Fibox ARCA Polycarbonate Enclosures

Make difficult tasks easy with the next evolution in strong, corrosion proof enclosures

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Fibox ARCA enclosures for use in harsh and demanding environments

Robust design

- IP66 ingress protection for peace of mind in wet and dusty environments

- High impact resistance rating of IK10

- Excellent protection against vandalism

- Patented strong hinge design to withstand regular door opening to 120° and the fitting of door mounted components

- Compatible with the majority of NHP's existing standard enclosure locking options to ensure a secure solution for every application

Innovative features

- Patented lockable inner door – no tools required for mounting

- Patented easy to use DIN rail frame set design – no special tools required, easy and quick mounting

- Mounting pods on the base, cover and four base sides

- Variable depth option for internal mounting plates

- Strength of steel without the weight

- Cable glands can be screwed directly into ARCA wall (no need for the gland nut), saving time and providing more position flexibility

- ARCA carton has wall mounting/drilling template inside, saving valuable installation time

- ARCA packing carton is deliberately oversized so that an ARCA with glands already fitted can be put back into the carton, saving packing time and carton waste
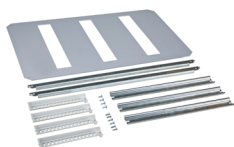
Ordering information
Enclosures

Enclosure dimensions (mm)			Weight (kg)	Mounting plate W (mm)	Mounting plate H (mm)	Max usable depth (mm)	No. of door locks	DIN frame rows x modules	Catalogue no.
H	W	D							
200	300	150	2.4	250	150	136	1	1 x 11	ARCA203015
300	200	150	2.4	150	250	136	1	1 x 5	ARCA302015
300	300	210	4	250	250	196	2	2 x 11	ARCA303021
300	400	150	4.2	350	250	136	2	1 x 16	ARCA304015
300	400	210	4.8	350	250	196	2	1 x 16	ARCA304021
400	300	150	4.2	250	350	136	2	2 x 10	ARCA403015
400	300	210	4.8	250	350	196	2	2 x 10	ARCA403021
400	400	210	4.2	350	350	196	2	2 x 17	ARCA404021
400	500	210	7.05	450	350	196	2	2 x 22	ARCA405021
500	400	210	7.05	350	450	196	2	3 x 16	ARCA504021
500	500	210	5.6	450	450	196	2	3 x 11	ARCA505021
400	600	210	8.4	550	350	196	2	2 x 27	ARCA406021
600	400	210	8.4	350	550	196	2	3 x 16	ARCA604021
500	700	300	14.4	630	430	285	2	3 x 32	ARCA507030
700	500	300	14.4	430	630	285	2	4 x 21	ARCA705030
600	800	300	18.85	730	530	285	2	3 x 38	ARCA608030
800	600	300	18.85	530	730	285	2	4 x 27	ARCA806030

Ordering information
Accessories

All accessories must be ordered separately
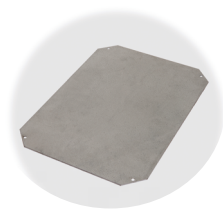
|		
Mounting plate	**Inner door**	**Depth adjustment kit**
DIN rail frame set	**Pole mount kit**	**Wall mount bracket**

