MRU11
Voltage monitoring relay AC/DC, single phase
DIN Rail mounting according to DIN 43 880

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

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
Nominal voltage AC/DC 12 … 48 V
Operating voltage range 9.6 … 57.6 V
AC frequency 16 … 63 Hz
Power consumption 2 W / 4 VA

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

General specifications
Ambient temperature storage /operation -40 … +85 °C / -25 … +60 °C
Mechanical life of contacts 30 x 10⁶ 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

Technical approvals, conformities

Dimensions [mm]

Connection diagram

Fig.1 AC voltage endurance

Fig. 2 DC load limit curve

Standard types
AC/DC 12-48 V, 15…60 Hz
AC/DC 110-240 V, 15…60 Hz
MRU11/UC12-48V
MRU11/UC110-240V