB + SURGE DIVERter TYPE 2 + WIRING LOOM	CELSURGEK1
SAFETY SERVICE MECHANICAL SEPARATION KIT 1 POLE	CELASSED1
SAFETY SERVICE MECHANICAL SEPARATION KIT 2 POLE	CELASSED2
SAFETY SERVICE MECHANICAL SEPARATION KIT 3 POLE	CELASSED3
WALL MOUNTING KIT BLACK	CELABGBBK
SCHEDULE CARD	CPSCHEDULECARD
SCHEDULE CARD HOLDER (FLAT)	CELACPA4
DOOR STICKER SET	LBLPWBKACC
7mm DEEP SCHEDULE CARD HOLDER	CELACMSA4
30mm DEEP SCHEDULE CARD HOLDER ORANGE	CELACMSA430R
DOOR HINGE REVERSAL KIT (RH TO LH)	CELAKDHR
TOUCH UP PAINT GREY	392P35554
TOUCH UP PAINT ORANGE	392P35555
KEY CL001 (SET OF 2)	KEYCL001
KEY 92268	KEY92268
ESCUTCHEON SCREW	FXSM5TX10HD12Z
DUCT SUPPORT	CELSU
NEUTRAL BAR EXTENSION	CELBECB4

Escutcheon labels

ITEM DESCRIPTION	CAT. №
LABEL ESCUTCHEON LEGEND 1-24 DIN-T	LABLEG124D
LABEL ESCUTCHEON LEGEND 1-36 DIN-T	LABLEG136D
LABEL ESCUTCHEON LEGEND 1-48 DIN-T	LABLEG148D
LABEL ESCUTCHEON LEGEND 1-60 DIN-T	LABLEG160D
LABEL ESCUTCHEON LEGEND 1-72 DIN-T	LABLEG172D
LABEL ESCUTCHEON LEGEND 1-84 DIN-T	LABLEG184D
LABEL ESCUTCHEON LEGEND 1-96 DIN-T	LABLEG196D
LABEL ESCUTCHEON LEGEND 97-144 DIN-T	390P00007
LABEL ESCUTCHEON LEGEND 1-24 DIN-T10H (27 mm)	390P00006

Locking rods

ITEM DESCRIPTION	CAT. №
LOCKING ROD TO SUIT 3M 648 mm	CELDLR3MS
LOCKING ROD TO SUIT 4M 864 mm	CELDLR4MS
LOCKING ROD TO SUIT 5M 1080 mm	CELDLR5MS
LOCKING ROD TO SUIT 6M 1296 mm	CELDLR6MS
LOCKING ROD TO SUIT 7M 1512 mm	CELDLR7MS
LOCKING ROD TO SUIT 8M 1728 mm	CELDLR8MS
LOCKING ROD TO SUIT 9M 1944 mm	CELDLR9MS

Flush Mounting Kit

MODULES	HEIGHT mm	CAT. № GREY	CAT. № ORANGE
2	432	CELAFK-2-SG	CELAFK-2-OR
3	648	CELAFK-3-SG	CELAFK-3-OR
4	864	CELAFK-4-SG	CELAFK-4-OR
5	1080	CELAFK-5-SG	CELAFK-5-OR
6	1296	CELAFK-6-SG	CELAFK-6-OR
7	1512	CELAFK-7-SG	CELAFK-7-OR
8	1728	CELAFK-8-SG	CELAFK-8-OR
9	1944	CELAFK-9-SG	CELAFK-9-OR

Concept Tough

Heavy Duty Panelboards

DIN-T Enclosures Panelboards

- Standard AS/NZS 61439.3
- IP66 rating
- 2mm fully welded construction
- 4 sizes 500 mm-2000 mm
- 24-96 poles
- Compact 160 A - 250 A main switch or 63 A - 200 A MCCB
- Knockouts for up to 18 modules of extra DIN rail equipment
- Stainless Steel or mild steel construction
- Dual earth/neutral bars
- Door stay
- Comes in Orange and brushed stainless steel finish
- Features 30° sloped roof
- Pad lockable handle with 3 point locking
- Generous space between door and escutcheon
- Space for multiple lock off devices



Application

The Concept Tough Panelboard offers a range of heavy duty IP66 panelboards suited for extreme outdoor applications in the industrial and mining sectors.

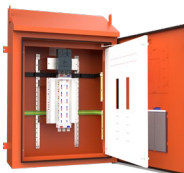
The Concept Tough panelboard range is constructed from fully welded 2 mm mild steel or 316 marine grade stainless steel for those extra tough environments. Concept Tough has all the features of Concept Premier plus more including an increase in depth, width and material thickness for extra strength.

Technical Data

MATERIAL TYPE	2.0 mm MILD STEEL OR STAINLESS STEEL ENCLOSURE 1.6 mm MILD STEEL ESCUTCHEON
FINISH	TEXTURED POLYESTER POWDER COATED
COLOUR	ENCLOSURE-ORANGE (X15) ENCLOSURE-RAW BRUSHED ESCUTCHEON-BRIGHT WHITE GLOSS
PROTECTION DEGREE	IP2XC WITHOUT DOOR IP66 WITH DOOR
BUSBAR RATINGS	CURRENT RATING 250A (OPTION 400A) NC I _{cw} 25 kA 0.1S, I _{cw} 20 kA 0.3S & 10 kA 1.0S NC I _{cw} 30 kA 0.1S, I _{cw} 25 kA 0.3S
NEUTRAL AND EARTH BAR	CURRENT RATING 250 A M8 STUD TOP AND BOTTOM SPARE 1x16 mm ² & 1x25 mm ² TUNNELS QTY 2x25 mm ² TUNNELS BALANCE 16 mm ² TUNNELS

Notes

- The line side is off or bottom of the MCCB/RCBO and connects to busbar chassis tee-offs



MILD STEEL ORANGE

POLES	HEIGHT mm	MODULES	NO MAIN SWITCH CAT. №	250A MAIN SWITCH CAT. №
24	1000 + 200	2	CTO-24-O	CTO-24-M250-O
36	1000 + 200	2	CTO-36-O	CTO-36-M250-O
48	1000 + 200	2	CTO-48-O	CTO-48-M250-O
60	1500 + 200	3	—	CTO-60-M250-O
72	1500 + 200	3	—	CTO-72-M250-O
84	1500 + 200	3	—	CTO-84-M250-O
96	1500 + 200	3	—	CTO-96-M250-O

STAINLESS STEEL ORANGE

POLES	HEIGHT mm	MODULES	NO MAIN SWITCH CAT. №	250A MAIN SWITCH CAT. №
24	1000 + 200	2	CTO-24-SSO	CTO-24-M250-SSO
36	1000 + 200	2	CTO-36-SSO	CTO-36-M250-SSO
48	1000 + 200	2	CTO-48-SSO	CTO-48-M250-SSO
60	1500 + 200	3	—	CTO-60-M250-SSO
72	1500 + 200	3	—	CTO-72-M250-SSO
84	1500 + 200	3	—	CTO-84-M250-SSO
96	1500 + 200	3	—	CTO-96-M250-SSO

STAINLESS STEEL RAW

POLES	HEIGHT mm	MODULES	NO MAIN SWITCH CAT. №	250A MAIN SWITCH CAT. №
24	1000 + 200	2	CTO-24-SS	CTO-24-M250-SS
36	1000 + 200	2	CTO-36-SS	CTO-36-M250-SS
48	1000 + 200	2	CTO-48-SS	CTO-48-M250-SS
60	1500 + 200	3	—	CTO-60-M250-SS
72	1500 + 200	3	—	CTO-72-M250-SS
84	1500 + 200	3	—	CTO-84-M250-SS
96	1500 + 200	3	—	CTO-96-M250-SS

Notes

- Width 800mm excluding mounting tags, depth 350mm including door, excluding door handle

CONCEPT TOUGH ACCESSORY MODULES- CTOACC

ESCUTCHEON CUTOUT	HEIGHT mm	MODULES	CAT. №
BLANK	500 + 200	1	CTOACCO
2 X 24WAY	500 + 200	1	CTOACC480

GEAR TRAYS

SIZE	HEIGHT mm	CAT. №
0.5	107	CTOAGMS05
1	251	CTOAGMS1
2	503	CTOAGMS2
3	755	CTOAGMS3

Size 1 gear tray suits 500mm accessory module

GLAND PLATE

ITEM DESCRIPTION	CAT. №
GLAND PLATE GASKET	CTOEGGF
GLAND PLATE, ALUMINIUM 6 mm	CTOEGPAL6
GLAND PLATE, BRASS 6 mm	CTOEGPBR6

PLINTH	100mm CAT. №	300mm CAT. №	500mm CAT. №
GALVANISED	CTOAPS1GAL	CTOAPS3GAL	CTOAPS5GAL
STAINLESS STEEL ORANGE	CTOAPS1SSO	CTOAPS3SSO	CTOAPS5SSO
STAINLESS STEEL RAW	CTOAPS1SS	CTOAPS3SS	CTOAPS5SS

ACCESSORIES CONTINUED

MAIN SWITCH KITS		CAT. No
ISOLATOR SWITCH KIT 160 A 3P		CEL3160MK
ISOLATOR SWITCH KIT 250 A 3P		CEL3250MK
MCCB P250F MAIN SWITCH KIT 3P (ADJUSTABLE 40-63 A)		CELMCCB363
MCCB A250E MAIN SWITCH KIT 3P (ADJUSTABLE 63-100 A)		CELMCCB3100
MCCB A250F MAIN SWITCH KIT 3P (ADJUSTABLE 100-160 A)		CELMCCB3160
MCCB A250F MAIN SWITCH KIT 3P (ADJUSTABLE 125-200 A)		CELMCCB3200
DOOR HANDLE	MATERIAL	CAT. No
L HANDLE PAD LOCKABLE	SATIN CHROME	LHANDLEPCH
L HANDLE PAD LOCKABLE	STAINLESS STEEL	LHANDLEPSS
DOOR LOCK CAM		CTOHCPR24C60
LOCKING RODS		CAT. No
LOCKING ROD TO SUIT 2M 1000 mm		CTOSLR2MS
LOCKING ROD TO SUIT 3M 1500 mm		CTOSLR3MS
LOCKING ROD TO SUIT 4M 2000 mm		CTOSLR4MS
GENERAL ACCESSORIES		CAT. No
EMERGENCY LIGHTING TEST KIT (PUSHBUTTON SWITCH)		CELAELK1W
EMERGENCY LIGHTING TEST KIT (KEY SWITCH)		CELAELK2W
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 1 CHANNEL 2N/O 25A		CELEXTLKC
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 1 CHANNEL 2N/O 25A		CELEXTLK1
EXTERNAL LIGHT CONTROL KIT ON-OFF-AUTO SWITCH, 2 CHANNEL 4N/O 25A		CELEXTLK2
SURGE KIT 40kA MCB + SURGE DIVERter TYPE 2 + WIRING LOOM		CELSURGEK1
SAFETY SERVICE MECHANICAL SEPARATION KIT 1 POLE		CELASSED1
SAFETY SERVICE MECHANICAL SEPARATION KIT 2 POLE		CELASSED2
SAFETY SERVICE MECHANICAL SEPARATION KIT 3 POLE		CELASSED3
SCHEDULE CARD		CPSCHEDULECARD
SCHEDULE CARD HOLDER (FLAT)		CELACPA4
DOOR STICKER SET		LBLPWBKACC
7mm DEEP SCHEDULE CARD HOLDER		CELACMSA4
30mm DEEP SCHEDULE CARD HOLDER ORANGE		CELACMSA430R
TOUCH UP PAINT ORANGE		392P35555
DUCT SUPPORT		CELSU
NEUTRAL BAR EXTENSION		CELBECB4

Rapid Test

Smart RCD Testing

DIN-T Enclosures
Rapid Test

- DIN mount
- Point to point WIFI RCD testing
- 110V and 240V control voltage
- Test 10-500mA RCDs
- Optional lock out switch
- Password protected
- RCD testing without exposure to live parts
- Automated test report
- Retrofit kits



	CAT. No : NRTMC8F5	CAT. No : NRTRB24F
TYPE	COMBO	CHANNEL *
CONNECTION	WI-FI	N/A
CONTROL VOLTAGE V AC	110/240	110/240
MIN $I_{\Delta n}$	10mA	10mA
MAX $I_{\Delta n}$ 100% TEST	500mA	500mA
MAX $I_{\Delta n}$ 500% TEST	30mA	30mA
NO CHANNELS	8	24
WIDTH	204mm	204mm
HEIGHT	120mm	86mm

Accessories

DESCRIPTION	CAT. No
STACKING BRACKET TO SUIT COMBO AND CHANNEL UNIT (PAIR)	USBL
STICKER SET 10 PACK	RT005
RJ12 DUST COVER	RTSDC
COMMUNICATION CABLE 100mm, 300mm & 500mm	FLx00
COMMUNICATION CABLE 1000mm, 1500mm, 2000mm, 3000mm, 4000mm	FLxx00
VERIFICATION LEAD	VTL
VERIFICATION SOCKET	VTS

*must be used with combo unit

Rapid Test

Retrofit Kits

- Insulated Fibox option
- Concept Plus IP42 option
- Concept Premier IP66 option
- Concept Premier with loom IP33 option
- Lockout switch
- Wake up button
- 32-55 channels
- Custom option on inquiry
- Quick connect to terminals



Rapid Test Retrofit Production Selection Table

	NRTRFPC32CL	NRTRFCPL55G OR NRTRFCPL550 ¹⁾	NRTRFCPR55G OR NRTRFCPR550 ¹⁾	NRTRFCPR55L5G or NRTRFCPR55L50 ¹⁾
ENCLOSURE	FIBOX INSULATED	CONCEPT PLUS	CONCEPT PREMIER	CONCEPT PREMIER
MATERIAL	PC	1.6 MILD STEEL	1.6 MILD STEEL	1.6 MILD STEEL
IP RATING	66	42	66	33
RCD CHANNELS	32	55	55	55
COLOUR	TRANSPARENT	GREY OR ORANGE	GREY OR ORANGE	GREY OR ORANGE
WIDTH	380mm	600mm	600mm	600mm
HEIGHT*	560mm	432mm	432mm	432mm
DEPTH*	200mm	200mm	240mm	240mm
CONNECTIONS	2.5mm ² CABLE WITH 4mm TERMINALS	2.5mm ² CABLE WITH 4mm TERMINALS	2.5mm ² CABLE WITH 4mm TERMINALS	5m LOOM 2.5mm ² CABLE

Kit includes:

Lock Out Key Switch, Wi-Fi Wake Up Pushbutton and Test/Verification Port.
Test/Verification Port on Concept Plus and Premier models only.

Notes *excludes door handle and wiring loom

1. G for Grey or O for Orange enclosure
2. For other configurations contact NHP



Earth & Neutral Bars

250A

DIN-T Enclosures
Accessories

- Fully rated 250 A
- Brass bar
- Standard numbering or odd and even bars
- 12 way through 96 way
- Dual screw
- 1 x M8 stud top (Y1)
- 1 x 6mm, 1 x 5mm auxiliary tunnel terminals (A & B)
- 1 x 6mm Side mount thread (Y2)
- 2 x 7mm tunnel terminals balance 6mm
- 1 x M8 stud bottom (Y3)



250 A standard numbering

NUMBERED TUNNEL TERMINALS	NUMBERS	TOTAL LENGTH mm	CAT. №
12	1-12	178	CELBNC-12-A2
24	1-24	268	CELBNC-24-A2
36	1-36	340	CELBNC-36-A2
48	1-48	430	CELBNC-48-A2
60	1-60	520	CELBNC-60-A2
72	1-72	610	CELBNC-72-A2
84	1-84	718	CELBNC-84-A2
96	1-96	790	CELBNC-96-A2

250 A ODDs and EVENs numbering

NUMBERED TUNNEL TERMINALS	NUMBERS ODD/EVEN	TOTAL LENGTH mm	EVEN NUMBERING CAT. №	ODD NUMBERING CAT. №
12	1-23, 2-24	178	CELBNC-12-B2	CELBNC-12-C2
18	1-35, 2-36	232	CELBNC-18-B2	CELBNC-18-C2
24	1-47, 2-48	268	CELBNC-24-B2	CELBNC-24-C2
30	1-59, 2-60	304	CELBNC-30-B2	CELBNC-30-C2
36	1-71, 2-72	340	CELBNC-36-B2	CELBNC-36-C2
42	1-83, 2-84	394	CELBNC-42-B2	CELBNC-42-C2
48	1-95, 2-96	430	CELBNC-48-B2	CELBNC-48-C2

Earth & Neutral Bars

400A

4

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- Fully rated 400 A
- Brass bar
- Standard numbering or odd and even bars
- 6 way through 96 way
- Dual screw
- 1 x M10 stud top (Y1)
- 1 auxiliary tunnel terminals (A)
- 3 x M8 Side mount threads (Y2-Y4)
- 2 x M8 studs
- 12 x 7mm tunnel terminals balance 6mm
- 1 x M10 stud bottom (Y5)



400 A standard numbering

NUMBERED M8 STUDS	NUMBERED TUNNEL TERMINALS	NUMBERS	TOTAL LENGTH mm	CAT. №
2	10	1-12	252	CELBNG-12-A2
2	22	1-24	342	CELBNG-24-A2
2	34	1-36	432	CELBNG-36-A2
2	46	1-48	522	CELBNG-48-A2
2	58	1-60	612	CELBNG-60-A2
2	70	1-72	684	CELBNG-72-A2
2	82	1-84	774	CELBNG-84-A2
2	94	1-96	864	CELBNG-96-A2

400 A ODDs and EVENs numbering

NUMBERED M8 STUDS	NUMBERED TUNNEL TERMINALS	NUMBERS ODD/ EVEN	TOTAL LENGTH mm	EVEN NUMBERING CAT. №	ODD NUMBERING CAT. №
2	10	1-23, 2-24	252	CELBNG-12-B2	CELBNG-12-C2
2	16	1-35, 2-36	306	CELBNG-18-B2	CELBNG-18-C2
2	22	1-47, 2-48	342	CELBNG-24-B2	CELBNG-24-C2
2	28	1-59, 2-60	396	CELBNG-30-B2	CELBNG-30-C2
2	34	1-71, 2-72	432	CELBNG-36-B2	CELBNG-36-C2
2	40	1-83, 2-84	468	CELBNG-42-B2	CELBNG-42-C2
2	46	1-95, 2-96	522	CELBNG-48-B2	CELBNG-48-C2

Earth & Neutral Bars

400 A E&N Bars

DIN-T Enclosures

Accessories

- Fully rated 400 A
- 8 way and 16 way
- 2 x M10 top (Y1-Y2)
- M8 Studs
- 1 x M10 stud bottom (Y3)



400 A standard numbering

NUMBERED M8 STUDS	NUMBERS	TOTAL LENGTH mm	CAT. №
8	1-8	342	CELBNG-08-A1
16	1-16	342	CELBNG-16-A1

Earth & Neutral Bars

Accessories and Kits

4

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Concept Plus and Premier E/N kits (single) to suit Accessory Modules

ITEM DESCRIPTION	CAT. No
24WAY 250 A EARTH & NEUTRAL KIT	CELEN24
36WAY 250 A EARTH & NEUTRAL KIT	CELEN36
48WAY 250 A EARTH & NEUTRAL KIT	CELEN48
60WAY 250 A EARTH & NEUTRAL KIT	CELEN60
70WAY 250 A EARTH & NEUTRAL KIT	CELEN70
84WAY 250 A EARTH & NEUTRAL KIT	CELEN84
96WAY 250A EARTH & NEUTRAL KIT	CELEN96

Concept Plus E/N kits (dual bars -odd & even) to suit Accessory Modules

ITEM DESCRIPTION	COLOUR
24WAY 250 A EARTH & NEUTRAL KIT	CPLEN24D
36WAY 250 A EARTH & NEUTRAL KIT	CPLEN36D
48WAY 250 A EARTH & NEUTRAL KIT	CPLEN48D
60WAY 250 A EARTH & NEUTRAL KIT	CPLEN60D
70WAY 250 A EARTH & NEUTRAL KIT	CPLEN70D
84WAY 250 A EARTH & NEUTRAL KIT	CPLEN84D
96WAY 250 A EARTH & NEUTRAL KIT	CPLEN96D

Concept Premier E/N kits (dual bars -odd & even) to suit Accessory Modules

ITEM DESCRIPTION	COLOUR
24WAY 250 A EARTH & NEUTRAL KIT	CPREN24D
36WAY 250 A EARTH & NEUTRAL KIT	CPREN36D
48WAY 250 A EARTH & NEUTRAL KIT	CPREN48D
60WAY 250 A EARTH & NEUTRAL KIT	CPREN60D
70WAY 250 A EARTH & NEUTRAL KIT	CPREN70D
84WAY 250 A EARTH & NEUTRAL KIT	CPREN84D
96WAY 250 A EARTH & NEUTRAL KIT	CPREN96D

General Accessories

ITEM DESCRIPTION	COLOUR
CONCEPT PLUS AND PREMIER NEUTRAL BAR SUPPORT MOULDING	CELSNM517
BLACK NEUTRAL BAR SUPPORT PAIR	TGPINS
BRASS EXTENSION BAR SUIT 250A BARS (1X 240mm, 1X 150mm, 2X 120mm LUGS)	CELBECB4
COPPER INLINE OR SIDE MOUNT DROPPER CONNECTION TAG 250A (3 X 120mm LUGS)	CELBTC1EZ
COPPER SIDE MOUNT DROPPER CONNECTION TAG 250A (2 X 120mm LUGS)	CELBTC1CC
COPPER SIDE MOUNT DROPPER CONNECTION TAG 400A (2X 240mm LUGS)	CELBTG1CC

Powermax Chassis

NC Busbar Chassis Assemblies

DIN-T Enclosures
Accessories

- Standard AS/NZS 61439
- Encapsulated busbar (no insulating coatings)
- Main bar current rating 250 A or 400 A
- 50% tee-off capped
- Direct connect to 160 A or 250 A main switch
- Models from 6 to 108 poles
- Withstand ratings 250 A 25 kA 0.1 s (10 kA 1.0 s)
- Withstand ratings 400 A 30 kA 0.1 s (13 kA 1.0 s)
- Suits DIN-T MCBs and RCBOs



Application

The POWERMAX range of busbar chassis assemblies have been specifically designed for incorporating into the Concept family of panelboards, providing a secure mounting platform and connection system for the NHP Din-T range of MCBs. The busbars are fully enclosed therefore not requiring an insulated coating for electrical isolation. The new NC chassis are type tested and mounted on a box section steel pan, powder-coated white.

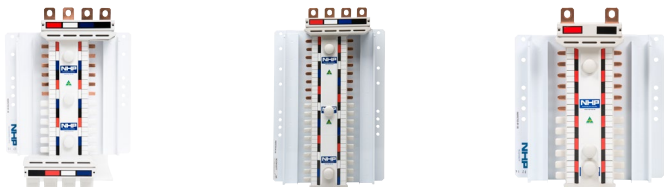
250 A Chassis 3P –Suits Din-T MCBs (18 mm pole pitch)

POLE CAPACITY	CUT-OUT LENGTH mm	PAN HEIGHT mm	3P UNIVERSAL FEED CAT. №	3P TOP FEED CAT. №
12	110	134	NC2-12-183U	NC2-12-183TF
18	165	188	NC2-18-183U	NC2-18-183TF
24	218	242	NC2-24-183U	NC2-24-183TF
30	272	296	NC2-30-183U	NC2-30-183TF
36	326	350	NC2-36-183U	NC2-36-183TF
42	380	404	NC2-42-183U	NC2-42-183TF
48	434	458	NC2-48-183U	NC2-48-183TF
54	488	512	NC2-54-183U	NC2-54-183TF
60	542	566	NC2-60-183U	NC2-60-183TF
72	650	674	NC2-72-183U	NC2-72-183TF
78	704	728	NC2-78-183U	NC2-78-183TF
84	758	782	NC2-84-183U	NC2-84-183TF
96	866	890	NC2-96-183U	NC2-96-183TF

For a bottom feed chassis replace "TF" with "BF" in the cat number

Notes

- Add 40 mm for flared busbar at top and 56 mm for bottom of chassis
- Combinations other than those listed above can be special ordered refer to NHP
- Line side is off or bottom of the MCB/RCBO and connects to busbar chassis tee-offs



250 A CHASSIS 4P-SUITS DIN-T 2P MCBS OR DTRD RCBOS (18 mm POLE PITCH)

POLE CAPACITY	CUT-OUT 'C' LENGTH mm	PAN HEIGHT mm	4P UNIVERSAL FEED CAT. №	4P TOP FEED CAT. №
24	218	242	NC2-24-184U	NC2-24-184TF
36	326	350	NC2-36-184U	NC2-36-184TF
48	434	458	NC2-48-184U	NC2-48-184TF
60	542	566	NC2-60-184U	NC2-60-184TF
72	650	674	NC2-72-184U	NC2-72-184TF

Chassis colours-Red-Black, White-Black, Blue-Black.

For a bottom feed chassis replace "TF" with "BF" in the cat number.

250 A CHASSIS 3P+N-SUITS DIN-T 4P MCBS (18 mm POLE PITCH)

POLE CAPACITY	CUT-OUT 'C' LENGTH mm	PAN HEIGHT mm	3P+N UNIVERSAL FEED CAT. №	4P TOP FEED CAT. №
24	218	242	NC2-24-183PNU	NC2-24-183PNTF
48	434	458	NC2-48-183PNU	NC2-48-183PNTF
72	650	674	NC2-72-183PNU	NC2-72-183PNTF
96	866	890	NC2-96-183PNU	NC2-96-183PNTF

Chassis colours-Red, White, Blue, Black

For a bottom feed chassis replace "TF" with "BF" in the cat number

250 A CHASSIS 1P+N (DC) OR (2P AC)-SUITS DIN-T 2P DC OR AC MCBS (18 mm POLE PITCH)

POLE CAPACITY	CUT-OUT 'C' LENGTH mm	PAN HEIGHT mm	3P+N UNIVERSAL FEED CAT. №	4P TOP FEED CAT. №
24	218	242	NC2-24-182U	NC2-24-182TF
36	326	350	NC2-36-182U	NC2-36-182TF
48	434	458	NC2-48-182U	NC2-48-182TF
60	542	566	NC2-60-182U	NC2-60-182TF

Chassis colour-Red-Black

For a bottom feed chassis replace "TF" with "BF" in the cat number

Notes

- Add 40 mm for flared busbar at top and 56 mm for bottom of chassis
- Line side is off or bottom of the MCB/RCBO and connects to busbar chassis tee-offs

400 A Chassis 3P-Suits Din-T MCBs (18 mm pole pitch)

POLE CAPACITY	CUT-OUT LENGTH mm	PAN HEIGHT mm	3P UNIVERSAL FEED CAT. №	3P TOP FEED CAT. №
12	110	134	NC4-12-183U	NC4-12-183TF
18	164	188	NC4-18-183U	NC4-18-183TF
24	218	242	NC4-24-183U	NC4-24-183TF
30	272	296	NC4-30-183U	NC4-30-183TF
36	326	350	NC4-36-183U	NC4-36-183TF
42	380	404	NC4-42-183U	NC4-42-183TF
48	434	458	NC4-48-183U	NC4-48-183TF
54	488	512	NC4-54-183U	NC4-54-183TF
60	542	566	NC4-60-183U	NC4-60-183TF
72	650	674	NC4-72-183U	NC4-72-183TF
78	704	728	NC4-78-183U	NC4-78-183TF
84	758	782	NC4-84-183U	NC4-84-183TF
96	866	890	NC4-96-183U	NC4-96-183TF
108	974	998	—	NC4-108-183TF

For a bottom feed chassis replace “TF” with “BF” in the cat number

400 A Chassis 3P-Suits Din-T DTMH MCBs (27 mm pole pitch)

POLE CAPACITY	CUT-OUT 'C' LENGTH mm	PAN HEIGHT mm	3P UNIVERSAL FEED CAT. №	3P TOP FEED CAT. №
6	84	107	NCH4-6-273U	NCH4-6-273TF
12	165	188	NCH4-12-273U	NCH4-12-273TF
18	244	267	NCH4-18-273U	NCH4-18-273TF
24	327	350	NCH4-24-273U	NCH4-24-273TF

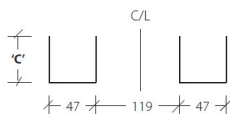
For a bottom feed chassis replace “TF” with “BF” in the cat number

400 A Chassis 3P-Suits Din-T MCBs and Din-T DTMH MCBs (27/18 mm pole pitch)

POLE CAPACITY 27 mm	POLE CAPACITY 18 mm	CUT-OUT 'C' LENGTH mm	PAN HEIGHT mm	3P UNIVERSAL FEED CAT. №	3P TOP FEED CAT. №
6	12	192	215	NCH4-6-12-27183U	NCH4-6-12-27183TF
6	24	300	323	NCH4-6-24-27183U	NCH4-6-24-27183TF
6	36	408	431	NCH4-6-36-27183U	NCH4-6-36-27183TF
6	48	516	539	NCH4-6-48-27183U	NCH4-6-48-27183TF
12	30	435	458	NCH4-12-30-27183U	NCH4-12-30-27183TF
12	42	543	566	NCH4-12-42-27183U	NCH4-12-42-27183TF
12	60	705	728	NCH4-12-60-27183U	NCH4-12-60-27183TF

For a bottom feed chassis replace “TF” with “BF” in the cat number

Escutcheon critical cut-out dimensions



Accessories for NC chassis –General accessories

DESCRIPTION	CAT. No
TEE-OFF CAP (18 mm TEE-OFF)	NC250TOPC
TEE-OFF CAP (27 mm TEE-OFF)	NC250HTOPC
TEE-OFF CAP 400A (18 mm TEE-OFF)	NC400TOPC
BUSBAR CAP (EACH)	NCBBC
LABEL 24 POLE (RED, WHITE, BLUE)	NCL243
LABEL 24 POLE (RED, WHITE, BLUE, BLACK)	NCL244
LABEL 24 POLE BLANK (CUSTOMISABLE)	NCL24C
LABEL 12 POLE (RED, WHITE, BLUE) 27 mm PITCH	NCH123

Accessories for NC chassis –Connection Kits

DESCRIPTION	CAT. No
MCCB 160/250 DIRECT CONNECT TO NC CHASSIS 3P	CELNCCCK3D
MCCB 160/250 DIRECT CONNECT TO NC CHASSIS 4P	NCCK2004P
MCCB 160/250 TAG CONNECT TO NC CHASSIS 3P	NCCK3250
MCCB 400 TAG CONNECT TO NC CHASSIS	NCCK400

Powermax Chassis

GB Isolation Busbar Chassis Assemblies

DIN-T Enclosures Accessories

- Standard AS/NZS 61439
- Isolator switch per tee-off
- Encapsulated busbar (no insulating coatings)
- Main bar current rating 250 A
- 50% tee-off capped
- Direct connect to 160 A or 250 A main switch
- Withstand rating 25 kA 0.1s (10 kA 1.0 s)
- IP20 with 160 A and 250 A main switch - touch protection
- IP20 connection kits to 250 A MCCB - touch protection
- Captive padlock option
- Interchangeable with NC chassis allows boards to be upgradable
- Suits DIN-T MCBs and RCBs



Application

The POWERMAX GB range of encapsulated isolation busbar chassis provides a secure platform and connection system for the NHP DIN-T range of MCBs and RCBs. Each tee-off has an colour coded 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 short circuit 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-SUITS DIN-T MCBs (18 mm POLE PITCH)

POLE CAPACITY	CUT-OUT LENGTH mm	PAN HEIGHT mm	3P UNIVERSAL FEED CAT. No	3P TOP FEED CAT. No
12	110	134	GB2-12-183U	GB2-12-183TF
24	218	242	GB2-24-183U	GB2-24-183TF
36	326	350	GB2-36-183U	GB2-36-183TF
48	434	458	GB2-48-183U	GB2-48-183TF
60	542	566	GB2-60-183U	GB2-60-183TF
72	650	674	GB2-72-183U	GB2-72-183TF
84	758	782	GB2-84-183U	GB2-84-183TF
96	866	890	GB2-96-183U	GB2-96-183TF

For a bottom feed chassis replace "TF" with "BF" in the cat number

GB CHASSIS 3P+N POLE-SUITS DIN-T MCBs (18 mm POLE PITCH)

POLE CAPACITY	CUT-OUT LENGTH mm	PAN HEIGHT mm	3P UNIVERSAL FEED CAT. No	3P TOP FEED CAT. No
24	218	242	GB2-24-183PNU	GB2-24-183PNTF
48	434	458	GB2-48-183PNU	GB2-48-183PNTF
72	650	674	GB2-72-183PNU	GB2-72-183PNTF
96	866	890	GB2-96-183PNU	GB2-96-183PNTF

Chassis colours-Red, White, Blue, Black

For a bottom feed chassis replace "TF" with "BF" in the cat. number

GB CHASSIS 4 POLE-SUITS DIN-T 2P MCBS (18 mm POLE PITCH)

POLE CAPACITY	CUT-OUT LENGTH mm	PAN HEIGHT mm	4P UNIVERSAL FEED CAT. №	4P TOP FEED CAT. №
24	218	242	GB2-24-184U	GB2-24-184TF
48	434	458	GB2-48-184U	GB2-48-184TF
72	650	674	GB2-72-184U	GB2-72-184TF
96	866	890	GB2-96-184U	GB2-96-184TF
60	542	566	GB2-60-183U	GB2-60-183TF
72	650	674	GB2-72-183U	GB2-72-183TF
84	758	782	GB2-84-183U	GB2-84-183TF
96	866	890	GB2-96-183U	GB2-96-183TF

Chassis colours-Red-Black, White-Black, Blue-Black

For a bottom feed chassis replace "TF" with "BF" in the cat number

GB CHASSIS 1P/2P POLE-SUITS 1P MCBS

№ OF POLES	POLE CAPACITY	CUT-OUT LENGTH mm	PAN HEIGHT mm	1P/2P UNIVERSAL FEED CAT. №	1P/2P TOP FEED CAT. №
1P	24	218	242	GB2-24-181U	GB2-24-181TF
1P	48	434	458	GB2-48-181U	GB2-48-181TF
1P	72	650	674	GB2-72-181U	GB2-72-181TF
2P	24	218	242	GB2-24-182U	GB2-24-182TF
2P	48	434	458	GB2-48-182U	GB2-48-182TF
2P	72	650	674	GB2-72-182U	GB2-72-182TF

For a bottom feed chassis replace "TF" with "BF" in the cat number

Accessories

DESCRIPTION	CAT. №
TOGGLE BAR 1-POLE	GBTB1
TOGGLE BAR 2-POLE	GBTB2
TOGGLE BAR 3-POLE	GBTB3
TOGGLE BAR 4-POLE	GBTB4
PADLOCK MECHANISM LH & RH SIDE (SUIT 1P MCBS OR 2-3P MCBS WITH TOGGLE JOINING BARS)	GBLM
PADLOCK MECHANISM LH & RH SIDE (SUIT 4P MCBS WITH TOGGLE JOINING BARS)	GBLM2P
TEE-OFF CAP	GBTOC
BUSBAR CAP SUIT MAIN BUSBAR	GBBBC
DIN PROFILE TERMINAL (TO REMOTELY FEED DIN10H 80-100A)	DTAM100
DIN PROFILE POLE FILLER (DUMMY MODULE)	DTADM
ESCUTCHEON LABEL 1-47 ODD NUMBERS	GBL148L
ESCUTCHEON LABEL 2-48 EVEN NUMBERS	GBL148R
ESCUTCHEON LABEL 49-95 ODD NUMBERS	GBL4996L
ESCUTCHEON LABEL 50-96 EVEN NUMBERS	GBL4996R
MCCB 160/250 DIRECT CONNECT TO NC CHASSIS 3P	CELGBCK3D
MCCB 160/250 DIRECT CONNECT TO NC CHASSIS 4P	GBCK2004P

TemBreak PRO MCCBs

5

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SERIES	A	P
	BASIC APPLICATIONS	MID TO ADVANCED APPLICATIONS
		
AMPERE FRAME	160 A, 250 A	160 A, 250 A, 400 A, 630 A
SHORT CIRCUIT BREAK CAPACITY	25 kA, 36 kA	25 kA, 36 kA, 50 kA, 70 kA, 110 kA
POLES	1P, 3P, 4P	2P, 3P, 4P
TRIP UNIT TYPE	FIX THERMAL FIX MAGNETIC ADJUSTABLE THERMAL FIX MAGNETIC ADJUSTABLE THERMAL ADJUSTABLE MAGNETIC NON-AUTO SWITCH	FIX THERMAL FIX MAGNETIC ADJUSTABLE THERMAL ADJUSTABLE MAGNETIC BASIC ELECTRONIC BASIC ELECTRONIC WITH GROUND FAULT PROTECTION SMART ELECTRONIC NON-AUTO SWITCH



Product
Selector

B**HIGH AMPS AND kA RATINGS**160 A, 250 A, 400 A, 800 A, 1000 A,
1250 A, 1600 A25 kA (1P), 50 kA, 70 kA, 85 kA, 100
kA, 125 kA, 200 kA

1P, 3P, 4P

FIX THERMAL FIX MAGNETIC,
ADJUSTABLE THERMAL ADJUSTABLE
MAGNETIC,
BASIC ELECTRONIC,
BASIC ELECTRONIC WITH GROUND
FAULT PROTECTION,
SMART ELECTRONIC,
SMART AMMETER,
NON-AUTO SWITCH**XS****HIGHEST CURRENT APPLICATIONS**

2000 A, 2500 A, 3200A

85 kA

3P, 4P

BASIC ELECTRONIC,
NON-AUTO SWITCH**ZS****EARTH LEAKAGE APPLICATIONS**

125 A, 250 A

65 kA

3P, 4P

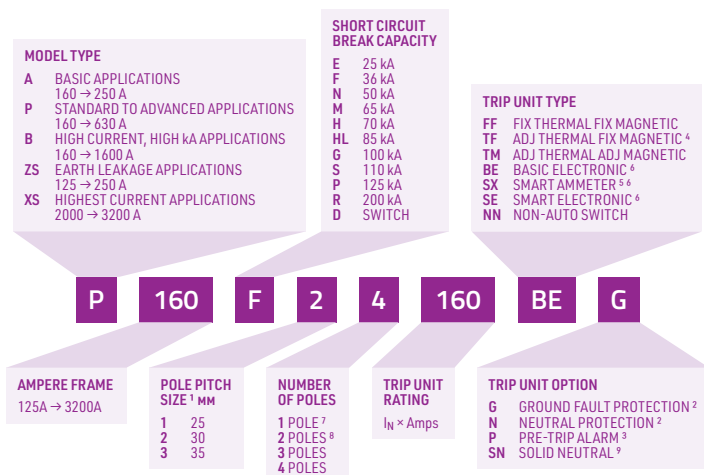
ADJUSTABLE THERMAL FIX
MAGNETIC**About TemBreak Pro**

TemBreak PRO is a range of high-performance Moulded Case Circuit Breakers (MCCBs) designed to protect the electrical systems of today and connect to the information systems of tomorrow.

- Very broad range of MCCBs which have frame sizes from 160A up to 3200A
- A mixed blend of trip unit technologies including Thermal Magnetic (TM), Basic Electronic (BE) and SMART digitally connected metering types (SE)
- Breaking capacities (I_{cu}) from 25kA–200kA
- Face plate labels are colour coded to trip unit technology types
- Suits 400–690VAC installation

Model Types and Numbering

TemBreak PRO
Introduction



Notes

1. Applicable for 160 AF only.
2. For P_SE versions these features are standard and therefore are not included to the end of the part number.
3. PTA is standard with electronic P models and therefore P is not added to the end of the part number.
4. Available in A and ZS models only.
5. Available in B models only.
6. Not available in A and ZS models.
7. Available in A and B models only (FF only Trip Unit).
8. Available in P models only (FF only Trip Unit).
9. Available in ZS Models only.

Notice

Not all combinations are possible. Confirm part number combination with NHP for availability.

Accessories

TemBreak Pro has a wide range of accessory solutions for your electrical installation.



