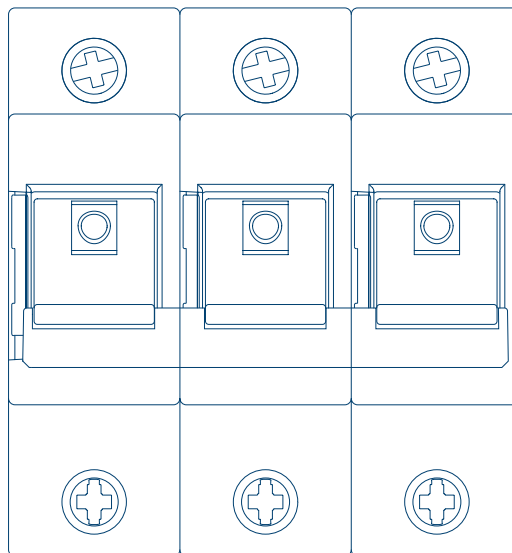


Switches and protective devices

Switch dis- connector D0



Fuse switch disconnecter D02

L7xM, L73MxxA



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1 Safety instructions



Qualified electricians

The assembly, installation and maintenance of electronic devices may only be carried out by a qualified electrician in accordance with the relevant installation standards, guidelines, regulations, safety and accident prevention regulations of the country.

Only copper cables should be used for the electrical connection.

The rated load factor (RDF) according to IEC EN 61439-1 must be observed for switchgear and control gear equipment.

Failure to comply with these installation instructions may result in damage to the device or system, or may cause injuries to people.

2 Dimensions and required tools

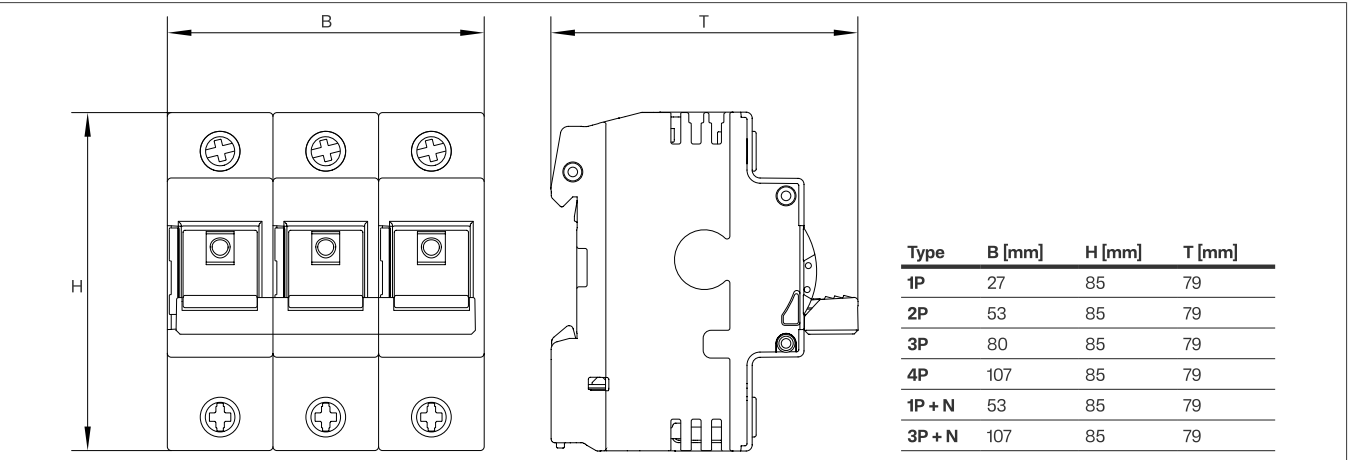


Fig. 1: Dimensions



Fig. 2: Tool overview

3 Function

Key switches/key push-buttons are used to prevent unauthorised operation of the connected loads.

3.1 Intended use

- Suitable for fuse links insize D02 (or D01 with reducing spring)
- For horizontal installation on DIN rail according to IEC/EN 60715 [35 mm]
- For indoor use only

3.2 Product characteristics

- Signal LED for each phase to indicate the tripped fuse
- Load switch can be locked in the **OFF** position
- Load switch can be sealed in the **ON/OFF** position

4 Operation

Switch the device on/off

- Push the load switch (2) upwards to position **I** (ON).
The connected loads are supplied with current.
- Push the load switch (2) downwards to position **0** (OFF).
The connected loads are disconnected from the mains.

