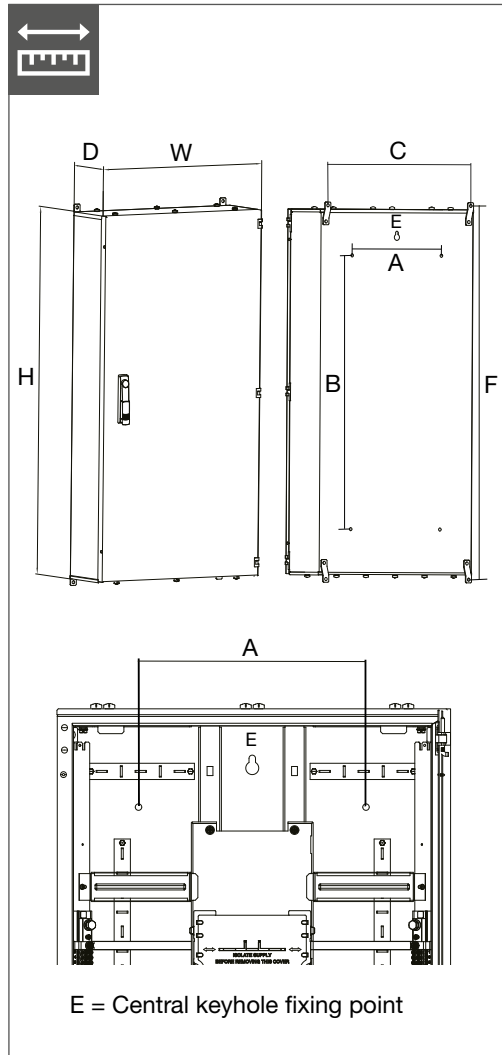
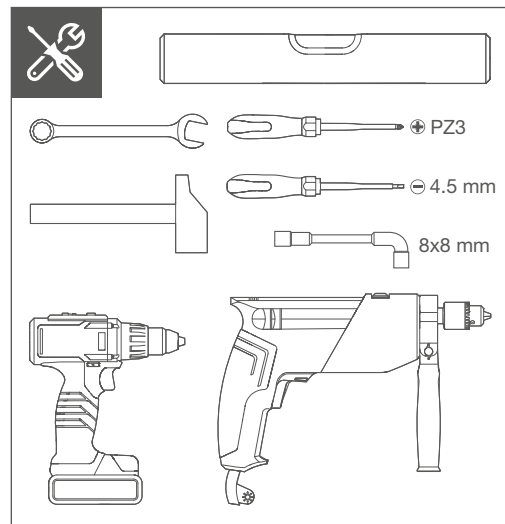
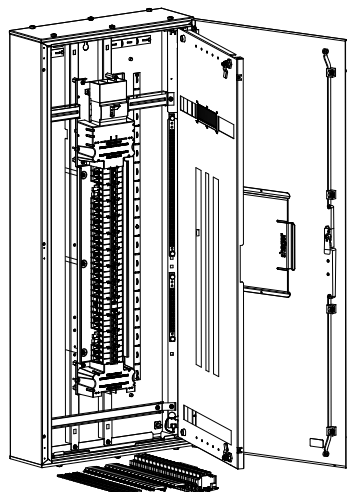
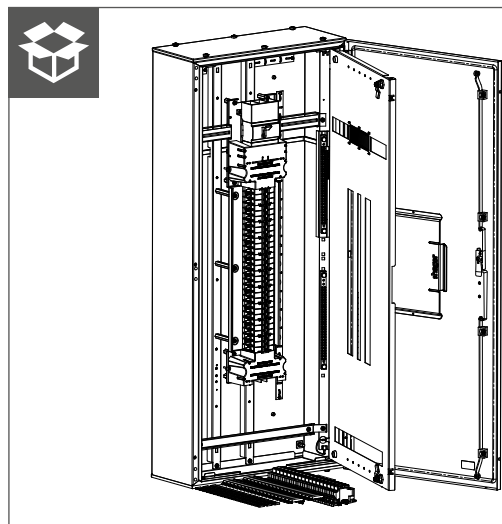
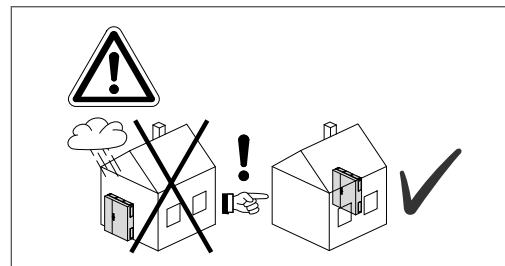


Performa Apex & Apex PLUS panelboard



Dimensions

| | | H | W | D | A | B | C | F |
|--------------------------------|----------------|------|-----|-----|-----|------|-----|------|
| Apex / Apex+ fixed load | | | | | | | | |
| JPA2400xxxxx | Apex 24 pole | 800 | 600 | 200 | 350 | 500 | 560 | 822 |
| JPA3600xxxxx | Apex 36 pole | 1000 | 600 | 200 | 350 | 700 | 560 | 1022 |
| JPA4800xxxxx | Apex 48 pole | 1200 | 600 | 200 | 350 | 900 | 560 | 1222 |
| JPA6000xxxxx | Apex 60 pole | 1200 | 600 | 200 | 350 | 900 | 560 | 1222 |
| JPA7200xxxxx | Apex 72 pole | 1400 | 600 | 200 | 350 | 1100 | 560 | 1422 |
| JPA9600xxxxx | Apex 96 pole | 1600 | 600 | 200 | 350 | 1300 | 560 | 1622 |
| JPD2400xxxxx | Apex + 24 pole | 1000 | 600 | 200 | 350 | 700 | 560 | 1022 |
| JPD3600xxxxx | Apex + 36 pole | 1200 | 600 | 200 | 350 | 900 | 560 | 1222 |
| JPD4800xxxxx | Apex + 48 pole | 1200 | 600 | 200 | 350 | 900 | 560 | 1222 |
| JPD6000xxxxx | Apex + 60 pole | 1400 | 600 | 200 | 350 | 1100 | 560 | 1422 |
| JPD7200xxxxx | Apex + 72 pole | 1400 | 600 | 200 | 350 | 1100 | 560 | 1422 |
| JPD9600xxxxx | Apex + 96 pole | 1600 | 600 | 200 | 350 | 1300 | 560 | 1622 |
| JPA0EXxxx | Apex extension | 400 | 600 | 200 | 350 | 150 | 560 | 422 |
| Apex+ split load | | | | | | | | |
| JPD1812xxxxx | 18+12 poles | 1200 | 600 | 200 | 350 | 900 | 560 | 1222 |
| JPD2418xxxxx | 24+18 poles | 1200 | 600 | 200 | 350 | 900 | 560 | 1222 |
| JPD3012xxxxx | 30+12 poles | 1200 | 600 | 200 | 350 | 900 | 560 | 1222 |
| JPD3618xxxxx | 36+18 poles | 1400 | 600 | 200 | 350 | 1100 | 560 | 1422 |
| JPD3630xxxxx | 36+30 poles | 1400 | 600 | 200 | 350 | 1100 | 560 | 1422 |
| JPD4212xxxxx | 42+12 poles | 1400 | 600 | 200 | 350 | 1100 | 560 | 1422 |
| JPD4224xxxxx | 42+24 poles | 1400 | 600 | 200 | 350 | 1100 | 560 | 1422 |
| JPD4818xxxxx | 48+18 poles | 1400 | 600 | 200 | 350 | 1100 | 560 | 1422 |
| JPD4842xxxxx | 48+42 poles | 1600 | 600 | 200 | 350 | 1300 | 560 | 1622 |
| JPD6030xxxxx | 60+30 poles | 1600 | 600 | 200 | 350 | 1300 | 560 | 1622 |
| JPD7218xxxxx | 72+18 poles | 1600 | 600 | 200 | 350 | 1300 | 560 | 1622 |
| JPD243624xxxxx | 24+36+24 poles | 1600 | 600 | 200 | 350 | 1300 | 560 | 1622 |
| JPD363624xxxxx | 36+36+24 poles | 1800 | 600 | 200 | 350 | 1500 | 560 | 1822 |
| JPD422430xxxxx | 42+24+30 poles | 1800 | 600 | 200 | 350 | 1500 | 560 | 1822 |