- Shunt trips and under voltage trips
- Motors
- Handles

- Alarm and auxiliary contacts
- Terminal covers
- Lock off devices

Easy to install

Fit motors or handles in under two minutes

Simple operation

Attach interlocks to the front of the MCCB for reduced depth and fast assembly

Reliable

Choose the optimal cable-clamp or extension bar for your conductor to ensure reliable terminations

Safe and secure

Protect terminals with covers and barriers. Secure the MCCB with locks for toggles, handles and motors

Internal Accessory Fitting Combinations

TemBreak PRO
Introduction

ACC COMBINATION	MCCB MODEL				
	A160 P160	B160 B250	A250	P250	
AX					
AL					
SH					
UV					
AX AL					
AX SH					
AX UV					
AL SH					
AL UV					
AX AL SH					
AX AL UV					

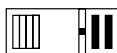
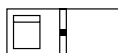
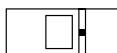
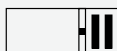
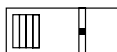
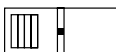
P400
P630

B400

B800
B1000

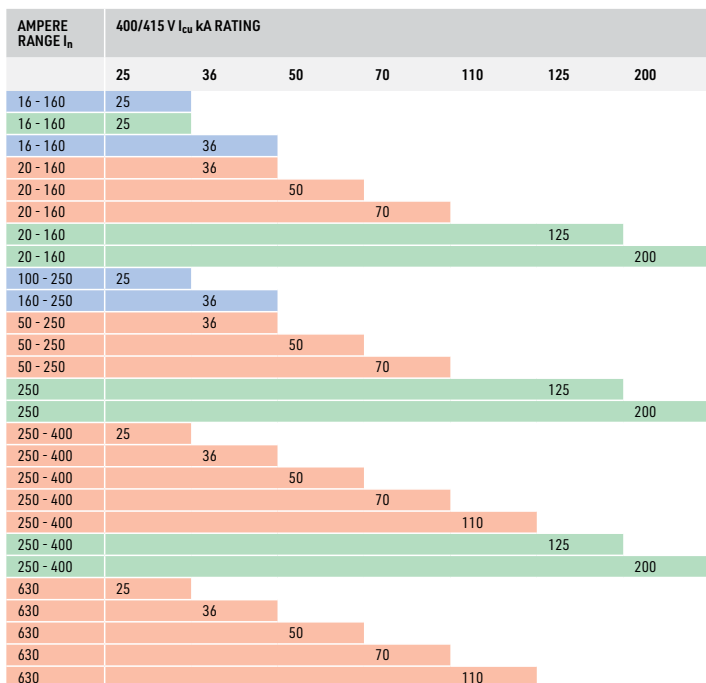
B1250
B1600

XS2000
XS2500
XS3200



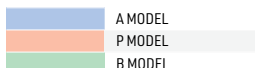
Ratings Chart

TemBreak PRO
Introduction



Non-Automatic Switches

MODEL TYPE	ISOLATOR SWITCHES	SHORT TIME RATING FOR 0.3 SECONDS I_{cw} (kA)
NON-AUTO SWITCH	160	2
	160	
	250	3
	250	
	400	
	630	



MODEL TYPE	THERMAL MAGNETIC TRIP UNIT	BASIC ELECTRONIC TRIP UNIT	SMART ELECTRONIC TRIP UNIT	CAT. №
A	YES			A160E
B	YES			B160E
A	YES			A160F
P	YES	YES	YES	P160F
P	YES	YES	YES	P160N
P	YES	YES	YES	P160H
B	YES			B160P
B	YES			B160R
A	YES			A250E
A	YES			A250F
P	YES	YES	YES	P250F
P	YES	YES	YES	P250N
P	YES	YES	YES	P250H
B	YES	YES	YES	B250P
B	YES			B250R
P	YES			P400E
P	YES	YES	YES	P400F
P	YES	YES	YES	P400N
P	YES	YES	YES	P400H
P	YES	YES	YES	P400S
B		YES		B400P
B		YES		B400R
P	YES			P630E
P	YES	YES	YES	P630F
P	YES	YES	YES	P630N
P	YES	YES	YES	P630H
P	YES	YES	YES	P630S

SHORT TIME RATING FOR 1 SECOND I_{cw} (kA)	CAT. №
2	A160D P160D A250D
3.6	P250D
5	P400D
7.6	P630D

Ratings Chart

TemBreak PRO
Introduction

AMPERE RANGE I _n	400/415 V I _{cu} kA RATING								
	25	36	50	70	85	100	110	125	200
630 - 800	36								
630 - 800	50								
630 - 800	70								
630 - 800	100								
630 - 800	125								
630 - 800	200								
1000	50								
1000	70								
1250	50								
1250	70								
1250	85								
1600	50								
1600	85								
2000	85								
2500	85								
3200	85								

Non-Automatic Switches

MODEL TYPE	ISOLATOR SWITCHES
NON-AUTO SWITCH	800
	1000
	1250
	1600
	2000
	2500

Circuit Breakers with Residual Current Trip CBRs (AKA Earth Leakage Circuit Breakers, or ELCBs)

AMPERE RANGE I _n	400/415 V I _{cu} kA RATING
	25 36 50 65
20 - 125	65
160 - 250	65

- B MODEL
- XS MODEL
- ZS MODEL

MODEL TYPE	THERMAL MAGNETIC TRIP UNIT	BASIC ELECTRONIC TRIP UNIT	SMART ELECTRONIC TRIP UNIT	CAT. №
B	YES			B800F
B	YES	YES	YES	B800N
B	YES	YES	YES	B800H
B	YES	YES	YES	B800G
B		YES	YES	B800P
B		YES	YES	B800R
B		YES	YES	B1000N
B		YES	YES	B1000H
B		YES		B1250N
B		YES		B1250H
B		YES		B1250HL
B		YES		B1600N
B		YES		B1600HL
XS		YES		XS2000HL
XS		YES		XS2500HL
XS		YES		XS3200HL

SHORT TIME RATING FOR 0.3 SECONDS I_{cw} (kA)	CAT. №
10	B800D
10	B1000D
15	B1250D
20	B1600D
42	XS2000D
42	XS2500D

MODEL TYPE	THERMAL MAGNETIC TRIP UNIT	ELECTRONIC TRIP UNIT	SMART ELECTRONIC TRIP UNIT	CAT. №
ZS	YES			ZS125M
ZS	YES			ZS250M

Types and Setting Ranges

TemBreak PRO
Introduction

AMPERE RANGE I_n	415 V AC kA		THERMAL MAGNETIC TRIP UNIT ADJUSTMENT	
	I_{cu}	I_{cs}	THERMAL I_r	MAGNETIC I_i
16 - 160	25	13	0.63 - 100%	FIXED
16 - 160	36	20	0.63 - 100%	FIXED
20 - 160	36	36	0.63 - 100%	6 - 12X I_r^*
20 - 160	50	50	0.63 - 100%	6 - 12X I_r^*
20 - 160	70	50	0.63 - 100%	6 - 12X I_r^*
20 - 160	125	85	0.63 - 100%	6 - 12X I_r
20 - 160	200	150	0.63 - 100%	6 - 12X I_r
100 - 250	25	19	0.63 - 100%	5 - 11X I_r
160 - 250	36	20	0.63 - 100%	5 - 11X I_r
50 - 250	36	36	0.63 - 100%	6 - 13X I_r^*
50 - 250	50	50	0.63 - 100%	6 - 13X I_r^*
50 - 250	70	50	0.63 - 100%	6 - 13X I_r^*
40 - 250	125	85	0.63 - 100%	6 - 10X I_r
40 - 250	200	150	0.63 - 100%	6 - 10X I_r
250 - 400	25	25	0.63 - 100%	5 - 10X I_r
250 - 400	36	36	0.63 - 100%	5 - 10X I_r
250 - 400	50	50	0.63 - 100%	5 - 10X I_r
250 - 400	70	70	0.63 - 100%	5 - 10X I_r
250 - 400	110	110	0.63 - 100%	5 - 10X I_r
250 - 400	125	85	—	—
250 - 400	200	150	—	—
630	25	25	0.63 - 100%	4 - 8X I_r
630	36	36	0.63 - 100%	4 - 8X I_r
630	50	50	0.63 - 100%	4 - 8X I_r
630	70	70	0.63 - 100%	4 - 8X I_r
630	110	110	0.63 - 100%	4 - 8X I_r

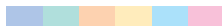
ISOLATOR SWITCHES	SHORT TIME RATING FOR 0.3 SECONDS I_{cw} (kA)	SHORT TIME RATING FOR 1 SECOND I_{cw} (kA)
160	2	
160		2
250	3	
250		3.6
400		5
630		7.6

Notes

* Adjustment setting can vary depending on trip unit size, please see product pages for further details.

ELECTRONIC TRIP UNIT ADJUSTMENT		CAT. №	3P DIMENSIONS mm		
RANGE I _r	STD X I _r / INST X I _r		H	W	D
–	–	A160E	130	75	68
–	–	A160F	130	75	68
37% - 100%*	LSI/LSIG ADJUSTABLE	P160F	130	90	68
37% - 100%*	LSI/LSIG ADJUSTABLE	P160N	130	90	68
37% - 100%*	LSI/LSIG ADJUSTABLE	P160H	130	90	68
–	–	B160P	165	105	103
–	–	B160R	165	105	103
–	–	A250E	165	105	68
–	–	A250F	165	105	68
37% - 100%*	LSI/LSIG ADJUSTABLE	P250F	165	105	68
37% - 100%*	LSI/LSIG ADJUSTABLE	P250N	165	105	68
37% - 100%*	LSI/LSIG ADJUSTABLE	P250H	165	105	68
40% - 100%	2.5, 5, 10 / 13 OR 14	B250P	165	105	103
–	–	B250R	165	105	103
–	–	P400E	260	140	103
37% - 100%*	LSI/LSIG ADJUSTABLE	P400F	260	140	103
37% - 100%*	LSI/LSIG ADJUSTABLE	P400N	260	140	103
37% - 100%*	LSI/LSIG ADJUSTABLE	P400H	260	140	103
37% - 100%*	LSI/LSIG ADJUSTABLE	P400S	260	140	103
40% - 100%	2.5, 5, 10 / 13 OR 14	B400P	260	140	140
40% - 100%	2.5, 5, 10 / 13 OR 14	B400R	260	140	140
–	–	P630E	260	140	103
37% - 100%*	LSI/LSIG ADJUSTABLE	P630F	260	140	103
37% - 100%*	LSI/LSIG ADJUSTABLE	P630N	260	140	103
37% - 100%*	LSI/LSIG ADJUSTABLE	P630H	260	140	103
37% - 100%*	LSI/LSIG ADJUSTABLE	P630S	260	140	103

RATED SHORT-CIRCUIT MAKING CAPACITY I _{cm} (kA)		CAT. №	3P DIMENSIONS mm		
			H	W	D
2.8		A160D	130	75	68
2.8		P160D	130	90	68
6		A250D	165	105	68
5		P250D	165	105	68
7.6		P400D	260	140	103
13		P630D	260	140	103



Types and Setting Ranges

TemBreak PRO
Introduction

AMPERE RANGE I_n	415 V AC kA		THERMAL MAGNETIC TRIP UNIT ADJUSTMENT	
	I_{cu}	I_{cs}	THERMAL I_r	MAGNETIC I_i
630 - 800	36	36	0.63 - 100%	5 - 10X I_r
630 - 800	50	50	0.63 - 100%	5 - 10X I_r
630 - 800	70	50	0.63 - 100%	5 - 10X I_r
630 - 800	100	50	—	—
630 - 800	125	94	—	—
630 - 800	200	150	—	—
1000	50	38	—	—
1000	70	50	—	—
1250	50	38	—	—
1250	70	50	—	—
1250	85	65	—	—
1600	50	38	—	—
1600	85	65	—	—
2000	85	65	—	—
2500	85	65	—	—
3200	85	65	—	—
20 - 125	65	33	0.63 - 100%	FIXED
160 - 250	65	36	0.63 - 100%	FIXED

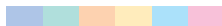
ISOLATOR SWITCHES	SHORT TIME RATING FOR 0.3 SECONDS I_{cw} (kA)	RATED SHORT-CIRCUIT MAKING CAPACITY I_{cm} (kA)
800	10	17
1000	10	17
1250	15	32
1600	20	45
2000	42	90
2500	42	90

Notes

- *Adjustment setting can vary depending on trip unit size, please see product pages for further details

ELECTRONIC TRIP UNIT ADJUSTMENT		CAT. №	3P DIMENSIONS mm		
RANGE I _r	STD X I _r / INST X I _r		H	W	D
–	–	B800F	273	210	103
40% - 100%	2.5, 5, 10 / 12 OR 14	B800N	273	210	103
40% - 100%	2.5, 5, 10 / 12 OR 14	B800H	273	210	103
40% - 100%	2.5, 5, 10 / 12 OR 14	B800G	273	210	103
40% - 100%	2.5, 5, 10 / 12 OR 14	B800P	273	210	140
40% - 100%	2.5, 5, 10 / 12 OR 14	B800R	273	210	140
40% - 100%	2.5, 5, 8 / 10 OR 14	B1000N	273	210	103
40% - 100%	2.5, 5, 8 / 10 OR 14	B1000H	273	210	103
40% - 100%	2.5, 5, 10 / 12 OR 14	B1250N	370	210	140
40% - 100%	2.5, 5, 10 / 12 OR 14	B1250H	370	210	140
40% - 100%	2.5, 5, 10 / 12 OR 14	B1250HL	370	210	140
40% - 100%	2.5, 5, 10 / 12 OR 14	B1600N	370	210	140
40% - 100%	2.5, 5, 10 / 12 OR 14	B1600HL	370	210	140
50% - 100%	LSI/LSIG ADJUSTABLE	XS2000HL	450	320	185
50% - 100%	LSI/LSIG ADJUSTABLE	XS2500HL	450	320	185
50% - 100%	LSI/LSIG ADJUSTABLE	XS3200HL	450	320	185
–	–	ZS125M	155	90	68
–	–	ZS250M	165	105	68

CAT. №	3P DIMENSIONS mm		
	H	W	D
B800D	273	210	103
B1000D	273	210	103
B1250D	370	210	140
B1600D	370	210	140
XS2000D	450	320	185
XS2500D	450	320	185



TemBreak Pro A160 FF

Single Pole Thermal Magnetic MCCB

TemBreak PRO
160 Amp

- General purpose power distribution applications
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- 1 pole MCCB, compact 25 mm width
- Suits XEP chassis
- Terminal covers available, otherwise incompatible with other A160 frame accessories



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	240	A160E	25	13
DC USE	125	A160E	10	5

Trip unit

Fixed thermal and fixed magnetic curves

Dimensions mm

HEIGHT	WIDTH 1P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
130	25	95	68

Product Selection

160 A FRAME 1 POLE 25 kA FF (25mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , FIXED THERMAL SETTING (A)	I_l , FIXED MAGNETIC SETTING (A)	CAT. №
16	16	600	A160E1116FF
20	20	600	A160E1120FF
25	25	600	A160E1125FF
32	32	600	A160E1132FF
40	40	600	A160E1140FF
50	50	600	A160E1150FF
63	63	1000	A160E1163FF
80	80	1000	A160E1180FF
100	100	1500	A160E11100FF
125	125	1500	A160E11125FF

TemBreak Pro B160 FF

Single Pole Thermal Magnetic MCCB

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- General purpose power distribution
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- 1 pole MCCB, 35 mm width
- Suits XBP and XCP chassis
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B160E	25	13
DC USE	125	B160E	10	5

Trip unit

Fixed thermal and fixed magnetic curves

Dimensions mm

HEIGHT	WIDTH 1P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	35	95.5	68

Product Selection

160 A FRAME 1 POLE 25 kA FF (35mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , FIXED THERMAL SETTING (A)	I_l , FIXED MAGNETIC SETTING (A)	CAT. №
16	16	160	B160E3116FF
20	20	200	B160E3120FF
25	25	250	B160E3125FF
32	32	320	B160E3132FF
40	40	400	B160E3140FF
50	50	500	B160E3150FF
63	63	630	B160E3163FF
80	80	800	B160E3180FF
100	100	1000	B160E31100FF
125	125	1250	B160E31125FF
160	160	1600	B160E31160FF

TemBreak Pro P160 FF

2 Pole Thermal Magnetic MCCB

TemBreak PRO

160 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- 2 pole MCCB
- Suits XAP chassis
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{CU}	I_{CS}
AC USE	415	P160F	36	36
DC USE	250	P160F	25	19

Trip unit

Fixed thermal and fixed magnetic curves

Dimensions mm

HEIGHT	WIDTH 2P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
130	60	95.5	68

Product Selection

160 A FRAME 2 POLE 36 kA FF (30 mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , FIXED THERMAL SETTING (A)	I_l , FIXED MAGNETIC SETTING (A)	CAT. No
15	15	180	P160F2215FF
20	20	240	P160F2220FF
30	30	360	P160F2230FF
40	40	480	P160F2240FF
50	50	600	P160F2250FF
60	60	720	P160F2260FF
75	75	900	P160F2275FF
100	100	1200	P160F22100FF
125	125	1500	P160F22125FF

Power Distribution and Protection

Quality switch disconnectors
for reliable and safe isolation



Scan here to
learn more

TemBreak Pro A160 TF

Thermal Magnetic MCCB

TemBreak PRO

160 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- 3 or 4 pole versions
- Neutral protection available as standard on 4 pole models
- Suits XEP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	240	A160E	25	13
		A160F	36	20
DC USE	125	A160E	20	10
		A160F	25	13

Trip unit

Fixed thermal and fixed magnetic curves

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
130	75	100	95	68

Product Selection

160 A FRAME 3 & 4 POLE 25 kA TF (25 mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , FIXED THERMAL SETTING (A)	I_l , FIXED MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
25	16 - 25	600	A160E1325TF	A160E1425TF
40	25 - 40	600	A160E1340TF	A160E1440TF
63	40 - 63	1000	A160E1363TF	A160E1463TF
80	50 - 80	1000	A160E1380TF	A160E1480TF
100	63 - 100	1500	A160E13100TF	A160E14100TF
125	80 - 125	1500	A160E13125TF	A160E14125TF
160	100 - 160	1600	A160E13160TF	A160E14160TF

160 A FRAME 3 & 4 POLE 36 kA TF (25 mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , FIXED THERMAL SETTING (A)	I_l , FIXED MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
25	16 - 25	600	A160F1325TF	A160F1425TF
40	25 - 40	600	A160F1340TF	A160F1440TF
63	40 - 63	1000	A160F1363TF	A160F1463TF
80	50 - 80	1000	A160F1380TF	A160F1480TF
100	63 - 100	1500	A160F13100TF	A160F14100TF
125	80 - 125	1500	A160F13125TF	A160F14125TF
160	100 - 160	1600	A160F13160TF	A160F14160TF

TemBreak Pro A160 NN

Non-Auto Switch Disconnecter

TemBreak PRO
160 Amp

- Non-Auto switch disconnecter for power distribution, Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions
- Suits XEP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

RATED I _{cw}	RATED I _{cm} AT 690 V AC
2 kA FOR 0.3 s	2.8 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415V AC

WITH A160E	WITH A160F
25 kA	36 kA

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
130	75	100	95.5	68

Product Selection

160 A FRAME 3 & 4 POLE NN (25mm POLE WIDTH)

I _n (A @ 50 °C)	POLES	CAT. No
160	3	A160D13160NN
160	4	A160D14160NN

TemBreak Pro P160 TM

Thermal Magnetic MCCB

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- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 50kA
- 3 or 4 pole versions
- Neutral protection available as standard on 4 pole models
- Suits XAP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P160F	36	36
		P160N	50	50
		P160H	70	50
DC USE	250	P160F	25	19
		P160N	40	40
		P160H	40	40

Trip unit

Adjustable thermal ($0.63 I_r$ to $100\% I_r$) and adjustable magnetic

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
130	90	120	95.5	68

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Product Selection

160 A FRAME 3 & 4 POLE 36 kA TF (25 mm POLE WIDTH)

I_n (A @50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
20	12.5 - 20	120 - 240	P160F2320TM	P160F2420TM
32	20 - 32	192 - 384	P160F2332TM	P160F2432TM
50	32 - 50	300 - 600	P160F2350TM	P160F2450TM
63	50 - 63	378 - 756	P160F2363TM	P160F2463TM
100	63 - 100	600 - 1200	P160F23100TM	P160F24100TM
125	80 - 125	750 - 1500	P160F23125TM	P160F24125TM
160	100 - 160	960 - 1600	P160F23160TM	P160F24160TM

160 A FRAME 3 & 4 POLE 50 kA TM (30 mm POLE WIDTH)

I_n (A @50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
20	12.5 - 20	120 - 240	P160N2320TM	P160N2420TM
32	20 - 32	192 - 384	P160N2332TM	P160N2432TM
50	32 - 50	300 - 600	P160N2350TM	P160N2450TM
63	50 - 63	378 - 756	P160N2363TM	P160N2463TM
100	63 - 100	600 - 1200	P160N23100TM	P160N24100TM
125	80 - 125	750 - 1500	P160N23125TM	P160N24125TM
160	100 - 160	960 - 1600	P160N23160TM	P160N24160TM

160 A FRAME 3 & 4 POLE 70 kA TM (30 mm POLE WIDTH)

I_n (A @50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
20	12.5 - 20	120 - 240	P160H2320TM	P160H2420TM
32	20 - 32	192 - 384	P160H2332TM	P160H2432TM
50	32 - 50	300 - 600	P160H2350TM	P160H2450TM
63	50 - 63	378 - 756	P160H2363TM	P160H2463TM
100	63 - 100	600 - 1200	P160H23100TM	P160H24100TM
125	80 - 125	750 - 1500	P160H23125TM	P160H24125TM
160	100 - 160	960 - 1600	P160H23160TM	P160H24160TM

TemBreak Pro P160 BE/BEG

Basic Electronic MCCB

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- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 50kA
- Standard features depend on MCCB model:
Adjustable LSI (BE type), LSIg (BEG type),
Neutral protection (4P), Pre-Trip Alarm and
internal temperature monitoring (all)
- 3 or 4 pole versions
- Suits XAP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P160F	36	36
		P160N	50	50
		P160H	70	50

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	$I_r: 0.37-1X I_n$, OFF	$t_r: 0.5-16s$
STD ADJUSTMENT	$I_{sd}: 1.5-10X I_r$, OFF	$t_{sd}: 50-400ms$
INSTANTANEOUS ADJUSTMENT:	$I_i: 3-15X I_n$ ($I_n < 160$) $3-11X I_n$ ($I_n = 160$)	
GF ADJUSTMENT (BEG ONLY):	$I_g: 0.4X I_n$, OFF	$t_g: 200ms$
N ADJUSTMENT (4P ONLY):	50%, 100% OF I_r/I_{sd} , OFF	

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
130	90	120	95.5	68

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Product Selection

160 A FRAME 3 POLE BE (30 mm POLE WIDTH) LSI

I _n (A @50 °C)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	14.72-40	P160F2340BE	P160N2340BE	P160H2340BE
100	36.8-100	P160F23100BE	P160N23100BE	P160H23100BE
160	58-160	P160F23160BE	P160N23160BE	P160H23160BE

160 A FRAME 3 POLE BEG (30 mm POLE WIDTH) LSIg

I _n (A @50 °C)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	14.72-40	P160F2340BEG	P160N2340BEG	P160H2340BEG
100	36.8-100	P160F23100BEG	P160N23100BEG	P160H23100BEG
160	58-160	P160F23160BEG	P160N23160BEG	P160H23160BEG

160 A FRAME 4 POLE BE (30 mm POLE WIDTH) LSI

I _n (A @50 °C)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	14.72-40	P160F2440BE	P160N2440BE	P160H2440BE
100	36.8-100	P160F24100BE	P160N24100BE	P160H24100BE
160	58-160	P160F24160BE	P160N24160BE	P160H24160BE

160 A FRAME 4 POLE BEG (30 mm POLE WIDTH) LSIg

I _n (A @50 °C)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	14.72-40	P160F2440BEG	P160N2440BEG	P160H2440BEG
100	36.8-100	P160F24100BEG	P160N24100BEG	P160H24100BEG
160	58-160	P160F24160BEG	P160N24160BEG	P160H24160BEG

TemBreak Pro P160 SE

Smart Electronic MCCB with Energy Metering

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- General purpose power distribution, energy metering and communications, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 50kA
- Standard features include adjustable LSIG, internal temperature monitoring and alarm, Pre-Trip Alarm, Neutral protection
- (4P models only), V/I/Energy measurement and control
- Measurements and data available over Modbus RTU with external TPCM module
- 3 or 4 pole versions
- Suits XAP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P160F	36	36
		P160N	50	50
		P160H	70	50

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	I_r : 0.4-1X I_n , OFF	t_r : 0.5-16s
STD ADJUSTMENT	I_{sd} : 1.5-10X I_r , OFF	t_{sd} : 50-400ms
INSTANTANEOUS ADJUSTMENT:	I_i : 3-15X I_n ($I_n < 160$) 3-11X I_n ($I_n = 160$)	
GF ADJUSTMENT:	I_g : 0.2-1X I_n , OFF	t_g : 50-500ms
N ADJUSTMENT (4P ONLY):	50%, 100% OF I_r/I_{sd} , OFF	

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Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
130	90	120	95.5	68

Product Selection

160 A FRAME 3 POLE SE (30 mm POLE WIDTH) LSIG

I_n (A @50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	16-40	P160F2340SE	P160N2340SE	P160H2340SE
100	40-100	P160F23100SE	P160N23100SE	P160H23100SE
160	63-160	P160F23160SE	P160N23160SE	P160H23160SE

160 A FRAME 4 POLE SE (30 mm POLE WIDTH) LSIG

I_n (A @50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	16-40	P160F2420SE	P160N2440SE	P160H2440SE
100	40-100	P160F24100SE	P160N24100SE	P160H24100SE
160	63-160	P160F24160SE	P160N24160SE	P160H24160SE

TemBreak Pro P160 NN

Non-Auto Switch Disconnecter

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- Non-Auto switch disconnecter for power distribution, Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions
- Suits XAP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit

I_{cw}	I_{cm} AT 690VAC
2 kA FOR 1 s	2.8 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH P160F	WITH P160N	WITH P160H
36 kA	50 kA	70 kA

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
130	90	120	95.5	68

Product Selection

160 A FRAME 3 & 4 POLE NN (30 mm POLE WIDTH)

I_n (A @50 °C)	POLES	CAT. No
160	3	P160D23160NN
160	4	P160D24160NN

TemBreak Pro B160 TM

Thermal Magnetic MCCB

TemBreak PRO

160 Amp

- High fault level applications in power distribution and motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- 3 or 4 pole versions available
- Neutral protection available as standard on 4 pole models
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B160P	125	85
		B160R	200	150
DC USE	250	B160P	40	40
		B160R	40	40

Trip unit

Adjustable thermal ($0.63 I_r$ to $100\% I_r$) and adjustable magnetic

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	105	140	151	103

Product Selection

160 A FRAME 3 & 4 POLE 125 kA TM (35 mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_{Δ} , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
20	12.5 - 20	120 - 240	B160P3320TM	B160P3420TM
32	20 - 32	192 - 384	B160P3332TM	B160P3432TM
50	32 - 50	300 - 600	B160P3350TM	B160P3450TM
63	40 - 63	378 - 756	B160P3363TM	B160P3463TM
95	63 - 100	600 - 1200	B160P33100TM	B160P34100TM
125	80 - 125	750 - 1500	B160P33125TM	B160P34125TM
160	100 - 160	960 - 2080	B160P33160TM	B160P34160TM

160 A FRAME 3 & 4 POLE 200 kA TM (35 mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_{Δ} , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
20	12.5 - 20	120 - 240	B160R3320TM	B160R3420TM
32	20 - 32	192 - 384	B160R3332TM	B160R3432TM
50	32 - 50	300 - 600	B160R3350TM	B160R3450TM
63	40 - 63	378 - 756	B160R3363TM	B160R3463TM
95	63 - 100	600 - 1200	B160R33100TM	B160R34100TM
125	80 - 125	750 - 1500	B160R33125TM	B160R34125TM
160	160 - 160	960 - 2080	B160R33160TM	B160R34160TM

160A Frame Accessories

Internal Accessories

TemBreak PRO

160 Amp

CATEGORY	DESCRIPTION	CAT. №
SHUNT TRIPS SH	SUITS A160/P160 2/3/4P	
	100 - 120 V AC	T2SH00LA10T
	200 - 240 V AC	T2SH00LA20T
	380 - 450 V AC	T2SH00LA40T
	12 V DC	T2SH00LD01T
	24 V DC	T2SH00LD02T
	48 V DC	T2SH00LD04T
	100 - 120 V DC	T2SH00LD10T
	200 - 240 V DC	T2SH00LD20T
	SUITS B160 1P	
	110 V AC	T2SH16A10WA
	240 V AC	T2SH16A20WA
	24 V DC	T2SH16D02WA
	110 V DC	T2SH16D10WA
	230 V DC	T2SH16D20WA
	SUITS B160 3/4P	
	100 - 120 V AC	T2SH00A10TA
	200 - 240 V AC	T2SH00A20TA
	380 - 450 V AC	T2SH00A40TA
	12 V DC	T2SH00D01TA
	24 V DC	T2SH00D02TA
	48 V DC	T2SH00D04TA
	100 - 120 V DC	T2SH00D10TA
	200 - 240 V DC	T2SH00D20TA
UNDervOLTAGE TRIPS UV	INSTANTANEOUS OPERATION	
	SUITS A160/P160 3/4P	
	100 - 120 V AC	T2UV00LA10NT
	200 - 240 V AC	T2UV00LA20NT
	380 - 450 V AC	T2UV00LA40NT
	24 V DC	T2UV00LD02NT
	100 - 120 V DC	T2UV00LD10NT
	200 - 240 V DC	T2UV00LD20NT
	SUITS B160 3/4P	
	100 - 120 V AC	T2UV00A10NTA
	200 - 240 V AC	T2UV00A20NTA
	380 - 450 V AC	T2UV00A40NTA
	24 V DC	T2UV00D02NTA
	100 - 120 V DC	T2UV00D10NTA
	200 - 240 V DC	T2UV00D20NTA
	FOR TIME DELAYED OPERATION (500ms) - REFER NHP	

CATEGORY	DESCRIPTION	CAT. No
AUXILIARY & ALARM SWITCHES AX AL	SUITS A160/P160 3/4P	
	GENERAL PURPOSE TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00ML3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00ML3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION, LEFT SIDE MOUNT	T2AL00ML3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00ML3SWA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00ML3RWA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00ML3RWA
	SUITS B160 3/4P	
	GENERAL PURPOSE TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00M3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION	T2AL00M3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION	T2AL00M3SWA
	HEAVY DUTY TYPE (4 A @ 240 V INDUCTIVE)	
	1 N/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00B1STA
	1 N/C AUXILIARY WITH TERMINAL CONNECTION	T2AX00B2STA
	1 N/O ALARM WITH TERMINAL CONNECTION	T2AL00B1STA
	1 N/C ALARM WITH TERMINAL CONNECTION	T2AL00B2STA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3RTA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00M3RTA
SMART AUXILIARY AX AL	SUITS P160 SMART ELECTRONIC (SE)	
	PROVIDES BREAKER STATUS, ON/OFF CYCLE COUNTER AND TRIP COUNTER FOR MCCB	
	SMART AX/AL DIGITAL STATUS INDICATOR	TPSS00NA
	SMART AX/AL DIGITAL STATUS INDICATOR WITH 1 C/O PRE-WIRED OUTPUT (GENERAL PURPOSE TYPE)	TPSS00MLSWA
	SMART AX/AL DIGITAL STATUS INDICATOR WITH 1 C/O PRE-WIRED OUTPUT (MICRO SWITCHING TYPE)	TPSS00MLRWA

T2AL



T2AX



T2SH



T2UV



TPSS



160A Frame Accessories

External Accessories

TemBreak PRO

160 Amp

CATEGORY	DESCRIPTION	CAT. №
BA INTERPOLE BARRIERS	INTERPOLE BARRIERS ARE SUPPLIED WITH EVERY MCCB	
	SET OF 2, TO SUIT A160/P160	T2BA16L3SH
	SET OF 2, TO SUIT B160	T2BA253LH
CF STANDARD LONG TERMINAL COVERS LONG	SUITS A160 1P	
	1 POLE COVER, 50mm LONG, QTY 1	T2CF16L1SLHP
	SUITS B160 1P	
	1 POLE COVER, 55mm LONG, QTY 2	T2CF161SLNP
	SUITS P160 2P	
	2 POLE COVER, 50mm LONG, QTY 1	TPCF162SLNPH
	2 POLE COVER, 50mm LONG, QTY 2	TPCF162SLNP
	SUITS A160 3/4P	
	3 POLE COVER, 50mm LONG, QTY 1	T2CF16L3SLHP
	4 POLE COVER, 50mm LONG, QTY 1	T216L4SLHP
	SUITS P160 3/4P	
	3 POLE COVER, 50mm LONG, QTY 1	TPCF163SLNPH
	3 POLE COVER, 50mm LONG, QTY 2	TPCF163SLNP
	4 POLE COVER, 50mm LONG, QTY 1	TPCF164SLNPH
	4 POLE COVER, 50mm LONG, QTY 2	TPCF164SLNP
	3 POLE COVER WITH REAR EARTH BARRIER, 55mm LONG, QTY 1	TPCF163SLEPH
	4 POLE COVER WITH REAR EARTH BARRIER, 55mm LONG, QTY 1	TPCF164SLEPH
	SUITS B160 3/4P	
	3 POLE COVER, 55mm LONG, QTY 1	T2CF253LLHP
	4 POLE COVER, 55mm LONG, QTY 1	T2CF254LLHP
CF STANDARD WIDE TERMINAL COVERS WIDE	SUITS A160 3/4P	
	3 POLE WIDE STYLE COVER, 55mm LONG, QTY 1	T2CF16L3SWHP
	4 POLE WIDE STYLE COVER, 55mm LONG, QTY 1	T2CF16L4SWHP
CF STANDARD SHORT TERMINAL COVERS SHORT	SUITS A160 3/4P	
	3 POLE COVER, 25mm LONG, QTY 1	T2CF16L3SSHP
	4 POLE COVER, 25mm LONG, QTY 1	T2CF16L4SSHP
	SUITS P160 2P	
	2 POLE COVER, 22mm LONG, QTY 1	TPCF162SSNPH
	2 POLE COVER, 22mm LONG, QTY 2	TPCF162SSNP
	SUITS P160 3/4P	
	3 POLE COVER, 22mm LONG, QTY 1	TPCF163SSNPH
	3 POLE COVER, 22mm LONG, QTY 2	TPCF163SSNP
	4 POLE COVER, 22mm LONG, QTY 2	TPCF164SSNP
	3 POLE COVER WITH REAR EARTH BARRIER, 22mm LONG, QTY 1	TPCF163SSEPH
	4 POLE COVER WITH REAR EARTH BARRIER, 22mm LONG, QTY 2	TPCF164SSEPH

CATEGORY	DESCRIPTION	CAT. №
REAR CONNECT TERMINAL COVERS CR	SUITS A160	
	3 POLE TERMINAL COVER, QTY 1	T2CR12L3SHP
	3 POLE TERMINAL COVER, QTY 2	T2CR12L3SP
	4 POLE TERMINAL COVER, QTY 1	T2CR12L4SHP
	4 POLE TERMINAL COVER, QTY 2	T2CR12L4SP
	SUITS P160	
	3 POLE TERMINAL COVER, QTY 1	TPCR163SPH
	3 POLE TERMINAL COVER, QTY 2	TPCR163SP
	4 POLE TERMINAL COVER, QTY 1	TPCR164SPH
	4 POLE TERMINAL COVER, QTY 2	TPCR164SP
FLUSH TERMINAL COVERS CS	SUITS P160	
	3 POLE FLUSH TERMINAL COVER, QTY 2	TPCS163SPB
	4 POLE FLUSH TERMINAL COVER, QTY 2	TPCS164SPB
	SUITS B160 1P	
	1 POLE FLUSH TERMINAL COVER, QTY 2	T2CS161SP
TERMINAL COVER CLIP TC	PROVIDES ADDITIONAL TERMINAL COVER POSITION LOCKING AND ALLOW LEAD SEAL TO BE FITTED	
	COVER CLIP TO SUIT A160	T2CF16LL
	COVER CLIP TO SUIT P160	TPCF16SL
	COVER CLIP TO SUIT B160	T2CF00L
DIN RAIL ADAPTOR DIN	ALLOWS A 160AF MCCB TO BE MOUNTED ON STANDARD 35mm DIN RAIL	
	TO SUIT A160	T2DA16L
	TO SUIT P160	TPDA16SA
EXTENSION BARS FB	SUITS A160	
	3 POLE, SET OF 6, STRAIGHT BAR SET	T2FB12L3SB
	4 POLE, SET OF 8, STRAIGHT BAR SET	T2FB12L4SB
	3 POLE, SET OF 6, FLANGED BAR SET	T2FB16L3WB
	4 POLE, SET OF 8, FLANGED BAR SET	T2FB16L4WB
	SUITS P160	
	3 POLE, SET OF 6, STRAIGHT BAR SET	TPFB163SBC
	4 POLE, SET OF 8, STRAIGHT BAR SET	TPFB164SBC
	SUITS B160	
	1 POLE, SET OF 2, STRAIGHT BAR SET	T2FB121BA
	3 POLE, SET OF 3, STRAIGHT BAR SET	T2FB25L3SH
	4 POLE, SET OF 4, STRAIGHT BAR SET	T2FB25L4SH
	3 POLE, SET OF 3, FLANGED BAR SET	T2FB25L3WH
	4 POLE, SET OF 4, FLANGED BAR SET	T2FB25L4WH

CATEGORY	DESCRIPTION	CAT. No
TUNNEL TERMINAL FITTINGS FW	SUITS P160	
	3 POLE, SET OF 3 CLAMPS, 1 CABLE HOLE, 35-120 mm ²	TPFW16S3L1H
	4 POLE, SET OF 4 CLAMPS, 1 CABLE HOLE, 35-120 mm ²	TPFW16S4L1H
	3 POLE, SET OF 3 CLAMPS, 6 CABLE HOLES, 4-25 mm ²	TPFW16S3L6H
	4 POLE, SET OF 4 CLAMPS, 6 CABLE HOLES, 4-25 mm ²	TPFW16S4L6H
REAR CONNECT TERMINAL STUDS RP	SUITS A160	
	3 POLE KIT, SET OF 6 STUDS	T2RP12L3SA
	4 POLE KIT, SET OF 8 STUDS	T2RP12L4SA
	SUITS P160	
	3 POLE KIT, SET OF 3 STUDS	TPRP163SH
	4 POLE KIT, SET OF 4 STUDS	TPRP164SH
	SUITS B160	
	3 POLE KIT, SET OF 6 STUDS	T2RP253LA
	4 POLE KIT, SET OF 8 STUDS	T2RP254LB
LOCKING DEVICES TL/HP	NON-CAPTIVE TOGGLE LOCK: FITS UP TO 5 PADLOCKS OR A MULTI-PADLOCK DEVICE	
	TO SUIT A160, P160	T2HL25L
	TO SUIT B160	T2HL25B
	CAPTIVE TOGGLE LOCK: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT 3P/4P P160 TM/BE/NN	TPCLCP16
	TO SUIT 3P/4P P160 SE	TPCLCP16SE
	TO SUIT 3P/4P B160	T2HL25CAP
	HANDLE PADLOCK DEVICE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT P160 WITH HS OR HP HANDLES	TBPHP25PALK
TEMLUG UP	TEMLUG MCCB LINE SIDE PLUG-IN ATTACHMENT FOR P160	
	3 POLE TEMLUG	TBPUPX3160
	TEMLUGS SUIT 6.3mm BUSBAR (FOR 10mm AND 4P OPTIONS CONTACT NHP)	

TPHP



TPRP



TBPUP



TPHS



TPML



CATEGORY	DESCRIPTION	CAT. No
HB DIRECT MOUNT HANDLE WITH DOOR INTERLOCK	SUITS 3P/4P A160	
	GREY/BLACK	T2HB16LUR5BNP
	RED/YELLOW	T2HB16LUR5RNP
	SUITS 3P/4P P160	
	GREY/BLACK	TPHB16SUR5BN
	RED/YELLOW	TPHB16SUR5R
	SUITS 3P/4P B160	
	GREY/BLACK	T2HB25UR5BNP
	RED/YELLOW	T2HB25UR5RNP
HP HP SQUARE HANDLE WITH 445mm EXTENSION SHAFT IP65	SUITS 3P/4P A160	
	GREY/BLACK	T2HP16LR6BNP
	RED/YELLOW	T2HP16LR6RNP
	SUITS 3P/4P P160	
	GREY/BLACK	TPHP16SR6BN
	RED/YELLOW	TPHP16SR6RN
	SUITS 3P/4P B160	
	GREY/BLACK	T2HP25R6BNP
	RED/YELLOW	T2HP25R6RNP
HS HS HANDLE WITH 356mm EXTENSION SHAFT IP55	SUITS 3P/4P A160	
	GREY/BLACK	TPHS16LR5RM
	RED/YELLOW	TPHS16R5RM
	SUITS 3P/4P P160	
	GREY/BLACK	TPHS16R5GM
	RED/YELLOW	TPHS16LR5GM
	SUITS 3P/4P B160	
	GREY/BLACK	TPHS25SR5GM
	RED/YELLOW	TPHS25SR5RM
ML MECHANICAL INTERLOCKS LINK TYPE	INTERLOCK 2 MCCBS AND ALLOWS FOR MOTORS AND HANDLES. SUITABLE FOR FRONT OR REAR CONNECT TYPE MCCBS.	
	SUITS P160	
	3 POLE LEFT SIDE SECTION	TPML16SL3
	4 POLE LEFT SIDE SECTION	TPML16SL4
	3 OR 4 POLE COMMON RIGHT SIDE SECTION	TPML16SR3
	SUITS B160	
	3 POLE LEFT SIDE SECTION	T2ML25L3A
	4 POLE LEFT SIDE SECTION	T2ML25L4A
	3 OR 4 POLE COMMON RIGHT SIDE SECTION	T2ML25RA

CATEGORY	DESCRIPTION	CAT. №
MOTOR OPERATOR MC	SUITS 3P/4P P160	
	110 - 110 V AC	TPMC25SA10N
	230 - 240 V AC	TPMC25SA24N
	24 V DC	TPMC25SD02N
	48 V DC	TPMC25SD04N
	100 - 110 V DC	TPMC25SD10N
	200 - 220 V DC	TPMC25SD20N
	SUITS 3P/4P B160	
	110 - 110 V AC	T2MC25A10NP
	230 - 240 V AC	T2MC25A24NP
	24 V DC	T2MC25D02NP
	48 V DC	T2MC25D04NP
	100 - 110 V DC	T2MC25D10NP
MOTOR INTERLOCK CABLE MM	CABLE LOOM FOR ELECTRICAL INTERLOCKING OR TRANSFER SWITCHES	
	CABLE TO INTERLOCK BETWEEN T*MC12 AND T*MC25, 0.5M	T2MM25L05A
	CABLE TO INTERLOCK BETWEEN T*MC12 AND T*MC25, 1.5M	T2MM25L15A
	CABLE TO INTERLOCK BETWEEN T*MC12 UP TO T2MC80, 2.1M	T2MM40S21A
CABLE MECHANICAL INTERLOCK MW	INTERLOCK 2 MCCBS AND ALLOWS FOR MOTORS AND HANDLES	
	INTERLOCK KIT LESS WIRE TO SUIT P160	TPMW16SCN
	INTERLOCK KIT LESS WIRE TO SUIT B160	T2MW25CA
	CABLE INTERLOCK WIRE, 1M	T2MW00SA
	CABLE INTERLOCK WIRE, 1.5M	T2MW00LA
SMART ELECTRONIC ACCESSORIES SE	FOR P160 SMART ELECTRONIC (SE)	
	MODBUS RTU COMMUNICATION MODULE	TPCM00D02NA
	MODBUS RTU COMMUNICATION MODULE WITH 2DI/2DO	TPCM00D02WA
	EXTERNAL MONITOR AND CONFIGURATOR DISPLAY	TVP00N
	CONNECTION CABLE, MCCB CIP TO TPCM/TVP, 1.5M	TPPHQT1340HA
	CONNECTION CABLE, MCCB CIP TO FLY-LEADS FOR DEDICATED 24VDC SUPPLY TO TRIP UNIT, 1.2M	TPPHQT1140HA
	CONNECTION CABLE, MCCB TO MCCB FOR ZONE SELECTIVE INTERLOCKING (ZSI), 1.2M	TPPHQT1150HA
	CONNECTION CABLE, OPTIONAL ALARM CONTACT (OAC) OR PRE-TRIP ALARM (PTA) TO FLY-LEADS 1.2M	TPPHQT1130HA

TVP

CIP CABLE

TPCM



TemBreak Pro A250 TM

Thermal Magnetic MCCB

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- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- 3 or 4 pole versions
- Neutral protection available as standard on 4 pole models
- Suits XBP and XCP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	A250E	25	19
		A250F	36	20
DC USE	250	A250E	15	12
		A250F	25	13

Trip unit

Adjustable thermal ($0.63 I_r$ to $100\% I_r$) and adjustable magnetic

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	105	140	95	68

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Product Selection

250 A FRAME 3 & 4 POLE 25 kA TM 35mm (POLE WIDTH)

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_{li} , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
100	63 - 100	500 - 1300	A250E3100TM	A250E4100TM
125	80 - 125	625 - 1625	A250E3125TM	A250E4125TM
160	100 - 160	800 - 2080	A250E3160TM	A250E4160TM
200	126 - 200	1000 - 2600	A250E3200TM	A250E4200TM
250	158 - 250	1250 - 2750	A250E3250TM	A250E4250TM

250 A FRAME 3 & 4 POLE 36 kA TM (35mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_{li} , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
160	100 - 160	800 - 2080	A250F3160TM	A250F4160TM
200	126 - 200	1000 - 2600	A250F3200TM	A250F4200TM
250	160 - 250	1250 - 2750	A250F3250TM	A250F4250TM