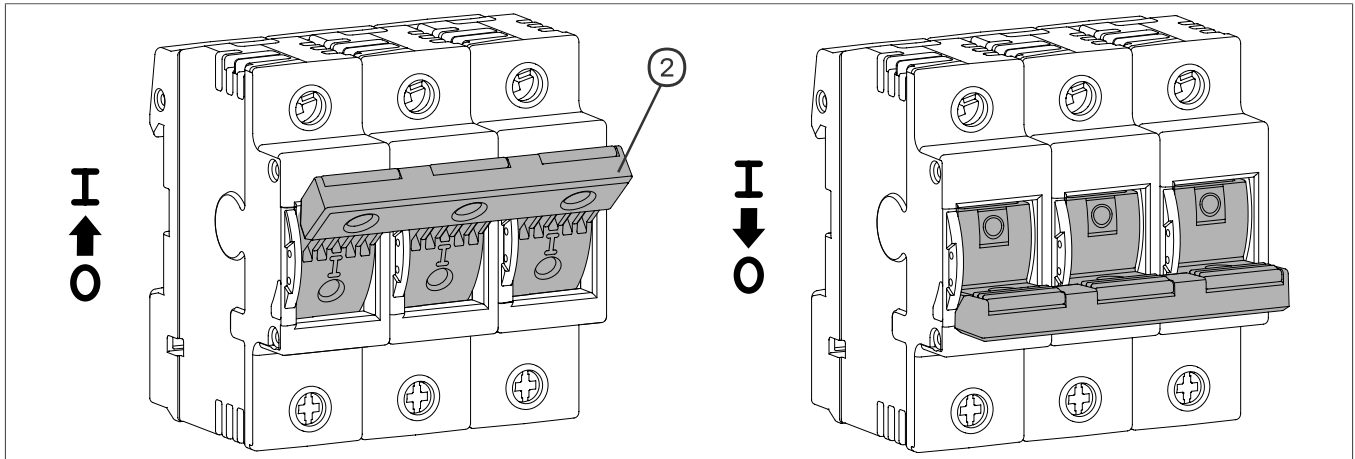


Fig. 3: Operation of the device

- (2) Load switch

Lock the device

- 1 Push the load switch (2) downwards (A) to position **0** (OFF).
 - 2 Pull out the fuse plug (7) slightly (B).
 - 3 Attach and lock the padlock (not included in the scope of delivery).
- The device is locked against being restarted.

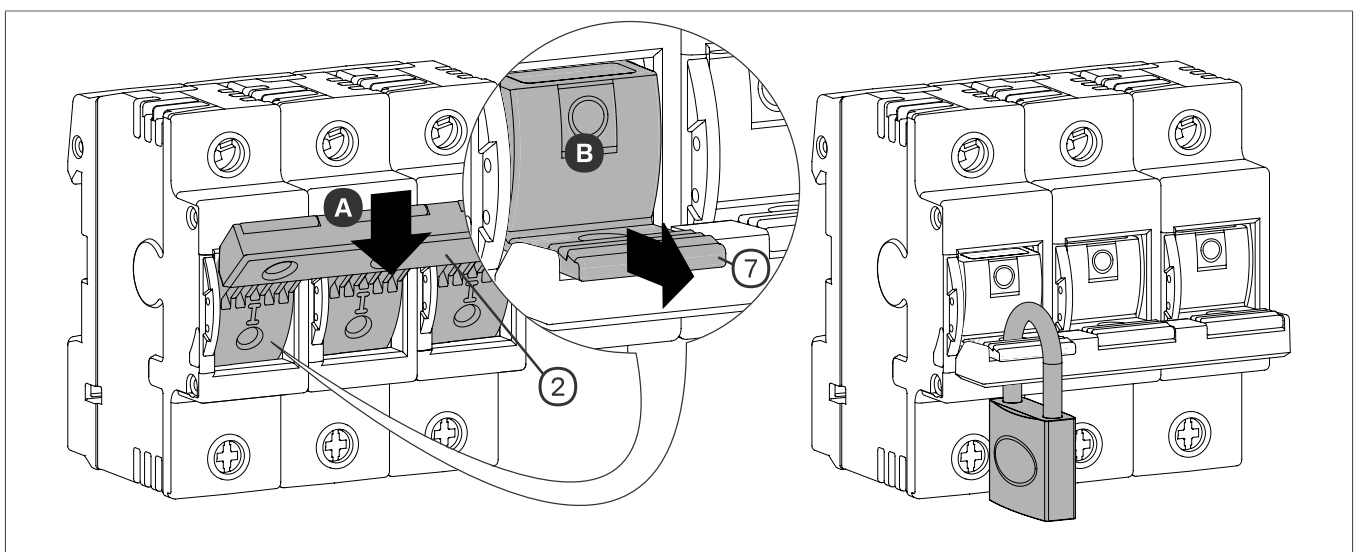


Fig. 4: Operating lock

- (2) Load switch
(7) Fuse plug

5 Information for qualified electricians

5.1 Installation and electrical connection



Danger

Electric shock when touching live parts!
Electric shock can lead to death!