E = Central keyhole fixing point

Safety instructions

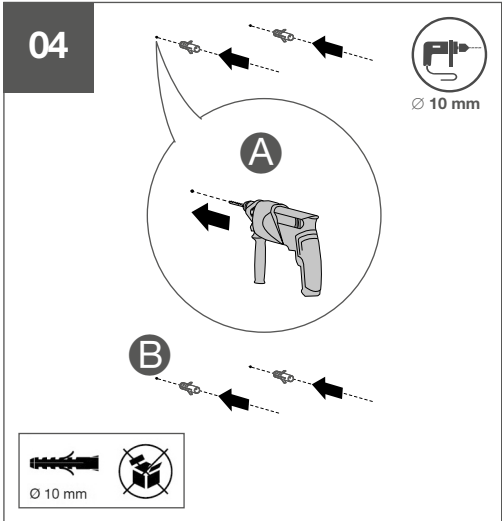
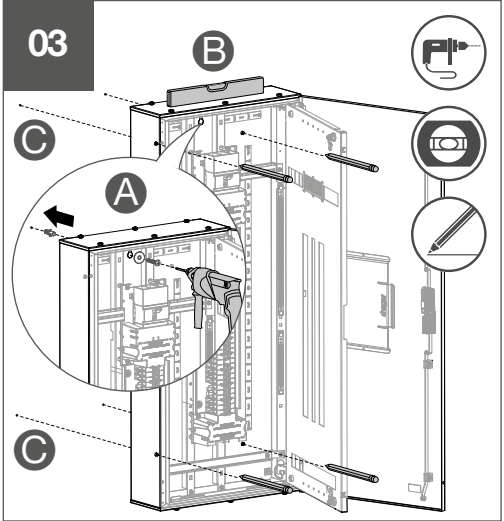
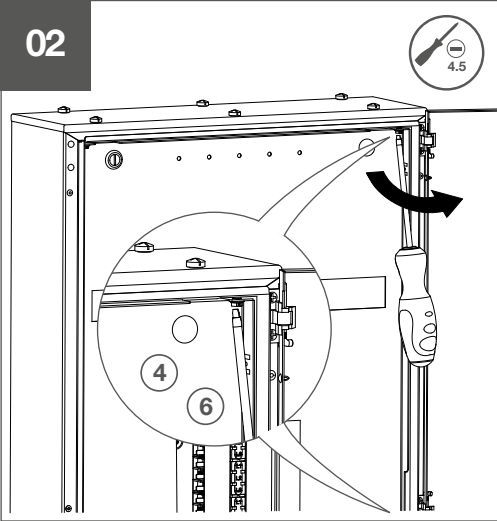
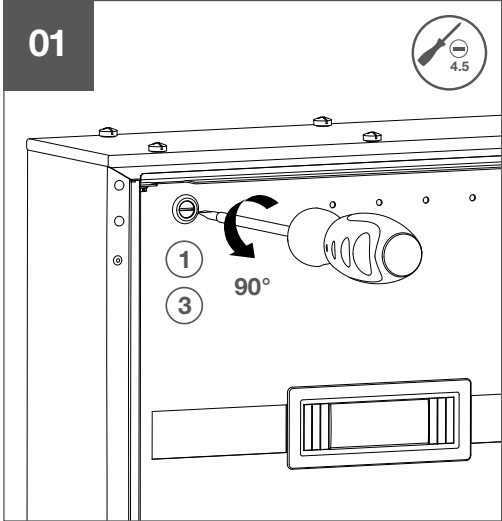
Installation, modification and disassembly of the product may only be carried out by an authorised electrician in accordance with the relevant installation standards and safety regulations of the country. The final installation must fulfil all the requirements of the latest Edition of AS/NZS 3000. These instruction is an integral part of the product and must be kept for the entire lifetime of the product. Read these instructions carefully before starting any work and before using the product.

Mounting

The installation location must be selected so that the load-bearing capacity of wall is suitable for the weight of the panelboard including all to built-in devices. All cables must be routed via screwable cable entries on the panelboard or otherwise sealed. All panelboards have lockable doors and are suitable for restricted areas in accordance with AS/NZS 61439. Before commissioning

- Check the arrangement and alignment of all devices and ensure that all devices are undamaged and all connections are securely tightened.

- After completing the installation, clean the panelboard and remove filings, material residues and other foreign objects.



Installing switchgears in the panelboard

Danger

Electric shock when live parts are touched!

An electric shock can lead to death!

- Isolate all connection cables before working on the device and cover any live parts in the area!

The electrician must ensure that all installed devices are suitable and fulfil the required residual current values.