TemBreak Pro A250 NN

Non-Auto Switch Disconnecter

5

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- Non-Auto switch disconnecter for power distribution, Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions
- Suits XBP and XCP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit

I_{cw}	I_{cm} AT 690VAC
3 kA FOR 0.3 s	6 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH A250E	WITH A250F
25 kA	36 kA

Dimensions mm

HEIGHT	WIDTH 3P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	105	95.5	68

Product Selection

250 A FRAME NN (30 mm POLE WIDTH)

I_n (A @50 °C)	POLES	CAT. No
250	3	A250D3250NN
250	4	A250D4250NN

TemBreak Pro P250 TM

Thermal Magnetic MCCB

TemBreak PRO

250 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 50kA
- 3 or 4 pole versions
- Neutral protection available as standard on 4 pole models
- Suits XBP & XCP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P250F	36	36
		P250N	50	50
		P250H	70	50
DC USE	250	P250F	25	19
		P250N	40	40
		P250H	40	40

Trip unit

Adjustable thermal ($0.63 I_r$ to $100\% I_r$) and adjustable magnetic

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	105	140	95.5	68

Product Selection

250 A FRAME 3 POLE TM (35 mm POLE WIDTH)

I _n (A @ 50 °C)	I _r , ADJUSTABLE THERMAL SETTING (A)	I _i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
50	32 - 50	300 - 650	P250F350TM	P250N350TM	P250H350TM
63	40 - 63	378 - 819	P250F363TM	P250N363TM	P250H363TM
100	63 - 100	600 - 1300	P250F3100TM	P250N3100TM	P250H3100TM
125	80 - 125	750 - 1625	P250F3125TM	P250N3125TM	P250H3125TM
160	100 - 160	960 - 2080	P250F3160TM	P250N3160TM	P250H3160TM
200	125 - 200	1200 - 2400	P250F3200TM	P250N3200TM	P250H3200TM
250	160 - 250	1500 - 2500	P250F3250TM	P250N3250TM	P250H3250TM

250 A FRAME 4 POLE TM (35 mm POLE WIDTH)

I _n (A @ 50 °C)	I _r , ADJUSTABLE THERMAL SETTING (A)	I _i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
50	32 - 50	300 - 650	P250F450TM	P250N450TM	P250H450TM
63	40 - 63	378 - 819	P250F463TM	P250N463TM	P250H463TM
100	63 - 100	600 - 1300	P250F4100TM	P250N4100TM	P250H4100TM
125	80 - 125	750 - 1625	P250F4125TM	P250N4125TM	P250H4125TM
160	100 - 160	960 - 2080	P250F4160TM	P250N4160TM	P250H4160TM
200	125 - 200	1200 - 2400	P250F4200TM	P250N4200TM	P250H4200TM
250	160 - 250	1500 - 2500	P250F4250TM	P250N4250TM	P250H4250TM

TemBreak Pro P250 BE/BEG

Basic Electronic MCCB

TemBreak PRO

250 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 50kA
- Standard features depend on MCCB model:
Adjustable LSI (BE type), LSI (BEG type),
Neutral protection (4P), Pre-Trip Alarm and
internal temperature monitoring (all)
- 3 or 4 pole versions available
- Suits XBP and XCP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P250F	36	36
		P250N	50	50
		P250H	70	50

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	I_r : 0.37-1X I_n , OFF	t_r : 0.5-16s
STD ADJUSTMENT	I_{sd} : 1.5-10X I_r , OFF	t_{sd} : 50-400ms
INSTANTANEOUS ADJUSTMENT:	I_i : 3-15X I_n ($I_n < 160$) 3-11X I_n ($I_n = 160, 250$)	
GF ADJUSTMENT (BEG ONLY):	I_g : 0.4X I_n , OFF	t_g : 200ms
N ADJUSTMENT (4P ONLY):	50%, 100% OF I_r/I_{sd} , OFF	

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	105	140	95.5	68

Product Selection

250 A FRAME 3 POLE BE (35 mm POLE WIDTH) LSI

I_n (A @50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	14.72-40	P250F340BE	P250N340BE	P250H340BE
100	36.8-100	P250F3100BE	P250N3100BE	P250H3100BE
160	58-160	P250F3160BE	P250N3160BE	P250H3160BE
250	92-250	P250F3250BE	P250N3250BE	P250H3250BE

250 A FRAME 3 POLE BEG (30 mm POLE WIDTH) LSIg

I_n (A @50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	14.72-40	P250F340BEG	P250N340BEG	P250H340BEG
100	36.8-100	P250F3100BEG	P250N3100BEG	P250H3100BEG
160	58-160	P250F3160BEG	P250N3160BEG	P250H3160BEG
250	92-250	P250F3250BEG	P250N3250BEG	P250H3250BEG

250 A FRAME 4 POLE BE (35 mm POLE WIDTH) LSI

I_n (A @50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	14.72-40	P250F440BE	P250N440BE	P250H440BE
100	36.8-100	P250F4100BE	P250N4100BE	P250H4100BE
160	58-160	P250F4160BE	P250N4160BE	P250H4160BE
250	92-250	P250F4250BE	P250N4250BE	P250H4250BE

250 A FRAME 4 POLE BEG (35 mm POLE WIDTH) LSIg

I_n (A @50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	14.72-40	P250F440BEG	P250N440BEG	P250H440BEG
100	36.8-100	P250F4100BEG	P250N4100BEG	P250H4100BEG
160	58-160	P250F4160BEG	P250N4160BEG	P250H4160BEG
250	92-250	P250F4250BEG	P250N4250BEG	P250H4250BEG

TemBreak Pro P250 SE

Smart Electronic MCCB with Energy Metering

TemBreak PRO

250 Amp

- General purpose power distribution, energy metering and communications, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- 3 or 4 pole versions available
- $I_{cs} = 100\% I_{cu}$ on models up to 50kA
- Standard features include adjustable LSIG, internal temperature monitoring and alarm, Pre-Trip Alarm, Neutral protection (4P models only), V/I/Energy measurement and control
- Measurements and data available over Modbus RTU with external TPCM module
- Suits XBP and XCP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P250F	36	36
		P250N	50	50
		P250H	50	50

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	I_r : 0.4-1X I_n , OFF	t_r : 0.5-16s
STD ADJUSTMENT	I_{sd} : 1.5-10X I_r , OFF	t_{sd} : 50-400ms
INSTANTANEOUS ADJUSTMENT:	I_i : 3-15X I_n ($I_n < 160$) 3-11X I_n ($I_n = 160$)	
GF ADJUSTMENT:	I_g : 0.2-1X I_n , OFF	t_g : 50-500ms
N ADJUSTMENT (4P ONLY):	50%, 100% OF I_r/I_{sd} , OFF	

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	105	140	95.5	68

Product Selection

250 A FRAME 3 POLE SE (35 mm POLE WIDTH) LSIG

I_n (A @50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 36 kA	CAT. № 50 kA	CAT. № 70 kA
40	16-40	P250F340SE	P250N340SE	P250H340SE
100	40-100	P250F3100SE	P250N3100SE	P250H3100SE
160	63-160	P250F3160SE	P250N3160SE	P250H3160SE
250	100 - 250	P250F3250SE	P250N3250SE	P250H3250SE

250 A FRAME 4 POLE SE (35 mm POLE WIDTH) LSIG

40	16-40	P250F440SE	P250N440SE	P250H440SE
100	40-100	P250F4100SE	P250N4100SE	P250H4100SE
160	63-160	P250F4160SE	P250N4160SE	P250H4160SE
250	100 - 250	P250F4250SE	P250N4250SE	P250H4250SE

TemBreak Pro P250 NN

Non-Auto Switch Disconnecter

TemBreak PRO
250 Amp

- Non-Auto switch disconnecter for power distribution
- Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions
- Suits XBP and XCP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit

RATED I_{cw}	RATED I_{cm}
3.6 kA FOR 1 s	5 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH P250F	WITH P250N	WITH P160H
36 kA	50 kA	70 kA

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	105	140	95.5	68

Product Selection

250 A FRAME 3 & 4 POLE NN (30mm POLE WIDTH)

I_n (A @50 °C)	POLES	CAT. №
250	3	P250D3250NN
250	4	P250D4250NN

TemBreak Pro B250 TM

Thermal Magnetic MCCB

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- High fault level applications in power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- 3 or 4 pole versions available
- Neutral protection available as standard on 4 pole models
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B250P	125	85
		B250R	200	150
DC USE	250	B250P	40	40
		B250R	40	40

Trip unit

Adjustable thermal ($0.63 I_r$ to $100\% I_r$) and adjustable magnetic

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	105	140	127	103

Continued on the next page →

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Product Selection

250 A FRAME 3 & 4 POLE 125 kA TM (35 mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_{li} , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	160 - 250	1500 - 2500	B250P3250TM	B250P4250TM

250 A FRAME 3 & 4 POLE 200 kA TM (35 mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_{li} , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	160 - 250	1500 - 2500	B250R3250TM	B250R4250TM

TemBreak Pro B250 BE

Basic Electronic MCCB

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- High fault level applications in power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy
- for increased installation safety
- Pre-trip alarm LED indication
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B250P	125	85

Trip unit

Electronic LSI, up to 8 dial-selectable characteristic curves suited for a variety of applications, base current I_r is adjustable from $0.4 \cdot 1xI_n$

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	105	140	127	103

Product Selection

250 A FRAME 3 & 4 POLE 125 kA BE (35 mm POLE WIDTH) LSI

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. No 3 POLE	CAT. No 4 POLE
40	16 - 40	B250P340BE	B250P440BE
125	50 - 125	B250P3125BE	B250P4125BE
160	64 - 160	B250P3160BE	B250P4160BE
250	100 - 250	B250P3250BE	B250P4250BE

TemBreak Pro B250 SE

Smart Electronic MCCB with Energy Metering

TemBreak PRO

250 Amp

- High fault level applications in power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- Standard features include LSI, V/I/Energy measurement data
- Available over Modbus RTU, Neutral protection (4P)
- Pre-trip alarm LED indication
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I _{cu}	I _{cs}
AC USE	415	B250P	125	85

Trip unit

Electronic LSI, up to 5 dial-selectable characteristic curves, base current I_r is adjustable from 0.4-1xI_n

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	129	164	151	103

Product Selection

250 A FRAME 3 & 4 POLE 125 kA SE (35 mm POLE WIDTH) LSI

I _n (A @ 50 °C)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. No 3 POLE	CAT. No 4 POLE
40	16 - 40	B250P340SE	B250P440SE
125	50 - 125	B250P3125SE	B250P4125SE
250	100 - 250	B250P3250SE	B250P4250SE

250A Frame Accessories

Internal Accessories

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CATEGORY	DESCRIPTION	CAT. №
SHUNT TRIPS SH	FOR A250, P250 2/3/4P	
	100 - 120 V AC	T2SH00LA10T
	200 - 240 V AC	T2SH00LA20T
	380 - 450 V AC	T2SH00LA40T
	12 V DC	T2SH00LD01T
	24 V DC	T2SH00LD02T
	48 V DC	T2SH00LD04T
	100 - 120 V DC	T2SH00LD10T
	200 - 240 V DC	T2SH00LD20T
	FOR B250 3/4P	
	100 - 120 V AC	T2SH00A10TA
	200 - 240 V AC	T2SH00A20TA
	380 - 450 V AC	T2SH00A40TA
	12 V DC	T2SH00D01TA
	24 V DC	T2SH00D02TA
	48 V DC	T2SH00D04TA
	100 - 120 V DC	T2SH00D10TA
	200 - 240 V DC	T2SH00D20TA
UNDER-VOLTAGE TRIPS UV	INSTANTANEOUS OPERATION	
	FOR A250, P250 3/4P	
	100 - 120 V AC	T2UV00LA10NT
	200 - 240 V AC	T2UV00LA20NT
	380 - 450 V AC	T2UV00LA40NT
	24 V DC	T2UV00LD02NT
	100 - 120 V DC	T2UV00LD10NT
	200 - 240 V DC	T2UV00LD20NT
	FOR B250 3/4P	
	100 - 120 V AC	T2UV00A10NTA
	200 - 240 V AC	T2UV00A20NTA
	380 - 450 V AC	T2UV00A40NTA
	24 V DC	T2UV00D02NTA
	100 - 120 V DC	T2UV00D10NTA
	200 - 240 V DC	T2UV00D20NTA
	FOR TIME DELAYED OPERATION (500ms) - REFER NHP	

T2SH

T2UV

T2AL

T2AX



CATEGORY	DESCRIPTION	CAT. No
AUXILIARY & ALARM SWITCHES AX AL	FOR A250, P250 3/4P	
	GENERAL PURPOSE TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00LML3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00LML3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION, LEFT SIDE MOUNT	T2AL00LML3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00LML3SWA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00LML3RWA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00LML3RWA
	FOR B250 3/4P	
	GENERAL PURPOSE TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00M3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION	T2AL00M3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION	T2AL00M3SWA
	HEAVY DUTY TYPE (4 A @ 240 V INDUCTIVE)	
	1 N/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00B1STA
	1 N/C AUXILIARY WITH TERMINAL CONNECTION	T2AX00B2STA
	1 N/O ALARM WITH TERMINAL CONNECTION	T2AL00B1STA
	1 N/C ALARM WITH TERMINAL CONNECTION	T2AL00B2STA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3RTA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00M3RTA
SMART AUXILIARY SE	FOR P250 SMART ELECTRONIC (SE)	
	PROVIDES BREAKER STATUS, ON/OFF CYCLE COUNTER AND TRIP COUNTER FOR MCCB	
	SMART AX/AL DIGITAL STATUS INDICATOR	TPSS00NA
	SMART AX/AL DIGITAL STATUS INDICATOR WITH 1 C/O PRE-WIRED OUTPUT (GENERAL PURPOSE TYPE)	TPSS00MXLSWA
	SMART AX/AL DIGITAL STATUS INDICATOR WITH 1 C/O PRE-WIRED OUTPUT (MICRO SWITCHING TYPE)	TPSS00MXLRWA

T2CR	T2CF WIDE	T2CF LONG	T2CF WITH EARTH BARRIER	T2CS
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250A Frame Accessories

External Accessories

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CATEGORY	DESCRIPTION	CAT. No
INTERPOLE BARRIERS BA	INTERPOLE BARRIERS ARE SUPPLIED WITH EVERY MCCB	
	SET OF 2, TO SUIT A250/P250	T2BA25L3SH
	SET OF 2, TO SUIT B250	T2BA25L3LH
STANDARD LONG TERMINAL COVERS CF LONG	SUITS A250, P250	
	3 POLE COVER, 55mm LONG, QTY 1	T2CF25L3SLHP
	3 POLE COVER, 55mm LONG, QTY 2	T2CF25L3SLNP
	4 POLE COVER, 55mm LONG, QTY 1	T2CF25L4SLHP
	4 POLE COVER, 55mm LONG, QTY 2	T2CF25L4SLNP
	3 POLE COVER WITH REAR EARTH BARRIER, 55mm LONG, QTY 2	T2CF25L3SLEP
	4 POLE COVER WITH REAR EARTH BARRIER, 55mm LONG, QTY 2	T2CF25L4SLEP
	SUITS B250	
	3 POLE COVER, 55mm LONG, QTY 1	T2CF25L3LLHP
	4 POLE COVER, 55mm LONG, QTY 1	T2CF25L4LLHP
STANDARD WIDE TERMINAL COVERS CF WIDE	SUITS A250, P250	
	3 POLE WIDE STYLE COVER, 55mm LONG, QTY 1	T2CF25L3SWHP
	3 POLE WIDE STYLE COVER, 55mm LONG, QTY 2	T2CF25L3SWNP
	4 POLE WIDE STYLE COVER, 55mm LONG, QTY 1	T2CF25L4SWHP
	4 POLE WIDE STYLE COVER, 55mm LONG, QTY 2	T2CF25L4SWNP
	3 POLE WIDE STYLE COVER WITH REAR EARTH BARRIER, 55mm LONG, QTY 2	T2CF25L3SWEP
	4 POLE WIDE STYLE COVER WITH REAR EARTH BARRIER, 55mm LONG, QTY 2	T2CF25L4SWEP
STANDARD SHORT TERMINAL COVERS CF SHORT	SUITS A250, P250	
	3 POLE COVER, 25mm LONG, QTY 1	T2CF25L3SSH
	3 POLE COVER, 25mm LONG, QTY 2	T2CF25L3SSNP
	4 POLE COVER, 25mm LONG, QTY 1	T2CF25L4SSH
	4 POLE COVER, 25mm LONG, QTY 2	T2CF25L4SSNP
REAR CONNECT TERMINAL COVER CR	SUITS A250, P250	
	3 POLE TERMINAL COVER, QTY 1	T2CR25L3SHP
	3 POLE TERMINAL COVER, QTY 2	T2CR25L3SP
	4 POLE TERMINAL COVER, QTY 1	T2CR25L4SHP
	4 POLE TERMINAL COVER, QTY 2	T2CR25L4SP
	SUITS B250	
	3 POLE TERMINAL COVER, QTY 1	T2CR25L3SHP
	3 POLE TERMINAL COVER, QTY 2	T2CR25L3SP
	4 POLE TERMINAL COVER, QTY 1	T2CR25L4SHP
	4 POLE TERMINAL COVER, QTY 2	T2CR25L4SP
FLUSH TERMINAL COVER CS	SUITS A250, P250	
	3 POLE FLUSH TERMINAL COVER, QTY 2	T2CS25L3SP
	4 POLE FLUSH TERMINAL COVER, QTY 2	T2CS25L4SP

CATEGORY	DESCRIPTION	CAT. No
EXTENSION BARS FB	SUITS A250, P250, B250	
	3 POLE, SET OF 3, FLANGED BAR SET	T2FB25L3WH
	4 POLE, SET OF 4, FLANGED BAR SET	T2FB25L4WH
	3 POLE, SET OF 3, STRAIGHT BAR SET	T2FB25L3SH
	4 POLE, SET OF 4, STRAIGHT BAR SET	T2FB25L4SH
TUNNEL TERMINAL FITTINGS FW	SUITS A250, P250	
	3 POLE, SET OF 6 CLAMPS, 1 CABLE HOLE, 35-120 mm ²	T2FW25LS3A
	4 POLE, SET OF 8 CLAMPS, 1 CABLE HOLE, 35-120 mm ²	T2FW25LS4A
	SUITS B250	
	3 POLE, SET OF 6 CLAMPS, 1 CABLE HOLE, 35-120 mm ²	T2FW25L3B
REAR CONNECT TERMINAL STUDS RP	SUITS A250, P250	
	3 POLE KIT, SET OF 6 STUDS	T2RP25L3SA
	4 POLE KIT, SET OF 8 STUDS	T2RP25L4SA
	SUITS B250	
	3 POLE KIT, SET OF 6 STUDS	T2RP25L3A
TERMINAL COVER CLIP TC	PROVIDES ADDITIONAL TERMINAL COVER POSITION LOCKING AND ALLOW LEAD SEAL TO BE FITTED	
	COVER CLIP TO SUIT A250, P250	T2CF25LL
	COVER CLIP TO SUIT B250	T2CF00L
LOCKING DEVICES TL/HP	NON CAPTIVE: FITS UP TO 5 PADLOCKS OR A MULTI-PADLOCK DEVICE	
	TO SUIT A250, P250	T2HL25L
	TO SUIT B250	T2HL25B
	CAPTIVE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT A250	TPCLCA25
	TO SUIT A250D (ISOLATOR)	TPCLCA25D
	TO SUIT P250 TM/BE/NN	TPCLCP25
	TO SUIT P250 SE	TPCLCP25SE
	TO SUIT B250	T2HL25CAP
	HANDLE PADLOCK DEVICE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT P250 WITH HS OR HP HANDLES	TBPHP25PALK
	TO SUIT B250 WITH HS OR HP HANDLES	T2HP25PALK
TEMLUG UP	TEMLUG MCCB LINE SIDE PLUG-IN ATTACHMENT FOR P250	
	3 POLE TEMLUG	TBPUPX3250
	TEMLUGS SUIT 6.3mm BUSBAR (FOR 10mm AND 4P OPTIONS CONTACT NHP)	

T2HB



TBPUP



TPCL



CATEGORY	DESCRIPTION	CAT. No
HB DIRECT MOUNT HANDLE WITH DOOR INTERLOCK	SUITS A250	
	GREY/BLACK	T2HB25LUR5BNP
	RED/YELLOW	T2HB25LUR5RNP
	SUITS P250	
	GREY/BLACK	TPHB255UR5BN
	RED/YELLOW	TPHB255UR5RN
	SUITS B250	
	GREY/BLACK	T2HB25UR5BNP
	RED/YELLOW	T2HB25UR5RNP
HP HP SQUARE HANDLE WITH 445mm EXTENSION SHAFT IP65	SUITS A250	
	GREY/BLACK	T2HP25LR6BNP
	RED/YELLOW	T2HP25LR6RNP
	SUITS P250	
	GREY/BLACK	TPHP25SR6BN
	RED/YELLOW	TPHP25SR6RN
	SUITS B250	
	GREY/BLACK	T2HP25R6BNP
	RED/YELLOW	T2HP25R6RNP
HS HS HANDLE WITH 356mm EXTENSION SHAFT IP55	SUITS A250	
	GREY/BLACK	TPHS25LR5GM
	RED/YELLOW	TPHS25LR5RM
	SUITS P250	
	GREY/BLACK	TPHS25R5GM
	RED/YELLOW	TPHS25R5RM
	SUITS B250	
	GREY/BLACK	TPHS25SR5GM
	RED/YELLOW	TPHS25SR5RM
ML MECHANICAL INTERLOCKS LINK TYPE	INTERLOCK 2 MCCBS & ALLOWS FOR MOTORS & HANDLES. SUITABLE FOR FRONT OR REAR CONNECT TYPE MCCBS	
	SUITS A250	
	3 POLE LEFT SIDE SECTION	T2ML25LL3P
	4 POLE LEFT SIDE SECTION	T2ML25LL4P
	3 OR 4 POLE COMMON RIGHT SIDE SECTION	T2ML25LRP
	SUITS P250	
	3 POLE LEFT SIDE SECTION	TPML25SL3
	4 POLE LEFT SIDE SECTION	TPML25SL4
	3 OR 4 POLE COMMON RIGHT SIDE SECTION	TPML25SR3
	SUITS B250	
	3 POLE LEFT SIDE SECTION	T2ML25L3A
	4 POLE LEFT SIDE SECTION	T2ML25L4A
	3 OR 4 POLE COMMON RIGHT SIDE SECTION	T2ML25RA

CATEGORY	DESCRIPTION	CAT. №
MOTOR OPERATOR MC	SUITS A250	
	100 - 110 V AC	T2MC25LA10NP
	230 - 240 V AC	T2MC25LA24NP
	24 V DC	T2MC25LD02NP
	48 V DC	T2MC25LD04NP
	100 - 110 V DC	T2MC25LD10NP
	200 - 220 V DC	T2MC25LD20NP
	SUITS P250	
	110 - 110 V AC	TPMC25SA10N
	230 - 240 V AC	TPMC25SA24N
	24 V DC	TPMC25SD02N
	48 V DC	TPMC25SD04N
	100 - 110 V DC	TPMC25SD10N
	200 - 220 V DC	TPMC25SD20N
	SUITS B250	
	110 - 110 V AC	T2MC25A10NP
	230 - 240 V AC	T2MC25A24NP
	24 V DC	T2MC25D02NP
	48 V DC	T2MC25D04NP
	100 - 110 V DC	T2MC25D10NP
MOTOR INTERLOCK CABLE MM	CABLE LOOM FOR ELECTRICAL INTERLOCKING OR TRANSFER SWITCHES	
	CABLE TO INTERLOCK BETWEEN T*MC12 AND T*MC25, 0.5M	T2MM25L05A
	CABLE TO INTERLOCK BETWEEN T*MC12 AND T*MC25, 1.5M	T2MM25L15A
	CABLE TO INTERLOCK BETWEEN T*MC12 UP TO T2MC80, 2.1M	T2MM40S21A
CABLE MECHANICAL INTERLOCK MW	INTERLOCK 2 MCCBS AND ALLOWS FOR MOTORS AND HANDLES	
	INTERLOCK KIT LESS WIRE TO SUIT A250	T2MW25LCP
	INTERLOCK KIT LESS WIRE TO SUIT P250	TPMW25SCN
	INTERLOCK KIT LESS WIRE TO SUIT B250	T2MW25CA
	CABLE INTERLOCK WIRE, 1M	T2MW00SA
	CABLE INTERLOCK WIRE, 1.5M	T2MW00LA
SMART ELECTRONIC ACCESSORIES SE	FOR P250 SMART ELECTRONIC (SE)	
	MODBUS RTU COMMUNICATION MODULE	TPCM00D02NA
	MODBUS RTU COMMUNICATION MODULE WITH 2DI/2DO	TPCM00D02WA
	EXTERNAL MONITOR AND CONFIGURATOR DISPLAY	TVPO0N
	CONNECTION CABLE, MCCB CIP TO TPCM/TV, 1.5M	TPPHQTT340HA
	CONNECTION CABLE, MCCB CIP TO FLY-LEADS FOR DEDICATED 24VDC SUPPLY TO TRIP UNIT, 1.2M	TPPHQTT140HA
	CONNECTION CABLE, MCCB TO MCCB FOR ZONE SELECTIVE INTERLOCKING (ZSI), 1.2M	TPPHQTT150HA
	CONNECTION CABLE, OPTIONAL ALARM CONTACT (OAC) OR PRE-TRIP ALARM (PTA) TO FLY-LEADS 1.2M	TPPHQTT130HA

TemBreak Pro P400 NN

Non-Auto Switch Disconnecter

- Non-Auto switch disconnecter for power distribution
- Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions available
- Suits XCP chassis
- Range of accessories available, see accessory section for further details



Short Circuit

RATED I_{cw}	RATED I_{cm}
5 kA FOR 1.0 s	2.8 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH P400E	WITH P400F	WITH P400N
25 kA	36 kA	50 kA

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
260	140	185	145	103

Product Selection

400 A FRAME 3 & 4 POLE NN (45 mm POLE WIDTH)

I_n (A @50 °C)	POLES	CAT. No
400	3	P400D3400NN
400	4	P400D4400NN

TemBreak Pro P400 TM

Thermal Magnetic MCCB

TemBreak PRO
400 and 630 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 110kA
- 3 or 4 pole versions available
- Neutral protection available as standard on 4 pole models
- Suits XCP chassis
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P400E	25	25
		P400F	36	36
		P400N	50	50
		P400H	70	70
		P400S	110	110
DC USE	250	P400E	25	25
		P400F	25	25
		P400N	50	50
		P400H	50	50
		P400S	50	50

Trip unit

Adjustable thermal ($0.63 I_r$ to $100\% I_r$) and adjustable magnetic

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
260	140	185	151	103

Product Selection

400 A FRAME 3 & 4 POLE 25 kA TM (45 mm POLE WIDTH)

I_n (A @ 50 °C)	I_t , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. No 3 POLE	CAT. No 4 POLE
250	157 - 250	1250 - 2000	P400E3250TM	P400E4250TM
400	252 - 400	2000 - 4000	P400E3400TM	P400E4400TM

400 A FRAME 3 & 4 POLE 36 kA TM (45 mm POLE WIDTH)

I_n (A @ 50 °C)	I_t , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. No 3 POLE	CAT. No 4 POLE
250	157 - 250	1250 - 2500	P400F3250TM	P400F4250TM
400	252 - 400	2000 - 4000	P400F3400TM	P400F4400TM

400 A FRAME 3 & 4 POLE 50 kA TM (45 mm POLE WIDTH)

I_n (A @ 50 °C)	I_t , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. No 3 POLE	CAT. No 4 POLE
250	157 - 250	1250 - 2500	P400N3250TM	P400N4250TM
400	252 - 400	2000 - 4000	P400N3400TM	P400N4400TM

400 A FRAME 3 & 4 POLE 70 kA TM (45 mm POLE WIDTH)

I_n (A @ 50 °C)	I_t , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. No 3 POLE	CAT. No 4 POLE
250	157 - 250	1250 - 2500	P400H3250TM	P400H4250TM
400	252 - 400	2000 - 4000	P400H3400TM	P400H4400TM

400 A FRAME 3 & 4 POLE 110 kA TM (45 mm POLE WIDTH)

I_n (A @ 50 °C)	I_t , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. No 3 POLE	CAT. No 4 POLE
250	157 - 250	1250 - 2500	P400S3250TM	P400S4250TM
400	252 - 400	2000 - 4000	P400S3400TM	P400S4400TM

TemBreak Pro P400 BE / BEG

Basic Electronic MCCB

TemBreak PRO
400 and 630 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 110kA
- Standard features depend on MCCB model:
Adjustable LSI (BE type), LSIG (BEG type),
Neutral protection (4P), Pre-Trip Alarm and
- internal temperature monitoring (all)
- 3 or 4 pole versions available
- Suits XCP chassis
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P400F	36	36
		P400N	50	50
		P400H	70	70
		P400S	110	110

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	I_r : 0.37-1X I_n , OFF	t_r : 0.5-16s
STD ADJUSTMENT	I_{sd} : 1.5-10X I_r , OFF	t_{sd} : 50-400ms
INSTANTANEOUS ADJUSTMENT:	I_i : 3-12X I_n	
GF ADJUSTMENT (BEG ONLY):	I_g : 0.4X I_n , OFF	t_g : 200ms
N ADJUSTMENT (4P ONLY):	50%, 100% OF I_r/I_{sd} , OFF	

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
260	140	185	145	103

Product Selection

400 A FRAME 3 & 4 POLE 36 kA BE (45 mm POLE WIDTH) LSI

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	92-250	P400F3250BE	P400F4250BE
400	147.2-400	P400F3400BE	P400F4400BE

400 A FRAME 3 & 4 POLE 36 kA BEG (45 mm POLE WIDTH) LSIG

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	92-250	P400F3250BEG	P400F4250BEG
400	147.2-400	P400F3400BEG	P400F4400BEG

400 A FRAME 3 & 4 POLE 50 kA BE (45 mm POLE WIDTH) LSI

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	92-250	P400N3250BE	P400N4250BE
400	147.2-400	P400N3400BE	P400N4400BE

400 A FRAME 3 & 4 POLE 50 kA BEG (45 mm POLE WIDTH) LSIG

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	92-250	P400N3250BEG	P400N4250BEG
400	147.2-400	P400N3400BEG	P400N4400BEG

400 A FRAME 3 & 4 POLE 70 kA BE (45 mm POLE WIDTH) LSI

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	92-250	P400H3250BE	P400H4250BE
400	147.2-400	P400H3400BE	P400H4400BE

400 A FRAME 3 & 4 POLE 70 kA BEG (45 mm POLE WIDTH) LSIG

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	92-250	P400H3250BEG	P400H4250BEG
400	147.2-400	P400H3400BEG	P400H4400BEG

400 A FRAME 3 & 4 POLE 110 kA BE (45 mm POLE WIDTH) LSI

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	92-250	P400S3250BE	P400S4250BE
400	147.2-400	P400S3400BE	P400S4400BE

400 A FRAME 3 & 4 POLE 110 kA BEG (45 mm POLE WIDTH) LSIG

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	92-250	P400S3250BEG	P400S4250BEG
400	147.2-400	P400S3400BEG	P400S4400BEG

TemBreak Pro P400 SE

Smart Electronic MCCB with Energy Metering

TemBreak PRO

400 and 630 Amp

- General purpose power distribution, energy metering and communications, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 110kA
- Standard features include adjustable LSIG, internal temperature monitoring and alarm, Pre-Trip Alarm, Neutral protection (4P models only), V/I/Energy measurement and control
- Measurements and data available over Modbus RTU with external TPCM module
- 3 or 4 pole versions available
- Suits XCP chassis
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P400F	36	36
		P400N	50	50
		P400H	70	70
		P400S	110	110

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	I_r : 0.4-1X I_n , OFF	t_r : 0.5-16s
STD ADJUSTMENT	I_{sd} : 1.5-10X I_r , OFF	t_{sd} : 50-400ms
INSTANTANEOUS ADJUSTMENT:	I_i : 3-12X I_n	
GF ADJUSTMENT:	IG: 0.2-1X I_n , OFF	t_g : 50-500ms
N ADJUSTMENT (4P ONLY):	50%, 100% OF I_r/I_{sd} , OFF	

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
260	140	185	145	103

Product Solution

400 A FRAME 3 & 4 POLE 36 kA SE (45 mm POLE WIDTH) LSIG

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	100-250	P400F3250SE	P400F4250SE
400	160-400	P400F3400SE	P400F4400SE

400 A FRAME 3 & 4 POLE 50 kA SE (45 mm POLE WIDTH) LSIG

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	100 - 250	P400N3250SE	P400N4250SE
400	160 - 400	P400N3400SE	P400N4400SE

400 A FRAME 3 & 4 POLE 70 kA SE (45 mm POLE WIDTH) LSIG

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	100-250	P400H3250SE	P400H4250SE
400	160-400	P400H3400SE	P400H4400SE

400 A FRAME 3 & 4 POLE 110 kA SE (45 mm POLE WIDTH) LSIG

I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	100-250	P400S3250SE	P400S4250SE
400	160-400	P400S3400SE	P400S4400SE

TemBreak Pro B400 BE

Basic Electronic MCCB

TemBreak PRO

400 and 630 Amp

- High fault level applications in power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device reduces fault let through energy for increased installation safety.
- Standard features depend on MCCB model:
Adjustable LSI (BE type), LSIG (BEG type),
Pre-Trip Alarm LED indication (all)
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B400P	125	85
		B400R	200	150

Trip unit

Electronic LSI, 10 dial-selectable characteristic curves suited for a variety of applications, base current I_r is adjustable from $0.4-1 \times I_n$

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
260	140	185	182	140

Product Selection

400 A FRAME 3 & 4 POLE 125 kA BE (45 mm POLE WIDTH) LSI

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	100 - 250	B400P3250BE	B400P4250BE
400	160 - 400	B400P3400BE	B400P4400BE

400 A FRAME 3 & 4 POLE 125 kA BEG (45 mm POLE WIDTH) LSI

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	CAT. №3 POLE	CAT. №4 POLE
250	100 - 250	B400P3250BEG	B400P4250BEG
400	160 - 400	B400P3400BEG	B400P4400BEG

400 A FRAME 3 & 4 POLE 200 kA BE (45 mm POLE WIDTH) LSI

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	100 - 250	B400R3250BE	B400R4250BE
400	160 - 400	B400R3400BE	B400R4400BE

TemBreak Pro B400 SX

Smart Electronic MCCB with Ammeter

TemBreak PRO
400 and 630 Amp

- High fault level applications in power distribution, integrated Ammeter measurement, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- Standard features include LSI, Neutral protection (4P only), Amp measurements via built-in LED back-lit display
- Pre-trip alarm LED indication
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I _{cu}	I _{cs}
AC USE	415	B400P	125	85
		B400R	200	150

Trip unit

Electronic LSI, up to 5 dial-selectable characteristic curves, base current I_r is adjustable from 0.8-1xI_n

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
260	140	185	182	140

Product Selection

400 A FRAME 3 & 4 POLE 125 kA SX (45 mm POLE WIDTH) LSI

I _n (A @ 50 °C)	I _r , ADJUSTABLE THERMAL SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	200 - 250	B400P3250SX	B400P4250SX
400	320 - 400	B400P3400SX	B400P4400SX

400 A FRAME 3 & 4 POLE 200 kA SX (45 mm POLE WIDTH) LSI

I _n (A @ 50 °C)	I _r , ADJUSTABLE THERMAL SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	200 - 250	B400R3250SX	B400R4250SX
400	320 - 400	B400R3400SX	B400R4400SX

TemBreak Pro B400 SE

Smart Electronic MCCB with Energy Metering

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- High fault level applications in power distribution, energy metering and communications, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- Standard features include adjustable LSIG, Pre-Trip Alarm, Neutral protection (4P models only), V/I/Energy measurement and control
- Measurements and data available via built-in
- LED back-lit display or over Modbus RTU
- Panel mount display (T2ED) available for external metering and monitoring
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B400P	125	85
		B400R	200	150

Trip unit

Electronic LSIG, up to 5 dial-selectable characteristic curves, base current I_r is adjustable from $0.8 \cdot I_n$

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
260	140	185	182	140

Product Selection

400 A FRAME 3 & 4 POLE 125 kA SE (45 mm POLE WIDTH) LSIG

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	200 - 250	B400P3250SE	B400P4250SE
400	320 - 400	B400P3400SE	B400P4400SE

400 A FRAME 3 & 4 POLE 200 kA SE (45 mm POLE WIDTH) LSIG

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
250	200 - 250	B400R3250SE	B400R4250SE
400	320 - 400	B400R3400SE	B400R4400SE

TemBreak Pro P630 TM

Thermal Magnetic MCCB

TemBreak PRO
400 and 630 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 110kA
- 3 or 4 pole versions available
- Neutral protection available as standard on 4 pole models
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P630E	25	25
		P630F	36	36
		P630N	50	50
		P630H	70	70
		P630S	110	110
DC USE	250	P630E	25	25
		P630F	25	25
		P630N	50	50
		P630H	50	50
		P630S	50	50

Trip unit

Adjustable thermal (0.63 I_r to 100% I_r) and adjustable magnetic

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
260	140	185	151	130

Product Selection

630 A FRAME 3 & 4 POLE TM (45 mm POLE WIDTH)

kA	I_n (A @ 30 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_m , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. №4 POLE
25	630	396 - 630	2520 - 5040	P630E3630TM	P630E4630TM
36	630	396 - 630	2520 - 5040	P630F3630TM	P630F4630TM
50	630	396 - 630	2520 - 5040	P630N3630TM	P630N4630TM
70	630	400 - 630	2520 - 5040	P630H3630TM	P630H4630TM
110	630	400 - 630	2520 - 5040	P630S3630TM	P630S4630TM

TemBreak Pro P630 BE / BEG

Basic Electronic MCCB

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- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 110kA
- Standard features depend on MCCB model:
Adjustable LSI (BE type), LSIG (BEG type),
Neutral protection (4P), Pre-Trip Alarm and
internal temperature monitoring (all)
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P630F	36	36
		P630N	50	50
		P630H	70	70
		P630S	110	110

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	I_r : 0.37-1X I_n , OFF	t_r : 0.5-16s
STD ADJUSTMENT	I_{sd} : 1.5-10X I_r , OFF	t_{sd} : 50-400ms
INSTANTANEOUS ADJUSTMENT:	I_i : 3-11X I_n	
GF ADJUSTMENT:	I_g : 0.4X I_n , OFF	t_g : 200ms
N ADJUSTMENT (4P ONLY):	50%, 100% OF I_r/I_{sd} , OFF	

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
260	140	185	145	103

Continued on the next page →

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Product Selection

630 A FRAME 3 & 4 POLE BE (45 mm POLE WIDTH) LSI

kA	I _n (A @ 50 °C)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. №4 POLE
36	630	230-630	P630F3630BE	P630F4630BE
50	630	230-630	P630N3630BE	P630N4630BE
70	630	230-630	P630H3630BE	P630H4630BE
110	630	230-630	P630S3630BE	P630S4630BE

630 A FRAME 3 & 4 POLE BEG (45 mm POLE WIDTH) LSiG

kA	I _n (A @ 50 °C)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. №4 POLE
36	630	230-630	P630F3630BEG	P630F4630BEG
50	630	230-630	P630N3630BEG	P630N4630BEG
70	630	230-630	P630H3630BEG	P630H4630BEG
110	630	230-630	P630S3630BEG	P630S4630BEG

TemBreak Pro P630 SE

Smart Electronic MCCB with Energy Metering

- General purpose power distribution, energy metering and communications, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 110kA, with 3 or 4 pole versions available
- Standard features include adjustable LSIG, internal temperature monitoring and alarm, Pre-Trip Alarm, Neutral protection (4P models only), V/I/Energy measurement and control
- Measurements and data available over Modbus RTU with external TPCM module
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	P630F	36	36
		P630N	50	50
		P630H	70	70
		P630S	110	110

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	I_r : 0.4-1X I_n , OFF	t_r : 0.5-16s
STD ADJUSTMENT	I_{sd} : 1.5-10X I_r , OFF	t_{sd} : 50-400ms
INSTANTANEOUS ADJUSTMENT:	I_i : 3-11X I_n	
GF ADJUSTMENT (BEG ONLY):	I_g : 0.2-1X I_n , OFF	t_g : 50-500ms
N ADJUSTMENT (4P ONLY):	50%, 100% OF I_r/I_{sd} , OFF	

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
260	140	185	145	103

Product Selection

630 A FRAME 3 & 4 POLE 36 kA SE (45 mm POLE WIDTH) LSIG

kA	I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
36	630	250 - 630	P630F3630SE	P630F4630SE
50	630	250 - 630	P630N3630SE	P630N4630SE
70	630	250 - 630	P630H3630SE	P630H4630SE
110	630	250 - 630	P630S3630SE	P630S4630SE

TemBreak Pro P630 NN

Non-Auto Switch Disconnecter

TemBreak PRO
400 and 630 Amp

- Non-Auto switch disconnecter for power distribution
AC23 and DC22 ratings for motor starting use.
- Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions available
- Range of accessories available,
see accessory section for further details



Short Circuit

RATED I_{cw}

7.6 kA FOR 1.0 s

RATED I_{cm}

13 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH P630E

25 kA

WITH P630F

36 kA

WITH P630N

50 kA

Dimensions mm

HEIGHT

260

WIDTH 3P

140

WIDTH 4P

185

DEPTH WITH TOGGLE

145

DEPTH W/O TOGGLE

103

Product Selection

630 A FRAME NN (45mm POLE WIDTH)

I_n (A @50 °C)

400

400

POLES

3

4

CAT. No

P630D3630NN

P630D4630NN

400A & 630A Frame Accessories

Internal Accessories

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CATEGORY	DESCRIPTION	CAT. No
SHUNT TRIPS SH	FOR P400, P630	
	100 - 120 V AC	T2SH00LA10T
	200 - 240 V AC	T2SH00LA20T
	380 - 450 V AC	T2SH00LA40T
	12 V DC	T2SH00LD01T
	24 V DC	T2SH00LD02T
	48 V DC	T2SH00LD04T
	100 - 120 V DC	T2SH00LD10T
	200 - 240 V DC	T2SH00LD20T
	FOR B400	
	100 - 120 V AC	T2SH00A10TA
	200 - 240 V AC	T2SH00A20TA
	380 - 450 V AC	T2SH00A40TA
	12 V DC	T2SH00D01TA
	24 V DC	T2SH00D02TA
	48 V DC	T2SH00D04TA
	100 - 120 V DC	T2SH00D10TA
	200 - 240 V DC	T2SH00D20TA
UNDER-VOLTAGE TRIPS UV	INSTANTANEOUS OPERATION	
	FOR P400, P630	
	100 - 120 V AC	T2UV00LA10NT
	200 - 240 V AC	T2UV00LA20NT
	380 - 450 V AC	T2UV00LA40NT
	24 V DC	T2UV00LD02NT
	100 - 120 V DC	T2UV00LD10NT
	200 - 240 V DC	T2UV00LD20NT
	FOR B400	
	100 - 120 V AC	T2UV00A10NTA
	200 - 240 V AC	T2UV00A20NTA
	380 - 450 V AC	T2UV00A40NTA
	24 V DC	T2UV00D02NTA
	100 - 120 V DC	T2UV00D10NTA
	200 - 240 V DC	T2UV00D20NTA
	FOR TIME DELAYED OPERATION (500ms) - REFER NHP	