Mounting plate, insulated/galvanised steel*	Inner door*	DIN rail frame set*	Wall mount brackets*	Depth adjustment kit*	Pole mount kit*	Catalogue no.
MPSARCA3020P MPSARCA3020	IDSARCA2030	DRSARCA203015	WMKARCAxx, WMKQxxx	CBSARCA15	PMKARCA30	ARCA203015
MPSARCA3020P MPSARCA3020	IDSARCA3020	DRSARCA301015	WMKARCAxx, WMKQxxx	CBSARCA15	PMKARCA20	ARCA302015
MPSARCA3030	IDSARCA3030	DRSARCA303021	WMKARCA10, WMKARCA40, WMKQ10S, WMKQ50S	CBSARCA21	PMKARCA30	ARCA303021
MPSARCA4030P MPSARCA4030	IDSARCA3040	DRSARCA304015	WMKARCAxx, WMKQxxx	CBSARCA15	PMKARCA40	ARCA304015
MPSARCA4030P MPSARCA4030	IDSARCA3040	DRSARCA304021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA40	ARCA304021
MPSARCA4030P MPSARCA4030	IDSARCA4030	DRSARCA403015	WMKARCAxx, WMKQxxx	CBSARCA15	PMKARCA30	ARCA403015
MPSARCA4030P MPSARCA4030	IDSARCA4030	DRSARCA403021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA30	ARCA403021
MPSARCA4040	IDSARCA4040	DRSARCA404021	WMKARCA10, WMKARCA40, WMKQ10S, WMKQ50S	CBSARCA21	PMKARCA40	ARCA404021
MPSARCA5040P MPSARCA5040	IDSARCA4050	DRSARCA405021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA50	ARCA405021
MPSARCA5040P MPSARCA5040	IDSARCA5040	DRSARCA504021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA40	ARCA504021
MPSARCA5050	IDSARCA5050	DRSARCA505021	WMKARCA10, WMKARCA40, WMKQ10S, WMKQ50S	CBSARCA21	PMKARCA50	ARCA505021
MPSARCA6040P MPSARCA6040	IDSARCA4060	DRSARCA406021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA60	ARCA406021
MPSARCA6040P MPSARCA6040	IDSARCA6040	DRSARCA604021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA40	ARCA604021
MPSARCA7050P MPSARCA7050	IDSARCA5070	DRSARCA507030	WMKARCAxx, WMKQxxx	CBSARCA30	–	ARCA507030
MPSARCA7050P MPSARCA7050	IDSARCA7050	DRSARCA705030	WMKARCAxx, WMKQxxx	CBSARCA30	PMKARCA50	ARCA705030
MPSARCA8060P MPSARCA8060	IDSARCA6080	DRSARCA608030	WMKARCAxx, WMKQxxx	CBSARCA30	–	ARCA608030
MPSARCA8060P MPSARCA8060	IDSARCA8060	DRSARCA806030	WMKARCAxx, WMKQxxx	CBSARCA30	PMKARCA60	ARCA806030

*All accessories must be ordered separately

Inner door, IDSARCAxxxx

IDSARCA inner doors provide additional protection to installed equipment, as well as providing a convenient mounting location for push buttons, indicator lights and display modules that need to be protected from UV and weather exposure as well as unauthorised access. Fast and easy installation requires no tools and thus saves considerable time.
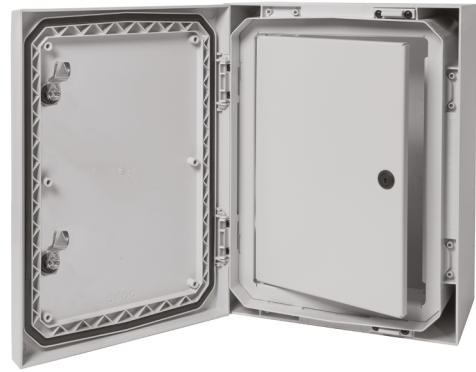
Ordering information		Material
IDSARCA2030	Inner door H200 x W300mm, suits ARCA203015	
IDSARCA3020	Inner door H300 x W200mm, suits ARCA302015	
IDSARCA3030	Inner door H300 x W300mm, suits ARCA303021	
IDSARCA3040	Inner door H300 x W400mm, suits ARCA304015, ARCA304021	
IDSARCA4030	Inner door H400 x W300mm, suits ARCA403015, ARCA403021	
IDSARCA4040	Inner door H400 x W400mm, suits ARCA404021	
IDSARCA4050	Inner door H400 x W500mm, suits ARCA405021	
IDSARCA5040	Inner door H500 x W400mm, suits ARCA504021	Galvanized steel,
IDSARCA5050	Inner door H500 x W500mm, suits ARCA505021	RAL 7035 powder coated
IDSARCA4060	Inner door H400 x W600mm, suits ARCA406021	
IDSARCA6040	Inner door H600 x W400mm, suits ARCA604021	
IDSARCA5070	Inner door H500 x W700mm, suits ARCA507030	
IDSARCA7050	Inner door H700 x W500mm, suits ARCA705030	
IDSARCA6080	Inner door H600 x W800mm, suits ARCA608030	
IDSARCA8060	Inner door H800 x W600mm, suits ARCA806030	