- Before working on the device, disconnect all the cables and lock the switching devices in the disconnected position. Consider all circuits that could supply the device with dangerous voltages.
- Cover all live parts in the vicinity.

Assemble/disassemble the device

- Attach the rear of the device to the top of the DIN rail and push it down until it snaps into place.

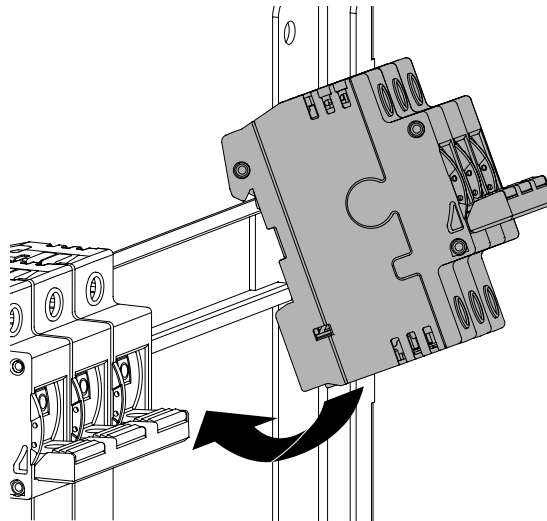


Fig. 5: Installation

To disassemble:

- 1 Insert a screwdriver into the tab at the bottom of the device and pull down **A**.
- 2 Fold up the device **B** and remove it from the DIN rail.

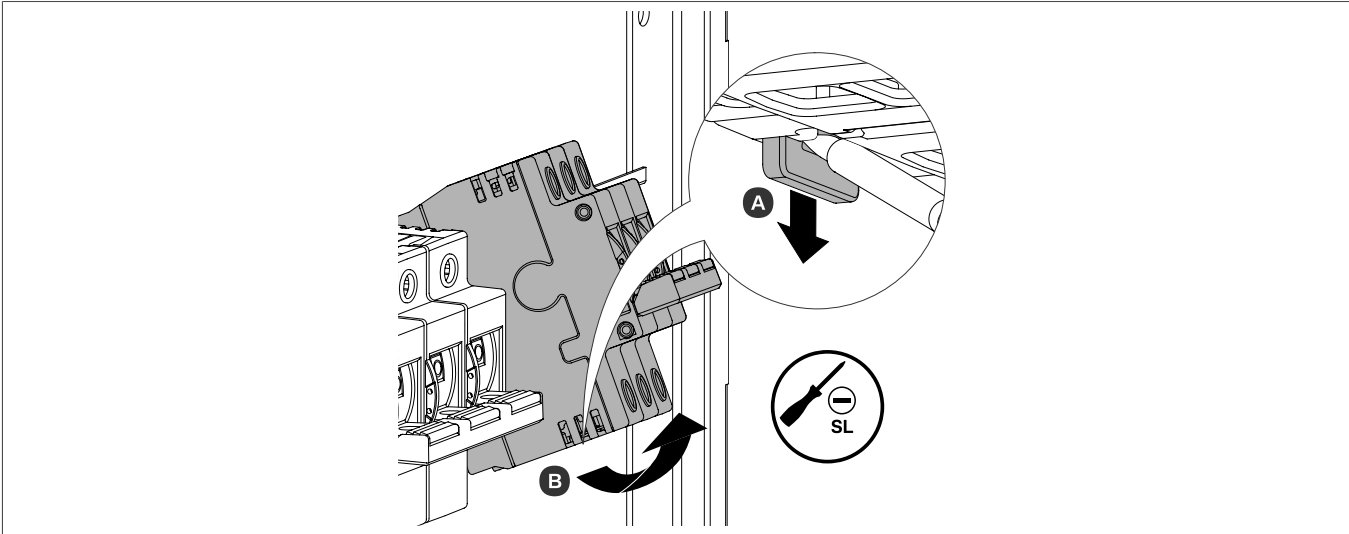


Fig. 6: Dismantling

Connecting the device

☑ The device has a double terminal on the input side.