T2SH

T2UV

T2AL

T2AX



CATEGORY	DESCRIPTION	CAT. No
AUXILIARY & ALARM SWITCHES AX AL	FOR P400, P630	
	GENERAL PURPOSE TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00LML3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00LML3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION, LEFT SIDE MOUNT	T2AL00LML3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00LML3SWA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00LML3RWA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00LML3RWA
	FOR B400	
	GENERAL PURPOSE TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00M3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION	T2AL00M3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION	T2AL00M3SWA
	HEAVY DUTY TYPE (4 A @ 240 V INDUCTIVE)	
	1 N/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00B1STA
	1 N/C AUXILIARY WITH TERMINAL CONNECTION	T2AX00B2STA
	1 N/O ALARM WITH TERMINAL CONNECTION	T2AL00B1STA
	1 N/C ALARM WITH TERMINAL CONNECTION	T2AL00B2STA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3RTA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00M3RTA
SMART AUXILIARY SE	FOR P400, P630 SMART ELECTRONIC (SE)	
	PROVIDES BREAKER STATUS, ON/OFF CYCLE COUNTER AND TRIP COUNTER FOR MCCB	
	SMART AX/AL DIGITAL STATUS INDICATOR	TPSS00NA
	SMART AX/AL DIGITAL STATUS INDICATOR WITH 1 C/O PRE-WIRED OUTPUT (GENERAL PURPOSE TYPE)	TPSS00MXLSWA
	SMART AX/AL DIGITAL STATUS INDICATOR WITH 1 C/O PRE-WIRED OUTPUT (MICRO SWITCHING TYPE)	TPSS00MXLRWA

T2CR	T2CF WIDE	T2CF LONG	T2CF WITH EARTH BARRIER	T2CS
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400A & 630A Frame Accessories

External Accessories

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CATEGORY	DESCRIPTION	CAT. No
INTERPOLE BARRIERS BA	INTERPOLE BARRIERS ARE SUPPLIED WITH EVERY MCCB SET OF 2, TO SUIT P400/P630/B400	T2BA403SH
STANDARD LONG TERMINAL COVERS CF LONG	SUITS P400, P630 3 POLE COVER, 85mm LONG, QTY 1 3 POLE COVER, 85mm LONG, QTY 2 4 POLE COVER, 85mm LONG, QTY 1 4 POLE COVER, 85mm LONG, QTY 2 3 POLE COVER WITH REAR EARTH BARRIER, 85mm LONG, QTY 1 4 POLE COVER WITH REAR EARTH BARRIER, 85mm LONG, QTY 1	TPCF633SLNPH TPCF633SLNP TPCF634SLNPH TPCF634SLNP TPCF633SLEPH TPCF634SLEPH
STANDARD WIDE TERMINAL COVERS CF WIDE	SUITS P400, P630 3 POLE WIDE STYLE COVER, 85mm LONG, QTY 1 3 POLE WIDE STYLE COVER, 85mm LONG, QTY 2 4 POLE WIDE STYLE COVER, 85mm LONG, QTY 1 4 POLE WIDE STYLE COVER, 85mm LONG, QTY 2 3 POLE WIDE STYLE COVER WITH REAR EARTH BARRIER, 85mm LONG, QTY 1 3 POLE WIDE STYLE COVER WITH REAR EARTH BARRIER, 85mm LONG, QTY 2	TPCF633SWNPH TPCF633SWNP TPCF634SWNPH TPCF634SWNP TPCF633SWEPH TPCF634SWEPH
REAR CONNECT TERMINAL COVER CR	SUITS P400, P630 3 POLE TERMINAL COVER, QTY 1 3 POLE TERMINAL COVER, QTY 2 4 POLE TERMINAL COVER, QTY 1 4 POLE TERMINAL COVER, QTY 2 SUITS B400 3 POLE TERMINAL COVER, QTY 1 3 POLE TERMINAL COVER, QTY 2 4 POLE TERMINAL COVER, QTY 1 4 POLE TERMINAL COVER, QTY 2	TPCR633SPH TPCR633SP TPCR634SPH TPCR634SP T2CR403SHP T2CR403SP T2CR404SHP T2CR404SP
FLUSH TERMINAL COVER CS	SUITS P400, P630 3 POLE FLUSH TERMINAL COVER, QTY 1 4 POLE FLUSH TERMINAL COVER, QTY 1	TPCS633SPH TPCS634SPH
TERMINAL CLIP COVER TC	PROVIDES ADDITIONAL TERMINAL COVER POSITION LOCKING AND ALLOW LEAD SEAL TO BE FITTED COVER CLIP TO SUIT P400, P630 COVER CLIP TO SUIT B400	TPCF63SL T2CF00L

400A & 630A Frame Accessories

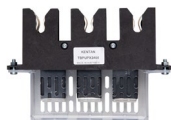
External Accessories

TemBreak PRO
Accessories

CATEGORY	DESCRIPTION	CAT. No
EXTENSION BARS FB	SUITS P400, B400	
	3 POLE, SET OF 3, STRAIGHT BAR SET	T2FB403H
	4 POLE, SET OF 4, STRAIGHT BAR SET	T2FB404H
	3 POLE, SET OF 3, FLANGED BAR SET	TPFB403WHA
	4 POLE, SET OF 4, FLANGED BAR SET	TPFB404WHC
	SUITS P630	
	3 POLE, SET OF 3, FLANGED BAR SET	TPFB633WHC
	4 POLE, SET OF 4, FLANGED BAR SET	TPFB634WHC
	SUITS P400, P630	
	3 POLE, SET OF 3 CLAMPS, 1 CABLE HOLE, 35-300 mm ²	TPFW63S3S1H
TUNNEL TERMINAL FITTINGS FW	4 POLE, SET OF 4 CLAMPS, 1 CABLE HOLE, 35-300 mm ²	TPFW63S4S1H
	3 POLE, SET OF 3 CLAMPS, 2 CABLE HOLES, 35-300 mm ²	TPFW63S3L2H
	4 POLE, SET OF 4 CLAMPS, 2 CABLE HOLES, 35-300 mm ²	TPFW63S4L2H
	SUITS B400	
	3 POLE, SET OF 6 CLAMPS, 1 CABLE HOLE, 240 mm ²	T2FW40L3A
	4 POLE, SET OF 8 CLAMPS, 1 CABLE HOLE, 240 mm ²	T2FW40L4A
	SUITS P400	
	3 POLE KIT, SET OF 6 STUDS	T2RP403SA
	4 POLE KIT, SET OF 8 STUDS	T2RP404SA
	SUITS B400	
REAR CONNECT TERMINAL STUDS RP	3 POLE KIT, SET OF 6 STUDS	T2RP403LA
	4 POLE KIT, SET OF 8 STUDS	T2RP404LA
	SUITS P630	
	3 POLE KIT, SET OF 6 STUDS	T2RP463SA
	4 POLE KIT, SET OF 8 STUDS	T2RP464SH
	NON-CAPTIVE TOGGLE LOCK: FITS UP TO 5 PADLOCKS OR A MULTI-PADLOCK DEVICE	
	TO SUIT P400, P630	TPHL63SA
	TO SUIT B400	T2HL40A
	CAPTIVE TOGGLE LOCK: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT P400, P630	TPCLCP63
LOCKING DEVICES TL/HP	HANDLE PADLOCK DEVICE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT P400, P630, B400 WITH HS OR HP HANDLES	T2HP40PALK
	TEMPLUG MCCB LINE SIDE PLUG-IN ATTACHMENT FOR P400 AND P630	
	3 POLE P400 TEMPLUG	TBPUPX3400
	3 POLE P630 TEMPLUG	TBPUPX3630
	TEMPLUGS SUIT 6.3mm BUSBAR (FOR 10mm AND 4P OPTIONS CONTACT NHP)	
TEMPLUG UP		

TBPUP

T2RP



400A & 630A Frame Accessories

External Accessories

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CATEGORY	DESCRIPTION	CAT. No
HB	DIRECT MOUNT HANDLE WITH DOOR INTERLOCK	SUITS P400, P630
	GREY/BLACK	TPHB635UR5BN
	RED/YELLOW	TPHB635UR5RN
	SUITS B400	
	GREY/BLACK	T2HB40UR5BNP
HP	HP SQUARE HANDLE WITH 445mm EXTENSION SHAFT IP65	SUITS P400, P630
	GREY/BLACK	TPHP63SR6BN
	RED/YELLOW	TPHP63SR6RN
	SUITS B400	
	GREY/BLACK	T2HP40R6BNP
HS	HS HANDLE WITH 356mm EXTENSION SHAFT IP55	SUITS P400, P630
	GREY/BLACK	TPHS63R5GM
	RED/YELLOW	TPHS63R5RM
	SUITS B400	
	GREY/BLACK	TPHS40BR6GM
ML	MECHANICAL INTERLOCKS LINK TYPE	INTERLOCK 2 MCCBS, SEPARATE MODELS ALLOW FOR MOTORS AND HANDLES. SUITABLE FOR FRONT OR REAR CONNECT TYPE MCCBS
	SUITS P400, P630	
	3 POLE LEFT SIDE SECTION FOR USE WITH HANDLES	TPML63SL3H
	4 POLE LEFT SIDE SECTION FOR USE WITH HANDLES	TPML63SL4H
	3 OR 4 POLE COMMON RIGHT SIDE SECTION FOR USE WITH HANDLES	TPML63SR3H
	3 POLE LEFT SIDE SECTION FOR USE WITH MOTORS	TPML63SL3M
	4 POLE LEFT SIDE SECTION FOR USE WITH MOTORS	TPML63SL4M
	3 OR 4 POLE COMMON RIGHT SIDE SECTION FOR USE WITH MOTORS	TPML63SR3M
	SUITS B400	
	3 POLE LEFT SIDE SECTION FOR USE WITH HANDLES	T2ML40L3B
	4 POLE LEFT SIDE SECTION FOR USE WITH HANDLES	T2ML40L4B
	3 OR 4 POLE COMMON RIGHT SIDE SECTION FOR USE WITH HANDLES	T2ML40RB
	3 POLE LEFT SIDE SECTION FOR USE WITH MOTORS	T2ML40L3P
	4 POLE LEFT SIDE SECTION FOR USE WITH MOTORS	T2ML40L4P
	3 OR 4 POLE COMMON RIGHT SIDE SECTION FOR USE WITH MOTORS	T2ML40RP

TPHS

TPML



400A & 630A Frame Accessories

External Accessories

TemBreak PRO
Accessories

CATEGORY	DESCRIPTION	CAT. No
MOTOR OPERATOR MC	SUITS P400, P630	
	110-240 V AC	TPMC63SA10N
	24-48 V DC	TPMC63SD02N
	110 V DC	TPMC63SD10N
	SUITS B400	
	110-240 V AC	T2MC40A10NP
	24-48 V DC	T2MC40D02NP
MOTOR INTERLOCK CABLE MM	CABLE LOOM FOR ELECTRICAL INTERLOCKING OR TRANSFER SWITCHES	
	CABLE TO INTERLOCK BETWEEN T*MC40 UP TO T2MC80, 0.6m	T2MM40L06A
	CABLE TO INTERLOCK BETWEEN T*MC40 UP TO T2MC80, 2.1m	T2MM40L21A
	CABLE TO INTERLOCK BETWEEN T*MC12 UP TO T2MC80, 2.1m	T2MM40S21A
CABLE MECHANICAL INTERLOCK MW	INTERLOCK 2 MCCBS, SEPARATE MODELS ALLOW FOR MOTORS AND HANDLES	
	INTERLOCK KIT LESS WIRE TO SUIT P400, P630 WITH HANDLES	TPMW63SCH
	INTERLOCK KIT LESS WIRE TO SUIT B400 WITH HANDLES	T2MWH40CP
	INTERLOCK KIT LESS WIRE TO SUIT P400, P630 WITH MOTORS	TPMW63SCM
	INTERLOCK KIT LESS WIRE TO SUIT B400 WITH MOTORS	T2MW40CP
	CABLE INTERLOCK WIRE, 1m	T2MW00SA
	CABLE INTERLOCK WIRE, 1.5m	T2MW00LA
SMART ELECTRONIC ACCESSORIES SE	FOR P400, P630 SMART ELECTRONIC (SE)	
	MODBUS RTU COMMUNICATION MODULE	TPCM00D02NA
	MODBUS RTU COMMUNICATION MODULE WITH 2DI/2DO	TPCM00D02WA
	EXTERNAL MONITOR AND CONFIGURATOR DISPLAY	TVP00N
	CONNECTION CABLE, MCCB CIP TO TPCM/TVP, 1.5m	TPPHQTT440HA
	CONNECTION CABLE, MCCB CIP TO FLY-LEADS FOR DEDICATED 24VDC SUPPLY TO TRIP UNIT, 1.2m	TPPHQTT160HA
	CONNECTION CABLE, MCCB TO MCCB FOR ZONE SELECTIVE INTERLOCKING (ZSI), 1.2m	TPPHQTT150HA
	CONNECTION CABLE, OPTIONAL ALARM CONTACT (OAC) OR PRE-TRIP ALARM (PTA) TO FLY-LEADS 1.2m	TPPHQTT130HA

TPMC



TVP



TPCM



NHP Enclosure Range

An Enclosure for every Application



NHP offers a range of enclosures from economical terminal boxes through to larger wall mount enclosures and bayable floor mount enclosures. Our enclosure solutions are available in a range of materials including ABS plastic, glass-fibre -reinforced polycarbonate, aluminium, powder coated mild steel and marine grade 316L stainless steel.

NHP's New Enclosure Product Selector

Now makes it easy to find the enclosure that best suits your application. The product selector includes all the accessories for your enclosure plus data sheets & cad blocks for each enclosure.



Scan to use
our product
selector

TemBreak Pro B800 TM

Thermal Magnetic MCCB

TemBreak PRO
800 and 1000 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- $I_{cs} = 100\% I_{cu}$ on models up to 50kA
- 3 or 4 pole versions available
- Neutral protection available as standard on 4 pole models
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B800F	36	36
		B800N	50	50
		B800H	70	50
DC USE	250	B800F	50	50
		B800N	50	50
		B800H	50	50

Trip unit

Adjustable thermal ($0.63 I_r$ to $100\% I_r$) and adjustable magnetic

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
273	210	280	145	103

Product Selection

800 A FRAME 3 & 4 POLE TM (70 mm POLE WIDTH)

kA	I_n (A @ 50 °C)	I_t , ADJUSTABLE THERMAL SETTING (A)	I_r , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE
36	630	396 - 630	3150 - 6300	B800F3630TM	B800F4630TM
	800	504 - 800	4000 - 8000	B800F3800TM	B800F4800TM
50	630	396 - 630	3150 - 6300	B800N3630TM	B800N4630TM
	800	504 - 800	4000 - 8000	B800N3800TM	B800N4800TM
70	630	396 - 630	3150 - 6300	B800H3630TM	B800H4630TM
	800	504 - 800	4000 - 8000	B800H3800TM	B800H4800TM
100	630	396 - 630	3150 - 6300	B800G3630TM	B800G4630TM
	800	504 - 800	4000 - 8000	B800G3800TM	B800G4800TM

TemBreak Pro B800 BE / BEG

Basic Electronic MCCB

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- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety.
- Standard features depend on MCCB model:
Adjustable LSI (BE type), LSIG (BEG type),
Pre-Trip Alarm LED indication (all)
- 3 or 4 pole versions available
- Range of accessories available,
see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B800N	50	50
		B800H	70	50
		B800G	100	50
		B800P	125	94
		B800R	200	150

Trip unit

Electronic LSI, 10 dial-selectable characteristic curves suited for a variety of applications, base current I_r is adjustable from 0.4-1x I_n

Dimensions mm

MAKE	HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
B800N, H, G	273	210	280	145	103
B800P, R	273	210	280	182	140

Continued on the next page →

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Product Selection

800 A FRAME 3 & 4 POLE BE (70 mm POLE WIDTH) LSI

kA	I _n (A @ 50 °C)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. №4 POLE
50	630	252-630	B800N3630BE	B800N4630BE
	800	320-800	B800N3800BE	B800N4800BE
70	630	252-630	B800H3630BE	B800H4630BE
	800	320-800	B800H3800BE	B800H4800BE
100	630	252-630	B800G3630BE	B800G4630BE
	800	320-800	B800G3800BE	B800G4800BE
125	630	252-630	B800P3630BE	B800P4630BE
	800	320-800	B800P3800BE	B800P4800BE
200	630	252-630	B800R3630BE	B800R4630BE
	800	320-800	B800R3800BE	B800R4800BE

800 A FRAME 3 & 4 POLE BEG (70 mm POLE WIDTH) LSIg

kA	I _n (A @ 50 °C)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. №4 POLE
70	630	252-630	B800H3630BEG	B800H4630BEG
	800	320-800	B800H3800BEG	B800H4800BEG
125	630	252-630	B800P3630BEG	B800P4630BEG
	800	320-800	B800P3800BEG	B800P4800BEG

TemBreak Pro B800 SX

Smart Electronic MCCB with Ammeter

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- General purpose power distribution, integrated Ammeter measurement, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- Standard features include LSI, Neutral protection (4P only), Amp measurements via built-in LED back-lit display
- Pre-trip alarm LED indication
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B800N	50	50
		B800H	70	50
		B800P	125	94
		B800G	100	50

Trip unit

Electronic LSI, up to 5 dial-selectable characteristic curves, base current I_r is adjustable from 0.4-1x I_{ct}

Dimensions mm

MAKE	HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
B800N/H/G	273	210	280	145	103
B800P/R	273	210	280	182	140

Product Selection

800 A FRAME 3 & 4 POLE SX (70 mm POLE WIDTH) LSI

kA	I_n (A @ 50 °C)	I_r ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. №4 POLE
50	800	320-800	B800N3800SX	B800N4800SX
70	800	320-800	B800H3800SX	B800H4800SX
100	800	320-800	B800G3800SX	B800G4800SX
125	800	320-800	B800P3800SX	B800P4800SX
200	800	320-800	B800R3800SX	B800R4800SX

TemBreak Pro B800 SE

Smart Electronic MCCB with Energy Metering

TemBreak PRO
800 and 1000 Amp

- General purpose power distribution, energy metering and communications, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- Standard features include adjustable LSIG, Pre-Trip Alarm, Neutral protection (4P models only), V/I/Energy measurement and control
- Measurements and data available via built-in LED back-lit display or over Modbus RTU
- Panel mount display (T2ED) available for external metering and monitoring
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B800N	50	50
		B800H	70	50
		B800G	100	50
		B800P	125	94
		B800R	200	150

Trip unit

Electronic LSI, up to 5 dial-selectable characteristic curves, base current I_r is adjustable from $0.4 \cdot 1xI_{ct}$

Dimensions mm

MAKE	HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
B800N/H/G	273	210	280	145	103
B800P/R	273	210	280	182	140

Product Selection

800 A FRAME 3 & 4 POLE SE (70 mm POLE WIDTH) LSIG

kA	I_n (A @ 50 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. №4 POLE
50	800	320-800	B800N3800SE	B800N4800SE
70	800	320-800	B800H3800SE	B800H4800SE
100	800	320-800	B800G3800SE	B800G4800SE
125	800	320-800	B800P3800SE	B800P4800SE
200	800	320-800	B800R3800SE	B800R4800SE

TemBreak Pro B800 NN

Non-Auto Switch Disconnecter

- Non-Auto switch disconnecter for power distribution
- Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details
-
-
-
-
-
-



Short Circuit

RATED I_{cw}	RATED I_{cm}
10 kA FOR 3.0 s	17 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH B800F	WITH B800N
36 kA	50 kA

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
273	210	180	145	103

Product Selection

800 A FRAME 3 & 4 POLE NN (70 mm POLE WIDTH)

I_n (A @50 °C)	POLES	CAT. No
800	3	B800D3800NN
800	4	B800D4800NN

TemBreak Pro B1000 BE / BEG

Basic Electronic MCCB

TemBreak PRO
800 and 1000 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety.
- Standard features depend on MCCB model:
Adjustable LSI (BE type), LSIG (BEG type),
Pre-Trip Alarm LED indication (all)
- 3 or 4 pole versions available
- Range of accessories available,
see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B800N	50	38
		B800H	70	50

Trip unit

Electronic LSI, up to 10 dial-selectable characteristic curves, base current I_r is adjustable from $0.4 \cdot I_{xLct}$

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
273	210	280	145	103

Product Selection

1000 A FRAME 3 & 4 POLE BE (70 mm POLE WIDTH) LSI

kA	I_n (A @ 45 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
50	1000	400-1000	B1000N31000BE	B1000N41000BE
70	1000	400-1000	B1000H31000BE	B1000H41000BE

1000 A FRAME 3 & 4 POLE BE (70 mm POLE WIDTH) LSIG

kA	I_n (A @ 45 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
70	1000	400-1000	B1000H31000BEG	B1000H41000BEG

TemBreak Pro B1000 SX

Smart Electronic MCCB with Ammeter

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- General purpose power distribution, integrated ammeter measurement, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- Standard features include LSI, Neutral protection (4P only),
- Amp measurements via built-in LED back-lit display
- Pre-trip alarm LED indication
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B1000N	50	38
		B1000H	70	50

Trip unit

Electronic LSI, up to 5 dial-selectable characteristic curves, base current I_r is adjustable from $0.4 \cdot I_{ct}$

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
273	210	280	145	103

Product Selection

1000 A FRAME 3 & 4 POLE SX (70 mm POLE WIDTH) LSI

kA	I_n (A @ 45 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
50	1000	400-1000	B1000N31000SX	B1000N41000SX
70	1000	400-1000	B1000H31000SX	B1000H41000SX

TemBreak Pro B1000 SE

Smart Electronic MCCB with Energy Metering

TemBreak PRO
800 and 1000 Amp

- General purpose power distribution, integrated ammeter measurement, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- Standard features include LSI, Neutral protection (4P only),
- Amp measurements via built-in LED back-lit display
- Pre-trip alarm LED indication
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B1000N	50	38
		B1000H	70	50

Trip unit

Electronic LSI, up to 5 dial-selectable characteristic curves, base current I_r is adjustable from $0.4-1 \times I_{ct}$

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
273	210	280	145	103

Product Selection

1000 A FRAME 3 & 4 POLE SE (70 mm POLE WIDTH) LSIG

kA	I_n (A @ 45 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
50	1000	400-1000	B1000N31000SE	B1000N41000SE
70	1000	400-1000	B1000H31000SE	B1000H41000SE

TemBreak Pro B1000 NN

Non-Auto Switch Disconnecter

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- Non-Auto switch disconnecter for power distribution
- Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit

RATED I_{cw}

10 kA FOR 0.3 s

RATED I_{cm}

17 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH B1000N

50 kA

WITH B1000H

70 kA

Dimensions mm

HEIGHT

273

WIDTH 3P

210

WIDTH 4P

280

DEPTH WITH TOGGLE

145

DEPTH W/O TOGGLE

103

Product Selection

1000 A FRAME NN 3 & 4 POLE (70 mm POLE WIDTH)

I_n (A @45 °C)

1000

1000

POLES

3

4

CAT. No

B1000D31000NN

B1000D41000NN

800A–1000A Frame Accessories

Internal Accessories

TemBreak PRO
Accessories

CATEGORY	DESCRIPTION	CAT. No
SHUNT TRIPS SH	FOR B800, B1000	
	100 - 120 V AC	T2SH00A10TA
	200 - 240 V AC	T2SH00A20TA
	380 - 450 V AC	T2SH00A40TA
	24 V DC	T2SH00D02TA
	48 V DC	T2SH00D04TA
	100 - 120 V DC	T2SH00D10TA
	200 - 240 V DC	T2SH00D20TA
UNDER-VOLTAGE TRIPS UV	INSTANTANEOUS OPERATION	
	FOR B800, B1000	
	100 - 110 V AC	T2UV80A10NTA
	200 - 220 V AC	T2UV80A20NTA
	230-240 V AC	T2UV80A24NTA
	380-415 V AC	T2UV80A40NTA
	24 V DC	T2UV80D02NTA
	100-120 V DC	T2UV80D10NTA
AUXILIARY & ALARM SWITCHES AX AL	200 - 240 V DC	T2UV80D20NTA
	FOR TIME DELAYED OPERATION (500ms)–REFER NHP	
	FOR B800, B1000	
	GENERAL TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00M3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION	T2AL00M3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION	T2AL00M3SWA
	HEAVY DUTY TYPE (4 A @ 240 V INDUCTIVE)	
	1 N/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00B1STA
	1 N/C AUXILIARY WITH TERMINAL CONNECTION	T2AX00B2STA
	1 N/O ALARM WITH TERMINAL CONNECTION	T2AL00B1STA
	1 N/C ALARM WITH TERMINAL CONNECTION	T2AL00B2STA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	WW
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3RTA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00M3RTA

T2UV

T2AX

T2AL



800A–1000A Frame Accessories

External Accessories

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CATEGORY	DESCRIPTION	CAT. No
INTERPOLE BARRIERS BA	INTERPOLE BARRIERS ARE SUPPLIED WITH EVERY MCCB	
	SET OF 2, TO SUIT B800, B1000	T2BA403SH
STANDARD LONG TERMINAL COVERS CF LONG	SUITS B800F/N/H/G, B1000	
	3 POLE COVER, 99mm LONG, QTY 1	T2CF803SLHP
	3 POLE COVER, 99mm LONG, QTY 2	T2CF803SLNP
	4 POLE COVER, 99mm LONG, QTY 1	T2CF804SLHP
	4 POLE COVER, 99mm LONG, QTY 2	T2CF804SLNP
REAR CONNECT TERMINAL COVER CR	SUITS B800F/N/H/G, B1000	
	3 POLE TERMINAL COVER, QTY 1	T2CR803SHP
	3 POLE TERMINAL COVER, QTY 2	T2CR803SNP
	4 POLE TERMINAL COVER, QTY 1	T2CR804SHP
	4 POLE TERMINAL COVER, QTY 2	T2CR804SNP
	SUITS B400	
	3 POLE TERMINAL COVER, QTY 2	T2CR803LG
	4 POLE TERMINAL COVER, QTY 2	T2CR804LG
TERMINAL CLIP COVER TC	PROVIDES ADDITIONAL TERMINAL COVER POSITION LOCKING AND ALLOW LEAD SEAL TO BE FITTED	
	COVER CLIP TO SUIT B800, B1000	T2CF00L
REAR CONNECT TERMINAL STUDS RP	SUITS B800F/N/H/G	
	3 POLE KIT, SET OF 6 STUDS	T2RP803SA
	4 POLE KIT, SET OF 8 STUDS	T2RP804SA
	SUITS B800P/R	
	3 POLE KIT, SET OF 6 STUDS	T2RP803LA
	4 POLE KIT, SET OF 8 STUDS	T2RP804LA
	SUITS B1000	
	3 POLE KIT, SET OF 6 STUDS	T2RPX03SA
	4 POLE KIT, SET OF 8 STUDS	T2RPX04SA
	NON-CAPTIVE TOGGLE LOCK: FITS UP TO 5 PADLOCKS OR A MULTI-PADLOCK DEVICE	
LOCKING DEVICES TL/HP	TO SUIT B800, B1000	T2HL40A
	CAPTIVE TOGGLE LOCK: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT B800, B1000	TPCLCB100
	HANDLE PADLOCK DEVICE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT B800, B1000 WITH HS OR HP HANDLES	T2HP80PALK

ACCESSORIES CONTINUED

CATEGORY	DESCRIPTION	CAT. No
HB	DIRECT MOUNT HANDLE WITH DOOR INTERLOCK	SUITS B800
	GREY/BLACK	T2HB80UR5BNP
	RED/YELLOW	T2HB80UR5RNP
HP	HP SQUARE HANDLE WITH 445mm EXTENSION SHAFT IP65	SUITS B800, B1000
	GREY/BLACK	T2HP80R6BNP
	RED/YELLOW	T2HP80R6RNP
HS	HS HANDLE WITH 356mm EXTENSION SHAFT IP55	SUITS B800, B1000
	GREY/BLACK	TPHS80F65BM
	RED/YELLOW	TPHS80F65RM
ML	MECHANICAL INTERLOCKS LINK TYPE	INTERLOCK 2 MCCBS, SEPARATE MODELS ALLOW FOR MOTORS AND HANDLES. SUITABLE FOR FRONT OR REAR CONNECT TYPE MCCBS.
		SUITS B800, B1000
	3 POLE LEFT SIDE SECTION	T2ML80L3P
	4 POLE LEFT SIDE SECTION	T2ML80L4P
MC	MOTOR OPERATOR	SUITS B800, B1000
	110-240 V AC	T2MC80A10NP
	24-48 V DC	T2MC80D02NP
	110 V DC	T2MC80D10NP
MM	MOTOR INTERLOCK CABLE	SUITS B800, B1000
	CABLE TO INTERLOCK BETWEEN T*MC40 UP TO T2MC80, 0.6m	T2MM40L06A
	CABLE TO INTERLOCK BETWEEN T*MC40 UP TO T2MC80, 2.1m	T2MM40L21A
	CABLE TO INTERLOCK BETWEEN T*MC12 UP TO T2MC80, 2.1m	T2MM40S21A
MW	CABLE MECHANICAL INTERLOCK	SUITS B800, B1000
	INTERLOCK KIT LESS WIRE TO SUIT B800, B1000	T2MW80CP
	CABLE INTERLOCK WIRE, 1m	T2MW00SA
	CABLE INTERLOCK WIRE, 1.5m	T2MW00LA
GB	EXTERNAL NEUTRAL CT	SUITS 3P BEG & SE MODELS
	630A CT FOR B800	T2GB40N06A
	800A CT FOR B800	T2GB40N08A
	1000A CT FOR B1000	T2GBX6N10A

T2MC



T2GB



TemBreak Pro B1250 BE / BEG

Basic Electronic MCCB

5

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- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety.
- Standard features depend on MCCB model:
Adjustable LSI (BE type), LSIG (BEG type),
Pre-Trip Alarm LED indication (all)
- 3 or 4 pole versions available
- Front and rear-connect (RC) options available
- Range of accessories available,
see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B1250N	50	38
		B1250H	70	50
		B1250HL	85	65

Trip unit

Electronic LSI, 10 dial-selectable characteristic curves suited for a variety of applications, base current I_r is adjustable from $0.4-1 \times I_n$

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
370	210	280	191	140

Continued on the next page →

← Continued from previous page

Product Selection

1250 A FRAME 3 & 4 POLE BE (70 mm POLE WIDTH) LSI

kA	CONNECTION TYPE	I _n (A)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
50	FRONT	1250 (@ 50°C)	500-1250	B1250N31250BE	B1250N41250BE
	REAR	1250 (@ 45°C)	500-1250	B1250N31250BERC	B1250N41250BERC
70	FRONT	1250 (@ 50°C)	500-1250	B1250H31250BE	B1250H41250BE
	REAR	1250 (@ 45°C)	500-1250	B1250H31250BERC	B1250H41250BERC
85	FRONT	1250 (@ 50°C)	500-1250	B1250HL31250BE	B1250HL41250BE
	REAR	1250 (@ 45°C)	500-1250	B1250HL31250BERC	B1250HL41250BERC

1250 A FRAME 3 & 4 POLE BEG (70 mm POLE WIDTH) LSIg

kA	CONNECTION TYPE	I _n (A)	I _r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
70	FRONT	1250 (@ 50°C)	500-1250	B1250H31250BEG	B1250H41250BEG
	REAR	1250 (@ 45°C)	500-1250	B1250H31250BEGRC	B1250H41250BEGRC
85	FRONT	1250 (@ 50°C)	500-1250	B1250HL31250BEG	B1250HL41250BEG
	REAR	1250 (@ 45°C)	500-1250	B1250HL31250BEGRC	B1250HL41250BEGRC

TemBreak Pro B1250 NN

Non-Auto Switch Disconnecter

5

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- Non-Auto switch disconnecter for power distribution
- AC23 and DC22 ratings for motor starting use.
- Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions available
- Front and rear-connect (RC) options available
- Range of accessories available, see accessory section for further details



Short Circuit

RATED I_{cw}

15 kA FOR 0.3 s

RATED I_{cm}

32 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH B1250N

50 kA

WITH B1250H

70 kA

Dimensions mm

HEIGHT

370

WIDTH 3P

210

WIDTH 4P

280

DEPTH WITH TOGGLE

171

DEPTH W/O TOGGLE

120

Product Selection

1250 A FRAME NN (70 mm POLE WIDTH)

CONNECTION TYPE	I_n (A)	CAT. № 3 POLE	CAT. № 4 POLE
FRONT	1250 (@ 50°C)	B1250D31250NN	B1250D41250NN
REAR	1250 (@ 45°C)	B1250D31250NNRC	B1250D41250NNRC

TemBreak Pro B1600 BE / BEG

Basic Electronic MCCB

TemBreak PRO
1250 and 1600 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy
- for increased installation safety
- Standard features depend on MCCB model:
Adjustable LSI (BE type), LSIG (BEG type),
Pre-Trip Alarm LED indication (all)
- 3 or 4 pole versions available
- Front and rear-connect (RC) options available
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	B1600N	50	38
		B1600HL	85	65

Trip unit

Electronic LSI, 10 dial-selectable characteristic curves suited for a variety of applications, base current I_r is adjustable from $0.4 \cdot 1xI_n$

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
370	210	280	191	140

Product Selection

1600 A FRAME 3 & 4 POLE (70 mm POLE WIDTH) LSI

kA	CONNECTION TYPE	I_n (A)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
50	FRONT	1600 (@ 50 °C)	640 - 1600	B1600N31600BE	B1600N41600BE
	REAR	1600 (@ 45 °C)	640 - 1600	B1600N31600BERC	B1600N41600BERC
85	FRONT	1600 (@ 50 °C)	640 - 1600	B1600HL31600BE	B1600HL41600BE
	REAR	1600 (@ 45 °C)	640 - 1600	B1600HL31600BERC	B1600HL41600BERC

1600 A FRAME 3 & 4 POLE (70 mm POLE WIDTH) LSIG

kA	CONNECTION TYPE	I_n (A)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. № 3 POLE	CAT. № 4 POLE
85	FRONT	1600 (@ 50 °C)	640 - 1600	B1600HL31600BEG	B1600HL41600BEG
	REAR	1600 (@ 45 °C)	640 - 1600	B1600HL31600BEGRC	B1600HL41600BEGRC

TemBreak Pro B1600 NN

Non-Auto Switch Disconnecter

5

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- Non-Auto switch disconnecter for power distribution
- AC23 and DC22 ratings for motor starting use
- Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions available
- Front and rear-connect options (RC) available
- Range of accessories available, see accessory section for further details



Short Circuit

RATED I_{cw}

20 kA FOR 0.3 s

RATED I_{cm}

45 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH B1600N

50 kA

WITH B1600HL

85 kA

Dimensions mm

HEIGHT

370

WIDTH 3P

210

WIDTH 4P

280

DEPTH WITH TOGGLE

191

DEPTH W/O TOGGLE

140

Product Selection

1600 A FRAME NN (70 mm POLE WIDTH)

CONNECTION TYPE	I_n (A)	CAT. № 3 POLE	CAT. № 4 POLE
FRONT	1600 (@ 50 °C)	B1600D31600NN	B1600D41600NN
REAR	1600 (@ 45 °C)	B1600D31600NNRC	B1600D41600NNRC

1250A–1600A Frame Accessories

Internal Accessories

TemBreak PRO
1250 and 1600 Amp

CATEGORY	DESCRIPTION	CAT. No
SHUNT TRIPS SH	FOR B1250, B1600	
	100 - 120 V AC	T2SHX6A10TA
	200 - 240 V AC	T2SHX6A20TA
	380 - 450 V AC	T2SHX6A40TA
	24 V DC	T2SHX6D02TA
	48 V DC	T2SHX6D04TA
	100 - 120 V DC	T2SHX6D10TA
	200 - 240 V DC	T2SHX6D20TA
UNDER-VOLTAGE TRIPS UV	INSTANTANEOUS ONLY FOR B1250, B1600	
	100 - 110 V AC	T2UV80A10NTA
	200 - 220 V AC	T2UV80A20NTA
	230 - 240 V AC	T2UV80A24NTA
	380 - 415 V AC	T2UV80A40NTA
	24 V DC	T2UV80D02NTA
	100 - 120 V DC	T2UV80D04NTA
	200 - 240 V DC	T2UV80D10NTA
AUXILIARY & ALARM SWITCHES AX AL	FOR TIME DELAYED OPERATION (500ms)–REFER NHP FOR B1250, B1600	
	GENERAL TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00M3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION	T2AL00M3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION	T2AL00M3SWA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3RTA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00M3RTA

T2UV	T2AX	T2AL
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1250A–1600A Frame Accessories

External Accessories

5

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CATEGORY	DESCRIPTION	CAT. No
BA	INTERPOLE BARRIERS	
	INTERPOLE BARRIERS ARE SUPPLIED WITH EVERY MCCB SET OF 2, TO SUIT B1250, B1600	T2BA403SH
CF LONG	SUITS B1250	
	3 POLE COVER, 99mm LONG, QTY 1	T2CFX33SLHP
	3 POLE COVER, 99mm LONG, QTY 2	T2CFX33SLNP
	4 POLE COVER, 99mm LONG, QTY 1	T2CFX34SLHP
TL/HP	4 POLE COVER, 99mm LONG, QTY 2	T2CFX34SLNP
	NON-CAPTIVE TOGGLE LOCK: FITS UP TO 3 PADLOCKS OR A MULTI-PADLOCK DEVICE	
	TO SUIT B1250, B1600	T2HLX6A
	CAPTIVE TOGGLE LOCK: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT B1250, B1600	TPCLCB160
HB	HANDLE PADLOCK DEVICE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT B1250, B1600 WITH HS OR HP HANDLES	T1HPX6PALK
	SUITS B1600	
	GREY/BLACK	T2HBX6UR5RT
	RED/YELLOW	T2HBX6UR5BT
HP	SUITS B800, B1000	
	GREY/BLACK	T2HP80R6BNP
	RED/YELLOW	T2HP80R6RNP
HS	SUITS B 1600 A	
	GREY/BLACK	TPHSX6F65BM
	RED/YELLOW	TPHSX6F65RM
MC	MOTOR OPERATOR	
	SUITS B 1250 TO 1600	
	110 V AC	T2MCX6A10NP
	240 V AC	T2MCX6A24NP
GB	24 V DC	T2MCX6D02NP
	SUITS B 1250 TO 1600 A	
	1250A CT FOR B1250	T2GBX6N12A
	1600A CT FOR B1600	T2GBX6N16A

T2CF

T2HB

T2MC



TemBreak Pro XS2000 BE / BEG

Basic Electronic MCCB

TemBreak PRO

2000-3200 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety.
- Standard features depend on MCCB model:
 - Adjustable LSI (BE type),
 - LSIG (BEG type), Pre-Trip Alarm
- 3 or 4 pole versions available
- All XS model MCCBs are rear-connect only
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	XS2000HL	85	65

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	$I_r: 0.5-1 \times I_n$	$t_r: 5-30s$
STD ADJUSTMENT	$I_{sd}: 2-10 \times I_r$	$t_{sd}: 100-300ms$
INSTANTANEOUS ADJUSTMENT:	$I_i: 3-12 \times I_n$	
GF ADJUSTMENT (BEG ONLY):	$I_g: 0.1-0.4 \times I_n$	$t_g: 100-800ms$

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
450	320	429	245	185

Product Selection

2000 A FRAME 3 & 4 POLE 85 kA

PROTECTION	POLES	POLE WIDTH (mm)	I_n (A @ 50 °C)	I_r ADJUSTABLE MIN.-MAX. (A)	CAT. №
LSI	3	105	2000	1000 - 2000	XS2000HL32000BE
	4	110	2000	1000 - 2000	XS2000HL42000BE
LSIG	3	105	2000	1000 - 2000	XS2000HL32000BEG
	4	110	2000	1000 - 2000	XS2000HL42000BEG

TemBreak Pro XS2000 NN

Non-Auto Switch Disconnecter

5

233

- Non-Auto switch disconnecter for power distribution, AC23 and DC22 ratings for motor starting use
- Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions
- Range of accessories available, see accessory section for further details



Short Circuit

RATED I_{cw}

35 kA FOR 0.3 s

RATED I_{cm}

90 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH

XS2000HL

kA

85

Dimensions mm

HEIGHT

450

WIDTH 3P

320

WIDTH 4P

429

DEPTH WITH TOGGLE

245

DEPTH W/O TOGGLE

185

Product Selection

2000 A FRAME NN (NON-AUTO)

I_n (A @ 50 °C)

2000

CAT. № 3 POLE

XS2000D32000NN

CAT. № 4 POLE

XS2000D42000NN

TemBreak Pro XS2500 BE / BEG

Basic Electronic MCCB

TemBreak PRO

2000-3200 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- Standard features depend on MCCB model:
Adjustable LSI (BE type), LSIG (BEG type), Pre-Trip Alarm
- 3 or 4 pole versions available
- All XS model MCCBs are rear-connect only
- Range of accessories available,
see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	XS2500HL	85	65

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	$I_r: 0.5-1 \times I_n$	$t_r: 5-30s$
STD ADJUSTMENT	$I_{sd}: 2-10 \times I_r$	$t_{sd}: 100-300ms$
INSTANTANEOUS ADJUSTMENT:	$I_i: 3-12 \times I_n$	
GF ADJUSTMENT (BEG ONLY):	$I_g: 0.1-0.4 \times I_n$	$t_g: 100-800ms$

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
450	320	429	245	185

Product Selection

2500 A FRAME 3 & 4 POLE 85 kA

PROTECTION	POLES	POLE WIDTH (mm)	I_n (A @ 50 °C)	I_r ADJUSTABLE MIN.-MAX. (A)	CAT. №
LSI	3	105	2500	1250 - 2500	XS2500HL32500BE
	4	110	2500	1250 - 2500	XS2500HL42500BE
LSIG	3	105	2500	1250 - 2500	XS2500HL32500BEG
	4	110	2500	1250 - 2500	XS2500HL42500BEG

TemBreak Pro XS2500 NN

Non-Auto Switch Disconnecter

5

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- Non-Auto switch disconnecter for power distribution
- Complies to AS/NZS 60947-3, IEC 60947-3
- No overcurrent protection (isolator only)
- 3 or 4 pole versions available
- Range of accessories available, see accessory section for further details



Short Circuit

RATED I_{cw}

35 kA FOR 3.0 s

RATED I_{cm}

90 kA

Conditional Short Circuit Rating I_{cc} (kA) at 415 V AC

WITH

XS2500HL

kA

85

Dimensions mm

HEIGHT

450

WIDTH 3P

320

WIDTH 4P

429

DEPTH WITH TOGGLE

245

DEPTH W/O TOGGLE

185

Product Selection

2000 A FRAME 3 & 4 POLE NN (105 mm POLE WIDTH)

I_n (A @45 °C)

2500

CAT. № 3 POLES

XS2500D32500NN

CAT. № 4 POLES

XS2500D42500NN

TemBreak Pro XS3200 BE

Basic Electronic MCCB

TemBreak PRO

2000-3200 Amp

- General purpose power distribution, motor starting
- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety.
- Standard features depend on MCCB model:
Adjustable LSI (BE type), Pre-Trip Alarm
- 3 or 4 pole versions available
- All XS model MCCBs are rear-connect only
- Range of accessories available,
see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	HL	85	65

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	$I_r: 0.5-1X I_n$	$t_r: 5-30s$
STD ADJUSTMENT	$I_{sd}: 2-10X I_r$	$t_{sd}: 100-300ms$
INSTANTANEOUS ADJUSTMENT:	$I_i: 3-12X I_n$	
GF ADJUSTMENT (BEG ONLY):	$I_g: 0.1-0.4X I_n$	$t_g: 100-800ms$

Dimensions mm

HEIGHT	WIDTH 3P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
450	320	245	185

Product Selection

3200 A FRAME 3 POLE 85 kA BE (105 mm POLE WIDTH) LSI

I_n (A @ 45 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	CAT. No
3200	1600-3200	XS3200HL33200BE

2000A–3200A Frame Accessories

Internal Accessories

5
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Accessories for XS2000, XS2500, and XS3200 are factory or NHP Service fit. The below table indicates the available options, please contact NHP for further details on price and availability.