DIN rail frame set, DRSARCAxxxx

DRSARCA DIN rail frame set provides a fast and easy way to mount DIN rail components inside the ARCA enclosure. Supplied as a complete kit including DIN rail frame, depth adjustment rails and a pre-cut front escutcheon. Components can be pre-mounted and pre-wired on the DIN rail frame at desired depth, then simply slide the whole assembly into the ARCA enclosure and screw the escutcheon in place, thus saving considerable time.
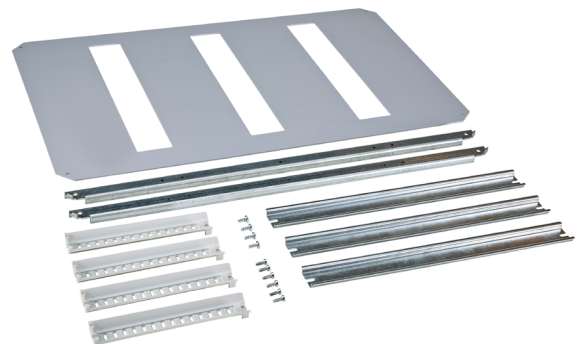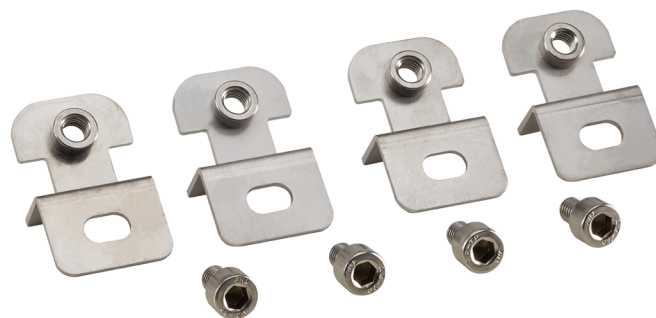
Ordering information		Material
DRSARCA203015	DIN rail frame set 1 x 11 modules, suits ARCA203015 H200 x W300 x D150mm	
DRSARCA302015	DIN rail frame set 1 x 5 modules, suits ARCA302015 H300 x W200 x D150mm	
DRSARCA303021	DIN rail frame set 2 rows x 11 modules, suits ARCA303021 H300 x W300 x D210mm	
DRSARCA304015	DIN rail frame set 1 x 16 modules, suits ARCA304015 H300 x W400 x D150mm	
DRSARCA304021	DIN rail frame set 1 x 16 modules, suits ARCA304021 H300 x W400 x D210mm	
DRSARCA403015	DIN rail frame set 2 x 10 modules, suits ARCA403015 H400 x W300 x D150mm	
DRSARCA403021	DIN rail frame set 2 x 10 modules, suits ARCA403021 H400 x W300 x D210mm	
DRSARCA404021	DIN rail frame set 2 rows x 17 modules, suits ARCA404021 H400 x W400 x D210mm	
DRSARCA405021	DIN rail frame set 3 x 16 modules, suits ARCA504021 H500 x W400 x D210mm	Galvanized steel frame, plastic escutcheon and depth adjustment rails
DRSARCA504021	DIN rail frame set 2 x 22 modules, suits ARCA405021 H400 x W500 x D210mm	
DRSARCA505021	DIN rail frame set 3 rows x 11 modules, suits ARCA505021 H500 x W500 x D210mm	
DRSARCA406021	DIN rail frame set 2 x 27 modules, suits ARCA406021 H400 x W600 x D210mm	
DRSARCA604021	DIN rail frame set 3 x 16 modules, suits ARCA604021 H600 x W400 x D210mm	
DRSARCA507030	DIN rail frame set 3 x 32 modules, suits ARCA507030 H500 x W700 x D300mm	
DRSARCA705030	DIN rail frame set 4 x 21 modules, suits ARCA705030 H700 x W500 x D300mm	
DRSARCA608030	DIN rail frame set 3 x 38 modules, suits ARCA608030 H600 x W800 x D300mm	
DRSARCA806030	DIN rail frame set 4 x 27 modules, suits ARCA806030 H800 x W600 x D300mm	

