

Monitoring current relay

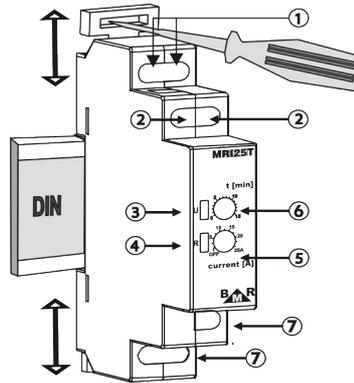
1. Device description

MRI25T relay controls AC current connected to the terminals. Device can be set for current range from 2,5 A to 25 A. Measuring part is galvanic isolated from the current connection terminal. Relay has one double-throw output contact 16 A.

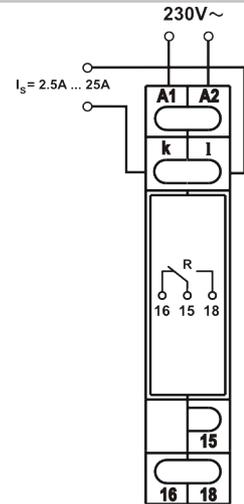
Terminal description:

- ➊ Supply voltage
- ➋ Terminals k(-), l(+) of measured current
- ➌ Supply voltage indication
- ➍ Output indication
- ➎ Control current I_s setting
- ➏ Time set
- ➐ Outputs

Terminal placement:

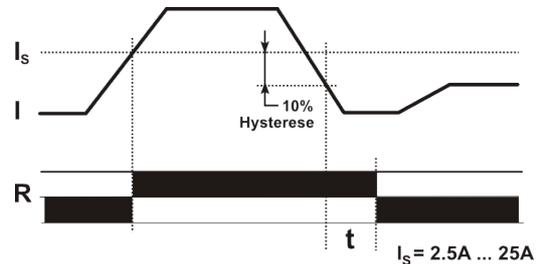


Connection diagram:



2. Function

If the set current level is exceeded, output relay will make connection. If the measured current level goes under the set level minus fix hysteresis 10%, output relay will disconnect. Hysteresis reduces relay bouncing at threshold limit of current values. Position OFF disables current measurement, output is closed and yellow LED is off. Contact no. 16 – 15 is closed.



3. Technical features

Parameter	Value
Supply voltage:	230 VAC
Supply terminals:	A1, A2
Current measuring terminals:	k, l
Current measuring range:	2,5 – 25 A (AC)
Time setting:	0 ... 15 min
Maximum load capability of current terminal:	max. 32 A
Power consumption:	max. 1,5 VA
Number of functions:	1
Supply voltage indication:	green LED
Output indication:	yellow LED
Output parameters:	
Number and type of contacts:	1 x changeover contact
Nominal current:	16 A
Switching power:	max. AC 4000 VA
Trigger current:	30 A
Nominal voltage / max. switched voltage:	250 VAC / 440 VAC
Mechanical lifetime:	3 x 10 ⁷
Electrical lifetime:	1 x 10 ⁵ 250 VAC, 16 A
Others:	
Working temperature:	-20 .. +55 °C
Storage temperature:	-40 .. +70 °C
Working position:	any
Mounting:	IEC 60715 (DIN 35)
Protection degree:	IP 40 on panel / IP 20 terminals
Electrical strength:	4 kV
Electrical strength of measuring/supply terminal:	4 kV
Input wire diameter with/without cavern:	max. 2x1,5mm ² ; 1x2,5mm ² / max. 2x1,5mm ² ; 1x2,5mm ²
Weight:	75 g
Dimensions:	90 x 18 x 65 mm
Standards:	IEC 60255-6, IEC 61010