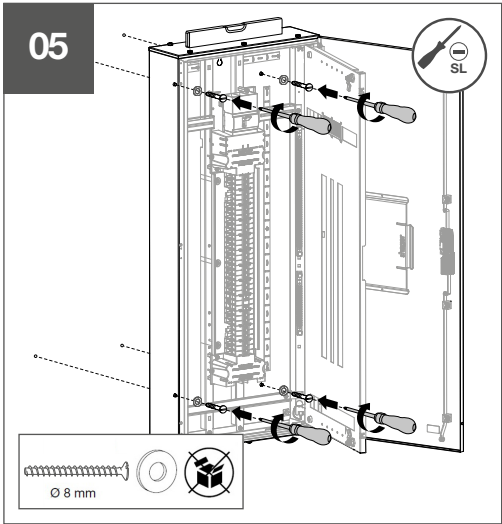
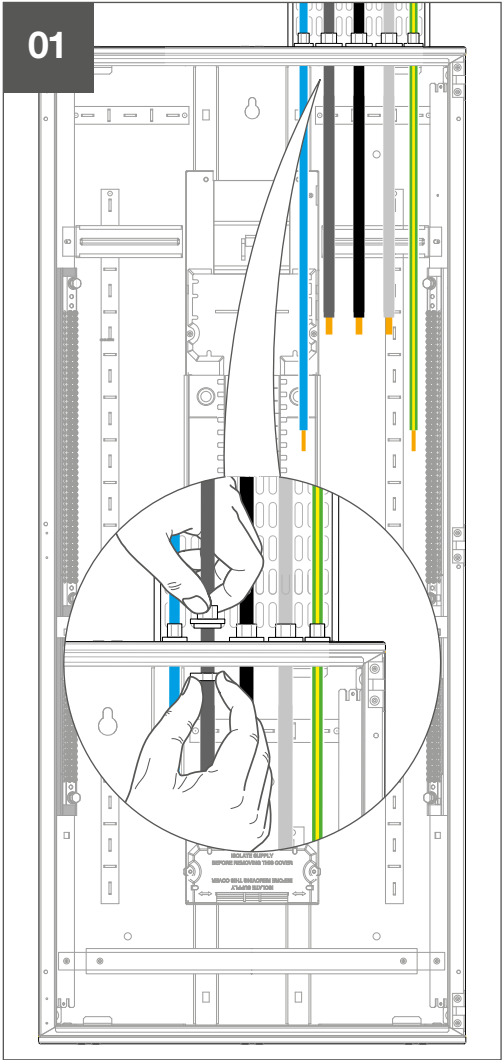
The enclosure of this panelboard has been developed for the installation of Hager MCBs and RCBOs with 10 kA. It is therefore recommended that only switchgears approved by Hager are installed, otherwise the guarantee may be invalidated.