CATEGORY	DESCRIPTION	CAT. No
SHUNT TRIPS SH	110 V AC/DC (110–115 V)	CONTACT NHP
	240 V AC (200–480 V)	
	12 V DC	
	24 V DC	
	48 V DC	
	200 V DC (200–230 V)	
	415 V AC	
	24 V AC	
	48 V AC	
UNDER-VOLTAGE TRIPS UV	INSTANTANEOUS OPERATION	
	AC COIL ¹	
	100–230 V DC COIL ²	
	24 V DC COIL ²	
	48 V DC COIL ²	
	60 V DC COIL ²	
AUXILIARY & ALARM SWITCHES AX AL	AUX SW UP TO 6C	
	ALARM SW	
	ALARM/AUX COMBO UP TO 5C	
FRONT CONNECT CONVERSION KIT	AVAILABLE FOR THE XS2000 3P ONLY	
MECHANICAL INTERLOCK	3 P REAR MECHANICAL INTERLOCK	
	4 P REAR MECHANICAL INTERLOCK	
	INTERLOCK WIRE (CABLE STYLE INTERLOCK)	
	INTERLOCK MECHANISM–CABLE TYPE (ONE PER BREAKER)	

Notes

1. An AC UVT controller is required for 100–440 V AC.
2. A DC UVT controller is needed for 200–230 V DC operation.
None required for 24–110 V DC.

Integrated Earth Leakage

Moulded Case Circuit Breakers

TemBreak PRO

Earth Leakage 125–250 Amp

ZS Earth Leakage Circuit Breakers 125 A and 250 A

The ZS earth leakage MCCB from Terasaki offers machine or personnel protection within a standard 125A or 250A MCCB frame size. The ZS earth leakage MCCB also maintains the full functionality of a standard thermal-magnetic overload / short circuit protection device.

Features

- Thermal/magnetic MCCB with fixed magnetic characteristic
- 125A or 250A frame
- Trip unit ratings: 20–125A (ZS125), 160–250A (ZS250)
- 65 kA fault interruption rating @ 415 V AC
- Built-in dielectric test disconnection plug
- Remote trip function via external trip leads
- 3 or 4 pole types, with both solid and switched neutral poles available in 4P models

Earth Leakage features

- Switching utilisation voltage up to 525 V AC (200 V AC minimum)
- Yellow earth leakage TRIP indication flag
- Grey TEST button
- Green 'Power ON' LED
- Adjustable thermal characteristic dial setting from 63 - 100 % of I_r
- Adjustable earth leakage ranges: 30 mA, 100 mA, 300 mA, 500 mA, 1 A, 3 A
- Trip time selection: 0, 60, 200, 400, 700ms or NT (No Delay)
- 30mA trip time always has zero delay and trips within 300ms per AS/NZS standard requirements for a Type A device
- Internal protection against high frequency harmonics caused by AC Drives and other similar equipment known to generate line harmonics

Options and accessory fitting

- Accepts auxiliaries and alarm switches, will not accept shunts and under voltage trips
- Accepts all external accessories, except interlocks
- ZS125 MCCBs can be installed on standard XAP chassis with adaptor
- ZS250 MCCBs can be installed on standard XBP, XCP chassis
- Seal label available for sealing the residual current dial
- Captive padlock attachment that includes a dial sealing feature
- T2M1166CBA Trip control module (TCU) with Pre-trip alarm and cause of trip output

TemBreak Pro ZS125 TF

Thermal Magnetic Residual Current Protection (CBR) MCCB

5

239

- Complies to AS/NZ 60947-2, IEC 60947-2
- Circuit Breaker with Integral Residual Current protection (CBR) also known as Earth leakage protection (ELCB) for power distribution or motor start applications
- Current limiting device, reduces fault let through energy for increased installation safety
- 3 or 4 pole versions available
- 4 pole CBRs available with switched or solid neutral pole
- Suits XAP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	HL	65	33

Trip unit

Adjustable thermal ($0.63 I_r$ to 100%) and fixed magnetic

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
155	90	120	92	68

Product Selection

125 A FRAME 3 & 4 POLE 65 kA TF (30 mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE	CAT. № 4 POLE SOLID NEUTRAL
20	12.5 - 20	240	ZS125M320TF	ZS125M420TF	ZS125M420TFNS
32	20 - 32	384	ZS125M332TF	ZS125M432TF	ZS125M432TFNS
50	32 - 50	600	ZS125M350TF	ZS125M450TF	ZS125M450TFNS
63	40 - 63	756	ZS125M363TF	ZS125M463TF	ZS125M463TFNS
100	63 - 100	1200	ZS125M3100TF	ZS125M4100TF	ZS125M4100TFNS
125	80 - 125	1250	ZS125M3125TF	ZS125M4125TF	ZS125M4125TFNS

TemBreak Pro ZS250 TF

Thermal Magnetic Residual Current Protection (CBR) Earth Leakage 125–250 Amp

TemBreak PRO

- Complies to AS/NZ 60947-2, IEC 60947-2
- Circuit Breaker with Integral Residual Current protection (CBR) also known as Earth leakage protection (ELCB) for power distribution or motor start applications
- Current limiting device, reduces fault let through energy for increased installation safety
- 3 or 4 pole versions available
- 4 pole CBRs available with switched or solid neutral pole
- Suits XBP chassis, with panelboard options
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE	MODEL	I_{cu}	I_{cs}
AC USE	415	M	65	36

Trip unit

Adjustable thermal ($0.63 I_r$ to 100%) and fixed magnetic

Dimensions mm

HEIGHT	WIDTH 3P	WIDTH 4P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
165	105	120	92	68

Product Selection

125 A FRAME 3 & 4 POLE 65 kA TF (30 mm POLE WIDTH)

I_n (A @ 50 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. № 3 POLE	CAT. № 4 POLE	CAT. № 4 POLE SOLID NEUTRAL
160	100 - 160	2080	ZS250M3160TF	ZS250M4160TF	ZS250M4160TFSN
250	160 - 250	2500	ZS250M3250TF	ZS250M4250TF	ZS250M4250TFSN

Shunts and under-voltage trips are not suitable for the ZS CBRs.

CATEGORY	DESCRIPTION	CAT. No
AUXILIARY & ALARM SWITCHES AX AL	GENERAL PURPOSE TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00M3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION	T2AL00M3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION	T2AL00M3SWA
	HEAVY DUTY TYPE (4 A @ 240 V INDUCTIVE)	
	1 N/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00B1STA
	1 N/C AUXILIARY WITH TERMINAL CONNECTION	T2AX00B2STA
	1 N/O ALARM WITH TERMINAL CONNECTION	T2AL00B1STA
	1 N/C ALARM WITH TERMINAL CONNECTION	T2AL00B2STA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3RTA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00M3RTA

T2AL



ZS 125–250A Frame Accessories

External Accessories

TemBreak PRO
Earth Leakage 125–250 Amp

CATEGORY	DESCRIPTION	CAT. No
INTERPOLE BARRIERS BA	INTERPOLE BARRIERS ARE SUPPLIED WITH EVERY MCCB	
	SET OF 2, TO SUIT ZS125	T2BA123SH
	SET OF 2, TO SUIT ZS250	T2BA25L3SH
STANDARD LONG TERMINAL COVERS CF LONG	SUITS ZS125	
	3 POLE COVER, 50mm LONG, QTY 1	T2CF123SLHP
	4 POLE COVER, 50mm LONG, QTY 1	T2CF124SLHP
	SUITS ZS250	
	3 POLE COVER, 55mm LONG, QTY 1	T2CF253SLHP
STANDARD SHORT TERMINAL COVERS CF SHORT	4 POLE COVER, 55mm LONG, QTY 1	T2CF254SLHP
	SUITS ZS125	
	3 POLE COVER, 22mm LONG, QTY 1	T2CF123SSHP
	3 POLE COVER, 22mm LONG, QTY 2	T2CF123SSNP
	4 POLE COVER, 22mm LONG, QTY 1	T2CF124SSHP
	4 POLE COVER, 22mm LONG, QTY 2	T2CF124SSNP
	SUITS ZS250	
	3 POLE COVER, 30mm LONG, QTY 1	T2CF253SSHP
	3 POLE COVER, 30mm LONG, QTY 2	T2CF253SSNP
	4 POLE COVER, 30mm LONG, QTY 1	T2CF254SSHP
	4 POLE COVER, 30mm LONG, QTY 2	T2CF254SSNP
REAR CONNECT TERMINAL COVER CR	SUITS ZS125	
	3 POLE TERMINAL COVER, QTY 1	T2CR123SHP
	3 POLE TERMINAL COVER, QTY 2	T2CR123SP
	4 POLE TERMINAL COVER, QTY 1	T2CR124SHP
	4 POLE TERMINAL COVER, QTY 2	T2CR124SP
	SUITS ZS250	
	3 POLE TERMINAL COVER, QTY 1	T2CR253SHP
	3 POLE TERMINAL COVER, QTY 2	T2CR253SNP
	4 POLE TERMINAL COVER, QTY 1	T2CR254SHP
FLUSH TERMINAL COVER CS	4 POLE TERMINAL COVER, QTY 2	T2CR254SNP
	SUITS ZS125	
	3 POLE FLUSH TERMINAL COVER, QTY 1	T2CS123SHP
	3 POLE FLUSH TERMINAL COVER, QTY 2	T2CS123SNP
	4 POLE FLUSH TERMINAL COVER, QTY 1	T2CS124SHP
	4 POLE FLUSH TERMINAL COVER, QTY 2	T2CS124SNP
	SUITS ZS250	
	3 POLE FLUSH TERMINAL COVER, QTY 1	T2CS253SHP
	3 POLE FLUSH TERMINAL COVER, QTY 2	T2CS253SNP
	4 POLE FLUSH TERMINAL COVER, QTY 1	T2CS254SHP
	4 POLE FLUSH TERMINAL COVER, QTY 2	T2CS254SNP

CATEGORY	DESCRIPTION	CAT. No
TERMINAL CLIP COVER TC	PROVIDES ADDITIONAL TERMINAL COVER POSITION LOCKING AND ALLOW LEAD SEAL TO BE FITTED	
	COVER CLIP TO SUIT ZS125, ZS250	T2CF00L
DIN RAIL ADAPTOR DIN	ALLOWS A 125AF MCCB TO BE MOUNTED ON STANDARD 35mm DIN RAIL	
	TO SUIT ZS125	T2DA12A
EXTENSION BARS FB	SUITS ZS125	
	3 POLE, SET OF 6, STRAIGHT BAR SET	T2FB123BA
	4 POLE, SET OF 8, STRAIGHT BAR SET	T2FB124BA
	SUITS ZS250	
	3 POLE, SET OF 3, STRAIGHT BAR SET	T2FB25L3SH
	4 POLE, SET OF 4, STRAIGHT BAR SET	T2FB25L4SH
	3 POLE, SET OF 3, FLANGED BAR SET	T2FB25L3WH
	4 POLE, SET OF 4, FLANGED BAR SET	T2FB25L4WH
TUNNEL TERMINAL FITTINGS FW	SUITS ZS125	
	3 POLE, SET OF 6 CLAMPS, 1 CABLE HOLE, 6-50 mm ²	T2FW12S3A
	4 POLE, SET OF 8 CLAMPS, 1 CABLE HOLE, 6-50 mm ²	T2FW12S4A
	SUITS ZS250	
	3 POLE, SET OF 6 CLAMPS, 1 CABLE HOLE, 35-120 mm ²	T2FW25L3B
	4 POLE, SET OF 8 CLAMPS, 1 CABLE HOLE, 35-120 mm ²	T2FW25L4B
REAR CONNECT TERMINAL STUDS RP	SUITS ZS125	
	3 POLE KIT, SET OF 6 STUDS	T2RP123SA
	4 POLE KIT, SET OF 8 STUDS	T2RP124SA
	SUITS ZS250	
	3 POLE KIT, SET OF 6 STUDS	T2RP253SA
	4 POLE KIT, SET OF 8 STUDS	T2RP254SA
LOCKING DEVICES TL/HP	NON-CAPTIVE: FITS UP TO 5 PADLOCKS OR A MULTI-PADLOCK DEVICE	
	TO SUIT ZS125, ZS250	T2HL25B
	CAPTIVE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT ZS125	T2HL12CAP
	TO SUIT ZS250	T2HL25CAP
	HANDLE PADLOCK DEVICE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
TRIP CONTROL UNIT TCU	TO SUIT ZS125, ZS250 WITH HS OR HP HANDLES	T2HP25PALK
	THE OPTIONAL TCU ATTACHES TO THE RIGHT SIDE OF A ZS CBR. POWER TO THE TCU UNIT IS SUPPLIED BY CONNECTING DIRECTLY TO THE EL MCCB LINE SIDE TERMINALS.	
	SUITS ZS125, ZS250	
	EARTH LEAKAGE PRE-TRIP ALARM WITH N/O CAUSE OF TRIP OUTPUT AND REMOTE TRIP	T2M1166CBA

T2CF SHORT

T2CR

T2CS



CATEGORY	DESCRIPTION	CAT. No
DIRECT MOUNT HANDLE WITH DOOR INTERLOCK HB	SUITS ZS125	
	GREY/BLACK	T2HB12UR5BNP
	RED/YELLOW	T2HB12UR5RNP
	SUITS ZS250	
	GREY/BLACK	T2HB25UR5BNP
HP SQUARE HANDLE WITH 445mm EXTENSION SHAFT IP65 HP	SUITS ZS125	
	GREY/BLACK	T2HP12R6BNP
	RED/YELLOW	T2HP12R6RNP
	SUITS ZS250	
	GREY/BLACK	T2HP25R6BNP
MOTOR OPERATOR MC	SUITS ZS125	
	110 V AC	T2MC12A10NP
	240 V AC	T2MC12A24NP
	24 V DC	T2MC12D02NP
	48 V DC	T2MC12D04NP
	110 V DC	T2MC12D10NP
	SUITS ZS250	
	110 V AC	T2MC25A10NP
	240 V AC	T2MC25A24NP
	24 V DC	T2MC25D02NP
	48 V DC	T2MC25D04NP
	110 V DC	T2MC25D10NP

T2HB



T2MC



Electric vehicle charging solutions



Scan here to
learn more

MCCB Chassis

6

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MCCB Chassis Systems

Wide Range of Busbar Systems for TemBreak Breakers

MCCB Chassis

Introduction

MCCBs are typically installed individually, such as in motor control centres, or in assemblies for more extensive power distribution systems. NHP provides standardized busbar systems, known as chassis, to facilitate the configuration of grouped MCCB power distributions. NHP maintains an inventory of standard chassis available for immediate purchase, while custom-designed chassis are also available to meet specific customer requirements.

TemWay XEP, XAP, XBP, XBPSS, XCP chassis

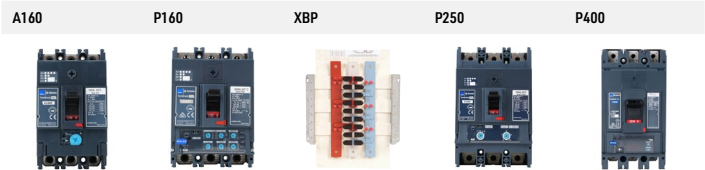
- 36 kA I_{cw} rating for TemWay XEP, XAP, XBP, XBPSS chassis
- 50 and 65 kA I_{cw} ratings on TemWay XCP chassis
- TemWay XCP 1000 A chassis are stocked with 400 A and 250 A tee off combinations
- TemWay 4 pole XAP and XBP chassis, are available suitable for earth leakage MCCBs
- TemWay chassis include a mounting channel bracket to make installation quicker and easier
- All chassis suitable for use up to 480 V AC

Short Circuit Capacity kA

CHASSIS TYPE	DESCRIPTION	MAIN BAR RATING (A)	I_{cw} FAULT CURRENT WITHSTANDING RATING	SUITS MCCB FRAME SIZE
XEP	DOUBLE SIDED, 3P	630 A	36 kA FOR 1 SEC	25 mm POLE CENTRES
XAP	DOUBLE SIDED, 3P OR 4P	630 / 800 A	36 kA FOR 1 SEC	30 mm POLE CENTRES
XBP	DOUBLE SIDED, 3P OR 4P	800 A		35 mm POLE CENTRES
XBPSSL	SINGLE SIDED LEFT CONNECTION, 3P	800 A		250AF
XBPSSR	SINGLE SIDED RIGHT CONNECTION, 3P	800 A		
XCP	DOUBLE SIDED 3P	1000 A	50 kA FOR 1 SEC	250AF STANDARD, P160, 125AF AND 400AF OPTIONAL

XEP	XAP	XBP	XBPSS	XCP	MCCB DEPTH
MAIN BAR SIZE: 630A	MAIN BAR SIZES: 630A / 800A	MAIN BAR SIZE: 800A	MAIN BAR SIZE: 800A	MAIN BAR SIZE: 800A	–
A160E_FF	P160F_FF	–	–	–	68 mm
A160E_TF	P160F	–	–	–	68 mm
A160F_TF	P160N	–	–	–	68 mm
–	P160H	–	–	–	68 mm
–	ZS125M*	–	–	–	68 mm
		B160E	B160E	B160E	68 mm
		A250E	A250E	A250E	68 mm
		A250F	A250F	A250F	68 mm
		P250F	P250F	P250F	68 mm
		P250N	P250N	P250N	68 mm
		P250H	P250H	P250H	68 mm
		ZS250M	ZS250M	ZS250M	68 mm
				P400E	103 mm
				P400F	103 mm
				P400N	103 mm
				P400H	103 mm
				P400S	103 mm

* need adaptor bracket TBPSXAPT2**

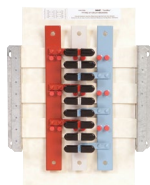


XEP Chassis for A160 MCCBs

3 Pole Double Sided

MCCB Chassis
Products

- Tested to the applicable requirements of AS/NZS 61439
- Suits TemBreak PRO Thermal Magnetic A160 MCCBs 16 A to 160 A
- 3 Pole, Double sided
- Top and bottom fed
- Side mounting rail for quick mounting of chassis
- 630 A main busbars, fully insulated
- XEP chassis rated: 36 kA for 1 second



XEP 630 25mm Pole Centres

Suits A160_FF, A160E_TF, A160F_TF

No OF POLES	CUT-OUT HEIGHT ¹ mm	PAN HEIGHT ² mm	CAT. No 630 A
12	182	180	XEP630 12U
18	272	270	XEP630 18U
24	362	360	XEP630 24U
30	452	450	XEP630 30U
36	542	540	XEP630 36U
42	632	630	XEP630 42U
48	722	720	XEP630 48U
60	902	900	XEP630 60U
72	1082	1080	XEP630 72U

Notes

1. The length of the escutcheon cut-out.
2. Busbars extend 50 mm beyond the pan length at the top and bottom on XEP chassis.

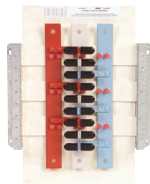
XAP Chassis for P160 & ZS125 MCCBs

3 Pole and 4 Pole Double Sided

6

251

- Tested to the applicable requirements of AS/NZS 61439
- Suits TemBreak PRO P160 thermal magnetic and electronic MCCBs and ZS125 earth leakage MCCBs³
- Top and bottom fed
- Side mounting rail for quick mounting of chassis
- XAP chassis has 630 A or 800 A main busbars, fully insulated
- Rated 36 kA for 1 second
- 630 A 4P chassis have one neutral bar, 800 A 4P types have 2 neutral bars



3 Pole XAP Chassis 30mm Pole Centres

Suits 3 Pole P160_FF, P160, ZS125 (not B160)^{3 4}

No OF POLES	CUT-OUT HEIGHT ¹ mm	PAN HEIGHT ² mm	CAT. No 630 A	CAT. No 800 A	SIDE MOUNT BRACKET FOR ZS125 MOUNTING ³
12	182	180	XAP630 12U	XAP800 12U	TBPSXAPT82612
18	272	270	XAP630 18U	XAP800 18U	TBPSXAPT82618
24	362	360	XAP630 24U	XAP800 24U	TBPSXAPT82624
30	452	450	XAP630 30U	XAP800 30U	TBPSXAPT82630
36	542	540	XAP630 36U	XAP800 36U	TBPSXAPT82636
42	632	630	XAP630 42U	XAP800 42U	TBPSXAPT82642
48	722	720	XAP630 48U	XAP800 48U	TBPSXAPT82648
60	902	900	XAP630 60U	XAP800 60U	TBPSXAPT82660
72	1082	1080	XAP630 72U	XAP800 72U	TBPSXAPT82672

Continued on the next page →

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4 Pole XAP Chassis 30mm Pole Centres

Suits 4 Pole P160_FF, P160, ZS125 MCCBs (not B160) ^{3 4}

№ OF POLES	CUT-OUT HEIGHT ¹ mm	PAN HEIGHT ² mm	CAT. № 630 A	CAT. № 800 A
16	242	270	XAP630 16U 4POLE	XAP800 16U 4POLE
24	362	390	XAP630 24U 4POLE	XAP800 24U 4POLE
32	482	510	XAP630 32U 4POLE	XAP800 32U 4POLE
40	602	630	XAP630 40U 4POLE	XAP800 40U 4POLE
48	722	750	XAP630 48U 4POLE	XAP800 48U 4POLE
56	842	850	XAP630 56U 4POLE	XAP800 56U 4POLE
64	962	990	XAP630 64U 4POLE	XAP800 64U 4POLE

Notes

1. The length of the escutcheon cut-out.
2. Busbars extend 50 mm beyond the pan length at the top and bottom on XAP chassis.
3. Brackets are available which mount on each side a 3P XAP chassis which allow the fitting of ZS125 ELCBs and previous TemBreak 2 125AF MCCBs, which are 155 mm long compared to P160 MCCBs which are 130 mm long. The brackets are supplied as single brackets, so for double sided use, order 2. XAP 4 pole chassis do not require a special side rail to be fitted for installing ZS125 ELCBs as they have sets of parallel holes for either P160 or ZS ELCB mounting.
4. TemBreak 2 125AF MCCBs when fitted to an XAP chassis will have different escutcheon cutout position centres compared to P160 MCCBs.

XBP Chassis for 250AF MCCBs

3 Pole and 4 Pole Double Sided

6

253

- Tested to the applicable requirements of AS/NZS 61439
- Suits TemBreak PRO A250, P250 and ZS250 MCCBs
- Top and bottom fed
- Side mounting rail for quick mounting of chassis
- XBP chassis has 800 A main busbars, fully insulated
- Rated 36 kA for 1 second
- 3 pole chassis has one neutral bar,
4 pole chassis has 2 neutral bars



XBP800 35mm Pole Centres

Suits A250, P250, ZS250 MCCBs (not B250⁵)^{3 4}

№ OF POLES	CUT-OUT HEIGHT ¹ mm	PAN HEIGHT ² mm	CAT. № 800 A
12	212	210	XBP800 12U
18	317	315	XBP800 18U
24	422	420	XBP800 24U
30	527	525	XBP800 30U
36	632	630	XBP800 36U
42	737	735	XBP800 42U
48	842	840	XBP800 48U
60	1052	1050	XBP800 60U
72	1262	1260	XBP800 72U

Suits 4 Pole A250, P250, ZS250 MCCBs (not B250)^{3 4}

№ OF POLES	CUT-OUT HEIGHT ¹ mm	PAN HEIGHT ² mm	CAT. №800 A
16	282	315	XBP800 16U 4POLE
24	422	455	XBP800 24U 4POLE
32	562	595	XBP800 32U 4POLE
40	702	735	XBP800 40U 4POLE
48	842	875	XBP800 48U 4POLE

Notes

1. The length of the escutcheon cut-out.
2. Busbars extend 50 mm beyond the pan length at the top and bottom on XBP chassis.
3. XBP chassis as standard will suit TemBreak 2 250AF MCCBs.
4. All TemBreak PRO A250, P250 and ZS250 MCCBs have the same 68 mm depth

XBP SS Chassis for 250AF MCCBs

3 Pole Single Sided

MCCB Chassis
Products

- Single sided MCCB mounting
- Different chassis for left or right side MCCB mounting
- Tested to the applicable requirements of AS/NZS 61439
- Suits TemBreak PRO thermal magnetic and electronic MCCBs 20 A to 250 A
- Top and bottom fed, 800 A main busbars, fully insulated
- Side mounting rail for quick mounting of chassis
- XBP SS chassis rated: 36 kA for 1 second



XBP SSL 800 35mm Pole Centres

LEFT hand single sided 3 pole (MCCB load side connections at LEFT)

Suits A250, P250, ZS250GJ MCCBs (not B250) ^{3 4}

№ OF POLES	CUT-OUT HEIGHT ¹ mm	PAN HEIGHT ² mm	CAT. №800 A
6	212	210	XBPSL 800 6U
9	317	315	XBPSL 800 9U
12	422	420	XBPSL 800 12U
15	527	525	XBPSL 800 15U
18	632	630	XBPSL 800 18U
21	737	735	XBPSL 800 21U
24	842	840	XBPSL 800 24U
30	1052	1050	XBPSL 800 30U
36	1262	1260	XBPSL 800 36U

XBP SSR 800 35mm Pole Centres

RIGHT hand single sided 3 pole (MCCB load side connections at RIGHT)

Suits A250, P250, ZS250GJ MCCBs (not B250) ^{3 4}

№ OF POLES	CUT-OUT HEIGHT ¹ mm	PAN HEIGHT ² mm	CAT. №800 A
6	212	210	XBSSR 800 6U
9	317	315	XBSSR 800 9U
12	422	420	XBSSR 800 12U
15	527	525	XBSSR 800 15U
18	632	630	XBSSR 800 18U
21	737	735	XBSSR 800 21U
24	842	840	XBSSR 800 24U
30	1052	1050	XBSSR 800 30U
36	1262	1260	XBSSR 800 36U

Notes

1. The length of the escutcheon cut-out.
2. Busbars extend 50 mm beyond the pan length at the top and bottom on XBP chassis.
3. XBPSS chassis suit TemBreak 2, 250AF MCCBs.
4. TemBreak PRO A250, P250 and ZS250 MCCBs have the same 68 mm depth.

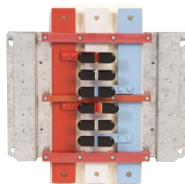
XCP Chassis for 250AF MCCBs

3 Pole Double Sided

6

255

- Tested to the applicable requirements of AS/NZS 61439
- Suits TemBreak PRO A250, P250 and ZS250 MCCBs
- Top and bottom fed
- Side mounting rail for quick mounting of chassis
- 1000 A main busbars, fully insulated
- Rated 50 kA for 1 second



XCP1000

Suits MCCB types: A250, P250, ZS250 MCCBs (not B160 or B250) ^{3 4 5}

No OF POLES	CUT-OUT HEIGHT ¹ mm	PAN HEIGHT ² mm	CAT. No800 A
12	212	210	XCP 1000 12U
18	317	315	XCP 1000 18U
24	422	420	XCP 1000 24U
30	527	525	XCP 1000 30U
36	632	630	XCP 1000 36U
42	737	735	XCP 1000 42U
48	842	840	XCP 1000 48U

Notes

1. The length of the escutcheon cut-out.
2. Busbars extend 50 mm beyond the pan length at the top and bottom on an XCP chassis.
3. XCP chassis can be custom built for alternate combinations of 250AF and up to 2 x 400AF MCCBs. XCP chassis also suit TemBreak 2, 250AF and 400AF MCCBs.
4. XCP chassis can be custom built with 30 mm pole centre tee offs to allow P160 or ZS125 (3 pole) ELCB installation.
5. TemBreak PRO A250, P250 and ZS250 MCCBs have the same 68 mm depth.

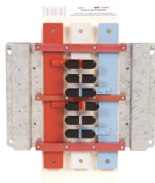
XCP Chassis for 250AF and 400AF MCCBs

3 Pole Double Sided

MCCB Chassis
Products

For the requirement of mounting larger MCCBs on a chassis, where up to 2 x 400 A and up to 6 x 68 mm deep 250 A MCCBs need to be installed, common configurations of stocked XCP chassis can be used. Alternative versions can be ordered on a custom basis using the TemWay custom chassis ordering form available in the TemBreak PRO Chassis Ordering Guide, and by contacting NHP to obtain a quote to order.

- Tested to the applicable requirements of AS/NZS 61439
- Suits TemBreak PRO A 250, P250, ZS250 and P400 MCCBs
- Top and bottom fed
- Side mounting rail for quick mounting of chassis
- 1000 A main busbars, fully insulated
- Rated 50 kA for 1 second



XCP1000 Suitability

XCP1000 Suits MCCB types: A250, P250, ZS250, P400 MCCBs (not B160 or B250) ^{2 3 4}

No OF POLES	PAN HEIGHT mm ¹	CHASSIS CONFIGURED FOR MCCBS BELOW	CAT. No 3 POLE, 1000 A
REFER TO THE QUANTITY OF 250 A OR 400 A MCCBS THAT CAN BE INSTALLED ON THE CHASSIS FOR AN INDICATION OF AVAILABLE POLES	415	1 X 400 A AND 4 X 250 A	XCP1000 1X4R 12U
	625	1 X 400 A AND 8 X 250 A	XCP1000 1X4R 24U
	835	1 X 400 A AND 12 X 250 A	XCP1000 1X4R 36U
	555	2 X 400 A AND 4 X 250 A	XCP1000 2X4R 12U
	765	2 X 400 A AND 8 X 250 A	XCP1000 2X4R 24U
	975	2 X 400 A AND 12 X 250 A	XCP1000 2X4R 36U

Notes

1. Busbars extend 50 mm beyond the pan length at the top and bottom on an XCP chassis.
2. XCP chassis can be custom built for alternate combinations of 250AF and up to 2 x 400AF MCCBs. XCP chassis also suit TemBreak 2, 250AF and 400AF MCCBs.
3. XCP chassis can be custom built with 30 mm pole centre tee offs to allow P160 or ZS125 (3 pole) ELCB installation.
4. TemBreak PRO A250, P250 and ZS250 MCCBs have the same 68 mm depth.

Chassis Terminal Covers

XEP, XAP, XBP, XBPSS, XCP

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- MCCBs on the chassis are to be reverse connected, that is, connect the 'bottom' of breaker to the chassis tee offs
- Terminal covers or interpole barriers or other insulation material, must be fitted at MCCB load side, (top of MCCB) which is the end of the MCCB that vents fault interruption exhaust

Flush covers

SUIT FRAME SIZE	DESCRIPTION	CAT. №
FRAME SIZE 125 A		
ZS125 AF	3 POLE TERMINAL COVER, QTY 1	T2CR123SHP
ZS125 AF	4 POLE TERMINAL COVER, QTY 1	T2CR124SHP
FRAME SIZE 160 A		
A160 AF	3 POLE TERMINAL COVER, QTY 1	T2CR12L3SHP
A160 AF	4 POLE TERMINAL COVER, QTY 1	T2CR12L4SHP
P160 AF	3 POLE TERMINAL COVER, QTY 1	TPCR163SPH
P160 AF	4 POLE TERMINAL COVER, QTY 1	TPCR164SPH
B160 AF	1 POLE FLUSH TERMINAL COVER, QTY 2	T2CS161SP
FRAME SIZE 250A		
A250 AF	3 POLE TERMINAL COVER, QTY 1	T2CR25L3SHP
A250 AF	4 POLE TERMINAL COVER, QTY 1	T2CR25L4SHP
P250 AF	3 POLE TERMINAL COVER, QTY 1	T2CR25L3SHP
P250 AF	4 POLE TERMINAL COVER, QTY 1	T2CR25L4SHP
ZS250 AF	3 POLE TERMINAL COVER, QTY 1	T2CS253SHP
ZS250 AF	4 POLE TERMINAL COVER, QTY 1	T2CS254SHP
FRAME SIZE 400A		
P400 AF	3 POLE TERMINAL COVER, QTY 1	TPCS633SPH
P400 AF	4 POLE TERMINAL COVER, QTY 1	TPCS634SPH

T2CR12

T2CR25

T2CS25

T2CS161SP



TemBreak 1000VAC MCCBs



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TemBreak 1000V AC MCCBs

Dedicated Circuit Breaker Range for Mining and Tunnel Applications

TemBreak 2 VS

VS125

- 1000 VAC MCCBs 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
- Panel mount standard, with other mounting options
- Full range of accessories for application flexibility
- Utilisation voltage ratings 1000 or 1100 V AC

Application

The TemBreak 2 VS Mining Breaker range is designed for 1000V AC and 1100V AC applications which require a robust durable breaker. The VS breaker offers a variety of ratings starting from 20A up to 1250A with short circuit ratings up to 30kA, utilising thermal magnetic and electronic trip units to provide the optimum protection for power networks.

VS800



VS250



VS400



Thermal Magnetic MCCB

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- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety
- 3 pole MCCB
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE (V)	MODEL	I_{cu} (kA)	I_{cs} (kA)
AC USE	1000	VS125NJ	4	4
		VS125GJ	10	5
	1100	VS125NJ	4	4
		VS125GJ	6	4

Trip unit

Adjustable thermal ($0.63 I_r$ to $100\% I_r$) and adjustable magnetic

Dimensions mm

MODEL	HEIGHT	WIDTH 3P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
NJ	155	90	92	68
GJ	155	90	92	68

Product Selection

THERMAL MAGNETIC 125 A FRAME 4kA 3 POLE

I_n (A @ 45 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. No
20	12.5-20	120-240	VS125NJ320
32	20-32	192-384	VS125NJ332

THERMAL MAGNETIC 125 A FRAME 10kA 3 POLE

I_n (A @ 45 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. No
50	32-50	300-600	VS125GJ350
63	40-63	378-756	VS125GJ363
100	63-100	600-1200	VS125GJ3100
125	80-125	750-1250	VS125GJ3125

VS125 1000V Accessories

Internal Accessories

TemBreak 2 VS

VS125

CATEGORY	DESCRIPTION	CAT. No
SHUNT TRIPS SH	SUITS VS 125	
	100 - 120 V AC	T2SH00A10TA
	200 - 240 V AC	T2SH00A20TA
	380 - 450 V AC	T2SH00A40TA
	12 V DC	T2SH00D01TA
	24 V DC	T2SH00D02TA
	48 V DC	T2SH00D04TA
	100 - 120 V DC	T2SH00D10TA
	200 - 240 V DC	T2SH00D20TA
UNDER-VOLTAGE TRIPS UV	INSTANTANEOUS OPERATION	
	100 - 120 V AC	T2UV00A10NTA
	200 - 240 V AC	T2UV00A20NTA
	380 - 450 V AC	T2UV00A40NTA
	24 V DC	T2UV00D02NTA
	100 - 120 V DC	T2UV00D10NTA
	200 - 240 V DC	T2UV00D20NTA
	FOR TIME DELAYED OPERATION (500ms) - REFER NHP	
	GENERAL PURPOSE TYPE (2 A @ 240 V INDUCTIVE)	
AUXILIARY & ALARM SWITCHES AX AL	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00M3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION	T2AL00M3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION	T2AL00M3SWA
	HEAVY DUTY TYPE (4 A @ 240 V INDUCTIVE)	
	1 N/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00B1STA
	1 N/C AUXILIARY WITH TERMINAL CONNECTION	T2AX00B2STA
	1 N/O ALARM WITH TERMINAL CONNECTION	T2AL00B1STA
	1 N/C ALARM WITH TERMINAL CONNECTION	T2AL00B2STA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3RTA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00M3RTA

T2AL

T2CF

T2CR

T2FB

T2UV



VS125 1000V Accessories

External Accessories

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CATEGORY	DESCRIPTION	CAT. №
STANDARD TERMINAL COVERS	3 POLE COVER, 50mm LONG, QTY 2	T2CF123SLNG
	3 POLE COVER, 22mm LONG, QTY 2	T2CF123SSNGA
REAR CONNECT TERMINAL COVERS	3 POLE TERMINAL COVER, QTY 2	T2CR123SG
FLUSH TERMINAL COVERS	3 POLE FLUSH TERMINAL COVER, QTY 2	T2CS123SG
TERMINAL COVER CLIP	COVER CLIP TO SUIT VS125	T2CF00L
DIN RAIL ADAPTOR	TO SUIT VS125	T2DA12A
EXTENSION BARS	3 POLE, SET OF 6, STRAIGHT BAR SET	T2FB123BA
	3 POLE, SET OF 6, FLANGED BAR SET	T2FB16L3WB
TUNNEL TERMINALS	3 POLE, SET OF 6 CLAMPS, 6-50 mm ²	T2FW12S3A
REAR CONNECT STUDS	3 POLE KIT, SET OF 6 STUDS	T2RP123SA
LOCKING DEVICES	NON-CAPTIVE TOGGLE LOCK: FITS UP TO 3 PADLOCKS OR A MULTI-PADLOCK DEVICE	
	TO SUIT VS125	T2HL25B
	CAPTIVE TOGGLE LOCK: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT VS125	T2HL12CAP
	HANDLE PADLOCK DEVICE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
DIRECT MOUNT HANDLE WITH DOOR INTERLOCK	TO SUIT VS125 WITH HS OR HP HANDLES	T2HP25PALK
	GREY/BLACK	T2HB12UR5BN
	RED/YELLOW	T2HB12UR5RN
HP SQUARE HANDLE WITH EXTENSION SHAFT IP65	GREY/BLACK WITH 445mm SHAFT	T2HP12R6BN
	RED/YELLOW, WITH 445mm SHAFT	T2HP12R6RN
	METAL HANDLE WITH 356mm SHAFT	T2HP12R6ME
HS HANDLE WITH 356mm EXTENSION SHAFT IP55	GREY/BLACK	TPHS12R5GM
	RED/YELLOW	TPHS12R5RM
MOTOR OPERATOR	110 V AC	T2MC12A10NB
	240 V AC	T2MC12A24NB
	24 V DC	T2MC12D02NB
	48 V DC	T2MC12D04NB
	110 V DC	T2MC12D10NB
MOTOR ACCESSORIES	MOTOR INTERLOCK CABLE	
	CABLE TO INTERLOCK BETWEEN T*MC12 AND T*MC25, 0.5m	T2MM25L05A
	CABLE TO INTERLOCK BETWEEN T*MC12 AND T*MC25, 1.5m	T2MM25L15A
	CABLE TO INTERLOCK BETWEEN T*MC12 UP TO T2MC80, 2.1m	T2MM40S21A

T2HP

T2MC

T2MM



TemBreak Mining VS250

Thermal Magnetic MCCB

TemBreak 2 VS

VS250

- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety.
- 3 pole MCCB
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE (V)	I_{cu} (kA)	I_{cs} (kA)
AC USE	1000	10	5
	1100	6	4

Trip unit

Adjustable thermal ($0.63 I_r$ to $100\% I_r$) and adjustable magnetic

Dimensions mm

MODEL	HEIGHT	WIDTH 3P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
GJ	165	105	92	68

Thermal Magnetic 250 A Frame 10kA 3 Pole

I_n (A @ 45 °C)	I_r , ADJUSTABLE THERMAL SETTING (A)	I_i , ADJUSTABLE MAGNETIC SETTING (A)	CAT. No
160	100-160	960-2080	VS250GJ3160
250	160-250	1500-2500	VS250GJ3250

Notes

- The rear insulation barrier, terminal covers, and terminal screw caps supplied with the MCCB, must be used for MCCB installation.