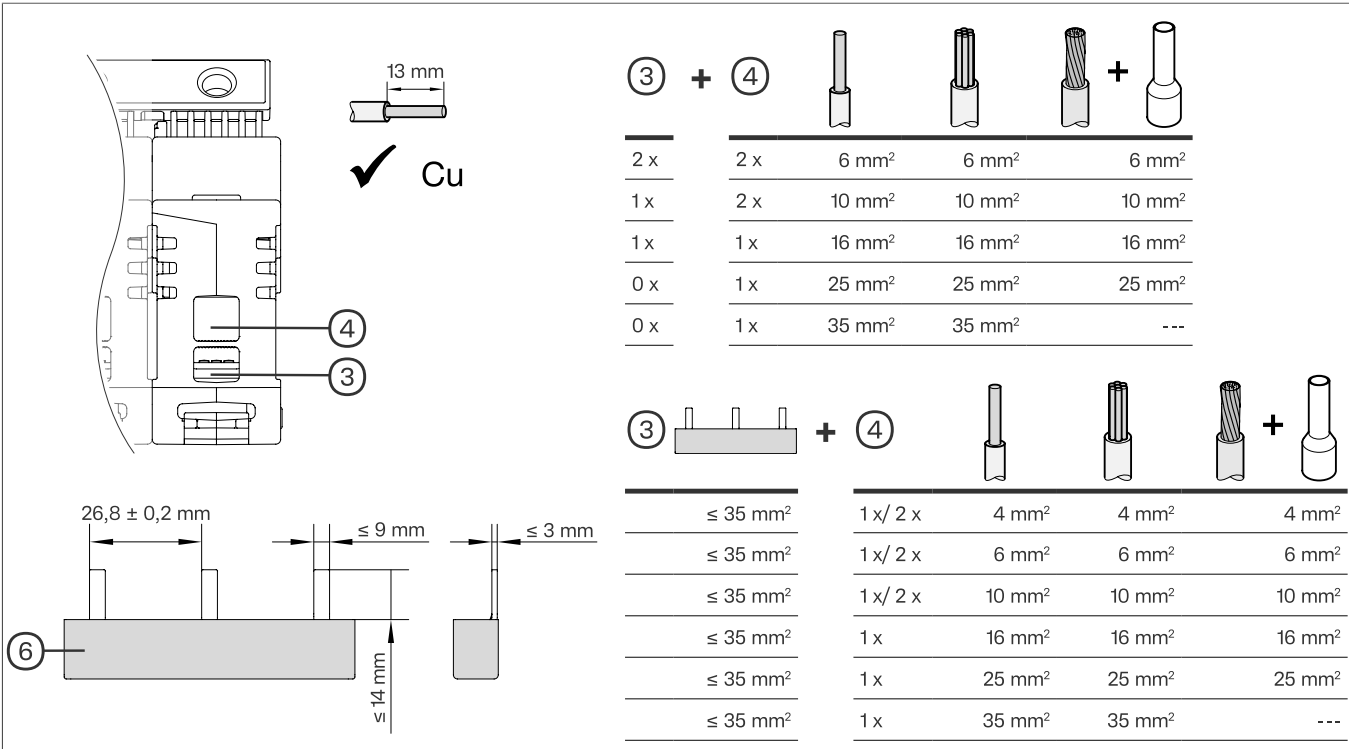


Fig. 7: Double input terminal

- ③ Rear terminal
- ④ Front terminal
- ⑥ Busbar ^[1]

• If several devices are mounted side by side on a DIN rail, attach a suitable busbar (⑥) (≤ 35 mm², see Fig. 7: Double input terminal) to the rear terminals (③) to loop through the supply cables.

^[1] (not included in the scope of delivery)