Wall mount bracket, WMKARCAxx, WMKQxxx

WMKARCA and WMKQ wall mounting brackets permit the ARCA enclosure to be mounted on a vertical wall and provide a space between the wall and enclosure for cleaning and ventilation. The wall mount brackets attach to the unique double corner, thus no drilling of the enclosure is required and IP rating is maintained.

The WMKARCA mounting brackets are manufactured in stainless steel and provide either a 10mm or a 40mm gap between the enclosure and the wall. The WMKQ mounting brackets are manufactured in glass reinforced polycarbonate and provide either a 10mm or a 50mm gap between the enclosure and the wall. All mounting brackets are supplied as a pack of 4.

Ordering information		Material
WMKARCA10	Wall mount brackets with 10mm gap, suits ARCA sizes 2030, 3020, 3030, 3040, 4030, 4040, 4050, 5040, 5050, 4060 and 6040	316 grade stainless steel
WMKARCA40	Wall mount brackets with 40mm gap, suits ARCA sizes 2030, 3020, 3030, 3040, 4030, 4040, 4050, 5040, 5050, 4060 and 6040	
WMKARCA10M	Wall mount brackets with 10mm gap, suits ARCA sizes 5070, 5070, 6080 and 8060	
WMKARCA40M	Wall mount brackets with 40mm gap, suits ARCA sizes 5070, 5070, 6080 and 8060	
WMKQ10S	Plastic wall mount brackets with 10mm gap, suits ARCA sizes 2030, 3020, 3030, 3040, 4030, 4040, 4050, 5040, 5050, 4060 and 6040	Glass reinforced polycarbonate
WMKQ50S	Plastic wall mount brackets with 50mm gap, suits ARCA sizes 2030, 3020, 3030, 3040, 4030,4040, 4050, 5040, 5050, 4060 and 6040	
WMKQ10M	Plastic wall mount brackets with 10mm gap, suits ARCA sizes 5070, 7050, 6080 and 8060	
WMKQ50M	Plastic wall mount brackets with 50mm gap, suits ARCA sizes 5070, 7050, 6080 and 8060	

Depth adjustment kit, CBSARCAxx

CBSARCA depth adjustment kits allow the MPSARCA mounting plates to be mounted at various depths within the enclosure in 10mm increments. Available in three versions to suit the available ARCA enclosure depths, the CBSARCA quickly and easily mounts into the pre-formed corner rails in the enclosure.

Supplied as a pack of 4 with mounting hardware.

Ordering information		Material
CBSARCA15	depth adjustment kit for 150mm deep enclosures	Glass reinforced polycarbonate, galvanised steel lugs
CBSARCA21	depth adjustment kit for 210mm deep enclosures	
CBSARCA30	depth adjustment kit for 300mm deep enclosures	

Pole mount kit, PMKARCAxx

PMKARCA pole mount kits allow the ARCA enclosure to be mounted to a vertical pole. Available in five versions to suit the available ARCA enclosure widths and the pole mount kit suits poles diameter 100-300mm.

