MRU11

Voltage monitoring relay AC/DC, single phase
## DIN Rail mounting according to DIN 43 880

comat RELECO *by comat*

Type: MRU11/…V

Voltage monitoring relay with over- and under voltage thresholds up to 700 V.
Alarm delay setting. Alarm LED. Display for voltmeter function, alarm signal
and interactive parameter setting.

1 change-over alarm contact 5 A 250 V. Comfortable parameter setting.

Monitoring function

gn ok (green)   ye fail (yellow)   rd alarm (red)   Alarm delay: t_{OFF}, t_{ON}
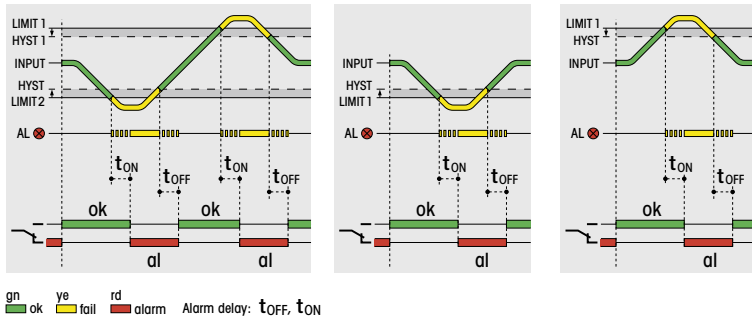
Measuring circuit data

Over/under voltage setting ranges AC / DC	0 … 480 V / 0 … 700 V
Frequency	DC, AC 16 … 100 Hz
Resolution	100 mV
Accuracy	2 % ±1 digit
Input resistance	1 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	1 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

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

General specifications

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Ambient temperature storage /operation	-40 … +85 °C / -25 …+60 °C
Mechanical life of contacts	30×10^6 operations
Conductor cross section	Stranded wire 2.5 mm², 2 x 1.5 mm²
Ingress protection degree	IP20, (electronics: IP40)
Max. screw torque	0.4 Nm
Housing material	Lexan EXL 9330
Weight	130 g

Standard types

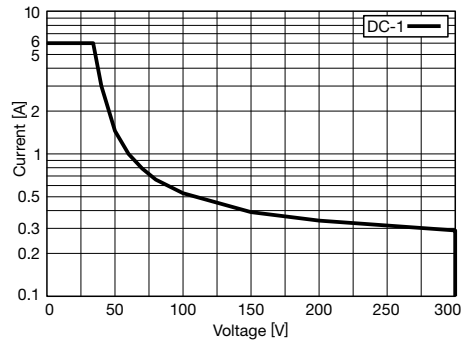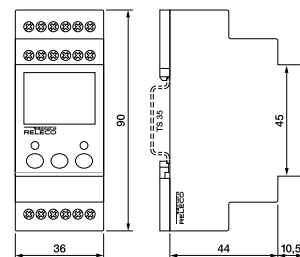|	
AC/DC 12-48 V, 15…60 Hz	MRU11/UC12-48V
AC/DC 110-240 V, 15…60 Hz	MRU11/UC110-240V
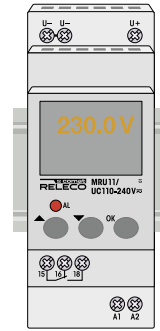
Connection diagram
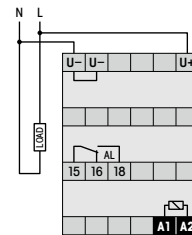
Fig.1 AC voltage endurance
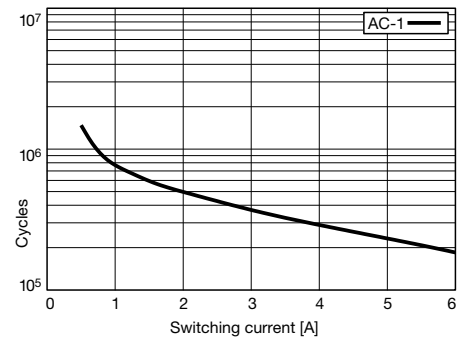
Fig. 2 DC load limit curve

Dimensions [mm]

Technical approvals, conformities

CE   RoHS 2002/95/EC

This issue replaces all previous issues. Availability, errors and specifications subject to change without notice.