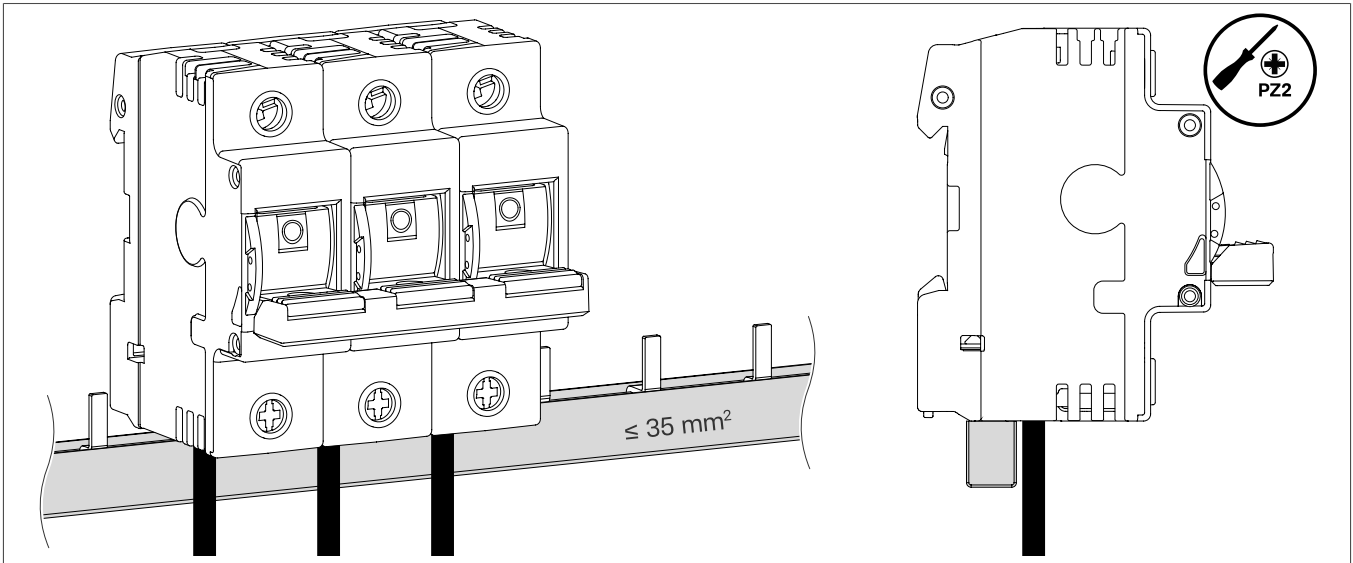


Fig. 8: Phase busbar and connection conductor

Or:

- Connect cables with a suitable cross-section (Fig. 7: Double input terminal) from device to device at the rear input terminals (3).
- Route the supply cables to the front input terminals (4). Their cross-section must correspond to that of the rear input terminals (3).

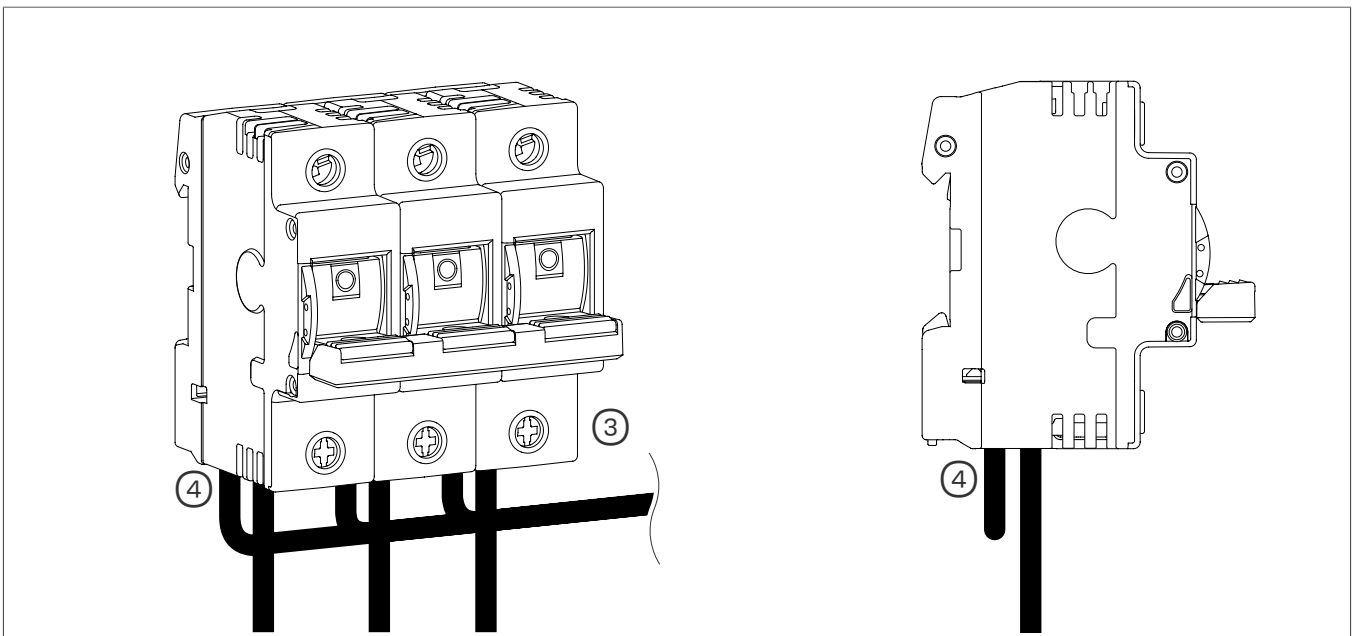


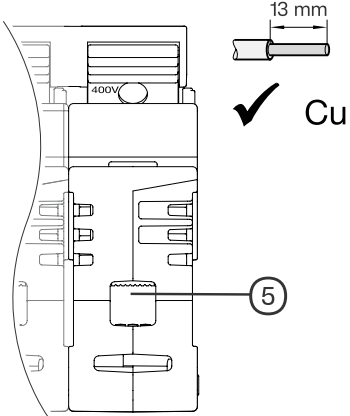
Fig. 9: Connection conductor

- ③ Rear terminal
- ④ Front terminal



Notice

All conductor ends to the input and output terminals must be stripped to 13 mm.