Ordering information		Material
PMKARCA20	Pole mount kit for 200mm wide enclosures	
PMKARCA30	Pole mount kit for 300mm wide enclosures	
PMKARCA40	Pole mount kit for 400mm wide enclosures	Stainless steel
PMKARCA50	Pole mount kit for 500mm wide enclosures	
PMKARCA60	Pole mount kit for 600mm wide enclosures	

Fibox ARCA
Key Features

- Easy assembly and refined appearance

Door

- Door opening angle 120°
- Pre-formed fixing studs inside
- Easy access to the contents

Mounting pods

- On base, cover and four base sides
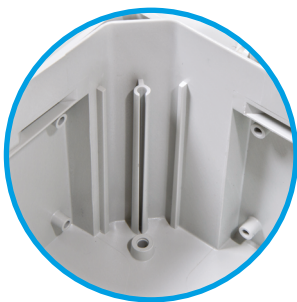
Gasket

- Wide and recessed gasket with PUR material for high quality sealing
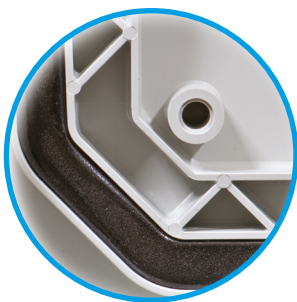
Special moulded rib design

- For making the cabinet extra stable and solid

Corner design

- Double corner to secure fixing without destroying the IP
- Robust and rigid cabinet

Sloped design on Enclosure body

- Self draining
- Better waterproofing
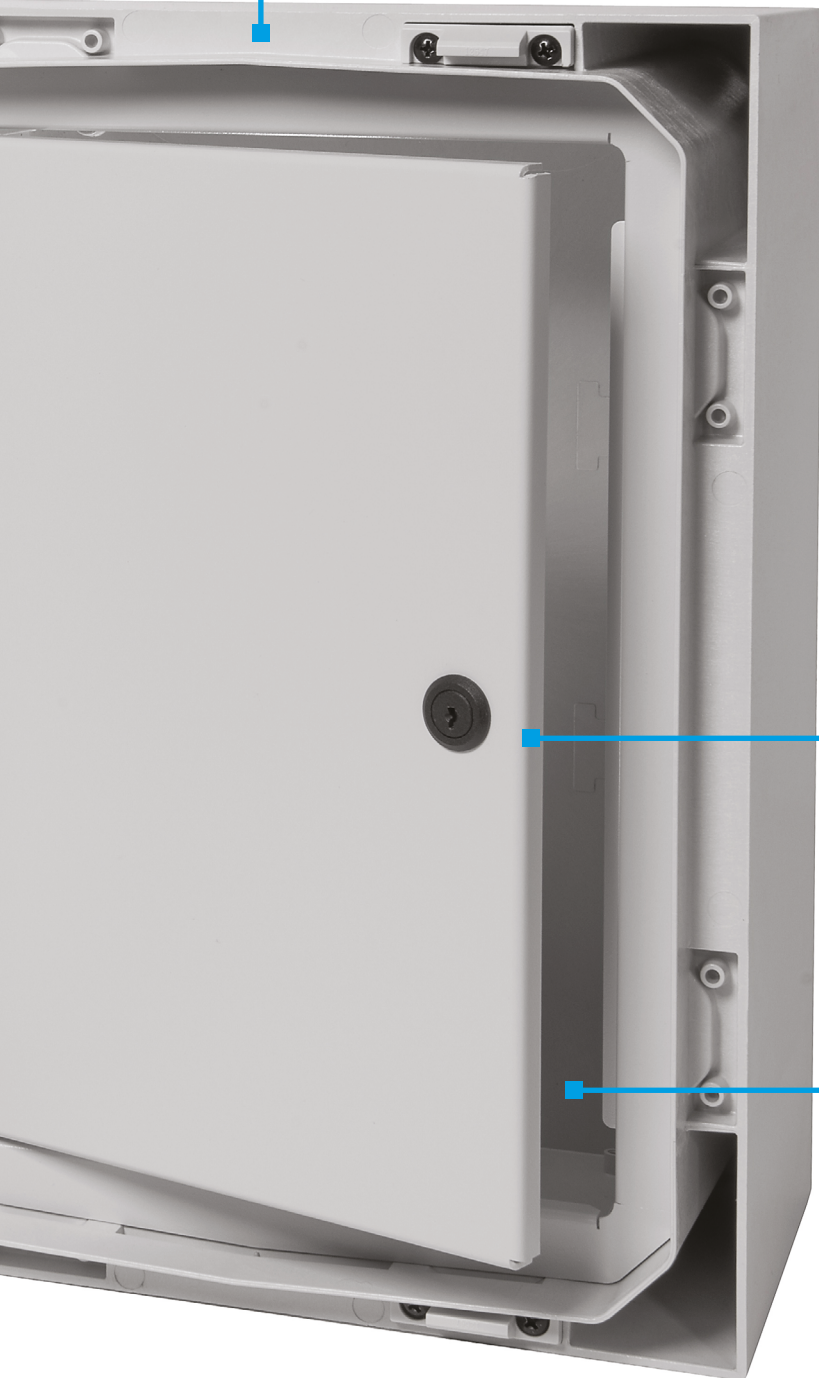
Enclosure body

