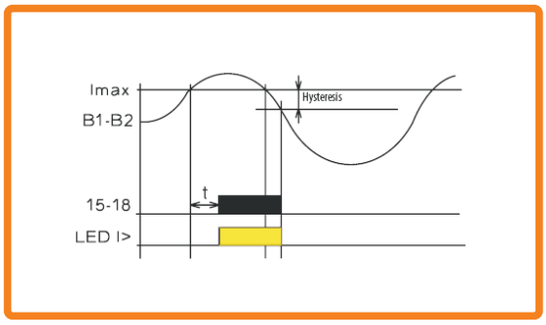
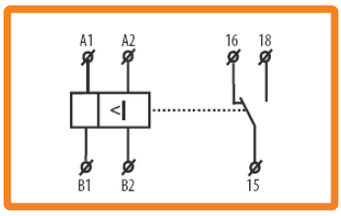
Monitoring current relay
MCR 515

- To monitor heating rods in shunts, heating cables, consumption of one-phase motors, indicates current flow
- Flexible adjustment by potentiometer, choise of 6 ranges: 0.05 - 0.5 A; 0.1 - 1 A; 0.2 - 2 A; 0.5 - 5 A; 0.8 - 8 A; 1.6 - 16 A
- Adjustable delay 0.5 - 10 s to eliminate short current peaks
- Possible to use current scanning from current transformer - up to 600 A
- Universal supply AC 24 - 240 V and DC 24 V
- Supply is not galvanically separated from measured current, it must be in the same phase
- Output contact: 1 x changeover 8 A
- 1-phase, 1-MODULE, DIN rail mounting

Function

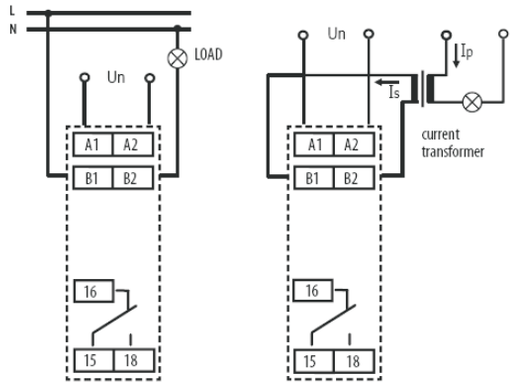


Symbol

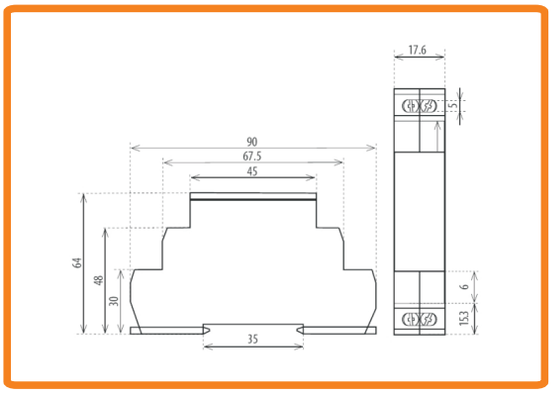


Connection

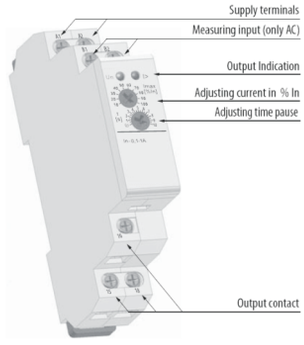
Example Connection:
MCR 515 with currenttransformer for current range increase



Dimensions



Description



Function description

Monitoring relay MCR 515 serves to monitor current level in one-phase AC circuits. Gradual setting of actuating current of monitoring relay enables many different applications. Output relay is in normal state open. After the set current level is reached, relay closes after the set delay (0.5-10 s). When returning from faulty to normal state there is a hystersis (5 %). Multi-voltage of this relay is an advantage. It is possible to monitor load which doesn´t have the same supply as monitoring relay MCR 515. Range of MCR 515 can be increased by an external current transformer.

Efficient installations

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Technical data	MCR 515
Supply circuit	
Supply terminals	A1 - A2
Supply voltage	AC 24 - 240 V, DC 24 V (AC 50 - 60 Hz)
Consumption	max. 1.5 VA
Supply voltage tolerance	-15 % ; + 10 %
Measuring circuit	
Load	between B1 - B2
Current range	AC 0.5 - 5 A (applicable also for current transformer)
Max. permanent current	5 A
Inrush overload < 1 ms	100 A
Current adjustment	potentiometer
Time delay	adjustable 0.5 -10 s
Accuracy	
Setting accuracy (mechanical)	5 %
Repeat accuracy	<1 %
Temperature dependancy	<0.1 % / C
Limit values tolerance	5 %
Hysteresis (fault to OK)	5 %
Output	
Number of contacts	1 x changeover (AgNi)
Rated current	8 A / AC1
Breaking capacity	2500 VA/ AC1, 240 W / DC
Output indication	green / red LED
Other information	
Operating temperature	-20 ... +55 °C
Storage temperature	-30 ... +70 °C
Electrical strenght	4 kV (supply - output)
Operating position	any
Mounting	DIN rail EN 60715
Protection degree	IP 40 from front panel
Overvoltage category	III.
Pollution degree	2
Max. cable size (mm^2)	solid wire max. 2x2.5 or 1x4
Dimensions	90 x 17.6 x 64 mm
Weight	58 g
Standards	EN 60255-6, EN 61010-1

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