	⑤			
1...4 x	1,5 mm ²	1,5 mm ²	1,5 mm ²	
1...4 x	2,5 mm ²	2,5 mm ²	2,5 mm ²	
1...4 x	4 mm ²	4 mm ²	4 mm ²	
1...3 x	6 mm ²	6 mm ²	6 mm ²	
1 x	10 mm ²	10 mm ²	10 mm ²	
1 x	16 mm ²	16 mm ²	16 mm ²	
1 x	25 mm ²	25 mm ²	25 mm ²	
1 x	35 mm ²	35 mm ²	---	

Fig. 10: Output terminal

⑤ Single terminal on the output side

- Make sure that all outgoing cables have a suitable cross-section ([Fig. 10: Output terminal](#)) and screw them to the output terminals (⑤) in the same way.
- Install fuses as described in [Fuse replacement](#).

Check the connection of the device

- ☑ The load switch (2) is in position 0 (OFF).

1 Perform an insulation measurement in accordance with IEC 61557-2-1.

If the measured insulation resistance R_{ISO} is $\geq 1.0 \text{ M}\Omega$, the device can be switched on.

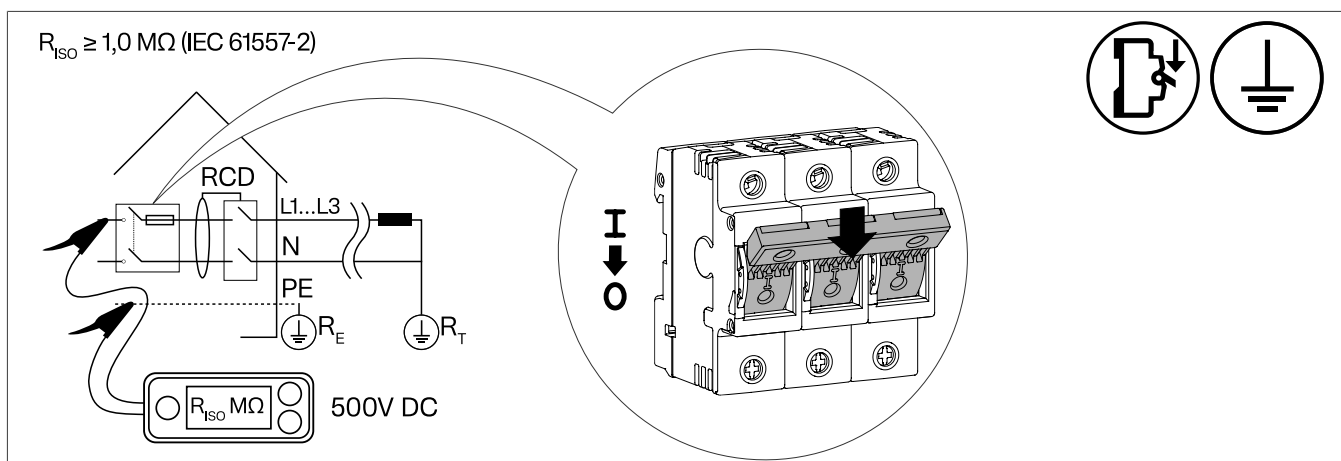


Fig. 11: Insulation measurement

5.2 Fuse replacement

The fuse switch disconnecter has signal LEDs that flash red when fuses are tripped. The corresponding fuse link must be replaced.

- ① Push the load switch (2) downwards to position 0 (OFF).