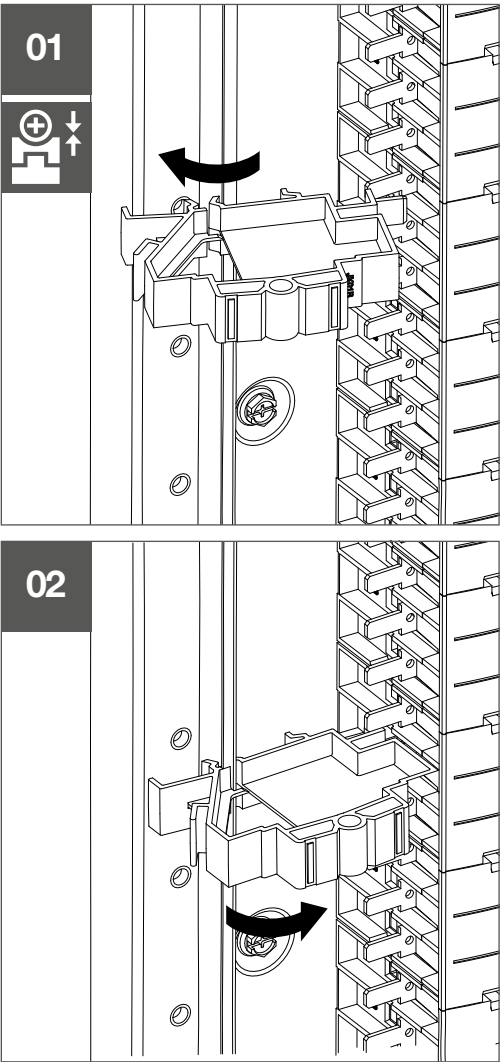
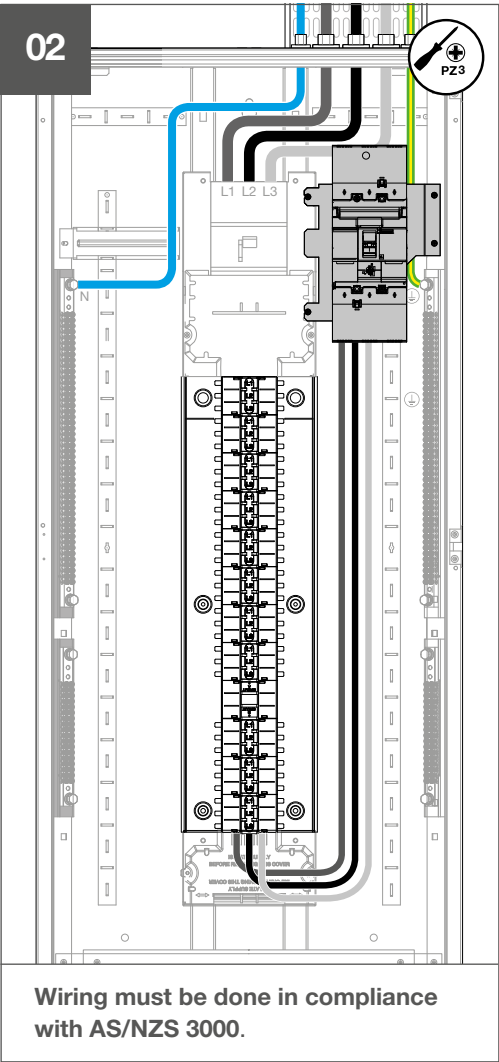
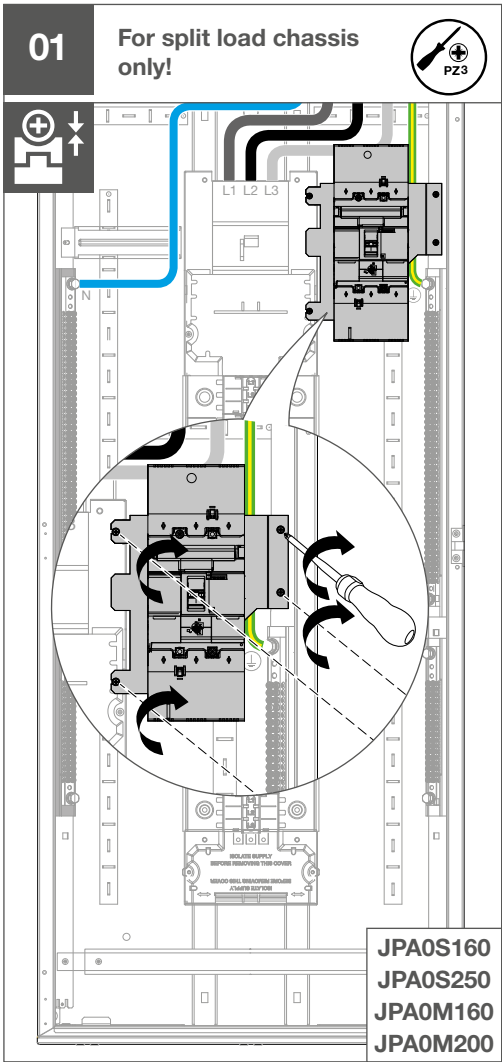
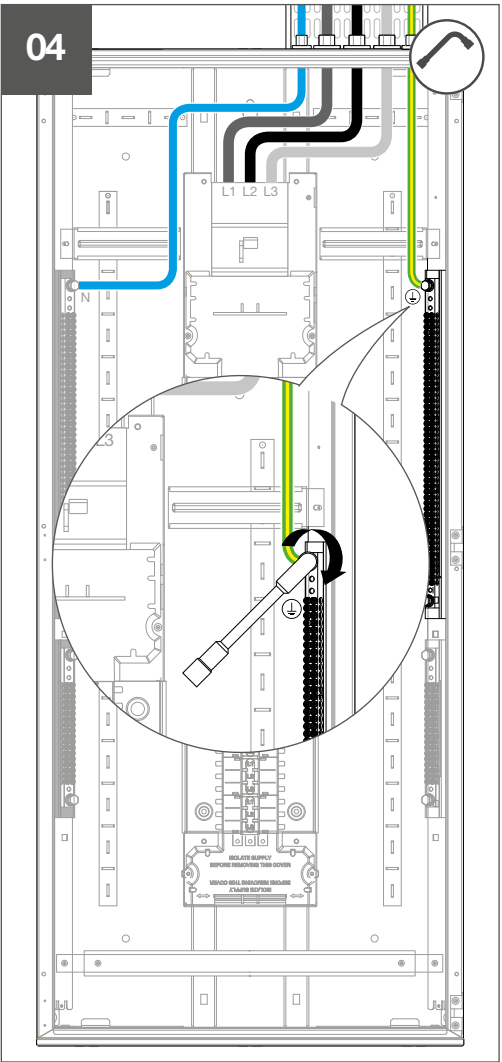
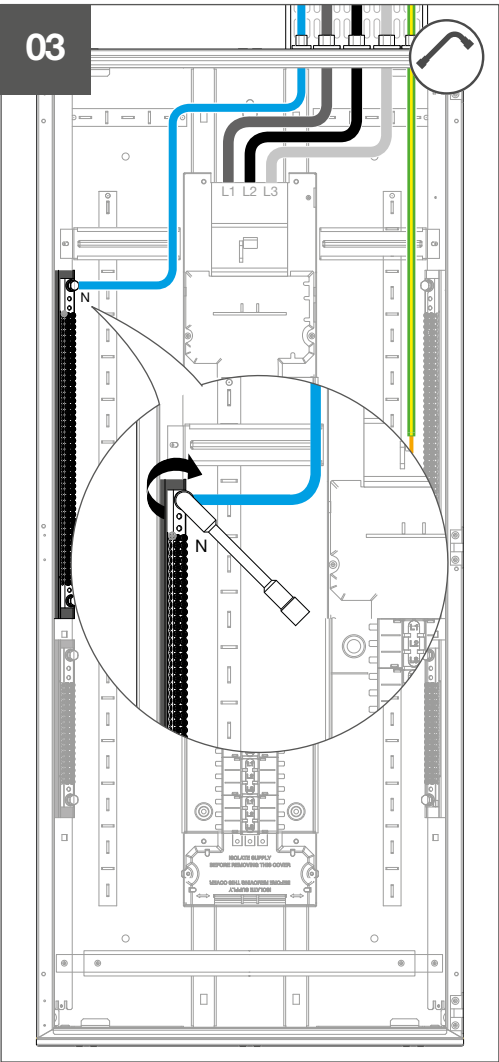
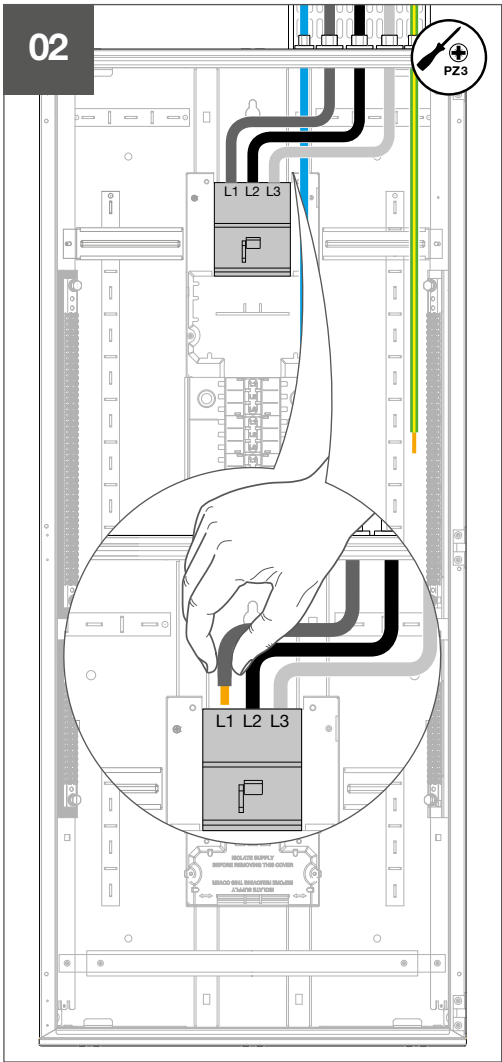
If the fault level at the switchboard is higher than the MCBs allow, current-limiting fuses or circuit breakers must be backup them.