VS250 1000V Accessories

Internal Accessories

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CATEGORY	DESCRIPTION	CAT. No
SHUNT TRIPS SH	SUITS VS 125	
	100 - 120 V AC	T2SH00A10TA
	200 - 240 V AC	T2SH00A20TA
	380 - 450 V AC	T2SH00A40TA
	12 V DC	T2SH00D01TA
	24 V DC	T2SH00D02TA
	48 V DC	T2SH00D04TA
	100 - 120 V DC	T2SH00D10TA
	200 - 240 V DC	T2SH00D20TA
UNDER-VOLTAGE TRIPS UV	INSTANTANEOUS OPERATION	
	100 - 120 V AC	T2UV00A10NTA
	200 - 240 V AC	T2UV00A20NTA
	380 - 450 V AC	T2UV00A40NTA
	24 V DC	T2UV00D02NTA
	100 - 120 V DC	T2UV00D10NTA
	200 - 240 V DC	T2UV00D20NTA
AUXILIARY & ALARM SWITCHES AX AL	FOR TIME DELAYED OPERATION (500ms)-REFER NHP	
	GENERAL PURPOSE TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00M3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION	T2AL00M3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION	T2AL00M3SWA
	HEAVY DUTY TYPE (4 A @ 240 V INDUCTIVE)	
	1 N/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00B1STA
	1 N/C AUXILIARY WITH TERMINAL CONNECTION	T2AX00B2STA
	1 N/O ALARM WITH TERMINAL CONNECTION	T2AL00B1STA
	1 N/C ALARM WITH TERMINAL CONNECTION	T2AL00B2STA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3RTA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00M3RTA

T2AL

T2AX

T2UV



VS250 1000V Accessories

External Accessories

TemBreak 2 VS
VS250

CATEGORY	DESCRIPTION	CAT. №
STANDARD TERMINAL COVERS	3 POLE COVER, 55mm LONG, QTY 1	T2CF253SLHP
	3 POLE COVER, 30mm LONG, QTY 1	T2CF253SSH
REAR CONNECT TERMINAL COVERS	3 POLE TERMINAL COVER, QTY 1	T2CR253SHP
FLUSH TERMINAL COVERS	3 POLE FLUSH TERMINAL COVER, QTY 1	T2CS253SHP
TERMINAL COVER CLIP	COVER CLIP TO SUIT VS250	T2CF00L
DIN RAIL ADAPTOR	3 POLE, SET OF 6, STRAIGHT BAR SET	T2FB25L3SH
EXTENSION BARS	3 POLE, SET OF 6, FLANGED BAR SET	T2FB25L3WH
	3 POLE, SET OF 6 CLAMPS, 35-120 mm ²	T2FW25L3B
TUNNEL TERMINALS	3 POLE KIT, SET OF 6 STUDS	T2RP253SA
REAR CONNECT STUDS	3 POLE KIT, SET OF 6 STUDS	T2RP123SA
LOCKING DEVICES	NON-CAPTIVE TOGGLE LOCK: FITS UP TO 3 PADLOCKS OR A MULTI-PADLOCK DEVICE	
	TO SUIT VS250	T2HL25B
	CAPTIVE TOGGLE LOCK: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT VS250	T2HL25CAP
	HANDLE PADLOCK DEVICE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
DIRECT MOUNT HANDLE WITH DOOR INTERLOCK	TO SUIT VS250 WITH HS OR HP HANDLES	T2HP25PALK
	GREY/BLACK	T2HB12UR5BNP
	RED/YELLOW	T2HB12UR5RNP
HP SQUARE HANDLE WITH EXTENSION SHAFT IP65	GREY/BLACK WITH 445mm SHAFT	T2HP25R6BN
	RED/YELLOW, WITH 445mm SHAFT	T2HP25R6RN
	METAL HANDLE WITH 356mm SHAFT	T2HP12R6ME
HS HANDLE WITH 356mm EXTENSION SHAFT IP55	GREY/BLACK	TPHS12R5GM
	RED/YELLOW	TPHS12R5RM
MOTOR OPERATOR	110 V AC	T2MC25A10NB
	240 V AC	T2MC25A24NB
	24 V DC	T2MC25D02NB
	48 V DC	T2MC25D04NB
	110 V DC	T2MC25D10NB
MOTOR ACCESSORIES	MOTOR INTERLOCK CABLE	
	CABLE TO INTERLOCK BETWEEN T*MC12 AND T*MC25, 0.5m	T2MM25L05A
	CABLE TO INTERLOCK BETWEEN T*MC12 AND T*MC25, 1.5m	T2MM25L15A
	CABLE TO INTERLOCK BETWEEN T*MC12 UP TO T2MC80, 2.1m	T2MM40S21A

T2HL

T2HP

T2MC

T2HB

T2MM



TemBreak Mining VS400

Electronic MCCB

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- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety.
- Standard features depend on MCCB model:
Adjustable LSI (standard), LSIG (AG type),
Pre-Trip Alarm LED indication (all)
- 3 pole MCCB
- Range of accessories available, see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE (V)	I_{cu} (kA)	I_{cs} (kA)
AC USE	1000	18	13.5
	1100	12.5	6.3

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	I_r : 0.5-1X I_n	t_r : 5-30s
STD ADJUSTMENT	I_{sd} : 2-10X I_r	t_{sd} : 100-300ms
INSTANTANEOUS ADJUSTMENT:	I_i : 3-12X I_n	
GF ADJUSTMENT (BEG ONLY):	I_g : 0.1-0.4X I_n	t_g : 100-800ms

Dimensions mm

MODEL	HEIGHT	WIDTH 3P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
NE	260	140	145	103

Product Selection

ELECTRONIC 400 AF 18kA 3 POLE

I_n (A @ 45 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	GROUND FAULT PROTECTION	CAT. No
250	100-250	NO	VS400NE3250K
	100-250	YES	VS400NE3AG250K
400	160-400	NO	VS400NE3400K
	160-400	YES	VS400NE3AG400K

Notes

- The rear insulation barrier, terminal covers, and terminal screw caps supplied with the MCCB, must be used for MCCB installation.

VS400 1000V Accessories

Internal Accessories

TemBreak 2 VS

VS400

Internal accessories for VS400 are factory or NHP Service fit. The below table indicates the available options, please contact NHP for further details on price and availability.

CATEGORY	DESCRIPTION	CAT. No
SHUNT TRIPS SH	24 V AC	CONTACT NHP
	110 V AC	CONTACT NHP
	240 V AC	CONTACT NHP
	12 V DC	CONTACT NHP
	24 V DC	CONTACT NHP
UNDER-VOLTAGE TRIPS UV	INSTANTANEOUS OPERATION, TIME DELAYED OPERATION (500ms) ALSO AVAILABLE	
	110 V AC	CONTACT NHP
	220 - 480 V AC	CONTACT NHP
	440 V AC	CONTACT NHP
	24 V DC	CONTACT NHP
	48 V DC	CONTACT NHP
	60 V DC	CONTACT NHP
	110/220 V DC	CONTACT NHP
AUXILIARY SWITCHES	200 - 230 V DC	CONTACT NHP
	AUX SW RIGHT HAND 1C	CONTACT NHP
	AUX SW RIGHT HAND 2C	CONTACT NHP
ALARM SWITCH	AUX SW RIGHT HAND 3C	CONTACT NHP
	ALT SW RIGHT HAND	CONTACT NHP
	ALARM AND AUXILIARY SWITCH	CONTACT NHP
ALARM AND AUXILIARY SWITCH	ALT/AUX RIGHT HAND 1C	CONTACT NHP
	ATL/AUX RIGHT HAND 2C	CONTACT NHP

VS400 1000V Accessories

External Accessories

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CATEGORY	DESCRIPTION	CAT. №
TERMINAL COVERS	3 POLE, FRONT CONNECT TERMINAL COVER WITH BUSBAR, QTY 1	2H1413DAB
	3 POLE, FRONT CONNECT TERMINAL COVER, QTY 1	2H1415DAB
	IP20 PROTECTIVE COVER INSERT, QTY 1	2A1787DBA
	3 POLE, REAR CONNECT TERMINAL COVER, QTY 1	UXPD0011B
TUNNEL TERMINALS	3 POLE, SET OF 6 CLAMPS	2H2012DAB
REAR CONNECT STUDS	3 POLE, SET OF 6 STUDS	UXRC0006C
LOCKING DEVICES	NON-CAPTIVE TOGGLE LOCK	2H1956BAA
	CAPTIVE TOGGLE LOCK	XKA4
	HANDLE PADLOCK DEVICE FOR HP AND HS HANDLES	T1HP40PALK
DIRECT MOUNT HANDLE WITH DOOR INTERLOCK	BLACK HANDLE, IP55	TFJ34XU
HP SQUARE HANDLE WITH EXTENSION SHAFT IP65	GREY/BLACK	T1HP40R6BNA4
HS HANDLE WITH 356mm EXTENSION SHAFT	GREY/BLACK, IP55 HANDLE	T1HS40R5GM
	METAL, IP65 HANDLE	YASD34
MOTORS	110 V AC	2H1294CAC
	240V AC	2H1298CAC
	24V DC	2H1297CAC
	110V DC	2H1296CAC

T1HP40R6BNA4



T1HP40PALK



2H1413DAB



TemBreak Mining VS630NE & VS800NE

Electronic MCCB

TemBreak 2 VS
VS630NE and VS800NE

- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety.
- Standard features depend on MCCB model:
Adjustable LSI (standard),
LSIG (AG type), Pre-Trip Alarm LED indication (all)
- 3 pole MCCB
- Range of accessories available,
see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE (V)	MODEL	I_{cu} (kA)	I_{cs} (kA)
AC USE	1000	VS630NE	20	15
		VS800NE	20	15
	1100	VS630NE	18	13.5
		VS800NE	18	13.5

Trip unit

Adjustable long, short and instantaneous settings

LTD ADJUSTMENT:	I_r : 0.5-1X I_n	t_r : 5-30s
STD ADJUSTMENT	I_{sd} : 2-10X I_r	t_{sd} : 100-300ms
INSTANTANEOUS ADJUSTMENT:	I_i : 3-12X I_n	
GF ADJUSTMENT (BEG ONLY):	I_g : 0.1-0.4X I_n	t_g : 100-800ms

Dimensions mm

MODEL	HEIGHT	WIDTH 3P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
630NE/800NE	273	210	145	103

Electronic 630 A Frame 20kA 3 Pole

I_n (A @ 45 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	GROUND FAULT PROTECTION	CAT. No
630	315-630	NO	VS630NE3630K
	915-630	YES	VS630NE3AG630K
800	320-800	NO	VS800NE3800K
	320-800	YES	VS800NE3AG800K

Notes

- The rear insulation barrier, terminal covers, and terminal screw caps supplied with the MCCB, must be used for MCCB installation.

VS630NE & VS800NE Accessories

Internal Accessories

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Internal accessories for VS400 are factory or NHP Service fit. The below table indicates the available options, please contact NHP for further details on price and availability

CATEGORY	DESCRIPTION	CAT. №
SHUNT TRIPS SH	24 V AC	CONTACT NHP
	110 V AC/DC	CONTACT NHP
	240 V AC	CONTACT NHP
	12 V DC	CONTACT NHP
	24 V DC	CONTACT NHP
	48 V DC	CONTACT NHP
UNDER-VOLTAGE TRIPS UV	INSTANTANEOUS OPERATION, TIME DELAYED OPERATION (500ms) ALSO AVAILABLE	
	110 V AC	CONTACT NHP
	220 - 480 V AC	CONTACT NHP
	440 V AC	CONTACT NHP
	24 V DC	CONTACT NHP
	48 V DC	CONTACT NHP
	60 V DC	CONTACT NHP
	110/220 V DC	CONTACT NHP
AUXILIARY SWITCHES	200 - 230 V DC	CONTACT NHP
	AUX SW RIGHT HAND 1C	CONTACT NHP
	AUX SW RIGHT HAND 2C	CONTACT NHP
ALARM SWITCH	AUX SW RIGHT HAND 3C	CONTACT NHP
	ALT SW RIGHT HAND	CONTACT NHP
	ALT/AUX RIGHT HAND 1C	CONTACT NHP
ALARM AND AUXILIARY SWITCH	ATL/AUX RIGHT HAND 2C	CONTACT NHP

VS630NE & VS800NE Accessories

External Accessories

TemBreak 2 VS
VS630NE and VS800NE

CATEGORY	DESCRIPTION	CAT. №
TERMINAL COVERS	3 POLE, FRONT CONNECT TERMINAL COVER, QTY 1	2H1417DAB
	IP20 PROTECTIVE COVER INSERT, QTY 1	2A1787DBA
	3 POLE, REAR CONNECT TERMINAL COVER, QTY 1	UXPD0013C
TUNNEL TERMINALS	3 POLE, SET OF 6 CLAMPS	TXLD0005A
REAR CONNECT STUDS	3 POLE, SET OF 6 STUDS	UXRC0008B
LOCKING DEVICES	NON-CAPTIVE TOGGLE LOCK	UXKB0002A
	CAPTIVE TOGGLE LOCK	XKA6
	HANDLE PADLOCK DEVICE FOR HP AND HS HANDLES	T1HP80PALK
DIRECT MOUNT HANDLE WITH DOOR INTERLOCK	BLACK HANDLE, IP55	TFJ34XU
HP SQUARE HANDLE WITH EXTENSION SHAFT IP65	GREY/BLACK	T1HP80R6BNA4
HS HANDLE WITH 356mm EXTENSION SHAFT	GREY/BLACK, IP55 HANDLE	T1HS80R5GM
	METAL, IP65 HANDLE	YASD46
MOTORS MC	110 V AC	2H1299CAC
	240 V AC	2H1303CAE
	24 V DC	2H1302CAC
	110V DC	2H1301CAC

TemBreak Mining VS800GE

Electronic MCCB

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TemBreak Mining 800 AF

- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety.
- Standard features depend on MCCB model:
Adjustable LSI (standard),
- LSIG (AG type), Pre-Trip Alarm LED indication (all)
- 3 pole MCCB
- Range of accessories available,
see accessory section for further details



Short Circuit capacity kA

USE	VOLTAGE (V)	I_{cu} (kA)	I_{cs} (kA)
AC USE	1000	30	20
	1100	30	20

Trip unit

Electronic LSI, 7 dial-selectable characteristic curves suited for a variety of applications, base current I_r is adjustable from $0.4 \cdot 1 \times I_n$

Dimensions mm

MODEL	HEIGHT	WIDTH 3P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
800GE	370	210	171	120

Electronic 800 A Frame 30kA 3 Pole

I_n (A @ 45 °C)	I_r , ADJUSTABLE MIN.-MAX. (A)	GROUND FAULT PROTECTION	CAT. No
800	320-800	NO	VS800GE3800K
	320-800	YES	VS800GE3AG800K

Notes

- The rear insulation barrier, terminal covers, and terminal screw caps supplied with the MCCB, must be used for MCCB installation.

TemBreak Mining VS1250

Electronic MCCB

TemBreak 2 VS
VS800GE and VS1250NE

TemBreak Mining 1250 AF

- Complies to AS/NZS 60947-2, IEC 60947-2
- Current limiting device, reduces fault let through energy for increased installation safety.
- Standard features depend on MCCB model:
Adjustable LSI (standard),
- LSIG (AG type), Pre-Trip Alarm LED indication (all)
- 3 pole MCCB
- Range of accessories available,
see accessory section for further details



Short Circuit Capacity kA

USE	VOLTAGE (V)	I_{cu} (kA)	I_{cs} (kA)
AC USE	1000	30	20
	1100	30	20

Trip unit

Electronic LSI, 7 dial-selectable characteristic curves suited for a variety of applications, base current I_r is adjustable from $0.4 \cdot 1 \times I_n$

Dimensions mm

MODEL	HEIGHT	WIDTH 3P	DEPTH WITH TOGGLE	DEPTH W/O TOGGLE
NE	370	210	171	120

Electronic 800 A Frame 30kA 3 Pole

I_n (A @ 45 °C)	I_r , ADJUSTABLE	GROUND FAULT PROTECTION	CAT. No
1250	500-1250	NO	VS1250NE31250K
	500-1250	YES	VS1250NE3AG1250K

Notes

The rear insulation barrier, terminal covers, and terminal screw caps supplied with the MCCB, must be used for MCCB installation.

VS800GE & VS1250NE Accessories

Internal Accessories

7
275

CATEGORY	DESCRIPTION	CAT. No
SHUNT TRIPS SH	SUITS VS800/VS1250	
	100 - 120 V AC	T2SH00A10TA
	200 - 240 V AC	T2SH00A20TA
	380 - 450 V AC	T2SH00A40TA
	12 V DC	T2SH00D01TA
	24 V DC	T2SH00D02TA
	48 V DC	T2SH00D04TA
	100 - 120 V DC	T2SH00D10TA
	200 - 240 V DC	T2SH00D20TA
UNDER-VOLTAGE TRIPS UV	INSTANTANEOUS OPERATION	
	110 V AC	T2UV80A10NTA
	240 V AC	T2UV80A20NTA
	415 V AC	T2UV80A40NTA
	24 V DC	T2UV80D02NTA
	48 V DC	T2UV80D04NTA
	110 V DC	T2UV80D10NTA
	230 V DC	T2UV80D24NTA
	FOR TIME DELAYED OPERATION (500ms)–REFER NHP	
AUXILIARY & ALARM SWITCHES AX AL	GENERAL PURPOSE TYPE (2 A @ 240 V INDUCTIVE)	
	1 C/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00M3STA
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3SWA
	1 C/O ALARM WITH TERMINAL CONNECTION	T2AL00M3STA
	1 C/O ALARM WITH PRE-WIRED CONNECTION	T2AL00M3SWA
	HEAVY DUTY TYPE (4 A @ 240 V INDUCTIVE)	
	1 N/O AUXILIARY WITH TERMINAL CONNECTION	T2AX00B1STA
	1 N/C AUXILIARY WITH TERMINAL CONNECTION	T2AX00B2STA
	1 N/O ALARM WITH TERMINAL CONNECTION	T2AL00B1STA
	1 N/C ALARM WITH TERMINAL CONNECTION	T2AL00B2STA
	MICRO SWITCHING TYPE (100mA @ 30 V RESISTIVE)	
	1 C/O AUXILIARY WITH PRE-WIRED CONNECTION	T2AX00M3RTA
	1 C/O ALARM WITH PRE-WIRED CONNECTION, LEFT SIDE MOUNT	T2AL00M3RTA
T2AX		
T2UV		



VS800GE & VS1250NE Accessories

External Accessories

TemBreak 2 VS
VS800GE and VS1250NE

CATEGORY	DESCRIPTION	CAT. No
STANDARD TERMINAL COVERS	3 POLE COVER, 85mm LONG, QTY 1	T2CFX33SLHP
TERMINAL COVER CLIP	COVER CLIP TO SUIT VS800	T2CF00L
LOCKING DEVICES TL/HP	NON-CAPTIVE TOGGLE LOCK: FITS UP TO 3 PADLOCKS OR A MULTI-PADLOCK DEVICE	
	TO SUIT VS800GE/VS1250	T2HLX6A
	CAPTIVE TOGGLE LOCK: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
	TO SUIT VS800GE/1250	T2PLX6UN
	HANDLE PADLOCK DEVICE: ALLOWS A SINGLE PADLOCK OR MULTI-PADLOCK DEVICE	
HP SQUARE HANDLE WITH EXTENSION SHAFT IP65 HP	TO SUIT VS800GE/VS1250 WITH HS OR HP HANDLES	T1HPX6PALK
	GREY/BLACK WITH 445mm SHAFT	T2HPX6R6BN
	RED/YELLOW, WITH 445mm SHAFT	T2HPX6R6RN
	METAL HANDLE WITH 320mm SHAFT	T2HPX6R6ME
HS HANDLE WITH 356mm EXTENSION SHAFT IP55 HS	GREY/BLACK	TPHSX6F65BM
	RED/YELLOW	TPHSX6F65RM
MOTOR OPERATOR MC	110 V AC	T2MCX6A10NP
	240 V AC	T2MCX6A24NP
	24 V DC	T2MCX6D02NP

T2HL



T2HP



T2HP



T2MC



TPHS



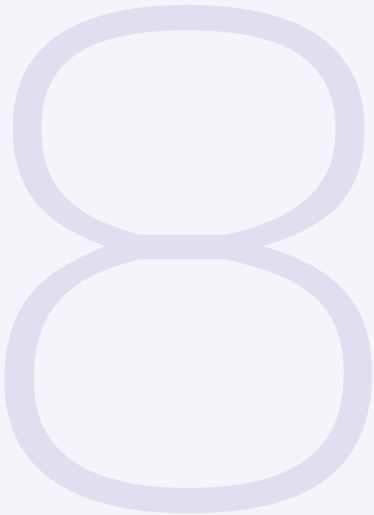
Automatic Transfer Switches

World class transfer switch solutions from 40A to 3200A



Scan to
learn more

TemPower 2 ACBs



Air Circuit Breakers	Range Overview	280
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Range Overview

TemPower 2 AR
Air Circuit Breakers

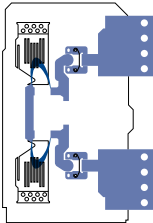
The Terasaki TemPower 2 Air Circuit Breaker is the ultimate choice for reliable and safe circuit protection. Its unique 'double break' modular contact mechanism ensures continuity of power supply and improves safety for operators. Available in ratings from 800 to 6300A in a compact frame, these breakers are suited to general industry, mining, healthcare/hospitals, large commercial buildings, data centres and marine/ ships. The range features breaking capacities from 65kA to 120kA in both 3 and 4 pole configurations with a wide range of accessories available to suit your needs.

Features

- 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
- Short time withstand rating I_{cw} at $1s = I_{cu} = I_{cs}$, providing superior selectivity and ensuring a reliable power supply
- All maintainable parts of the ACB are on the body, allowing for the complete ACB circuit to be replaced and maintained without shutting down the switchboard.
- On board energy management and temperature monitoring to facilitate energy usage reporting and pro-active maintenance strategies.
- Minimise risk and maximise the safety of your operators with TemRack iR, a unique remote operated automatic racking device housed within the AR ACB

AR2

AR2-AR4 "DOUBLE BREAK" CONTACT DESIGN



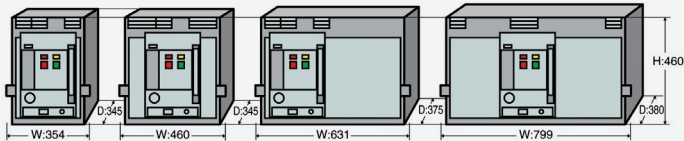
MAXIMUM POWER FROM MINIMUM VOLUME 3 POLE WITHDRAWABLE MODELS SHOWN

AR2

AR3

AR4

AR6



Standards, Certification and Authorisation

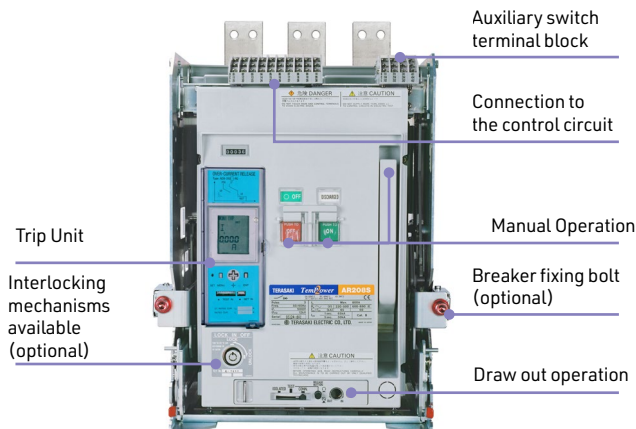
BASED STANDARDS

AS/NZS 60947-2	AUSTRALIAN AND NEW ZEALAND STANDARD
IEC 60947-2	INTERNATIONAL ELECTROTECHNICAL COMMISSION
EN60947-2	EUROPEAN STANDARD
JIS C8372	JAPANESE INDUSTRIAL STANDARD
NEMA PUB NO.SG3	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
ANSI C37.13	AMERICAN NATIONAL STANDARD INSTITUTE

CERTIFICATION AND AUTHORISATION

ASTA, UK	ASTA CERTIFICATION SERVICES
NK, JAPAN	NIPPON KAIJI KYOKAI
LR, UK	LLOYD'S REGISTER OF SHIPPING
ABS, USA	AMERICAN BUREAU OF SHIPPING
GL, GERMANY	GERMANISCHER LLOYD
BV, FRANCE	BUREAU VERITAS

For easy wiring access, control voltage, auxiliary and position switch terminals are all mounted at the front on the ACB body. Due to a general increase in the level of harmonics in modern power distribution systems, the neutral phase is fully rated as standard on 4P models.



Performance Specification

TemPower 2 AR
Air Circuit Breakers

AR-S TEMPOWER 2 -STANDARD		AR208S	AR212S
RATED CURRENT (I_n) ^{1 2}	(A)	800	1250
NUMBER OF POLES ^{3 4}		3 & 4	3 & 4
CURRENT TRANSFORMER RATINGS (I_{ct})	(A)	200	200
		400	400
		800	800
			1250
INSULATION VOLTAGE (U_i) (V 50/60 HZ)	(V AC)	1000	1000
OPERATIONAL VOLTAGE (U_e) (V 50/60 HZ)	(V AC)	690	690
IMPULSE VOLTAGE (U_{imp})	(KV)	12	12
BREAKING CAPACITY kA ⁵ ($I_{cs} = I_{cu}$) [kA SYM RMS]	690 V	50	50
	440 V	65	65
MAKING CAPACITY I_m (kA PEAK)	690 V	105	105
	440 V	143	143
RATED SHORT TIME WITHSTAND (I_{cw})	1 SEC	65	65
	3 SEC	50	50
TOTAL CLEARANCE TIME	SEC	0.03	0.03
MOTOR CHARGING TIME (MAX)	SEC	10	10
CLOSING TIME (MAX)	SEC	0.08	0.08
LATCHING CURRENT	(kA)	65	65
ENDURANCE (ELECTRICAL @ 460V AC)	CYCLES	12000	12000
ENDURANCE (MECHANICAL-WITH MAINTENANCE)	CYCLES	30000	30000
ENDURANCE (MECHANICAL-WITHOUT MAINTENANCE)	CYCLES	15000	15000

Notes

1. Values in open air at 40°C (45°C for marine applications)
2. Values of AR208S, AR212S, AR216S for draw-out type with horizontal terminals, values of the other ACBs for draw-out type with vertical terminals.
3. For 2 pole ACBs use outside poles of 3 pole ACB.
4. 4 Pole ACBs without Neutral phase protection not suitable for IT earthing systems
5. Please contact NHP for 800 V AC, 1000 V AC and DC applications.

AR216S	AR220S	AR325S	AR332S	AR440S	AR650S	AR663S
1600	2000	2500	3200	4000	5000	6300
3 & 4	3 & 4	3 & 4	3 & 4	3 & 4	3 & 4	3 & 4
200	200	200	200	4000	5000	6300
400	400	400	400			
800	800	800	800			
1250	1250	1250	1250			
1600	1600	1600	1600			
		2000	2000			
			3200			
1000	1000	1000	1000	1000	1000	1000
690	690	690	690	690	690	690
12	12	12	12	12	12	12
50	50	65	65	75	85	85
65	65	85	85	100	120	120
105	105	143	143	165	187	187
143	143	187	187	220	264	264
65	65	85	85	100	120	120
50	50	65	65	85	85	85
0.03	0.03	0.03	0.03	0.03	0.05	0.05
10	10	10	10	10	10	10
0.08	0.08	0.08	0.08	0.08	0.08	0.08
65	65	85	85	100	120	120
12000	10000	7000	7000	3000	1000	1000
30000	25000	20000	20000	15000	10000	10000
15000	12000	10000	10000	8000	5000	5000

Performance Specification

TemPower 2 AR
Air Circuit Breakers

A 'High Fault' series of AR ACB is available (AR-H) for custom built ACBs.
For applications that require a larger breaking capacity than the standard series.

AR-H TEMPOWER 2 HIGH FAULT		AR216H
RATED CURRENT (I_n) ^{1 2}	(A)	1600
NUMBER OF POLES ^{3 4}		3 & 4
CURRENT TRANSFORMER RATINGS(I_{ct})	(A)	200
		400
		800
		1250
		1600
INSULATION VOLTAGE (U_i)	(V AC)	1000
OPERATIONAL VOLTAGE (U_e)	(V AC)	690
IMPULSE VOLTAGE (U_{imp})	(KV)	12
BREAKING CAPACITY ka ⁵ ($I_{cs} = I_{cu}$) [ka SYM RMS]	690 V	55
	440 V	80
MAKING CAPACITY IM (ka PEAK) IEC, AS	690 V	121
	440 V	176
RATED SHORT TIME WITHSTAND (I_{cw})	1 SEC	80
	3 SEC	55
TOTAL BREAKING TIME	SEC	0.03
MOTOR CHARGING TIME	SEC	10
CLOSING TIME (MAX)	SEC	0.08
LATCHING CURRENT	(ka)	65
ENDURANCE (ELECTRICAL)	12000	12000
ENDURANCE (MECHANICAL-WITH MAINTENANCE)	30000	30000
ENDURANCE (MECHANICAL-WITHOUT MAINTENANCE)	15000	15000

Notes

1. Values in open air at 40°C (45°C for marine applications)
2. Values of AR208S, AR212S, AR216S for draw-out type with horizontal terminals, values of the other ACBs for draw-out type with vertical terminals.
3. For 2 pole ACBs use outside poles of 3 pole ACB.
4. 4 Pole ACBs without Neutral phase protection not suitable for IT earthing systems
5. Please contact NHP for 800 V AC, 1000 V AC and DC applications.

AR220H	AR316H	AR320H	AR325H	AR332H
2000	1600	2000	2500	3200
3 & 4	3 & 4	3& 4	3& 4	3 & 4
200	200	200	200	200
400	400	400	400	400
800	800	800	800	800
1250	1250	1250	1250	1250
1600	1600	1600	1600	1600
2000		2000	2000	2000
			2500	2500
				3200
1000	1000	1000	1000	1000
690	690	690	690	690
12	12	12	12	12
55	85	85	85	85
80	100	100	100	100
121	187	187	187	187
176	220	220	220	220
80	100	100	100	100
55	75	75	75	75
0.03	0.03	0.03	0.03	0.03
10	10	10	10	10
0.08	0.08	0.08	0.08	0.08
65	85	85	85	85
12000	10000	7000	7000	3000
30000	25000	20000	20000	15000
15000	12000	10000	10000	8000

Trip Unit Specification

TemPower 2 AR
Air Circuit Breakers

Equipped with an impressive range of standard features and options, the Terasaki range of trip units are suitable for commercial, industrial, and marine applications. The Terasaki Trip Unit is divided into 3 performance ranges; the **TemPro AGR11**, **TemPro PLUS** and **TemPro PREMIER**.

Features

- | | |
|---|---|
| ▪ Overload Protection | Adjustable from 40 - 100% of rated current.
True r.m.s. detection up to the 19th harmonic. |
| ▪ Rapid Short Circuit Protection | Equipped with unique "DoubleBreak" contact system, the total fault clearance is less than 30ms for up to 4000A to suit protection of critical loads |
| ▪ Ground Fault Protection | Restricted and unrestricted ground protection options are available with the TemPro Premier trip unit (AGR31) and TemPro PLUS trip unit (AGR21). |

AGR-11B	AGR-21C	AGR-31C
		
Basic Trip Unit with adjustment dials TemPro AGR11	Standard Trip Unit with Ammeter display TemPro PLUS	Advanced Trip Unit with LCD "Analyser" TemPro PREMIER

- The TemPower 2 range trip units are available in three protection types:
- | | |
|---------------------------|---|
| ▪ L-characteristic | for general feeder applications and will achieve most selectivity and protection requirements |
| ▪ R-characteristic | provides curve characteristics to IEC 60255-3 to use when selectivity cannot be achieved with other system protective devices (i.e., fuses or other relays) |
| ▪ S-characteristic | specifically designed for generator applications. |

SETTING / OPT	TEMPRO AGR11	CURVE TYPE	TEMPRO PLUS AGR21	CURVE TYPE	TEMPRO PREMIER AGR31	CURVE TYPE
CURRENT-LA	YES	L	YES	L, R, S	YES	L, R, S
CURRENT-LB	YES	L	YES	L, R, S	YES	L, R, S
CURRENT-LC	YES	L	YES	L, R, S	YES	L, R, S
CURRENT-LN	YES	L	YES	L, R, S	YES	L, R, S
CURRENT-LG	NO	–	YES	L, R	YES	L, R
LINE VOLTAGE-VAB	NO	–	NO	–	YES	L, R, S
LINE VOLTAGE-VBC	NO	–	NO	–	YES	L, R, S
LINE VOLTAGE-VCA	NO	–	NO	–	YES	L, R, S
POWER FACTOR-PF	NO	–	NO	–	YES	L, R, S
FREQUENCY (HZ)	NO	–	NO	–	YES	L, R, S
ACTIVE POWER (KW)	NO	–	NO	–	YES	L, R, S
TOTAL REAL ENERGY (KWH)	NO	–	NO	–	YES	L, R, S
MAXIMUM CURRENT	NO	–	NO	–	YES	L, R, S
MAXIMUM ACTIVE POWER (KW)	NO	–	NO	–	YES	L, R, S
MAXIMUM VOLTAGE	NO	–	NO	–	YES	L, R, S
REACTIVE POWER	NO	–	NO	–	YES	L, R, S
APPARENT POWER	NO	–	NO	–	YES	L, R, S
HARMONIC CURRENT 3RD TO 19TH	NO	–	NO	–	YES	L, R, S
TRIP HISTORY (10 EVENTS)	NO	–	YES	L, R, S	YES	L, R, S

Special Protection Options

- Overload Protection Provides protection when paralleling generators
- Load Shedding Relay Provides protection when paralleling generators
- Neutral Phase Protection The N-phase protection function prevents the neutral conductor from sustaining damage or burnout due to large currents¹
- Under & Over Voltage Alarm With adjustable voltage pick up and an adjustable time delay. This provides fine tuning of all the voltage requirements^{1 2}
- Zone Interlocking Short time delay zone interlocking guarantees selectivity and minimises thermal and mechanical stress during a fault.
- Overheat Protection Continuous monitoring of the contact temperature provides input for preventative and predictive maintenance programs¹
- Phase Rotation Protection Protects from negative-phase current occurring due to reverse phase or phase loss and prevents motor burnout or equipment damage¹

Notes

- Available on some Trip Unit models.
- 3 Phase UVT available only with external module.

Standard ACB Range

TemPower 2 AR
Air Circuit Breakers

Product Selection

Standard ACBs are kept on the shelf in several pre-built configurations providing fast customer delivery. When selecting an 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)



Standard ACB specification—Basic Electronic type (AGR11)

- Approvals and test: IEC 60947, A.S.T.A. certified
- AR-S type ACB body, 3 pole only
- Withdrawable or fixed versions available
- Vertical-vertical tag arrangement
- Self-powered AGR11 trip unit with LSI protection
- 4 C/O auxiliary switch
- ON/OFF pushbutton covers are padlockable as standard
- Position padlock facility—locks ACB inside carriage in 'connected' or 'test' position
- Compatible with TemPower 2 customer-fit accessories, excluding ground fault CTs

Fixed ACB Body with AGR11B

DESCRIPTION	CAT. No
AR2 ACB BODY 1250A 65kA AGR11C 3P FIXED VERTICAL-VERTICAL	ARB212BE3FVW
AR2 ACB BODY 1600A 65kA AGR11C 3P FIXED VERTICAL-VERTICAL	ARB216BE3FVW
AR2 ACB BODY 2000A 65kA AGR11C 3P FIXED VERTICAL-VERTICAL	ARB220BE3FVW
AR3 ACB BODY 2500A 85kA AGR11C 3P FIXED VERTICAL-VERTICAL	ARB325BE3FVW
AR3 ACB BODY 3200A 85kA AGR11C 3P FIXED VERTICAL-VERTICAL	ARB332BE3FVW

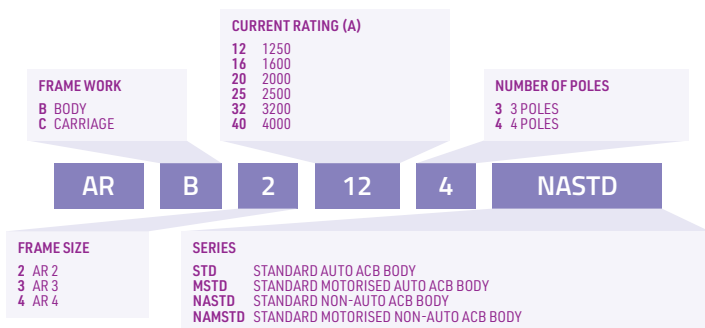
Withdrawable ACB Body & Carriage with AGR11B

DESCRIPTION	CAT. No
AR2 ACB BODY & CARRIAGE 1250A 65kA AGR11C 3P WITHDRAWABLE VERTICAL-VERTICAL	ARB212BE3WDVV
AR2 ACB BODY & CARRIAGE 1600A 65kA AGR11C 3P WITHDRAWABLE VERTICAL-VERTICAL	ARB216BE3WDVV
AR2 ACB BODY & CARRIAGE 2000A 65kA AGR11C 3P WITHDRAWABLE VERTICAL-VERTICAL	ARB220BE3WDVV
AR3 ACB BODY & CARRIAGE 2500A 85kA AGR11C 3P WITHDRAWABLE VERTICAL-VERTICAL	ARB325BE3WDVV
AR3 ACB BODY & CARRIAGE 3200A 85kA AGR11C 3P WITHDRAWABLE VERTICAL-VERTICAL	ARB332BE3WDVV

Standard ACB configuration—TemPro PLUS type (AGR21)

- Approvals and test: IEC 60947, A.S.T.A. certified
- AR-S type ACB body
- Withdrawable ACBs with vertical, horizontal and front connect tags available
- 240VAC TemPro PLUS AGR21C trip unit with adjustable LSIG protection (3P units require external 4th CT for GF detection)
- Modbus communication facility for data monitoring
- 240VAC spring charge motor available in certain models
- 240VAC continuously rated shunt trip
- 7 C/O auxiliary switch
- IP 41 door flange
- ON/OFF pushbutton covers are padlockable as standard
- Position padlock facility—locks ACB inside carriage in 'connected' or 'test' positions
- Compatible with TemPower 2 customer-fit accessories, excluding ground fault CTs

Catalogue Number Construction



ACB Body, 3 Pole, Standard (auto/non-auto), motorised(auto/non-auto) ACB body

BODY FRAME SIZE	CURRENT RATING (A)	400 / 415V INTER- RUPTING CAPACITY (kA)	ACB BODY AGR21 TRIP UNIT	ACB BODY AGR21 TRIP UNIT WITH 240V AC SPRING CHARGE MOTOR	ACB BODY NON-AUTO (NO TRIP UNIT)	ACB BODY NON-AUTO (NO TRIP UNIT) WITH 240V AC SPRING CHARGE MOTOR
AR3-2	1250	65	ARB2123STD	ARB2123MSTD	ARB2123NASTD	ARB2123NAMSTD
	1600	65	ARB2163STD	ARB2163MSTD	ARB2163NASTD	ARB2163NAMSTD
	2000	65	ARB2203STD	ARB2203MSTD	ARB2203NASTD	ARB2203NAMSTD
AR3-S	2500	85	ARB3253STD	ARB3253MSTD	ARB3253NASTD	ARB3253NAMSTD
	3200	85	ARB3323STD	ARB3323MSTD	ARB3323NASTD	ARB3323NAMSTD
AR4-S	4000	100	ARB4403STD	ARB4403MSTD	ARB4403NASTD	ARB4403NAMSTD

Standard ACB Range

TemPower 2 AR
Air Circuit Breakers

ACB Carriage, 3 Pole STANDARD (AUTO/NON-AUTO), MOTORISED (AUTO/NON-AUTO) ACB CARRIAGE

BODY FRAME SIZE	COMPATIBLE ACB BODY	CURRENT RATING	TERMINAL ARRANGEMENT TOP	TERMINAL ARRANGEMENT BOTTOM	ACB CARRIAGE CATALOGUE NUMBER
AR2-S	ARB2123STD	1250	FRONT	FRONT	ARC2123FFSTD
			HORIZONTAL	HORIZONTAL	ARC2123HHSTD
			VERTICAL	VERTICAL	ARC2123VVSTD
			HORIZONTAL	VERTICAL	ARC2123HVSTD
			VERTICAL	HORIZONTAL	ARC2123VHSTD
	ARB2163STD ARB2203STD	1600 2000	FRONT	FRONT	ARC2203FFSTD
			HORIZONTAL	HORIZONTAL	ARC2203HHSTD
			HORIZONTAL	VERTICAL	ARC2203HVSTD
			VERTICAL	HORIZONTAL	ARC2203VHSTD
			VERTICAL	VERTICAL	ARC2203VVSTD
AR3-S	ARB3253STD ARB3323STD	2500 3200	FRONT	FRONT	ARC3323FFSTD
			HORIZONTAL	HORIZONTAL	ARC3323HHSTD
			HORIZONTAL	VERTICAL	ARC3323HVSTD
			VERTICAL	HORIZONTAL	ARC3323VHSTD
			VERTICAL	VERTICAL	ARC3323VVSTD
AR4-S	ARB4403STD	4000	VERTICAL	VERTICAL	ARC4403VVSTD

Ground fault 4th CT

The external ground fault 4th CT is required to be fitted to the switchboard neutral bar when the ground fault protection function used.

DESCRIPTION	RATED CURRENT	SUITS ACB TYPE	4TH CT CAT. No
GROUND FAULT 4TH CT	800 A	AR2	XCW0840LS08
	1250 A	AR2	XCW0840LS13
	1600 A	AR2	XCW0840LS16
	2000 A	AR2/3	XEC1640LS20
	2500 A	AR3	XEC1640LS25
	3200 A	AR3	XEC1640LS32
	4000 A	AR4	XEC1640LS40

Notes

4 pole versions available. Change '3' to '4' in part number as shown in example:

For Body: ARB2123STD - 3 pole
ARB2124STD - 4 pole
For Carriage: ARC2123HHSTD - 3 pole
ARC2124HHSTD - 4 pole

TemPower 2 AR standard accessories Customer-fit

The following items can be fit by the customer:

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.

DESCRIPTION	CAT. No
AR ACB INTERPOLE BARRIER AR2 3P 800-2000 AF	AR2INTPOLEBAR3P
AR ACB INTERPOLE BARRIER AR2 4P 800-2000 AF	AR2INTPOLEBAR4P
AR ACB INTERPOLE BARRIER AR3 3P 1600-3200 AF	AR3INTPOLEBAR3P
AR ACB INTERPOLE BARRIER AR3 4P 1600-3200 AF	AR3INTPOLEBAR4P
AR ACB INTERPOLE BARRIER AR4 3P 4000 AF	AR4INTPOLEBAR3P
AR ACB INTERPOLE BARRIER AR4 4P 4000 AF	AR4INTPOLEBAR4P
AR ACB INTERPOLE BARRIER AR6 3P 5000-6300 AF	AR6INTPOLEBAR3P
AR ACB INTERPOLE BARRIER AR6 4P 5000-6300 AF	AR6INTPOLEBAR4P

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

DESCRIPTION	CAT. No
AR ACB BODY LIFTING PLATES SIZE 2/3/4 800-4000 AF	AR234ACBLIFTLUGS
AR ACB BODY LIFTING PLATES SIZE 6 5000-6300 AF	AR6ACBLIFTLUGS
AR ACB LIFTING TROLLEY	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.

DESCRIPTION	CAT. No
AR ACB SHUTTER PADLOCK DEVICE 3/4P SIZE 2/3 800-3200 AF	AR23SHUTPADLOCK
AR ACB SHUTTER PADLOCK DEVICE 3/4P SIZE 4 4000 AF	AR4SHUTPADLOCK
AR ACB SHUTTER PADLOCK DEVICE 3P SIZE 6 5000-6300 AF	AR6SHUTPADLOCK3P
AR ACB SHUTTER PADLOCK DEVICE 4P SIZE 6 5000-6300 AF	AR6SHUTPADLOCK4P

TERASAKI ACB MISCELLANEOUS ACCESSORIES

DESCRIPTION	CAT. No
AR ACB IP55 LOCKABLE ESCUTCHEON DOOR COVER	ARDOORCOVERIP55

Continued on the next page →

← Continued from previous page

TemPower 2 AR accessories (NHP fit)

The following items are NHP Service fit only, or can be included in one of our custom ACB builds.