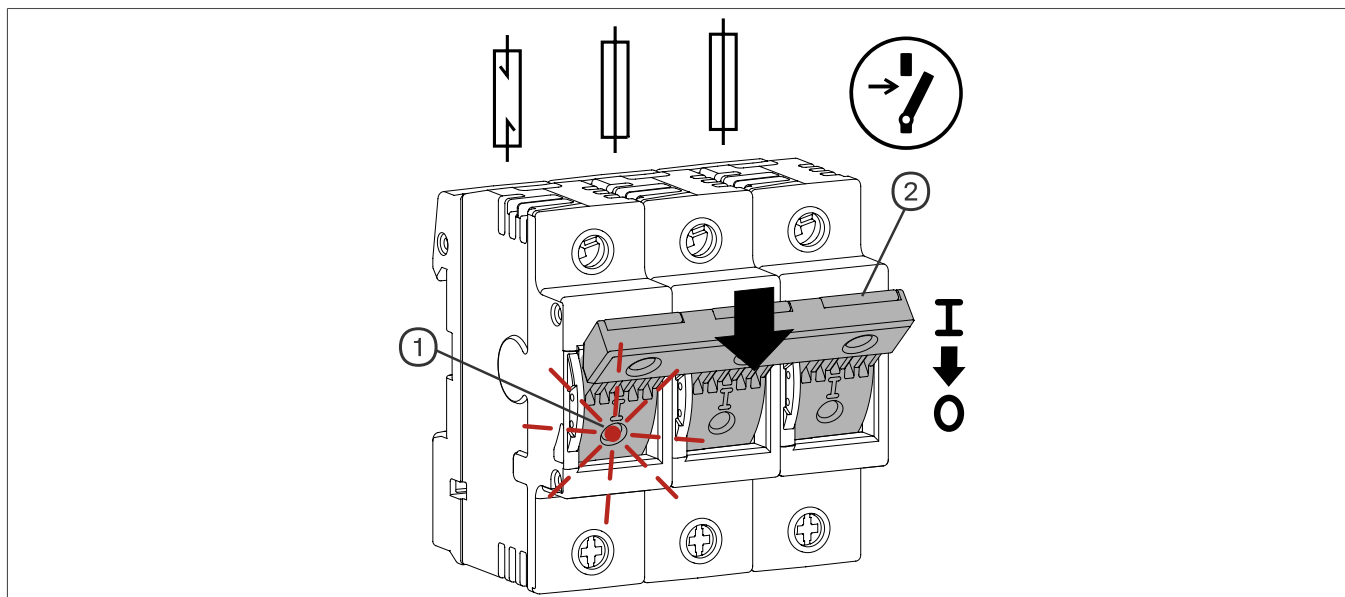


Fig. 12: Error signal — faulty fuse

- ① Signal LED per phase (opto-electronic)
- ② Load switch
- ⑦ Pull out the fuse plug (7) of the tripped phase connection.

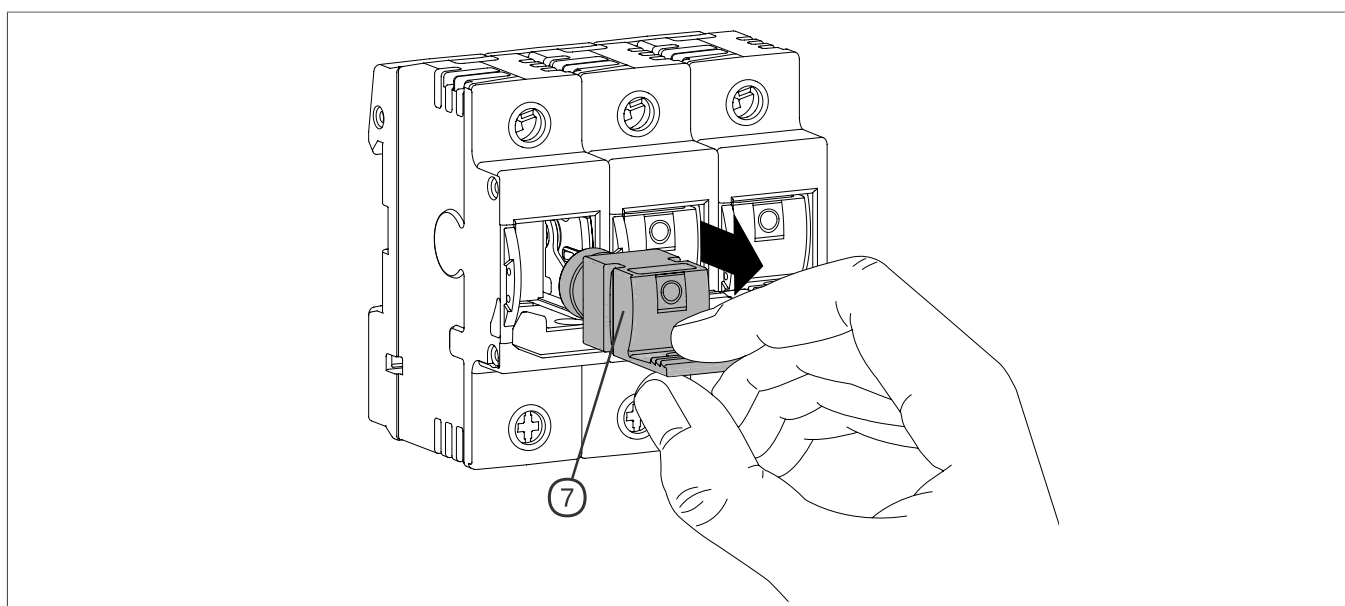


Fig. 13: Pull out the fuse plug

- ⑦ Fuse plug



Caution

Risk of burns! A switched-off fuse link can reach temperatures > 100°C.
For this reason, pull out the fuse link on the fuse plug (7) without directly touching it.