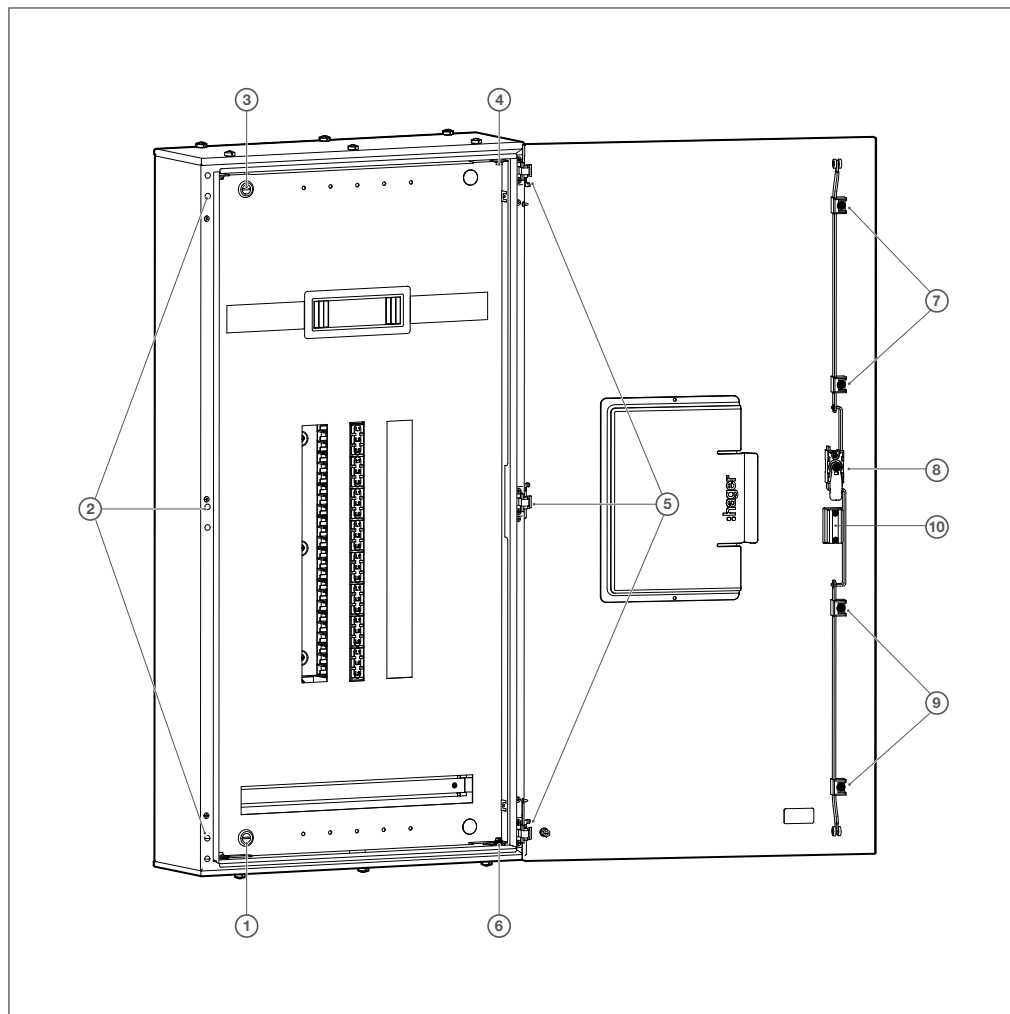
For fuse protection levels, refer to Hager.

The devices must be mounted so that the DIN clips are facing the centre of the panelboard.

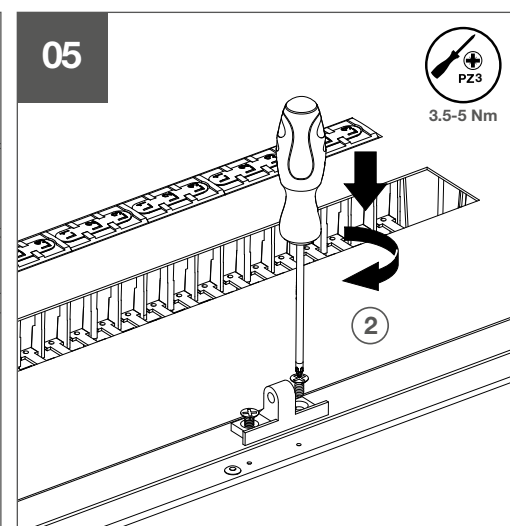
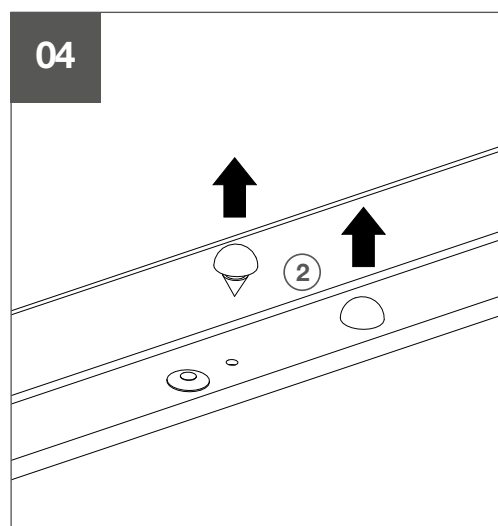
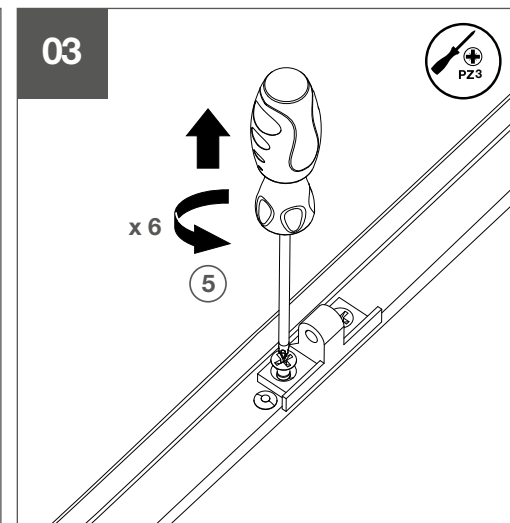
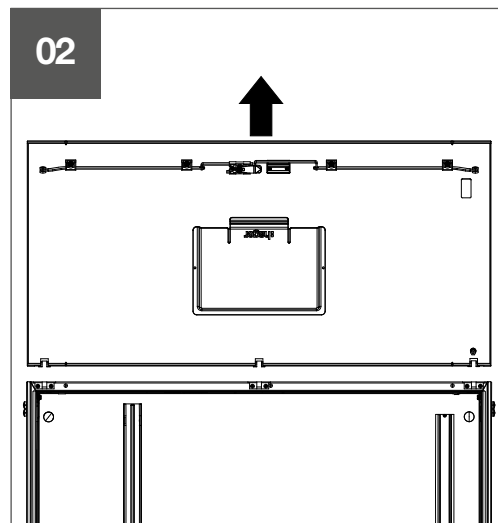
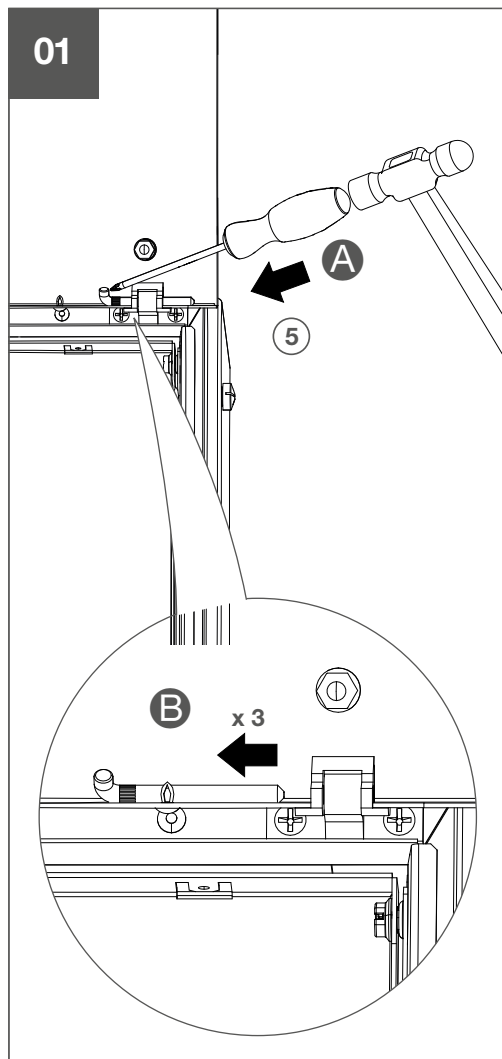
Mechanical brackets and electrical connections can come loose during transport with installed devices. In this case, the electrician must ensure that all connections are firmly tightened before the system is put into operation.