ITEM	DESCRIPTION
MOTOR OPERATOR	A MOTOR USED TO REMOTELY CHARGE/CLOSE THE ACB
SHUNT TRIP	ALLOWS REMOTE OPENING OF THE ACB
UNDervOLTAGE TRIP (UVT)	TRIPS THE ACB DURING AN UNDervOLTAGE (SINGLE PHASE)
TRAPPED KEY INTERLOCK	ROCKWELL OR FORTRESS TYPE PROSAFE
MECHANICAL INTERLOCK (BODY SIDE MECHANISM)	MECHANICALLY INTERLOCK UP TO 3 ACBS WITH EACH OTHER (SEVERAL CONFIGURATIONS AVAILABLE)
DOOR INTERLOCK	PREVENTS ENCLOSURE DOOR BEING OPENED UNLESS ACB IS ISOLATED
OFF POSITION PADLOCK FACILITY	ALLOWS THE ACB TO BE PADLOCKED IN THE OFF POSITION
CYCLE COUNTER	A 5-DIGIT COUNTER OF THE ACB'S ON/OFF CYCLES
AUXILIARY CONTACTS	UP TO 10 C/O CONTACTS
POSITION SWITCH	A CONTACT SET THAT SWITCHES TO INDICATE THE ACB STATUS IN A CARRIAGE
STORAGE DRAW-OUT HANDLE	DRAWOUT HANDLE THAT IS STORED INSIDE THE ACB BODY
3C TEMPERATURE MONITORING	UNIQUE INTEGRATED MONITORING SYSTEM WHICH CONTINUOUSLY MEASURES THE TEMPERATURE CONDITION OF THE ACB'S MAIN CONTACTS, CONNECTIONS AND CONDUCTIVE PATHS (3C)
TEMRACK IR	UNIQUE REMOTELY OPERATED AUTOMATIC RACKING DEVICE HOUSED WITHIN THE ACB

Custom ACBs

TemPower 2 AR ACBs are locally assembled by NHP along with many variations and options available to suit specific end user applications. If you require additional features not available within the stocked ACB range, please scan the QR code below, fill out the order form and send to your local NHP representative for more information.



Scan here for
order form

NHP's Services and Solutions team can help you reduce the risk of unplanned downtime and optimise operational performance.

Air circuit breakers (ACBs) are vital components in low voltage switchboards and must be regularly maintained to ensure their longevity and reliability. While often overlooked due to their passive operation, ACBs are complex and require careful handling. Inadequate maintenance can cause severe failures, fires, or injuries, resulting in production halts, expensive repairs, or legal consequences if on-site personnel are injured. Regular documented maintenance not only ensures that the ACB is fit and safe for service, but in the event of an insurance claim due to an electrical fault, site managers can refer to past service reports to demonstrate that steps had been taken to keep the ACBs in good working order.

ACB Total Care Package

To help support customers with maintenance, NHP offers a comprehensive service package for Terasaki ACBs and the wider range of NHP products. The ACB Total Care Package offers more than just a service, it provides a total peace of mind warranty you can trust.

- Yearly service—our team will perform an onsite predictive and preventative maintenance check according to Terasaki's specifications on your ACBs.
- Extended Warranty—At the conclusion of every service of the ACB Total Care Package, the warranty is extended by 12 months for a duration of up to 7 years.
- Access to emergency replacement ACBs—The ACB Total Care Package gives customers optional access to emergency replacement ACBs, minimising costly downtime and allowing for a speedy change of breakers within minutes.

ACB Retrofits

Retrofitting legacy LV switchboards with modern ACBs is a cost-effective solution provided by NHP to extend the life of the switchboards while ensuring safety and reducing downtime. This process preserves the existing copperwork and steelwork, making it about 80% cheaper than full switchboard replacement. It also minimizes investment requirements and allows for a quick component replacement, significantly reducing the financial and safety risks associated with ACB failure.

With retrofit and upgrade options for nearly all brands and models of ACB, NHP can work within your existing switchboard environment to provide a cost-effective solution.



NLINE Switches



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NLINE GPO

Weather protected General Purpose Outlets

NLINE Switches
Products

- Compliant to AS/NZS 3112
- RCM Approved
- 3 flat pin socket outlet
- M-rating certified (Motors)
- IP54 degree of protection
- UV stabilised
- Polycarbonate enclosure, grey (RAL 7035)
- Surface mount

Weather protected GPO



VOLTAGE RATING (V a.c.)	CURRENT RATING (A)	SINGLE OUTLET	DOUBLE OUTLET	DOUBLE OUTLET (WITH EXTRA SWITCH)
250	10	NLGP010S	NLGP010D	NLGP010DX
	15	NLGP015S	NLGP015D	NLGP015DX

Dimensions mm

HEIGHT	WIDTH	DEPTH	CONDUCTOR SIZE (SOLID, STRANDED)
85	115	87	2.5-10mm ² (3 x 2.5mm ²)

Notes

- Range utilises 1 Switching Pole
- 2.5mm² single conductors must be twisted and doubled before being terminated due to terminal size
- GPOs supplied with 25mm to 20mm conduit reducers (QTY 3)
- 1:1 scale drilling template included on packaging to simplify installation

NLINE Switches

Weatherproof Switches

9

297

- Compliant to AS/NZS 3133
- RCM Approved
- M-rating certified (Motor)
- AX-rating certified (Fluorescent lamp)
- IP66 degree of protection
- UV stabilised
- Polycarbonate enclosure, grey (RAL 7035)
- Surface mount

Weather protected GPO



SMALL SWITCHES

VOLTAGE RATING (V a.c.)	CURRENT RATING (A)	NO. OF SWITCHING POLES	1 SWITCH	2 SWITCH
250	16	1 (2 WAY)	NLSW116S	NLSW216S
	20	2	NLSW120S	-



LARGE SWITCHES

VOLTAGE RATING (V a.c.)	CURRENT RATING (A)	NO. OF SWITCHING POLES	1 SWITCH	2 SWITCH	3 SWITCH
250	16	1 (2 WAY)	NLSW116L	NLSW216L	NLSW316L
	20	2	NLSW120L	-	-

Dimensions mm

	HEIGHT	WIDTH	DEPTH	CONDUCTOR SIZE (SOLID, STRANDED)
SMALL	86	86	65	1.5-4mm ²
LARGE	85	115	65	2.5-6mm ²

Notes

- Looping terminal included on 1 (2-way) switching versions

NLINE Isolating Switches

Weatherproof Isolating Switches

NLINE Switches
Products

Enclosed AC Isolating Switches

- Compliant to AS/NZS 3133
- RCM Approved
- M-rating certified (Motor)
- AX-rating certified (Fluorescent lamp)
- IP66 degree of protection
- UV stabilised
- Polycarbonate enclosure, grey (RAL 7035)
- Surface mount



SMALL SWITCHES

VOLTAGE RATING (V a.c.)	CURRENT RATING (A)	NO. OF SWITCHING POLES	CAT. №
250	20	2	NL120S

LARGE SWITCHES

VOLTAGE RATING (V a.c.)	CURRENT RATING (A)	NO. OF SWITCHING POLES	CAT. №
250	20	2	NL120L
	40	2	NL140L
500	20	3	NL320L
	40	3	NL340L

Dimensions mm

CAT. №	HEIGHT	WIDTH	DEPTH	CONDUCTOR SIZE (SOLID, STRANDED)
SMALL	86	86	91	2.5-6mm ²
LARGE	165	95	91	2.5-16mm ²

Notes

- Tested AC-21, AC-22 and AC-23 as per AS 60947.3
- 1:1 scale drilling template included on packaging to simplify installation

Enclosed DC Isolating Switches

- Compliant to AS 60947.3
- RCM approved
- DC-PV2 and DC-21B rated, 1500V
- IP66 degree of protection
- UV stabilised
- Polycarbonate enclosure, grey (RAL 7035)
- Surface mount
- Non-polarised
- Integrated pressure compensation valve



Application

The NLINE enclosed DC isolating switch has been designed, engineered and developed for 1-20kw 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.

VOLTAGE RATING (V d.c.) PV2	CURRENT RATING (A)	NO. OF SWITCHING POLES	CAT. No
1500	32	4	NL432PV

Dimensions mm

HEIGHT	WIDTH	DEPTH	CONDUCTOR SIZE (SOLID, STRANDED)
180	99	107	4-16mm ²

Notes

- Refer to page 300 for list of available accessories

CATEGORY	SUITS	CAT. No
AC ISOLATORS, GPOS & SWITCHES	COVER SCREW CAPS GREY (QTY 200)	ISOCAPG
DC ISOLATOR	WALL MOUNT BRACKETS STAINLESS STEEL (QTY 2)	NLAWMB
	THREADED REDUCER M25 TO M12	NLARDM25M12
	BRIDGING LINKS (QTY 4)	NLA432PVBL
	SPARE ACCESSORY KIT	NLA432PVKIT
	▪ BRIDGING LINKS (QTY 2)	
	▪ THREADED REDUCER (QTY 1)	
	▪ WALL MOUNT BRACKETS (QTY 2)	
	▪ INTERNAL SEALING CAPS (QTY 6)	

Smart RCD Testing

Rapid RCD testing system maximising
safety and meeting compliance requirements



Save time and money

Improves productivity

Maximise safety

Minimise downtime

Minimise arc flash exposure



Scan to
learn more

ISO Plugs and Sockets

10

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SOCKET OUTLETS



- Single phase: 10A and 15A (flat pin)
- Single phase: 20A and 32A (round pin)
- Three phase: 10A to 50A, 4 and 5 pin configurations
- 10A and 15A 3 flat pin auto switching socket as standard
- Available as combination Switched Socket (isolator included), Switched RCD Socket (isolator and RCD included) or socket outlet only combinations
- Available with or without base
- Material and Colour types: Standard Grey, Chemical Resistant Orange or Chemical Resistant White

SWITCHES



- Motor rated and tested to AC23 and M-rating
- 10A and 15A heavy duty switch block supplied as standard
- 2 switching poles supplied as standard on all single phase switches 10A to 32A
- 4 pole switches available in 20A, 32A and 40A
- Available with or without base
- Padlockable in the off position
- Material and Colour types: Standard Grey and Chemical Resistant Orange and White

APPLIANCE INLETS



- Single phase: 10A and 15A (flat pin)
- Single phase: 20A and 32A (round pin)
- Three phase: 10A to 50A, 4 and 5 pin configurations
- 3 pin 10A and 15A versions with spring return hinged lid
- 10A to 50A round pin versions feature padlockable covers/ appliance inlet to extension socket
- Material and Colour types: Standard Grey and Chemical Resistant Orange

RCD PROTECTED OUTLETS



- Available as either a switched RCD protected combination or an RCD protected socket outlet
- All units come supplied with Type A 30mA RCCB safety switch and are pre-wired, ready to install
- 3 or 4 gang bases, 4 gang available in square (2 x 2) and in-line (1 x 3 or 1 x 4) arrangement
- Material and Colour types: Standard Grey, Chemical Resistant Orange or Chemical Resistant White

KEYED SWITCHES



- An Australian made key mechanism with a stainless steel barrel insert for increased strength
- Locking positions: OFF only or OFF/ON
- Padlockable facility remains for personal lock out requirements
- Keyed-alike variants available on special order (Key combinations between 001 - 200)
- Available with or without base
- Material and Colour types: Standard Grey and Chemical Resistant Orange

PLUGS



- Straight and angled versions
- Single phase: 10A and 15A (flat pin)
- Single phase: 20A and 32A (round pin)
- Three phase: 10A to 50A, 4 and 5 pin configurations
- Material and Colour types: Standard Electric Orange and Chemical Resistant Orange
- Stainless steel pendant brackets available

EXTENSION SOCKETS



- 10A to 50A
- 3, 4 and 5 pin configurations
- Patented lock-out feature restricts access
- Material and Colour types: Standard Electric Orange and Chemical Resistant Orange
- Stainless steel pendant brackets available

BASES, COVERS & ACCESSORIES



Lids & RCD covers

- 1 and 2 gang options
- Blank or 22.5mm cut outs
- RCD covers will accept most 4 pole width, DIN-mounted devices and are supplied with mounting rail and kit
- Material and Colour types: Standard Grey, Chemical Resistant Orange or Chemical Resistant White

BASES

- 1, 2, 3, 4, 6 and 9 gang, standard depth (63mm)
- 1 and 2 gang, shallow depth (38mm)
- 2 gang, extra deep depth (100mm)
- 3 and 4 gang, in-line vertical (1 x 3 or 1 x 4)
- 2 gang, pendant type
- Material and Colour types: Standard Grey, Chemical Resistant Orange or Chemical Resistant White

APPLICATION	INDUSTRIAL ENVIRONMENTS	INDUSTRIAL PLANTS	PUBLIC & RECREATIONAL AREAS	MIXED-USE FACILITIES
	Workshops: tool rooms, fabrication Warehouse and storage General plant rooms: assembly, manufacturing Switch rooms and control rooms Server rooms, substations	Textile and paper mills Pharmaceutical manufacturing Chemical processing rooms Automotive paint shops Electronics manufacturing	Public eating area: food courts, dining areas Car parks: parking garages, outdoor parking lots Offices, shopping centres, airports Community centres, sport facilities Museums, theatres	Fitness centres / sports facilities, spas, swimming pools, wellness centres Hospitals
ENVIRONMENT DESCRIPTION	Stable or varying temperatures Potential humidity changes Exposure to oils and contaminants Minimal or no exposure to uv light and weather conditions (indoors or sheltered outdoors)	Stable temperatures Typically stable humidity Potential exposure to solvents and other chemicals Minimal or no exposure to uv light and weather conditions (indoors or sheltered outdoors)	Varying temperatures Potential humidity changes Potential exposure to contaminants Exposed to uv light and weather conditions (outdoors) Potential condensation	Varying temperatures High humidity Exposure to cleaning agents and disinfectants Minimal or no exposure to uv light and weather conditions (indoors)
FINISHES RECOMMENDATION		 		 

Disclaimer The application guide and chemical resistant chart are intended for general informational purposes only. While we strive to ensure the accuracy and reliability of the information presented, it is important to note that the suitability of any product for specific applications and the use of chemicals and combination of multiple chemicals should be independently verified by the user for use within a specific environment. The company assumes no responsibility or liability for any errors, omissions, or inaccuracies in the information provided, nor for any loss or damage resulting from the use of the products or reliance on the information provided here.

INDUSTRIAL PROCESSING AND TRANSPORTATION	BEVERAGE PRODUCTION & FOOD PREPARATION	SPECIALISED ENVIRONMENTAL AREAS	COOKING AREAS	EDUCATION INSTITUTIONS
Crushing, grinding, milling areas Conveyor belt systems Furnace and kiln rooms Refining area Dispatch centres, packing areas, loading docks Engine rooms, Shipping yards, Rail signal rooms, train/bus depots	Food preparation area or kitchen Wineries Breweries Juice processing, soft drink production Canning facilities	Cool room for perishable storage Rooftop plant platforms Agricultural and horticultural premises	Exposure to cooking oil (chip fryers etc.)	Classrooms Research laboratories
Potential for prolonged high temperatures Potential for humidity changes Potential exposure to oils Potential exposure to uv light and weather conditions (indoors or outdoors) Potential condensation	Varying temperatures Potential for humidity changes Exposure to food-related chemicals, oils, cleaning agents Exposure to water and condensation	Varying temperatures Potential exposure to uv light and weather conditions (indoor or outdoors) Potential for condensation	Exposure to prolonged high temperatures Potential humidity Exposure to oils and fats	Stable temperatures Stable humidity Minimal or no exposure to uv light or weather conditions (indoors)



Finishes Legend

Grey "G"
 Resistant Orange "RO"
 Resistant White "RW"

Plugs

ISO Plugs and Sockets Products

- Compliant to AS/NZS 3112, AS/NZS 3123 & AS/NZS 3100
- RCM Approved
- IP66* degree of protection
- UV stabilised
- Standard Electric Orange or Chemical Resistant Orange
- Domestic, commercial and industrial applications



Straight Form Plugs

VOLTAGE (V a.c.)	PIN ARRANGEMENT	CURRENT (A)	ELECTRIC ORANGE CAT. №	RESISTANT ORANGE CAT. №
250	2 FLAT PINS, 1 ROUND EARTH	10	ISOPS310LP	ISOPS310LPRO
		10	ISOPS310P	ISOPS310PRO
		15	ISOPS315P	ISOPS315PRO
	3 FLAT PINS	20	ISOPS320FP	ISOPS320FPRO
		20	ISOPS320P	ISOPS320PRO
		32	ISOPS332P	ISOPS332PRO
		32	ISOPS332P	ISOPS332PRO
500	4 ROUND PINS	10	ISOPS410P	ISOPS410PRO
		20	ISOPS420P	ISOPS420PRO
		32	ISOPS432P	ISOPS432PRO
		40	ISOPS440P	ISOPS440PRO
		50	ISOPS450P	ISOPS450PRO
	5 ROUND PINS	10	ISOPS510P	ISOPS510PRO
		20	ISOPS520P	ISOPS520PRO
		32	ISOPS532P	ISOPS532PRO
		40	ISOPS540P	ISOPS540PRO
		50	ISOPS550P	ISOPS550PRO
		50	ISOPS550P	ISOPS550PRO

Angle Form Plugs

VOLTAGE (V a.c.)	PIN ARRANGEMENT	CURRENT (A)	ELECTRIC ORANGE CAT. №
500	4 ROUND PINS	20	ISOPA420P
		32	ISOPA432P
		40	ISOPA440P
		50	ISOPA450P
	5 ROUND PINS	20	ISOPA520P
		32	ISOPA532P
		40	ISOPA540P
		50	ISOPA550P

Notes

*When installed with matching NHP ISO extension socket or socket outlet

- Compliant to AS/NZS 3112, AS/NZS 3123, AS/NZS 3133 & AS/NZS 3100
- RCM Approved
- IP66 degree of protection
- 2 switching poles (single phase)
- Tested AC-23 and M-ratings for motor starting
- UV stabilised
- Standard Grey, Chemical Resistant Orange or Chemical Resistant White
- Domestic, commercial and industrial applications



Switched Socket Outlets

VOLTAGE (V a.c.)	PIN ARRANGEMENT	CURRENT (A)	GREY CAT. №	RESISTANT ORANGE CAT. №	RESISTANT WHITE CAT. №
250	2 FLAT & 1 ROUND EARTH	10	ISOC310LPG	ISOC310LPRO	ISOC310LPRW
		10	ISOC310PG ²	ISOC310PRO ²	ISOC310PRW ²
	3 FLAT PINS	10	ISOC310PGDB ^{1 2}	-	-
		15	ISOC315PG ²	ISOC315PRO ²	ISOC315PRW ²
		15	ISOC315PGDB ^{1 2}	-	-
		20	ISOC320FPG	ISOC320FPRO	ISOC320FPRW
		20	ISOC320PG	ISOC320PRO	-
		32	ISOC332PG	ISOC332PRO	-
		32	ISOC332PG	ISOC332PRO	-
		32	ISOC432PG	ISOC432PRO	ISOC432PRW
		40	ISOC440PG	ISOC440PRO	-
500	4 ROUND PINS	50	ISOC450PG	ISOC450PRO	-
		10	ISOC510PG	ISOC510PRO	ISOC510PRW
		20	ISOC520PG	ISOC520PRO	ISOC520PRW
		32	ISOC532PG	ISOC532PRO	ISOC532PRW
		40	ISOC540PG	ISOC540PRO	-
	5 ROUND PINS	50	ISOC550PG	ISOC550PRO	-
		10	ISOC510PG	ISOC510PRO	ISOC510PRW
		20	ISOC520PG	ISOC520PRO	ISOC520PRW
		32	ISOC532PG	ISOC532PRO	ISOC532PRW
		40	ISOC540PG	ISOC540PRO	-

Notes

- 1 Deep base variant (63mm base)
- 2 Auto-switching mechanism as standard

Socket Outlets

ISO Plugs and Sockets Products

- Compliant to AS/NZS 3112, AS/NZS 3123 & AS/NZS 3100
- RCM Approved
- IP66 degree of protection
- UV stabilised
- Standard Grey, Chemical Resistant Orange or Chemical Resistant White
- Domestic, commercial and industrial applications



Socket outlets (including base)

VOLTAGE (V a.c.)	NO. OF SWITCHING POLES	AC23A RATING (A)	GREY CAT. No
250	2 FLAT, 1 ROUND EARTH	10	ISOS0310LPG
		10	ISOS0310PG*
	3 FLAT PINS	15	ISOS0315PG*
		20	ISOS0320FPG
		20	ISOS0320PG
	3 ROUND PINS	32	ISOS0332PG
500	4 ROUND PINS	10	ISOS0410PG
		20	ISOS0420PG
		32	ISOS0432PG
		40	ISOS0440PG
		50	ISOS0450PG
	5 ROUND PINS	10	ISOS0510PG
		20	ISOS0520PG
		32	ISOS0532PG
		40	ISOS0540PG
		50	ISOS0550PG

Notes

*Auto-switching mechanism as standard

Socket outlets (excluding base)

VOLTAGE (V a.c.)	PIN ARRANGEMENT	CURRENT RATING (A)	GREY CAT. №	RESISTANT ORANGE CAT. №	RESISTANT WHITE CAT. №
250	2 FLAT, 1 ROUND EARTH	10	ISOS0310LPGLB	ISOS0310LPROLB	ISOS0310LPRWLB
		15	ISOS0315PGLB*	ISOS0315PROLB*	ISOS0315PRWLB*
	3 FLAT PINS	10	ISOS0310PGLB*	ISOS0310PROLB*	ISOS0310PRWLB*
		15	ISOS0315PGLB*	ISOS0315PROLB*	ISOS0315PRWLB*
	3 ROUND PINS	20	ISOS0320FPGLB	ISOS0320FPROLB	ISOS0320FPRWLB
		20	ISOS0320PGLB	ISOS0320PROLB	-
500	4 ROUND PINS	32	ISOS0332PGLB	ISOS0332PROLB	-
		10	ISOS0410PGLB	ISOS0410PROLB	ISOS0410PRWLB
		20	ISOS0420PGLB	ISOS0420PROLB	ISOS0420PRWLB
		32	ISOS0432PGLB	ISOS0432PROLB	ISOS0432PRWLB
		40	ISOS0440PGLB	ISOS0440PROLB	-
		50	ISOS0450PGLB	ISOS0450PROLB	-
	5 ROUND PINS	10	ISOS0510PGLB	ISOS0510PROLB	ISOS0510PRWLB
		20	ISOS0520PGLB	ISOS0520PROLB	ISOS0520PRWLB
		32	ISOS0532PGLB	ISOS0532PROLB	ISOS0532PRWLB
		40	ISOS0540PGLB	ISOS0540PROLB	-
		50	ISOS0550PGLB	ISOS0550PROLB	-

Notes

*Auto-switching mechanism as standard

Surface Switches

ISO Plugs and Sockets Products

- Compliant to AS/NZS 3133 & AS/NZS 3100
- RCM Approved
- IP66 degree of protection
- 2 switching poles (single phase)
- Tested AC-23 and M-ratings for motor starting
- UV stabilised
- Standard Grey, Chemical Resistant Orange or Chemical Resistant White
- Domestic, commercial and industrial applications



Surface Switches (including base)

VOLTAGE (V a.c.)	NO. OF SWITCHING POLES	CURRENT (A), AC23A	M RATING (MOTOR)	GREY CAT. №	GREY CAT. № (with 63mm base)
250	1 (2 WAY)	10	M80	ISOSW1102PG	-
		10	M100	ISOSW110PG	ISOSW110PGDB
	2	15	M100	ISOSW115PG	ISOSW115PGDB
		20	M150	ISOSW120PG	
		32	M180	ISOSW132PG	
500	3	10	M100	ISOSW310PG	INCLUDED AS STANDARD
		20	M150	ISOSW320PG	
		32	M180	ISOSW332PG	
		40	M200	ISOSW340PG	
		50	M200	ISOSW350PG	
	4	20	M150	ISOSW420PG	
		32	M180	ISOSW432PG	
		40	M180	ISOSW440PG	

Surface Switches (excluding base)

VOLTAGE (V a.c.)	NO. OF SWITCHING POLES	CURRENT (A), AC23A	M RATING (MOTOR)	GREY CAT. №	RESISTANT ORANGE CAT. №	RESISTANT WHITE CAT. №
250	1 (2 WAY)	10	M80	ISOSW1102PGLB	ISOSW1102PROLB	ISOSW1102PRWLB
		10	M100	ISOSW110PGLB	ISOSW110PROLB	ISOSW110PRWLB
	2	15	M100	ISOSW115PGLB	ISOSW115PROLB	ISOSW115PRWLB
		20	M150	ISOSW120PGLB	ISOSW120PROLB	-
		32	M180	ISOSW132PGLB	ISOSW132PROLB	-
500	3	10	M100	ISOSW310PGLB	ISOSW310PROLB	ISOSW310PRWLB
		16	M100	ISOSW316PGLB	ISOSW316PROLB	ISOSW316PRWLB
		20	M150	ISOSW320PGLB	ISOSW320PROLB	ISOSW320PRWLB
		32	M180	ISOSW332PGLB	ISOSW332PROLB	ISOSW332PRWLB
		40	M200	ISOSW340PGLB	ISOSW340PROLB	-
	4	50	M200	ISOSW350PGLB	ISOSW350PROLB	-
		20	M150	ISOSW420PGLB	ISOSW420PROLB	ISOSW420PRWLB
		32	M180	ISOSW432PGLB	ISOSW432PROLB	ISOSW432PRWLB
		40	M180	ISOSW440PGLB	ISOSW440PROLB	ISOSW440PRWLB

- Compliant to AS/NZS 3133 & AS/NZS 3100
- RCM Approved
- IP66 degree of protection
- 2 switching poles (single phase)
- Tested AC-23 and M-ratings for motor starting
- UV stabilised
- Standard Grey or Chemical Resistant Orange
- Domestic, commercial and industrial applications



Product Selection

- Locking positions: K1 (OFF only) or K2 (ON/OFF)
- Key codes are random between codes 001 - 200. Keyed Alike (common key) versions available on the next page

Keyed Surface Switches – Grey (including base)

VOLTAGE (V a.c.)	NO. OF SWITCHING POLES	CURRENT (A), AC23A	M RATING (MOTOR)	LOCKING POSITION (OFF ONLY) CAT. №	LOCKING POSITION (ON/OFF) CAT. №
250	2	20	M150	ISOK1SW120PG	ISOK2SW120PG
		32	M180	ISOK1SW132PG	ISOK2SW132PG
500	3	20	M150	ISOK1SW320PG	ISOK2SW320PG
		32	M180	ISOK1SW332PG	ISOK2SW332PG
		50	M200	ISOK1SW350PG	ISOK2SW350PG

Keyed Surface Switches – Grey (excluding base)

VOLTAGE (V a.c.)	NO. OF SWITCHING POLES	CURRENT (A), AC23A	M RATING (MOTOR)	LOCKING POSITION (OFF ONLY) CAT. №	LOCKING POSITION (ON/OFF) CAT. №
250	2	20	M150	ISOK1SW120PGLB	ISOK2SW120PGLB
		32	M180	ISOK1SW132PGLB	ISOK2SW132PGLB
500	3	20	M150	ISOK1SW320PGLB	ISOK2SW320PGLB
		32	M180	ISOK1SW332PGLB	ISOK2SW332PGLB
		50	M200	ISOK1SW350PGLB	ISOK2SW350PGLB

Keyed Surface Switches – Resistant Orange (excluding base)

VOLTAGE (V a.c.)	NO. OF SWITCHING POLES	CURRENT (A), AC23A	M RATING (MOTOR)	LOCKING POSITION (OFF ONLY) CAT. №	LOCKING POSITION (ON/OFF) CAT. №
250	2	20	M150	ISOK1SW120PROLB	ISOK2SW120PROLB
		32	M180	ISOK1SW132PROLB	ISOK2SW132PROLB
500	3	20	M150	ISOK1SW320PROLB	ISOK2SW320PROLB
		32	M180	ISOK1SW332PROLB	ISOK2SW332PROLB
		50	M200	ISOK1SW350PROLB	ISOK2SW350PROLB

Product Selection

- Locking positions: KC1 (OFF only) or KC2 (ON/OFF)
- Order form must be filled and submitted with purchase order.

Keyed Alike Surface Switches – Grey (including base)

VOLTAGE (V a.c.)	NO. OF SWITCHING POLES	CURRENT (A), AC23A	M RATING (MOTOR)	LOCKING POSITION (OFF ONLY) CAT. №	LOCKING POSITION (ON/OFF) CAT. №
250	2	20	M150	ISOKC1SW120PG	ISOKC2SW120PG
		32	M180	ISOKC1SW132PG	ISOKC2SW132PG
500	3	20	M150	ISOKC1SW320PG	ISOKC2SW320PG
		32	M180	ISOKC1SW332PG	ISOKC2SW332PG
		50	M200	ISOKC1SW350PG	ISOKC2SW350PG

Keyed Alike Surface Switches – Grey (excluding base)

VOLTAGE (V a.c.)	NO. OF SWITCHING POLES	CURRENT (A), AC23A	M RATING (MOTOR)	LOCKING POSITION (OFF ONLY) CAT. №	LOCKING POSITION (ON/OFF) CAT. №
250	2	20	M150	ISOKC1SW120PGLB	ISOKC2SW120PGLB
		32	M180	ISOKC1SW132PGLB	ISOKC2SW132PGLB
500	3	20	M150	ISOKC1SW320PGLB	ISOKC2SW320PGLB
		32	M180	ISOKC1SW332PGLB	ISOKC2SW332PGLB
		50	M200	ISOKC1SW350PGLB	ISOKC2SW350PGLB

Keyed Alike Surface Switches – Resistant Orange (excluding base)

VOLTAGE (V a.c.)	NO. OF SWITCHING POLES	CURRENT (A), AC23A	M RATING (MOTOR)	LOCKING POSITION (OFF ONLY) CAT. №	LOCKING POSITION (ON/OFF) CAT. №
250	2	20	M150	ISOKC1SW120PROLB	ISOKC2SW120PROLB
		32	M180	ISOKC1SW132PROLB	ISOKC2SW132PROLB
500	3	20	M150	ISOKC1SW320PROLB	ISOKC2SW320PROLB
		32	M180	ISOKC1SW332PROLB	ISOKC2SW332PROLB
		50	M200	ISOKC1SW350PROLB	ISOKC2SW350PROLB

Notes

- Keyed Alike surface switches are made to order



Scan here for
order form

Extension Sockets

Single and Three-phase Extension Socket Outlets

ISO Plugs and Sockets
Products

- Compliant to AS/NZS 3112, AS/NZS 3123 & AS/NZS 3100
- RCM Approved
- IP66 degree of protection
- Suits Locking devices: 4.5 - 6.0mm Ø only
- Integrated padlocking with matching NHP ISO Appliance Inlets
- UV stabilised
- Standard Electric Orange or Chemical Resistant Orange
- Domestic, commercial and industrial applications



Extension sockets

VOLTAGE (V a.c.)	PIN ARRANGEMENT	CURRENT (A)	ELECTRIC ORANGE CAT. No	RESISTANT ORANGE CAT. No
250	3 FLAT PINS	10	ISOEX310P	ISOEX310PRO
		15	ISOEX315P	ISOEX315PRO
	3 ROUND PINS	20	ISOEX320P	ISOEX320PRO
		32	ISOEX332P	ISOEX332PRO
500	4 ROUND PINS	10	ISOEX410P	ISOEX410PRO
		20	ISOEX420P	ISOEX420PRO
		32	ISOEX432P	ISOEX432PRO
		40	ISOEX440P	ISOEX440PRO
		50	ISOEX450P	ISOEX450PRO
	5 ROUND PINS	10	ISOEX510P	ISOEX510PRO
		20	ISOEX520P	ISOEX520PRO
		32	ISOEX532P	ISOEX532PRO
		40	ISOEX540P	ISOEX540PRO
		50	ISOEX550P	ISOEX550PRO

Appliance Inlets

Single and Three-phase Appliance Inlets

10

317

- Compliant to AS/NZS 3112 & AS/NZS 3123
- RCM Approved
- IP66 degree of protection
- Suits Locking devices: 4.5mm to 6.5mm Ø only
- Integrated padlocking with matching NHP ISO Extension Sockets
- UV stabilised
- Standard Grey or Chemical Resistant Orange
- Domestic, commercial and industrial applications



Appliance inlets (including base)

VOLTAGE (V a.c.)	PIN ARRANGEMENT	CURRENT (A)	GREY CAT. №
250	3 FLAT PINS	10	ISOAI310PG
		15	ISOAI315PG
	3 ROUND PINS	20	ISOAI320PG
		32	ISOAI332PG
500	4 ROUND PINS	10	ISOAI410PG
		20	ISOAI420PG
		32	ISOAI432PG
		40	ISOAI440PG
		50	ISOAI450PG
	5 ROUND PINS	10	ISOAI510PG
		20	ISOAI520PG
		32	ISOAI532PG
		40	ISOAI540PG
		50	ISOAI550PG

Appliance inlets (excluding base)

VOLTAGE (V a.c.)	PIN ARRANGEMENT	CURRENT (A)	GREY CAT. №	RESISTANT ORANGE CAT. №
250	3 FLAT PINS	10	ISOAI310PGLB	ISOAI310PROLB
		15	ISOAI315PGLB	ISOAI315PROLB
	3 ROUND PINS	20	ISOAI320PGLB	ISOAI320PROLB
		32	ISOAI332PGLB	ISOAI332PROLB
500	4 ROUND PINS	10	ISOAI410PGLB	ISOAI410PROLB
		20	ISOAI420PGLB	ISOAI420PROLB
		32	ISOAI432PGLB	ISOAI432PROLB
		40	ISOAI440PGLB	ISOAI440PROLB
		50	ISOAI450PGLB	ISOAI450PROLB
	5 ROUND PINS	10	ISOAI510PGLB	ISOAI510PROLB
		20	ISOAI520PGLB	ISOAI520PROLB
		32	ISOAI532PGLB	ISOAI532PROLB
		40	ISOAI540PGLB	ISOAI540PROLB
		50	ISOAI550PGLB	ISOAI550PROLB

RCD Protected Outlets

Switched MOD6+ RCD Protected Outlets

ISO Plugs and Sockets
Products

- Compliant to AS/NZS 3112, AS/NZS 3123, AS/NZS 3133, AS/NZS 3100 & AS/NZS 61008
- RCM Approved
- IP66 degree of protection
- Type A 30mA RCCB
- Fully assembled and wired ready for installation
- 2 x 2 square arrangement
- UV stabilised
- Standard Grey, Chemical Resistant Orange or Chemical Resistant White
- Domestic, commercial and industrial applications



Switched MOD6+ RCD protected outlets

VOLTAGE (V a.c.)	PIN ARRANGEMENT	CURRENT RATING (A)	GREY CAT. №	RESISTANT ORANGE CAT. №	RESISTANT WHITE CAT. №
240	2 FLAT, 1 ROUND EARTH	10	ISOC310LRCDPG	ISOC310LRCDPRO	ISOC310LRCDPRW
		15	ISOC315LRCDPG*	ISOC315LRCDPRO*	ISOC315LRCDPRW*
		15	ISOC315RCDPG*	ISOC315RCDPRO*	ISOC315RCDPRW*
	3 ROUND PINS	20	ISOC320RCDPG	ISOC320RCDPRO	-
		32	ISOC332RCDPG	ISOC332RCDPRO	-
		32	ISOC332RCDPG	ISOC332RCDPRO	-
415	4 ROUND PINS	10	ISOC410RCDPG	ISOC410RCDPRO	ISOC410RCDPRW
		20	ISOC420RCDPG	ISOC420RCDPRO	ISOC420RCDPRW
		32	ISOC432RCDPG	ISOC432RCDPRO	ISOC432RCDPRW
		40	ISOC440RCDPG	ISOC440RCDPRO	-
		50	ISOC450RCDPG	ISOC450RCDPRO	-
	5 ROUND PINS	10	ISOC510RCDPG	ISOC510RCDPRO	ISOC510RCDPRW
		20	ISOC520RCDPG	ISOC520RCDPRO	ISOC520RCDPRW
		32	ISOC532RCDPG	ISOC532RCDPRO	ISOC532RCDPRW
		40	ISOC540RCDPG	ISOC540RCDPRO	-
		50	ISOC550RCDPG	ISOC550RCDPRO	-
		50	ISOC550RCDPG	ISOC550RCDPRO	-
		50	ISOS0550PGLB	ISOS0550PROLB	-
		50	ISOS0550PGLB	ISOS0550PROLB	-
		50	ISOS0550PGLB	ISOS0550PROLB	-
		50	ISOS0550PGLB	ISOS0550PROLB	-

Notes

*Auto-switching mechanism as standard

RCD Protected Outlets

In-line Switched MOD6+ RCD Protected Outlets

10

319

- Compliant to AS/NZS 3112, AS/NZS 3123, AS/NZS 3133, AS/NZS 3100 & AS/NZS 61008
- RCM Approved
- IP66 degree of protection
- Type A 30mA RCCB
- Fully assembled and wired ready for installation
- 4 x 1 vertical arrangement for narrow installation locations
- UV stabilised
- Standard Grey, Chemical Resistant Orange or Chemical Resistant White
- Domestic, commercial and industrial applications



Switched MOD6+ RCD protected outlets – In line

VOLTAGE (V a.c.)	PIN ARRANGEMENT	CURRENT RATING (A)	GREY CAT. №	RESISTANT ORANGE CAT. №	RESISTANT WHITE CAT. №
240	2 FLAT, 1 ROUND EARTH	10	ISOC310LRCDPVHG	ISOC310LRCDPVHRO	ISOC310LRCDPVHRW
		15	ISOC315LRCDPVHG*	ISOC315LRCDPVHRO*	ISOC315LRCDPVHRW*
	3 FLAT PINS	10	ISOC310RCDPVHG*	ISOC310RCDPVHRO*	ISOC310RCDPVHRW*
		15	ISOC315RCDPVHG*	ISOC315RCDPVHRO*	ISOC315RCDPVHRW*
		20	ISOC320RCDPVHG	ISOC320RCDPVHRO	-
	3 ROUND PINS	32	ISOC332RCDPVHG	ISOC332RCDPVHRO	-
415	4 ROUND PINS	10	ISOC410RCDPVHG	ISOC410RCDPVHRO	ISOC410RCDPVHRW
		20	ISOC420RCDPVHG	ISOC420RCDPVHRO	ISOC420RCDPVHRW
		32	ISOC432RCDPVHG	ISOC432RCDPVHRO	ISOC432RCDPVHRW
		40	ISOC440RCDPVHG	ISOC440RCDPVHRO	-
		50	ISOC450RCDPVHG	ISOC450RCDPVHRO	-
		50	ISOC450RCDPVHG	ISOC450RCDPVHRO	-
	5 ROUND PINS	10	ISOC510RCDPVHG	ISOC510RCDPVHRO	ISOC510RCDPVHRW
		20	ISOC520RCDPVHG	ISOC520RCDPVHRO	ISOC520RCDPVHRW
		32	ISOC532RCDPVHG	ISOC532RCDPVHRO	ISOC532RCDPVHRW
		40	ISOC540RCDPVHG	ISOC540RCDPVHRO	-
		50	ISOC550RCDPVHG	ISOC550RCDPVHRO	-
		50	ISOC550RCDPVHG	ISOC550RCDPVHRO	-

Notes

*Auto-switching mechanism as standard

RCD Protected Outlets

MOD6+ RCD Protected outlets

ISO Plugs and Sockets
Products

- Compliant to AS/NZS 3112, AS/NZS 3123, AS/NZS 3100 & AS/NZS 61008
- RCM Approved
- IP66 degree of protection
- Type A 30mA RCCB
- Fully assembled and wired ready for installation
- Surface Switch not included
- UV stabilised
- Standard Grey, Chemical Resistant Orange or Chemical Resistant White
- Domestic, commercial and industrial applications



MOD6+ RCD protected outlets

VOLTAGE (V a.c.)	PIN ARRANGEMENT	CURRENT RATING (A)	GREY CAT. №	RESISTANT ORANGE CAT. №	RESISTANT WHITE CAT. №
240	2 FLAT, 1 ROUND EARTH	10	ISOS0310LRCDPG	ISOS0310LRCDPRO	ISOS0310LRCDPRW
		15	ISOS0315LRCDPG*	ISOS0315LRCDPRO*	ISOS0315LRCDPRW*
	3 FLAT PINS	10	ISOS0310RCDPG*	ISOS0310RCDPRO*	ISOS0310RCDPRW*
		15	ISOS0315RCDPG*	ISOS0315RCDPRO*	ISOS0315RCDPRW*
		20	ISOS0320RCDPG	ISOS0320RCDPRO	-
	3 ROUND PINS	32	ISOS0332RCDPG	ISOS0332RCDPRO	-
415	4 ROUND PINS	10	ISOS0410RCDPG	ISOS0410RCDPRO	ISOS0410RCDPRW
		20	ISOS0420RCDPG	ISOS0420RCDPRO	ISOS0420RCDPRW
		32	ISOS0432RCDPG	ISOS0432RCDPRO	ISOS0432RCDPRW
		40	ISOS0440RCDPG	ISOS0440RCDPRO	-
		50	ISOS0450RCDPG	ISOS0450RCDPRO	-
	5 ROUND PINS	10	ISOS0510RCDPG	ISOS0510RCDPRO	ISOS0510RCDPRW
		20	ISOS0520RCDPG	ISOS0520RCDPRO	ISOS0520RCDPRW
		32	ISOS0532RCDPG	ISOS0532RCDPRO	ISOS0532RCDPRW
		40	ISOS0540RCDPG	ISOS0540RCDPRO	-
		50	ISOS0550RCDPG	ISOS0550RCDPRO	-
		50	ISOS0550PGLB	ISOS0550PROLB	-

Notes

*Auto-switching mechanism as standard

Bases

NO. OF GANGS	TYPE	DIMENSIONS (mm)	GREY CAT. №	RESISTANT ORANGE CAT. №	RESISTANT WHITE CAT. №
1	SHALLOW	101 × 101 × 38	ISOBB51G	-	-
	STANDARD	101 × 101 × 63	ISOBB1G	ISOBB1RO	ISOBB1RW
2	SHALLOW	198 × 101 × 38	ISOBB52G	-	-
	STANDARD	198 × 101 × 63	ISOBB2G	ISOBB2RO	ISOBB2RW
	PENDENT	196 × 101 × 60	ISOBB2PENG	ISOBB2PENRO	ISOBB2PENRW
	EXTRA DEEP	198 × 101 × 100	ISOBB2EDG	ISOBB2EDRO	-
3	STANDARD	294 × 101 × 63	ISOBB3G	ISOBB3RO	ISOBB3RW
4	STANDARD	198 × 198 × 63	ISOBB4G	ISOBB4RO	ISOBB4RW
	IN LINE	391 × 101 × 63	ISOBB4VHG	ISOBB4VHRO	ISOBB4VHRW
6	STANDARD	294 × 198 × 63	ISOBB6G	ISOBB6RO	-
9	STANDARD	294 × 294 × 63	ISOBB9G	ISOBB9RO	-

RCD covers

NO. OF GANGS	DIMENSIONS (mm)	GREY CAT. №	RESISTANT ORANGE CAT. №	RESISTANT WHITE CAT. №
2	198 × 101 × 45	ISORCDNPG	ISORCDNPRO	ISORCDNPRW

RCD covers will accept most 4 pole width, DIN-mounted devices and are supplied with mounting rail (35mm DIN rail and mounting kit).

