MRI32

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

Type: MRI32/…V
Current monitoring relay with over- and under current thresholds up to 5 A.
Alarm delay setting. Alarm LED. Display for voltmeter function, alarm signal
and interactive parameter setting.
2 change-over alarm contacts 5 A 250 V. Comfortable parameter setting.

Monitoring function

Measuring circuit data
Over/under current setting ranges AC / DC 0 ... 5 A
Frequency DC, AC 16 ... 100 Hz
Resolution 1 mA
Accuracy 2 % ±1 digit
Input resistance 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. DC 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 UC12-48V
Operating voltage range 12 ... 48 V
AC frequency 9,6 ... 57,6 V
Power consumption 16 ... 63 Hz
2 W / 4 VA

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

Standard types
AC/DC 12-48 V, 15...60 Hz MRI32/UC12-48V
AC/DC 110-240 V, 15...60 Hz MRI32/UC110-240V

Connection diagram

Fig.1 AC voltage endurance

Fig. 2 DC load limit curve

Dimensions [mm]

Technical approvals, conformities