

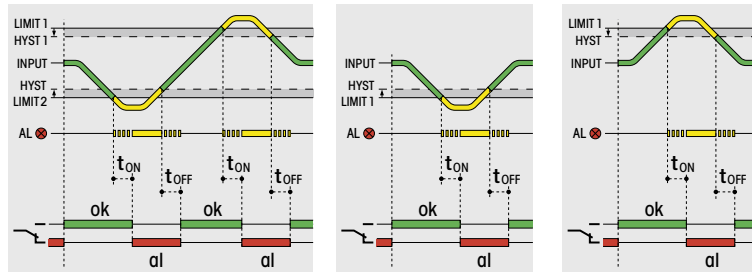
Multifunction monitoring relay AC/DC, three phase
DIN Rail mounting according to DIN 43 880

Type: MRM32/...V

Multifunctional monitoring relay for simultaneous measurement of current and voltage and monitoring of U, I, P, cosφ and f and Δφ. Alarm delay setting. Alarm LED. Display for multimeter function, alarm signal and interactive parameter setting.

2 change-over alarm contacts 5 A 250 V. Comfortable parameter setting.

Monitoring function



gn ok ye fail rd alarm Alarm delay: tOFF, tON

Measuring circuit data

Voltage setting ranges AC / DC	0 ... 480 V / 0 ... 700 V
Current setting ranges AC / DC	0 ... 5 A
Frequency	DC, AC 16 ... 100 Hz
Resolution U / I	100 mV / 1 mA
Accuracy	2 % ± 1 digit
Input resistance U / I	1 MΩ / 5 MΩ

Time data

Alarm delay setting time	0.1 ... 999.9 s
Reset time setting range	0.1 ... 999.9 s
Voltage failure buffering	ca. 30 ms

Contacts

Type / Material	2 CO / AgNi 0.15
Rated operational current	6 A
Max. inrush current	15 A
Max. switching voltage	250 V
Max. AC load AC-1 (Fig.1)	1250 VA
Max. DC load DC-1, 24 V / 220 V (Fig.2)	120 W / 25 W
Recommended min. contact load	10 mA / 10 V

Power supply

	UC12-48V	UC110-240V
Nominal voltage AC/DC	12 ... 48 V	110 ... 240 V
Operating voltage range	9.6 ... 57.6 V	88 ... 288 V
AC frequency	16 ... 63 Hz	16 ... 63 Hz
Power consumption	2 W / 4 VA	2 W / 4 VA

Insulation

Test voltage open - contact	1 kVrms 1 minute
Test voltage between poles	2.5 kVrms 1 minute
Test voltage measuring input - contacts	4 kVrms 1 minute
Test voltage measuring input - power supply	4 kVrms 1 minute

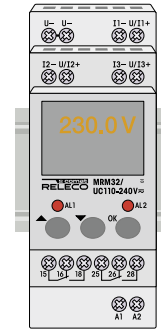
General specifications

Ambient temperature storage /operation	-40 ... +85 °C / -25 ... +60 °C
Mechanical life of contacts	30 x 10 ⁶ operations
Conductor cross section	Stranded wire 2.5 mm ² , 2 x 1.5 mm ²
Ingress protection degree	IP20, (electronics: IP40)
Max. screw torque	0.4 Nm
Housing material	Lexan EXL 9330
Weight	130 g

Standard types

AC/DC 12-48 V, 15...60 Hz
AC/DC 110-240 V, 15...60 Hz

MRM32/UC12-48V
MRM32/UC110-240V



Connection diagram

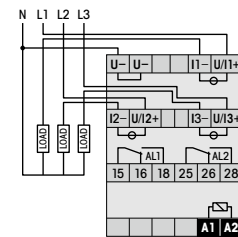


Fig.1 AC voltage endurance

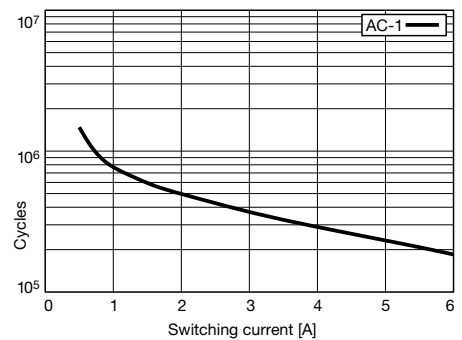
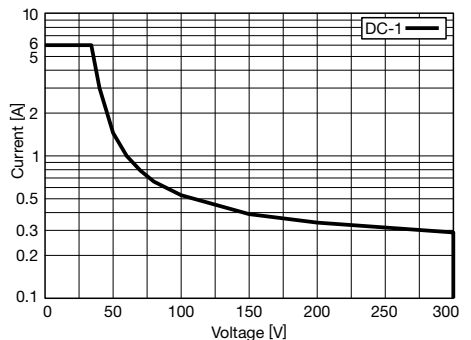
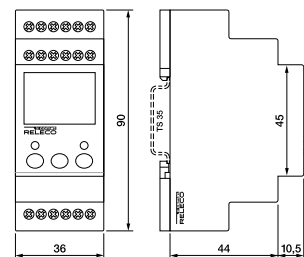


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