The main body of the Fibox ARCA Enclosure is made from rugged glass reinforced polycarbonate which offers several key benefits:

- Non-corrosive
- High impact resistance
- Low maintenance
- UV resistant
- Aesthetically pleasing
- Easy to machine

Optional

- Inner door for additional protection of components and equipment
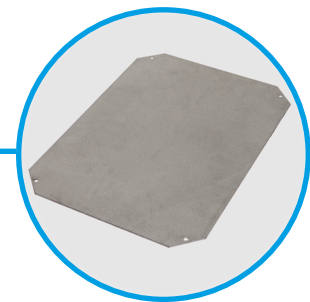
Mounting plate

- Insulated or steel available
- Ordered separately
- Depth adjustable in 10mm increments

The Fibox ARCA range offers several key benefits

- Available in a range of sizes ex-stock, minimising delivery time

- Life expectancy over 25 years when installed outside, will likely outlast the internal components

- Independently tested to ISO 4892-2 (accelerated weathering), outperformed both fibreglass and other polycarbonate materials

- Does not delaminate under UV exposure, unlike other materials

- Easy depth adjustment provides the flexibility to suit different depth components

- Option of metal or insulated mounting plates provides flexibility

- Wide range of modular, easy-to-fit accessories available, allowing customisation and saving significant time and money during assembly

- Fitting of the inner door requires no tools and takes about a minute, a fraction of the time of competitive offerings

- Fitting of DIN rail mount set set takes about six minutes, less than half of competitive offerings

- Oversized packing carton contains drilling template and can accommodate an enclosure fitted out with cable glands, minimising re-packing time for transport to site

- Thick walls allow cable glands to be screwed directly into the enclosure, providing cable entry flexibility

- Light weight provides more location flexibility, particularly when mounting above ground on poles and gantries

Applications

The Fibox ARCA has been designed with robustness and weather resistance in mind, making it ideally suited for all outside applications. The material properties of the glass-fibre-reinforced polycarbonate make the ARCA inherently fully insulated, resistant to corrosion, resistant to many chemicals, resistant to high UV exposure and able to deliver a life expectancy of over 25 years – critical for high value infrastructure projects. ARCA enclosures have the strength of steel at a fraction of the weight. These characteristics make the ARCA ideally suited to applications in the following industries:

- Renewable energy, including PV/solar, wind and hydro
- Water and waste water treatment plants
- Aquaculture and other marine environments
- Heavy industries
- Fertiliser plants, cement plants
- Agriculture
- Petrochemical plants
- Telecommunications
- Temporary connections on construction sites
- ITS, railways and airports, particularly on overhead gantries and poles