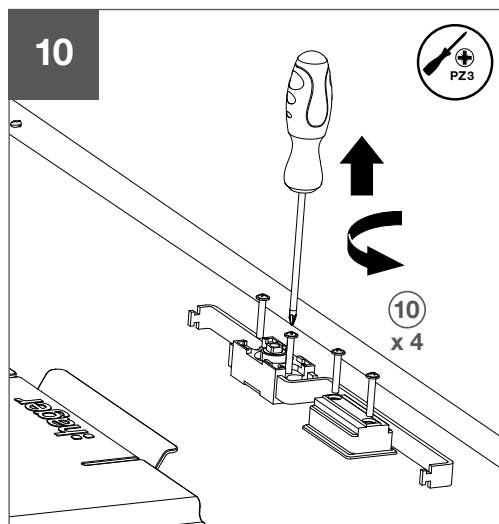
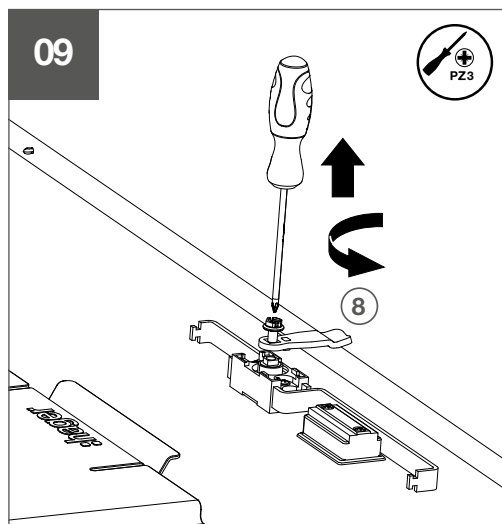
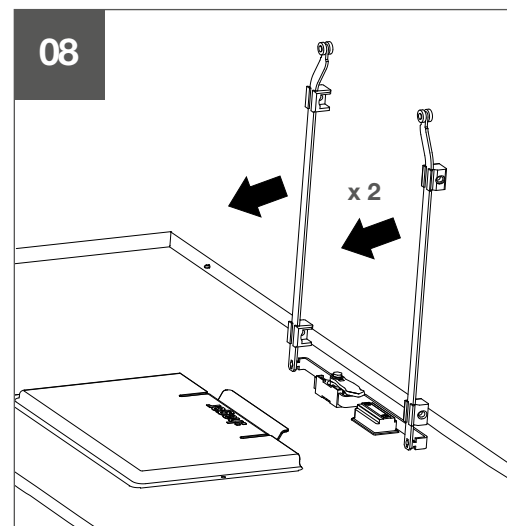
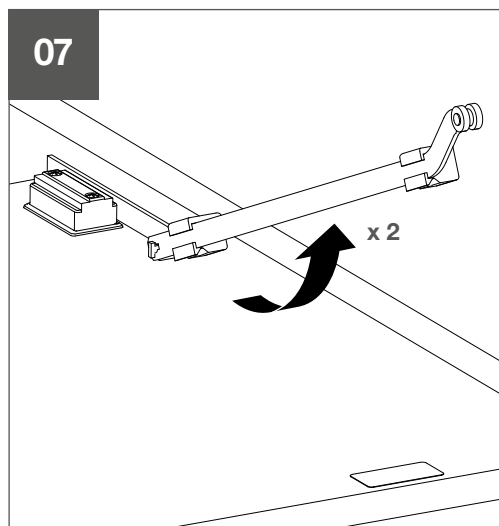
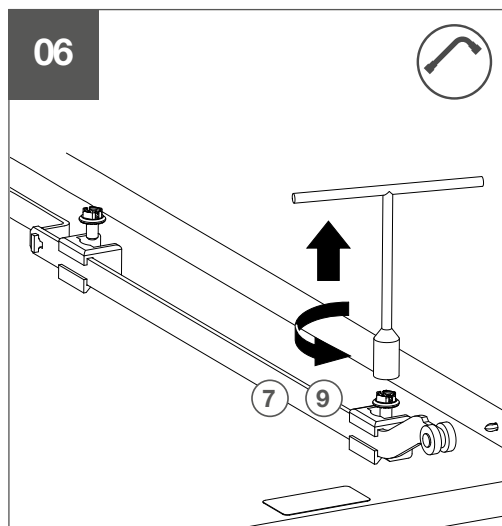