Lids (blank)

NO. OF GANGS	DIMENSIONS (mm)	GREY CAT. №	RESISTANT ORANGE CAT. №	RESISTANT WHITE CAT. №
1	101 × 101 × 28	ISOBBL1G	ISOBBL1RO	ISOBBL1RW
2	198 × 101 × 28	ISOBBL2G	ISOBBL2RO	-

Lids (22.5 mm cut-outs)

NO. OF GANGS	CUT-OUTS	DIMENSIONS (mm)	GREY CAT. №	RESISTANT ORANGE CAT. №	RESISTANT WHITE CAT. №
1	1	94 X 94 X 28 mm	ISOL1H1G	ISOL1H1RO	ISOL1H1RW
1	2	94 X 94 X 28 mm	ISOL1H2G	ISOL1H2RO	ISOL1H2RW
2	2	190 X 94 X 28 mm	ISOL2H2G	ISOL2H2RO	-
2	3	190 X 94 X 28 mm	ISOL2H3G	ISOL2H3RO	-

Continued on the next page →

[← Continued from previous page](#)

Pendant brackets

SUITS	CAT. №
PENDANT BRACKET SS SUITS EX-SOCKET/PLUGS 10-20A FLAT PIN	ISOBKS1
PENDANT BRACKET SS SUITS BACK BOXES WITH 32mm ENTRIES	ISOBKS
PENDANT BRACKET SS SUITS EX-SOCKET/PLUGS 10-20A ROUND PIN	ISOBKM
PENDANT BRACKET SS SUITS EX-SOCKET/PLUGS 32-50A ROUND PIN	ISOBKL
SS PENDANT BRACKET SUITS 2 X 1 GANG WIDE BACK BOXES	ISOBKBB

Spares

SUITS	CAT. №
ADAPTOR MODULE M25 SUITS ISOPS/PA/EX 10-20A ROUND PIN EO	ISOAM25P
COVER SCREW STAINLESS (QTY 100)	ISOCSS
COVER SCREW CAPS GREY (QTY 200)	ISOCAPG
COVER SCREW CAPS RO (QTY 200)	ISOCAPRO
COVER SCREW CAPS RW (QTY 200)	ISOCAPRW

Brass earthing plates (to suit SWA glands)

SUIT GANGS	DEPTH	SUITS GLAND TYPE	MATERIAL	CAT. №
1, 2 & 3	STANDARD	2 × M25 × 1.5 mm	BRASS	ISOSWAGLAND
1 & 2	SHALLOW	2 × M20 × 1.5 mm	BRASS	ISOSWAGLANDSH

TemRack iR

An integrated remote racking device for
Terasaki Tempower 2 air circuit breakers



Minimise your risks,
maximise your safety.



Scan to
learn more

Technical References

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Ingress Protection

Protection grading against contact and foreign bodies

Technical References

First number

Protection against solid objects

IP TESTS

0.  No protection.
1.  Protected against solid objects up to 50mm. (e.g. accidental touch by hands)
2.  Protected against solid objects up to 12.5mm. (e.g. fingers)
3.  Protected against solid objects over 2.5mm. (e.g. tools + small wires)
4.  Protected against solid objects over 1mm. (e.g. tools + small wires)
5.  Protected against dust - limited ingress permitted (no harmful deposit)
6.  Totally protected against dust

Second number

Protection against water

IP TESTS

0.  No protection.
1.  Protection against vertical falling drops of water
2.  Protected against direct sprays of water up to 15° from the vertical
3.  Protected against spray of water up to 60° from the vertical
4.  Protected against water sprayed from any direction - limited ingress permissible
5.  Protected against low pressure jets of water from any direction - limited ingress permissible
6.  Protected against strong jets of water e.g. for use on ship decks - limited ingress permissible
7.  Protected against the effects of temporary immersion between 15cm and 1m
8.  Protected against long periods of immersion under pressure

Special conditions (additional letters)

- NW  No Water. No water is permitted to enter the enclosure

Product Selection Guide

Emergency and exit lighting



Scan to use
our product
selector

The table below gives an overview of the various abbreviations used for low voltage switchgear and control gear, together with the devices to which each utilisation category applies, and the IEC standard that governs them. The table may be used to select the most suitable size of component for the respective device type, depending on the rated voltage, the rated current, and the electrical load that requires switching.

UTILIZATION CATEGORY	TYPICAL APPLICATION	APPLICABLE IEC NORM
AC-1	NON-INDUCTIVE OR SLIGHTLY INDUCTIVE LOADS, EXAMPLE: RESISTIVE FURNACES, HEATERS	60947-4-1
AC-3	SQUIRREL-CAGE MOTORS: STARTING, SWITCHES OFF MOTORS DURING RUNNING TIME	60947-4-1
AC-4	SQUIRREL-CAGE MOTORS: STARTING, PLUGGING, INCHING	60947-4-1
AC-7a	SLIGHTLY INDUCTIVE LOADS IN HOUSEHOLD APPLIANCES: EXAMPLES: MIXERS, BLENDERS	60947-4-1 61095
AC-7b	MOTOR-LOADS FOR HOUSEHOLD APPLIANCES: EXAMPLES: FANS, CENTRAL VACUUM	60947-4-1 61095
AC-12	CONTROL OF RESISTIVE LOADS AND SOLID STATE LOADS WITH OPTO-COUPLER ISOLATION	60947-5-2
AC-13	CONTROL OF SOLID STATE LOADS WITH TRANSFORMER ISOLATION	60947-5-1
AC-14	CONTROL OF SMALL ELECTROMAGNETIC LOADS	60947-5-1
AC-15	CONTROL OF A.C. ELECTROMAGNETIC LOADS	60947-5-1
AC-20	CONNECTING AND DISCONNECTING UNDER NO-LOAD CONDITIONS	60947-3
AC-21	SWITCHING OF RESISTIVE LOADS, INCLUDING MODERATE OVERLOADS	60947-3
AC-22	SWITCHING OF MIXED RESISTIVE AND INDUCTIVE LOADS, INCLUDING MODERATE OVERLOADS	60947-3
AC-23	SWITCHING OF MOTOR LOADS OR OTHER HIGHLY INDUCTIVE LOADS	60947-3
AC-31a	NON-INDUCTIVE OR WEAKLY INDUCTIVE LOADS	60947-6-1
AC-31b		
AC-33a	MOTOR LOADS OR MIXED LOADS INCLUDING MOTORS, RESISTORS AND UP TO 30% INCANDESCENT LAMP LOAD	60947-6-1
AC-33b		
AC-40	DISTRIBUTION CIRCUITS OF MIXED RESISTIVE AND INDUCTIVE LOADS	60947-6-2
AC-41	NON-INDUCTIVE OR WEAKLY INDUCTIVE LOADS, RESISTANCE FURNACES	60947-6-2

UTILIZATION CATEGORY	TYPICAL APPLICATION	APPLICABLE IEC NORM
AC-43	SQUIRREL CAGE MOTORS: STARTING, SWITCHING OFF DURING OPERATION	60947-6-2
AC-44	SQUIRREL CAGE MOTORS: STARTING, COUNTER-CURRENT BRAKING OR REVERSING, TYPING	60947-6-2
AC-53a	CONTROL OF A SQUIRREL CAGE MOTOR: 8-HOUR OPERATION WITH STARTING CURRENTS FOR STARTING PROCESSES, MANOEUVRING, OPERATION	60947-4-2
AC-53b	CONTROL OF A SQUIRREL CAGE MOTOR: INTERMITTENT OPERATION	60947-4-2
A	PROTECTION OF CIRCUITS, WITH NO RATED SHORT-TIME WITHSTAND CURRENT	60947-2
B	PROTECTION OF CIRCUITS, WITH A RATED SHORT-TIME WITHSTAND CURRENT	60947-2
DC-1	NON INDUCTIVE OR SLIGHTLY INDUCTIVE LOADS, RESISTANCE FURNACES, HEATERS	60947-4-1
DC-3	SHUNT-MOTORS, STARTING, PLUGGING(1), INCHING(2), DYNAMIC BRAKING OF MOTORS	60947-4-1
DC-5	SERIES-MOTORS, STARTING, PLUGGING(1), INCHING(2), DYNAMIC BRAKING OF MOTORS	60947-4-1
DC-12	CONTROL OF RESISTIVE LOADS AND SOLID STATE LOADS WITH OPTO-COUPLER ISOLATION	60947-5-1 60947-5-2
DC-13	CONTROL OF D.C. ELECTROMAGNETICS	60947-5-1 60947-5-2
DC-14	CONTROL OF D.C. ELECTROMAGNETIC LOADS HAVING ECONOMY RESISTORS IN THE CIRCUIT	60947-5-1
DC-20	CONNECTING AND DISCONNECTING UNDER NO-LOAD CONDITIONS	60947-3
DC-21	SWITCHING OF RESISTIVE LOADS, INCLUDING MODERATE OVERLOADS	60947-3
DC-22	SWITCHING OF MIXED RESISTIVE AND INDUCTIVE LOADS, INCLUDING MODERATE OVERLOADS (I.E. SHUNT MOTORS)	60947-3
DC-23	SWITCHING OF HIGHLY INDUCTIVE LOADS (I.E. SERIES MOTORS)	60947-3
DC-PV0	PV CIRCUIT: CONNECTING AND DISCONNECTING WITH NO CURRENT FLOWING	60947-3
DC-PV1	SINGLE PV STRING(S): CONNECTING AND DISCONNECTING WITH ABSENCE OF REVERSE CURRENTS AND SIGNIFICANT OVERCURRENTS	60947-3
DC-PV2	PV CIRCUITS: CONNECTING AND DISCONNECTING WHEN SIGNIFICANT OVERCURRENT AND BI-DIRECTIONAL CURRENT FLOW MAY BE PRESENT	60947-3

IMPORTANT

This chart is to be used as a reference guide only. NHP recommend independent testing to verify the selection of any ISO material for use within a specific chemical environment.

REAGENT	ALL BACK BOXES (PVC)	GREY COVERS AND TRANSPARENT PLUGS (PC)	RO AND RW COVERS AND PLUGS (PC/PET)
ACETIC ACID	C	B	A
ACETONE	D	D	C
ACTALDEHYDE	D	D	-
ALUMINIUM HYDROXIDE	C	-	-
AMMONIA	-	-	D
AMMONIUM CHLORIDE	C	A	-
AMMONIUM HYDROXIDE	A	C	-
AMMONIUM NITRATE	-	-	A
AMYL CHLORIDE	-	D	-
ANILINE	D	C	-
BANZALDEHYDE	C	D	-
BENZENE	D	D	C
BENZINE	-	-	A
BORIC ACID	A	A	-
BROMINE	D	B	-
BROMOFORM	-	C	-
BUTADIENE	A	D	-
BUTYL ACETATE	-	D	D
BUTYL ALCOHOL	A	A	-
BUTYRIC ACID	A	D	-
CALCIUM HYDROXIDE	-	D	-
CALCIUM HYPOCHLORIDE	A	A	-
CARBON DISULPHIDE	D	D	-
CARBON TETRACHLORIDE	D	D	C
CELLOSOLVE	-	C	-

LEGEND

A EXCELLENT

B GOOD

C FAIR

D NOT RESISTANT

- NOT TESTED

RO RESISTANT ORANGE

RW RESISTANT WHITE

REAGENT	ALL BACK BOXES (PVC)	GREY COVERS AND TRANSPARENT PLUGS (PC)	RO AND RW COVERS AND PLUGS (PC/PET)
CHLORINE (IN AIR)	C	A	-
CHLORINE (MOIST)	D	A	-
CHLOROFORM	-	D	D
CITRIC ACID	A	C	A
CRESOL	C	D	-
CYCLOHEXANE	-	C	-
DIBUTYL PHTHALATE	-	-	D
DICHLOROBENZENE	-	D	-
DIETHYL ETHER	-	-	D
DIETHYLENE GLYCOL	-	A	-
DIMETHYL FORMAMIDE	-	-	D
DIOCTYL PHTHALATE	-	-	D
DIOXANE	-	B	D
ETHANOL	-	-	A
ETHYL ACETATE	D	C	C
ETHYL ALCOHOL	A	A	-
ETHYLAMINE	-	-	D
ETHYL CHLORIDE	-	D	C
ETHYLENE CHLORIDE	D	D	C
ETHYLENE GLYCOL	-	-	A
ETHYLENE OXIDE	-	D	-
ETHYL ETHER	-	D	-
FORMIC ACID	-	D	-
GASOLINE	A	B	-
GLYCERINE	-	-	B

REAGENT	ALL BACK BOXES (PVC)	GREY COVERS AND TRANSPARENT PLUGS (PC)	RO AND RW COVERS AND PLUGS (PC/PET)
HEXANE	D	A	A
HYDROCHLORIC ACID	A	B	A
HYDROFLUORIC ACID	A	A	-
HYDROGEN PEROXIDE	A	A	A
IRON CHLORIDE	-	-	A
ISOOCTANE	-	-	A
ISOPROPANOL	-	-	A
KEROSENE	C	A	-
LACTIC ACID	A	A	-
METHANOL	-	-	D
METHYL ALCOHOL	A	A	
METHYL ETHYL KETONE	-	D	C
METHYL ISOBUTYL KETONE	-	D	-
METHYLAMINE	-	-	B
METHYLENE CHLORIDE	D	D	D
NITRIC ACID (1-10%)	A	A	A
NITRIC ACID (40%)	A	B	-
NITRIC ACID (65%)	C	C	-
NITROBENZENE	D	D	-
PROPANOL	-	-	D
OZONE	-	-	D
PARAFFIN, PARAFFIN OIL	-	-	A
PERCHLORIC ACID	A	C	-
PETROLEUM ETHER	A	A	-
PHENOL	-	D	-

LEGEND

A EXCELLENT

B GOOD

C FAIR

D NOT RESISTANT

- NOT TESTED

RO RESISTANT ORANGE

RW RESISTANT WHITE

REAGENT	ALL BACK BOXES (PVC)	GREY COVERS AND TRANSPARENT PLUGS (PC)	RO AND RW COVERS AND PLUGS (PC/PET)
PHOSPHORIC ACID	A	A	A
POTASSIUM BICHROMATE	A	A	-
POTASSIUM HYDROXIDE	A	D	D
POTASSIUM PERMANGANATE	A	A	-
PROPANE	A	A	A
PROPYLENE GLYCOL	A	A	-
SILICONE OIL	-	-	A
SILVER NITRATE	A	A	-
SODIUM CARBONATE	-	-	A
SODIUM CHLORIDE	-	-	A
SODIUM HYPOCHLORITE (5%)	A	A	A
SODIUM HYDROXIDE (10%)	A	D	C
SODIUM HYDROXIDE (5%)	A	D	B
SODIUM NITRATE	-	-	A
STYRENE	-	-	D
SULPHURIC ACID	-	A	A
TETRACHLOROETHANE	-	-	C
TETRACHLOROETHYLENE	-	-	D
TETRAHYDROFURAN	D	D	-
TRICHLOROETHYLENE	-	-	C
TRICRESYL PHOSPHATE	-	-	D
TRIETHYLENE GLYCOL	-	-	A
TOLUENE	D	D	-
TRICHLOROACETIC ACID	C	A	-
TRICHLOROETHYLENE	D	D	-
TURPENTINE	C	C	-
UREA	A	C	-
XYLENE	-	D	C

AC Motor Currents Table

Technical References

Rated outputs and standard values for rated operational currents of standard AC squirrel-cage motors.

3 phase 4 pole 50/60 Hz motors

KW ¹	HP	230 240V A	400V A	415V A	440V A	690V A	1000V A	1100V A
0.18	0.3	1.0	0.6	0.58	0.55	0.35	0.3	0.3
0.37	0.5	1.9	1.1	1.05	1.0	0.64	0.4	0.4
0.55	0.75	2.7	1.5	1.4	1.3	0.87	0.6	0.6
0.75	1	3.2	1.9	1.8	1.7	1.1	0.8	0.8
1.1	1.5	4.6	2.7	2.6	2.4	1.6	1.1	1
1.5	2	6.3	3.6	3.5	3.2	2.1	1.5	1.4
2.2	3	8.5	4.9	4.7	4.4	2.8	2	1.9
3	4	11.3	6.5	6.3	5.9	3.8	2.7	2.5
4	5.5	15	8.5	8.2	7.8	4.9	3.4	3.1
5.5	7.5	20	11.5	11.1	10.4	6.7	6	4.3
7.5	10	27	15.5	14.9	14	8.9	7	5.6
11	15	38	22	21	20	13	9	8
15	20	51	29	28	26	17	12.1	10.5
18.5	25	61	35	34	32	21	15	13
22	30	72	41	40	37	24	18	15.5
30	40	96	55	53	50	32	23	21
37	50	115	66	64	60	39	28	25
45	60	140	80	77	73	47	33	30
55	75	169	97	93	88	57	40	36
75	100	230	132	127	120	77	55	50
90	125	278	160	154	145	93	65	59
110	150	340	195	188	178	113	80	73
132	180	400	230	222	210	134	95	86
160	220	487	280	270	255	162	115	105
185	250	570	327	315	300	187	135	123
200	270	609	350	337	320	203	145	132
220	300	675	385	371	350	222	155	145
250	340	748	430	414	390	250	180	164
280	375	830	480	463	436	280	200	182
300	400	920	520	500	473	300	210	191
315	420	940	540	520	490	313	220	200
355	475	1061	610	588	555	354	250	227
400	540	1200	690	665	625	400	285	259
450	600	–	770	742	700	446	320	291
500	680	–	850	819	770	493	350	318
560	750	–	950	916	860	551	390	355
630	850	–	1060	1022	960	615	440	400
710	950	–	1190	1147	1080	690	500	455
800	1070	–	1346	1297	1220	780	560	509
900	1200	–	1518	1463	1370	880	630	573
1000	1340	–	1673	1613	1510	970	700	636

Notes Regarding table left

- Standard values for standard squirrel-cage motors: Rated operational currents for motors with $n = 1500/\text{min}$ (4 pole), possible deviation $\pm 10\%$ depending on type and manufacturer, $\pm 50\%$ for small motors. Deviation of rated operational currents for motors with other speeds (greater deviations for smaller motors): With $n = 3000\text{ rpm}$ (2 pole): $-2\% \dots -10\%$
With $n = 1000\text{ rpm}$ (6 pole): $+2\% \dots +10\%$ With $n = 750\text{ rpm}$ (8 pole): $+5\% \dots +20\%$
- The power factor is usually around 0.8, but this varies with the size and speed of the motor. Efficiency ranges from 85% in small motors to 90 % and over for large motors

Single Phase Motors

KW	0.18	.037	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5
HP	0.25	0.5	0.75	1	1.5	2	3	4	5	7.5	10
230-240V A	2.5	4	5	6.3	9	12	18	23	28	39	50

Notes Regarding table above

- DIN-T MCBs are calibrated to IEC 60898 Curve 'C' & 'D'
- 80, 100 and 125 amp refers to DIN-T DTMH type.
- MCCB Adjustable magnetic trips set to high. Thermal magnetic trip set to 100 % (I_n).
- MCCB Electronic BE Trip Unit settings - $I_r = I_n$, $t_r = 12$, $I_{sd} = 6$, $t_{sd} = I^2t$ OFF, $I_i = 10$
- Circuit breaker provides short circuit protection, Over current protection is provided by the motor starter overload relay
- With lesser starting time, lower circuit breaker ratings may be possible, Refer to Type 2 co-ordination tables

Motor Circuit Application Table

For Direct-on-Line Starting

Technical References

These motor circuit application tables are to be used as a selection guide for typical 3 phase, 4 pole 400/415 V motors for standard applications only. The DOL table is based on holding 125 % FLC continuously and 700 % FLC for 10 seconds. For Non-standard applications refer NHP.

400V MOTOR		DIN-T	A160	P160	A250	P250	P160	P250	P400	P630
RATED POWER	CURRENT (FLA)	MCB	THERMAL MAGNETIC STRIPS - TF & TM				ELECTRONIC LSI TRIP UNITS- BE&SE			
[KW]	[A]	C&D CURVE								
0.37	1.1	4								
0.55	1.5	4								
0.75	1.9	6								
1.1	2.7	10								
1.5	3.6	10								
2.2	4.9	16								
3	6.5	20								
4	8.5	25	25	20			40			
5.5	11.5	32	40	20			40			
7.5	15.5	40	63	32			40			
11	22	63	63	50	50		40			
15	29	80	100	50	50		40			
18.5	35	100	100	100	100	63	100			
22	41	125	125	125	100	100	100			
30	55		160	160	160	100	100			
37	66				160	100	100	160		
45	80				200	100	160	160		
55	97				250	160	160	160		
75	132					250		250		
90	160							250		
110	195								400	
132	230								400	
150	260								400	
160	280								400	
185	325									630
200	350									630
220	385									630
250	430									630
315	540									630
355	610									630
400	690									630
450	770									630
500	850									630

Motor Circuit Application Table

DOL Fire Pump Starting Duty

11

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FIRE pump DOL table is based on holding 125 % FLC continuously and 600 % FLC for at least 20 seconds, as per Clause 7.2.5.6.2 from AS/NZS 2000:2018. These motor circuit application tables are to be used as a selection guide for average 3 phase, 4 pole 400/415 V motors for standard applications only. Non-standard applications refer NHP.

400V MOTOR		DIN-T	A160	P160	A250	P250	P160	P250	P400	P630
RATED POWER	CURRENT (FLA)	MCB	THERMAL MAGNETIC STRIPS TF & TM				ELECTRONIC LSI TRIP UNITS BE&SE			
[KW]	[A]	C&D CURVE								
0.37	1.1	4								
0.55	1.5	6								
0.75	1.9	6								
1.1	2.7	10								
1.5	3.6	16								
2.2	4.9	20								
3	6.5	25								
4	8.5	32	25	20			40			
5.5	11.5	40	40	32			40			
7.5	15.5	50	63	32			40			
11	22	63	63	50	50		40			
15	29	100	100	100	100	63	40			
18.5	35	125	100	100	100	100	100			
22	41		125	125	160	100	100			
30	55		160	160	160	160	100			
37	66				200	160	100	160		
45	80				250	160	100	160		
55	97				250	200	160	160		
75	132				250		160	160		
90	160						250			
110	195						250			
132	230								400	
150	260								400	
160	280								400	
185	325								400	
200	350								630	
220	385								630	

Notes

1. DIN-T MCBs are calibrated to IEC 60898 Curve 'C' & 'D'
2. 80, 100 and 125 amp refers to DIN-T DTMH type.
3. MCCB Adjustable magnetic trips set to high. Thermal magnetic trip set to 100 % (I_n).
4. MCCB Electronic BE Trip Unit settings - $I_r = I_n$, $t_r = 16$, $I_{sd} = 6$, $t_{sd} = I^2t$ OFF, $I_i = 10$
5. Trip points taken - versus Tolerance line of the curve

Motor Circuit Application Table

Reduced Voltage Starting

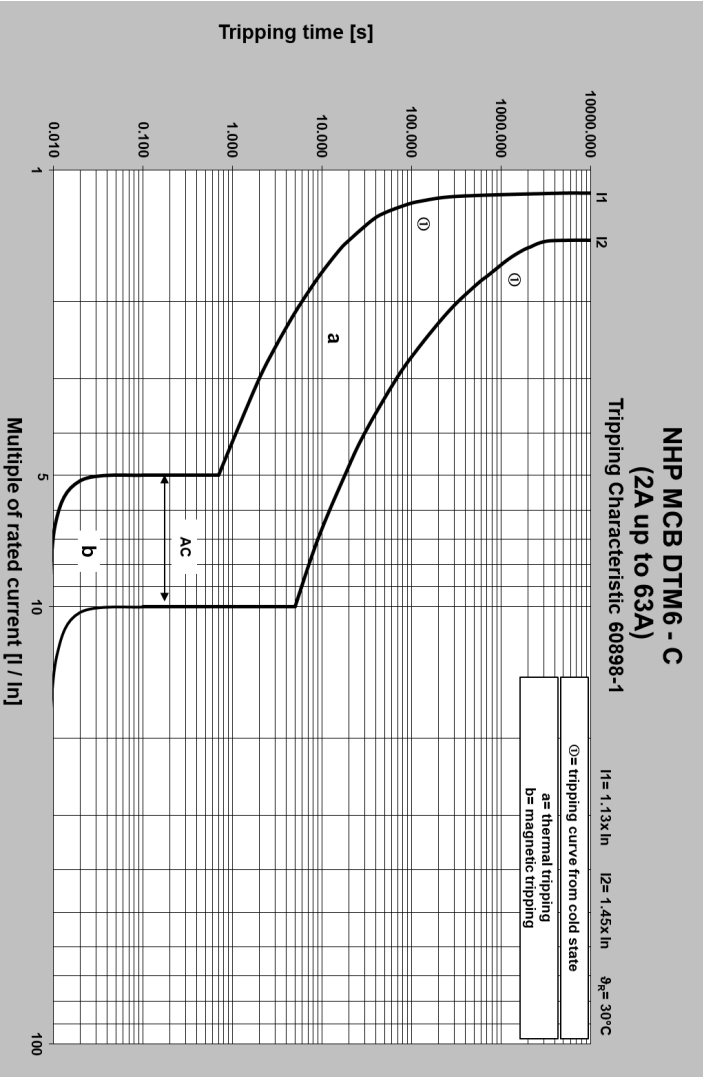
Technical References

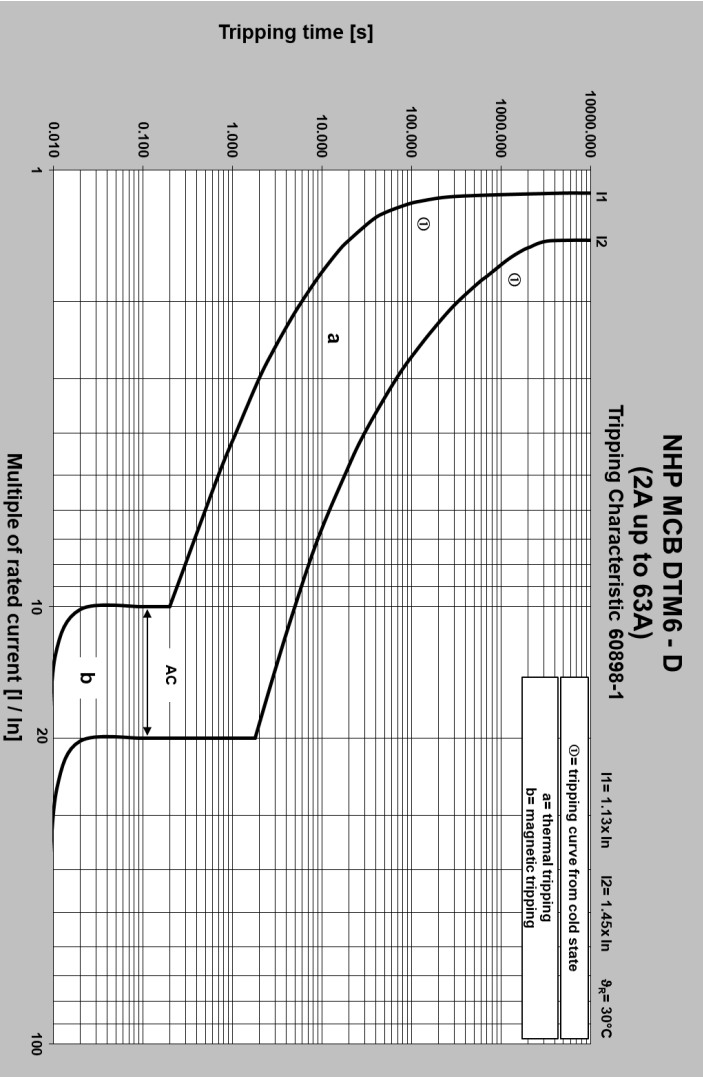
These motor circuit application tables are to be used as a selection guide for typical 3 phase, 4 pole 400/415 V motors for standard applications only. This Reduced Voltage table is based on holding 115 % FLC continuously and 350 % FLC for 20 seconds. For Non-standard applications refer NHP.

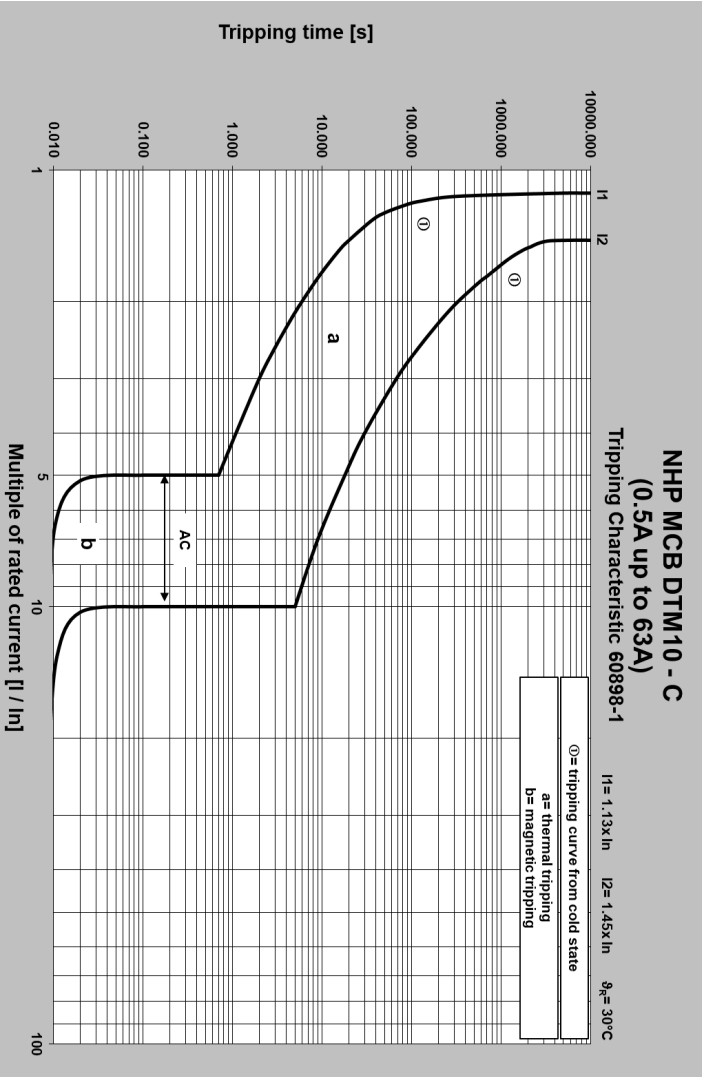
400V MOTOR		DIN-T	A160	P160	A250	P250	P160	P250	P400	P630
RATED POWER	CURRENT (FLA)	MCB	THERMAL MAGNETIC STRIPS TF & TM				ELECTRONIC LSI TRIP UNITS BE&SE			
[KW]	[A]	C&D CURVE								
0.37	1.1	4								
0.55	1.5	4								
0.75	1.9	4								
1.1	2.7	6								
1.5	3.6	10								
2.2	4.9	10								
3	6.5	6								
4	8.5	20	25		20		40			
5.5	11.5	25	25		20		40			
7.5	15.5	32	40		20		40			
11	22	50	40		32		40			
15	29	50	63		32		40			
18.5	35	63	63		50	50	40			
22	41	80	80		50	50	100			
30	55	125	100	100	100	63	100			
37	66	125	125	100	125	100	100	160		
45	80		160	160	160	100	100	160		
55	97		160	160	160	160	160	160		
75	132			200		160	160	160		
90	160			250		200		250		
110	195					250		250		
132	230					250		250	400	
150	260								400	
160	280								400	
185	325								400	
200	350								400	
220	385									630
250	430									630
315	540									630

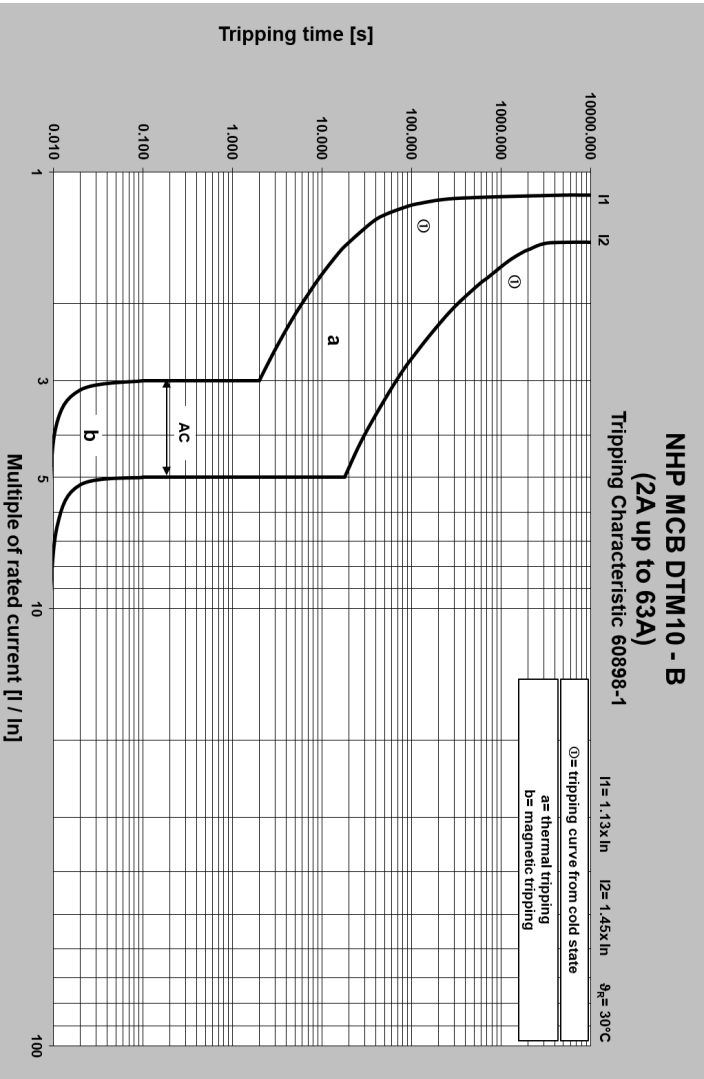
Notes

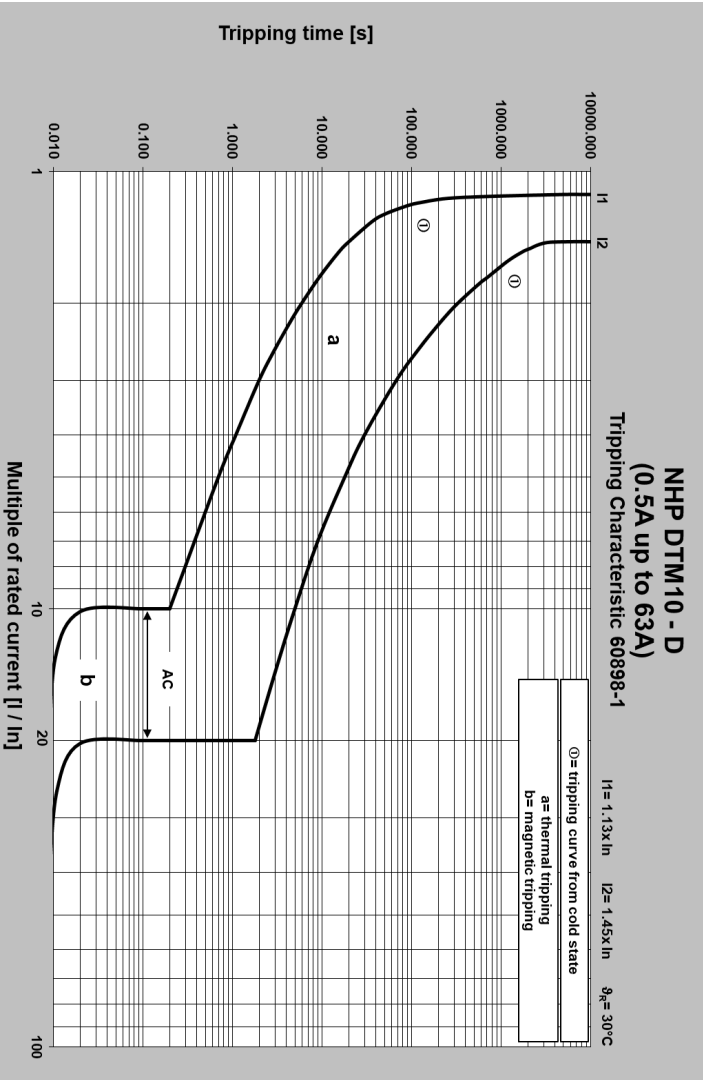
1. DIN-T MCBs are calibrated to IEC 60898 Curve 'C' & 'D'
2. 80, 100 and 125 amp refers to DIN-T DTMH type.
3. MCCB Adjustable magnetic trips set to high. Thermal magnetic trip set to 100% (I_n)
4. MCCB Electronic BE Trip Unit settings - $I_r = I_n$, $t_r = 12$, $I_{sd} = 6$, $t_{sd} = I^2t$ OFF, $I_i = 10$
5. Circuit breaker provides short circuit protection, Over current protection is provided by the motor starter overload relay











Downstream Short-Circuit Current
Calculation Table

Technical References

		ISC AT THE ORIGIN OF THE CABLE																				ISC _{CA} kA	SHORT-CIRCUIT CURRENT AT THE END OF THE CABLE											
		100	94	93	92	91	90	83	70	66	62	55	49	33	20	16	14	11	8.8	4.7	2.4	1.9	1.6	1.2	1.0	0.5								
		90	85	84	84	83	82	76	65	62	58	52	47	32	19	16	14	11	8.7	4.7	2.4	1.9	1.6	1.2	1.0	0.5								
		80	76	76	75	74	74	69	60	57	54	48	44	31	19	16	14	11	8.6	4.7	2.4	1.9	1.6	1.2	1.0	0.5								
		70	67	67	66	66	65	61	54	52	49	44	41	29	18	15	13	10	8.5	4.6	2.4	1.9	1.6	1.2	1.0	0.5								
		60	58	57	57	57	56	54	48	46	44	40	37	27	18	15	13	10	8.3	4.6	2.4	1.9	1.6	1.2	0.9	0.5								
		50	49	48	48	48	47	45	41	40	38	35	33	25	17	14	12	9.8	8.1	4.5	2.4	1.9	1.6	1.2	0.9	0.5								
		40	39	39	39	39	38	37	34	33	32	30	28	22	15	13	12	9.3	7.8	4.4	2.3	1.9	1.6	1.2	0.9	0.5								
		35	34	34	34	34	34	33	30	30	29	27	26	21	15	13	11	9.0	7.6	4.4	2.3	1.9	1.6	1.2	0.9	0.5								
		30	29	29	29	29	29	28	27	26	25	24	23	19	14	12	11	8.6	7.3	4.3	2.3	1.8	1.5	1.2	0.9	0.5								
		25	25	25	24	24	24	24	23	22	22	21	20	17	12	11	9.9	8.2	7.0	4.2	2.3	1.8	1.5	1.2	0.9	0.5								
		20	20	20	20	20	20	19	18	18	18	17	17	14	11	10	9.0	7.5	6.5	4.0	2.2	1.8	1.5	1.1	0.9	0.5								
		15	15	15	15	15	15	15	14	14	14	13	13	12	9.4	9.0	7.8	6.7	5.9	3.7	2.1	1.7	1.5	1.1	0.9	0.5								
		10	9.9	9.9	9.9	9.9	9.9	9.8	9.6	9.5	9.4	9.2	9.1	8.3	7.1	7.0	6.2	5.5	4.9	3.3	2.0	1.6	1.4	1.1	0.9	0.5								
		7	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7	6.6	6.5	6.1	5.5	5.0	4.9	4.4	4.1	2.9	1.8	1.5	1.3	1.0	0.8	0.5								
		5	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.8	4.8	4.5	4.2	4.0	3.8	3.5	3.3	2.5	1.7	1.4	1.2	1.0	0.8	0.5									
		4	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.8	3.7	3.4	3.0	3.2	3.0	2.8	2.2	1.5	1.3	1.2	0.9	0.8	0.4									
		3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.8	2.7	3.0	2.5	2.4	2.3	1.9	1.4	1.2	1.1	0.9	0.7	0.4								
		2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	1.8	1.7	1.7	1.4	1.1	1.0	0.9	0.8	0.7	0.4								
		1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.3									
CORRECTION COEFFICIENT																																		
VOLTAGE		K																																
230 V		0.58																																
660 V		1.65																																
NOTES		VALUES SHORTER THAN 0.8M OR LONGER THAN 1 KM ARE NOT CONSIDERED. ALL VALUES ARE FOR VOLTAGE 400V.																																
EXAMPLE		CABLE WITH CROSS-SECTION 95 mm² CU, 49 M LENGTH, AND SHORT-CIRCUIT CURRENT AT THE TRANSFORMER TERMINALS OF 30 kA. ESTIMATED SHORT-CIRCUIT CURRENT OF 12 kA AT THE END OF THE CABLE.																																

LINE PROTECTION COPPER CONDUCTOR

mm²	LENGTH OF THE LINE IN METRES																			
1.5																				
2.5																				
4																				
6																				
10																				
16																				
25																				
35																				
50																				
70																				
95																				
120																				
150																				
185																				
240																				
300																				
400																				
500																				
625																				
2x95																				
2x120																				
2x150																				
2x165																				
2x240																				
3x95																				
3x120																				
3x150																				
3x185																				
3x240																				
3.6	4.4	5.0	5.6	6.2	12	25	30	36	49	61	118	237	299	361	486	610				

3 Phase

$$kW = kVA \times PF$$

$$I = \frac{kW \times 1000}{E \times 1.732 \times PF}$$

$$kW = \frac{hp \times 746}{1000 \times Eff}$$

$$I = \frac{kVA \times 1000}{E \times 1.732}$$

$$kW = \frac{I \times E \times 1.732 \times PF}{1000}$$

$$I = \frac{hp \times 746}{E \times 1.732 \times Eff \times PF}$$

$$kW = \frac{kW}{PF}$$

$$hp = \frac{kW \times 1000 \times Eff}{746}$$

$$kVA = \frac{I \times E \times 1.732}{1000}$$

$$hp = \frac{kVA \times 1000 \times Eff \times PF}{746}$$

$$hp = \frac{I \times E \times 1.732 \times Eff \times PF}{746}$$

1 Phase

$$I = \frac{kW \times 1000}{E \times PF}$$

$$I = \frac{746 \times hp}{E \times PF \times Eff}$$

$$kVA = \frac{I \times E}{1000}$$

Voltage

$$V_c = \frac{1000V_d}{L \times I}$$

$$V_d = \frac{L \times I \times V_c}{1000}$$

$$V_p \geq \text{sum of } V_d \text{ on a circuit run}$$

V_c = millivolt drop per ampere-metre route length of circuit, as shown in the tables for various conductors, in millivolts per ampere metre (mV/A.m)

Notes

- To convert single-phase voltage drop (mV/A.m) values to three-phase values, multiply the single-phase values by 0.866 ($\sqrt{3}/2$). To convert three-phase values to single-phase values, multiply the three-phase values by 1.155 ($2/\sqrt{3}$).
- Paragraph C4 and Table C7 of AS/NZS 3000:2007 details a simplified method of calculating the voltage drop for PVC cables up to 95 mm², operating at 75°C with maximum values of V_c . The method allows the addition of single phase and three phase percentages.

V_d = Actual voltage drop, in volts

V_p = Permissible voltage drop on the circuit run, e.g. 5% of supply voltage, in volts

L = Route length of circuit, in metres

Other Technical References

For other Technical and Application references including the following, please scan the QR code below:

- Technical Catalogues
- Cascading and Selectivity references
- Type 2 Coordination charts
- Temperature and Watts loss information
- Switchgear Coordination data



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