- ③ Remove the defective fuse link.
- ④ Insert **A** the fuse link in size D02 (9) into the fuse plug (7). A fuse link in size D01 must only be used with a suitable reducing spring (10).
Optionally, a fitting sleeve (8) can also be used.
- ⑤ Re-insert the fuse plug **B**.

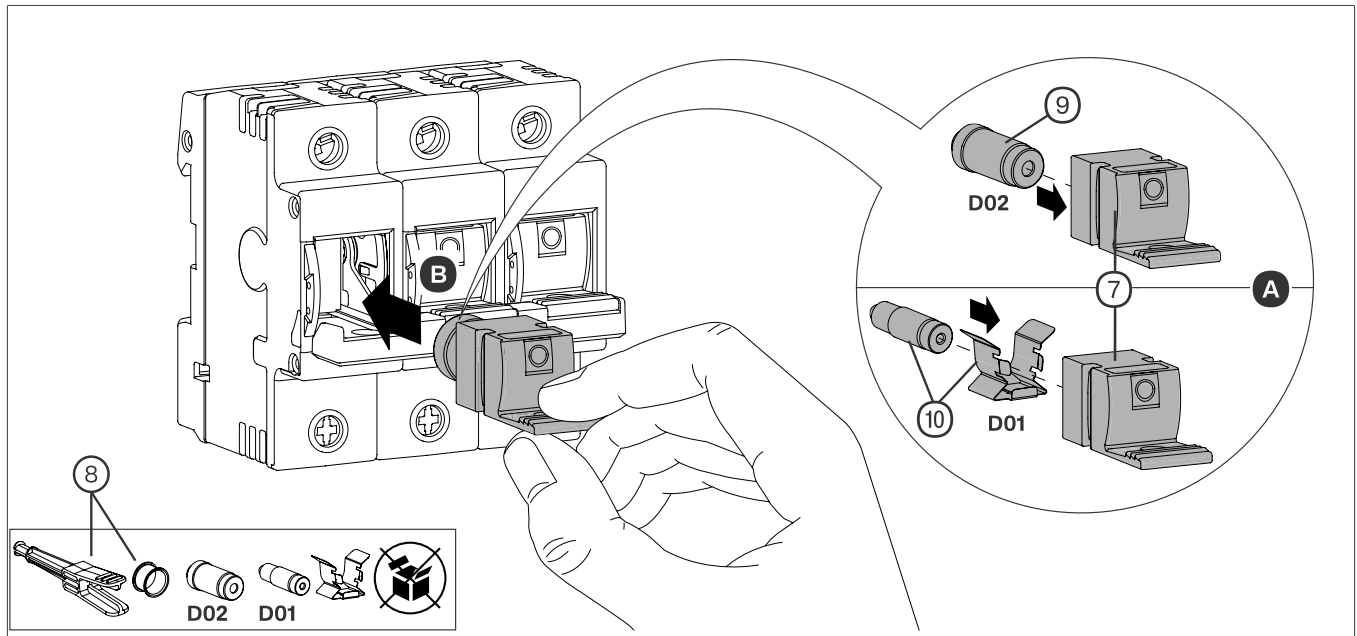


Fig. 14: Replace the fuse link

- ⑦ Fuse plug
- ⑧ Fitting sleeve and pliers ^[1]
- ⑨ Fuse link D02^[1]
- ⑩ Fuse link D01 with reducing spring^[1]



Note

Ensure that no fuse link with a higher rated current than is permissible for the respective circuit is used; appropriate fitting sleeves ^[1] (8) must be inserted using special pliers ^[1].

- ⑥ Push the load switch (2) upwards to position I (ON).

^[1] are not included in the scope of delivery.

6 Appendix

6.1 Technical data

Rated voltage U_e	230/400 V
Rated current I_e	63 A
Frequency	50 Hz
Rated impulse-withstand voltage U_{imp}	6 kV
Category of use:	
- AC-22B	230/400 V (U_e), 63 A (I_e)
Fuse power loss P_n	Max. 5.5 W
Conductor cross-section	1.5 ... 35 mm ²
Degree of contamination	3
Degree of protection:	
- With fuse plugs inserted	IP20C
Operating temperature	-25 ... +40°C
Storage temperature	-25 ... +60°C



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