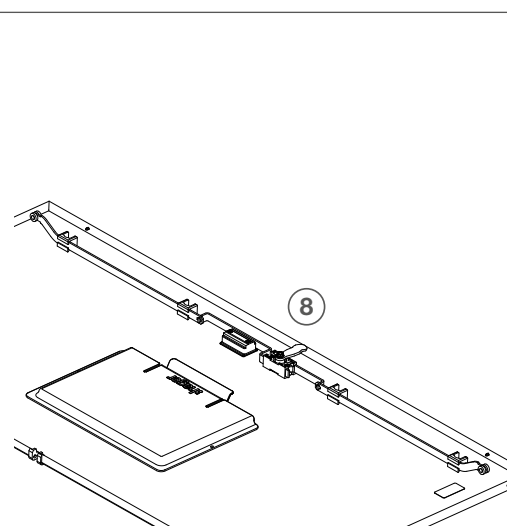
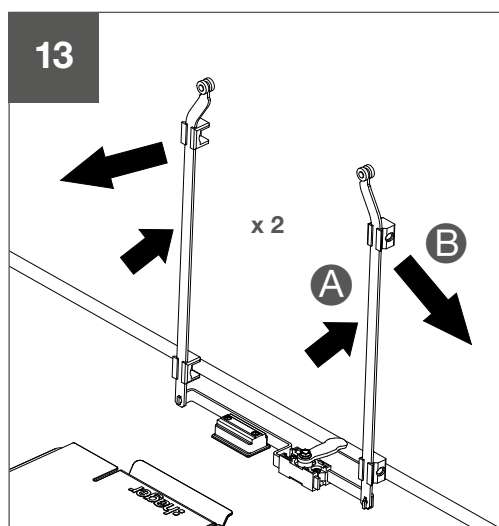
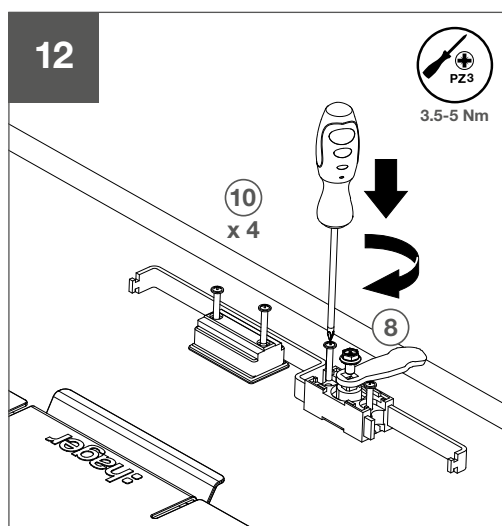
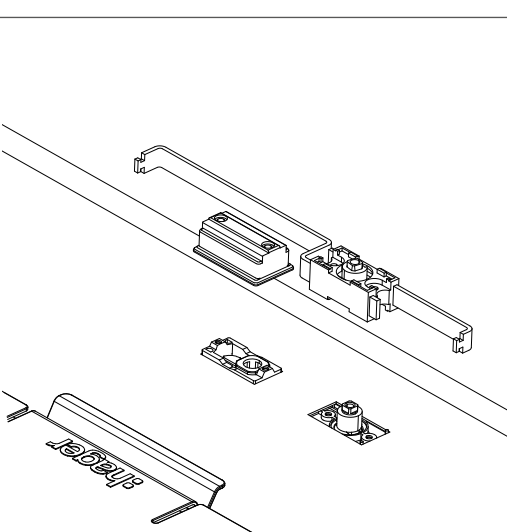
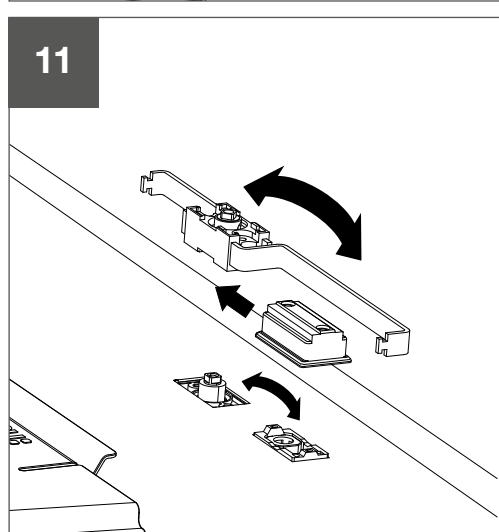
- 1 Remove the hinge pins in position ⑤.
- 2 Remove the door.
- 3 Remove the hinge screws in position ⑤.
- 4 Remove the rubber seals in position ②.
- 5 Install the hinge in position ②.
- 6 Remove the screws in position ⑦, ⑨.
- 7 Rotate the rod in 90°.
- 8 Remove the rod.
- 9 Remove the handle screws in position ⑧.
- 10 Remove the screws of the lock in position ⑩.