Flexible depth adjustment
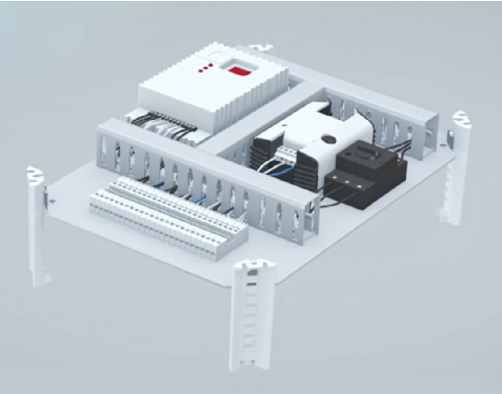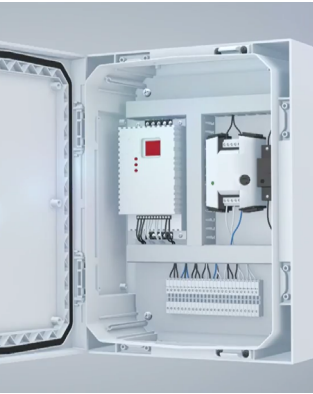

Adjustable mounting depth
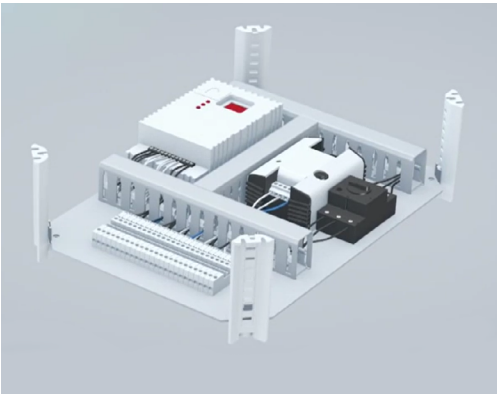
Adjustable mounting depth
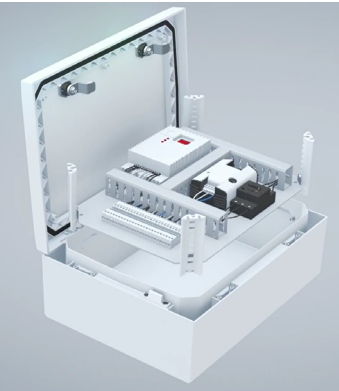
Easy to mount DIN rail module set

Patented easy and quick to install DIN rail frame set

Easy to mount inner door – no tools required

Easy mounting

Technical Information

Material	Glass fibre reinforced polycarbonate
Ingress protection (EN 60529)	IP66
Impact resistance (EN 62262)	IK10 (20 Joules)
Temperature range (continuous)	-40° ... +80°C
Temperature range (short term)	-40° ... +120°C
Electrical insulation	Totally insulated
Colour	RAL 7035 (industry grey)
Glow wire test (IEC 695-2-1)	960°
Non-toxicity	Halogen free (DIN/VDE 0472, Part 815)
Flammability rating (material)	UL 94-5VA
UV resistance	UL 508; 720 hours in 'Weatherometer'
Gasket	Polyurethane (PUR)
Conformity to standards	EN/IEC 62208, EN/IEC 61439-1-4, RoHS directive 2011/65/EU, Low voltage directive 2006/95/EC (up to 1500V DC)

A partnership with NHP will provide you with:

- 24/7/365 Emergency service
- National service network
- NHP project management
- Extensive local stockholding
- Extensively trained and qualified service technicians
- Customised manufactured solutions

Why NHP?

While our customers' challenges may be complex, their ultimate goal is simple: to run a profitable, safe and sustainable operation.

NHP is committed to servicing the needs of our customers. With over 50 years of experience in the electrical and engineering industry, our specialist teams work collaboratively to design and deliver solutions to maximise the success of your project.

We bring together internationally recognised automation, power distribution and motor control products with local knowledge and expertise to deliver best practice services from concept design through to installation and after-sales service, including project management.

Optimise performance with SMART Motor Control

NHP

A·B QUALITY FT **Authorised Distributor**
A ROCKWELL AUTOMATION PARTNER

When it comes to your food and beverage requirements, elevate your operations and connectivity with SMART Motor Control solutions from NHP.

Access to production and machine data helps you to make informed decisions that improve production, mitigate downtime, increase productivity and boost profitability, offering substantial benefits over conventional approaches.

Work smarter and increase asset utilisation by implementing a SMART Motor Control Solution from NHP to improve productivity and avoid motor failures with an integrated, data-driven approach.

SCAN ME

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