ACCESSORIES FOR PV, PNA, PHNA

MD-M3

Electronic signalling of fuse state

- It can be used for all types and sizes of fuse-links.
- Monitoring of fuse-links state in fuse switch-disconnectors and fuse-bases.
- Auxiliary contact without power supply → contact opened. Auxiliary contact with power supply → contact closed. Fuse-link remelting in circuit → contact opened.

- The devices are designed as modular for 45 mm cutout in the switchboard cover plate.
- Mounting on DIN rails according to EN 60715 (steel rail recommended).

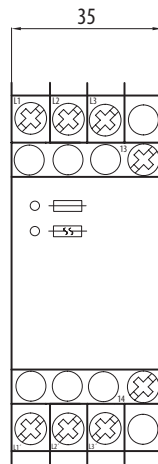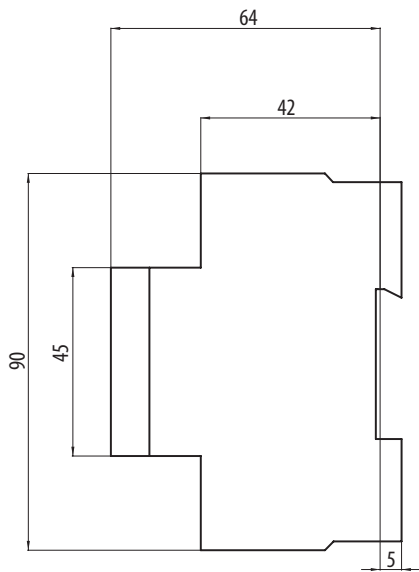| Type	Order code	Weight [kg]	Package [pcs]
MD-M3	OEZ:38614	0.15	1

Specifications

Type		MD-M3
Standards		IEC 60255 DIN VDE 435-110
Approval marks		C ϵ
Rated operating voltage	U_e	AC 250 V
Rated operating current	I_e	4 A
Rated control voltage	`U_c	AC 3x 415 V
Operating range		$0.8 \div 1.1 \times U_c$
Rated frequency		$50 \div 400$ Hz
Input impedance		$> 1\,000\ \Omega/V$
Max. permitted backwards power supply		90 %
Response/relase time		< 50 ms
Rated impulse withstand voltage	U_{imp}	> 4 kV
Electrical endurance	AC-15	1.5×10^5
Mechanical endurance		$> 10^8$
Degree of case protection/terminal block		IP40/IP20
Number of contacts		1
Connection cross-section	solid	max. 2x 2.5 mm²
	stranded with end sleeve	min. 1x 0.5 mm²
Operating ambient temperature		$-20 \div +60\,°C$
Climatic resistance	according to EN 60068-1	20/060/04

[1] The internal resistance of measuring circuits of the fuse monitor is in the MΩ band, therefore when fuse is missing or it is defective, the conditions concerning the contact voltage are met (according to IEC 974-1, internal resistance >2 000 Ω/V). In order to switch off, the main back-up circuit should be disconnected.
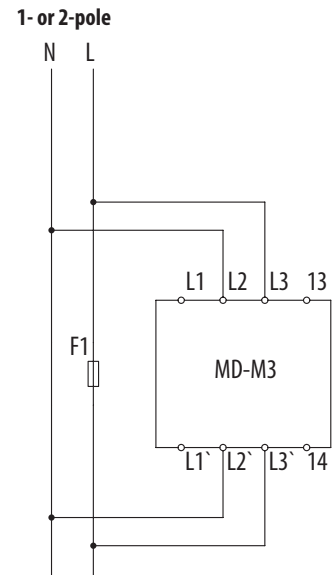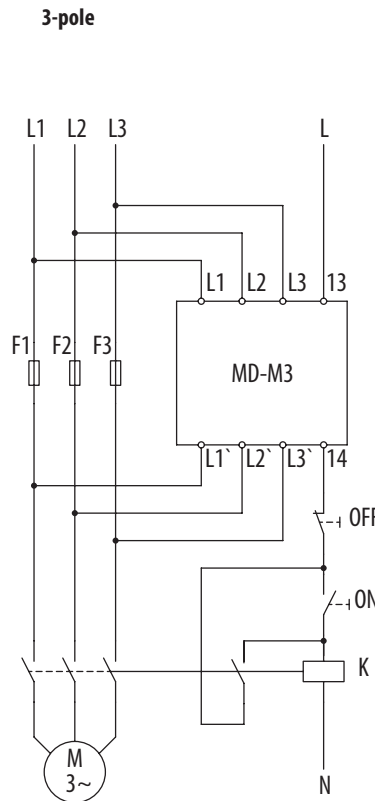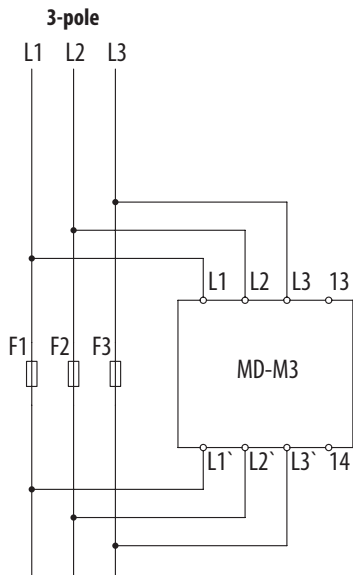
Dimensions

Diagram

L1 L2 L3 14

AC1 250 V 4 A

L1´ L2´ L3´ 13

Connection

3-pole

L1 L2 L3

L1 L2 L3 13

F1 F2 F3

MD-M3

L1`  L2` L3` 14

3-pole

L1 L2 L3   L

L1 L2 L3 13

F1 F2 F3

MD-M3

L1`  L2` L3` 14

OFF

ON

K

M
3~

N

Practical application, e.g. automatic disconnection
and lock of turning-on of the three-phase motor
when there is drop-out of one or several fuse-links.

L1/L2/L3

13-14

1- or 2-pole

N L

L1 L2 L3 13

F1

MD-M3

L1`  L2` L3` 14
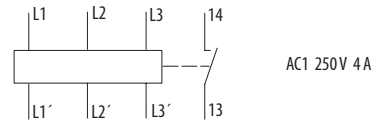
[1] It is possible to check the second fuse-
link in the same or different phase at the
terminals L3- L3´.