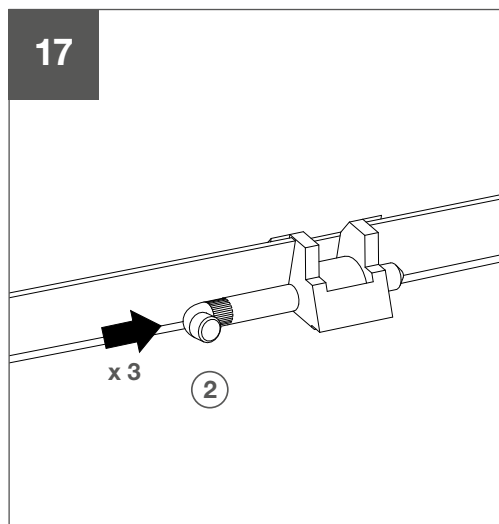
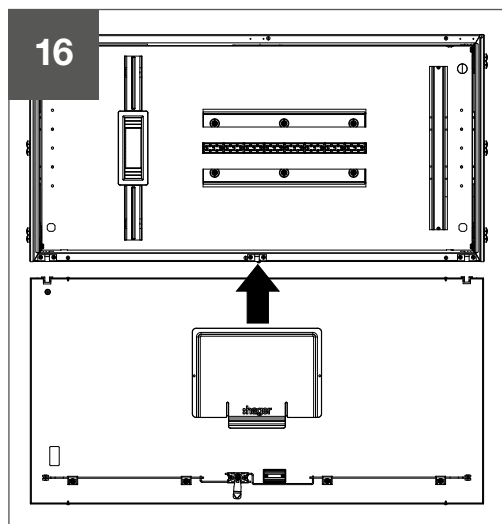
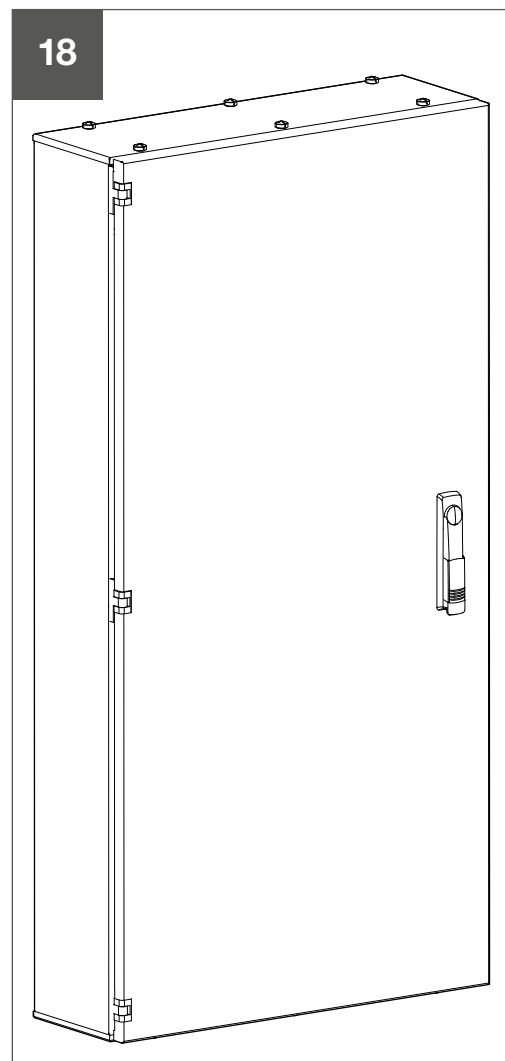
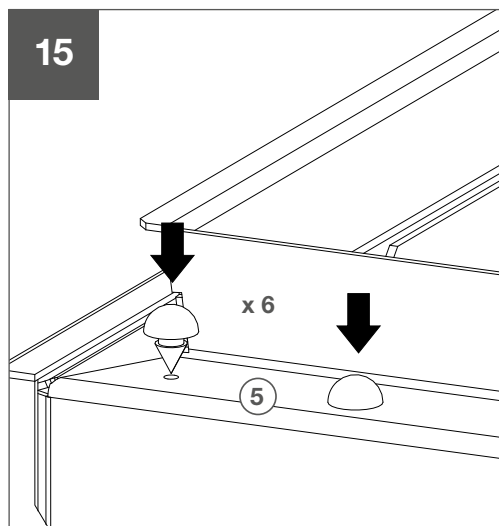
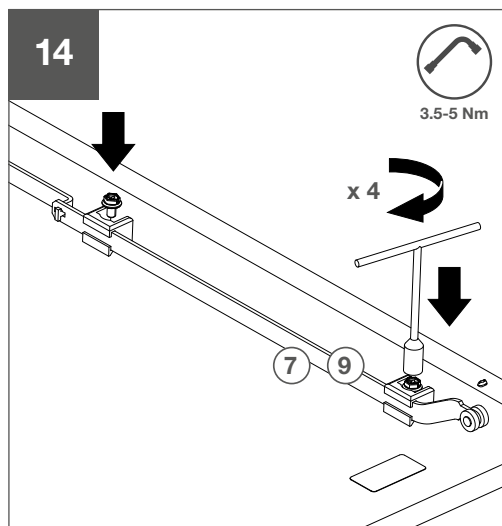




Assembly of the door in changed opening orientation

- ① Rotate the lock vertically 180° and the handle horizontally 180°.
- ② Install the handle screws in position ⑧ and the screws of the lock in position ⑩..
- ③ Install the cranes.
- ④ Install the screws in position ⑦, ⑨.
- ⑤ Install the rubber seals in position ⑤.
- ⑥ Install the door.
- ⑦ Install the hinge pins in position ②.





Technical data



| | |
|---|--|
| Rated operational voltage U_N/U_e | 415 V AC, 50/ 60 Hz |
| Rated insulation voltage U_i | 690 V AC, 50/ 60 Hz |
| Rated impulse withstand voltage U_{imp} | 4 kV |
| Degree of protection: | |
| - IP2XC | opened door and sealed cable entries (with full compliment of devices pole fillers fitted) |
| - IP43..... | closed door and sealed cable entries |
| Stationary / movable | stationary only |
| Type of construction | fixed |
| Electrical connections | F (fixed) |
| Forms of internal separation | 2a |
| Measure for protection of persons | direct/ indirect contact by the protective circuit |
| Service conditions | indoor use only |
| Pollution degree | 2 |
| Mechanical impact | IK10 |
| Rated Current (I_{na}) | |
| | 160 A Swd: 160 A c/w MCB's |
| | 160 A c/w RCBO's |
| | 250 A Swd: 250 A c/w MCB's |
| | 160 A c/w RCBO's |
| | 160 A MCCB: 160 A c/w MCB's |
| | 160 A c/w RCBO's |
| | 200 A MCCB: 200 A c/w MCB's |
| | 160 A c/w RCBO's |

| | |
|---|---|
| Rated current of an outgoing circuit (I_{nc}) | MCB 0.5 - 63 A (marked rated current on device) |
| | RCBO 6 - 50 A (marked rated current on device) |

| | |
|--|-------------------|
| Electromagnetic compatibility (EMC) classification | EMC Environment B |
|--|-------------------|

External design.....wall-mounted, surface type, enclosed assembly

The type of constructionfixed parts

DBO TypeType B DBO

Wired according toAS/NZS 3000

Earth and Neutral Links

Neutral bars..... integrated

Neutral bar size (mm)..... 12.5 x 16

Split neutralas standard

Earth bars on both sides (fixed load)
on one side (split load)

Earth bar size (mm)..... 12.5 x 16

Earth and neutral bar tunnels.....single screw tunnel Ø 7 mm

(up to 25 mm² cable) solid

and stranded conductors

Earth and neutral bar connection single stud

(M6 = 2.5 Nm)

Earth and neutral bar rating..... 250 A