

Current monitoring relay PRI-51

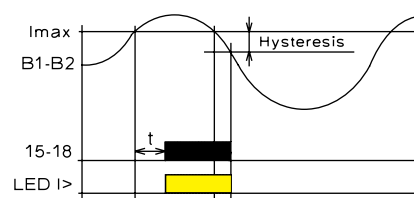
Advantages

- To monitor heating of rods in shunts, heating of cables, to indicate current flowing, to monitor consumption of one-phase electrical loads
- 1-phase, 1-module, DIN rail mounting
- Universal supply voltage AC 24 V - 240 V and DC 24 V
- Output contact: 1x changeover 8 A/AC1
- Supply is galvanically separated from measured current
- Adjustable delay 0,5 - 10 s to eliminate short current peaks
- Fluent adjusting actuating current via potentiometer, choice of 5 ranges: AC 0.1-1 A, AC 0.2-2 A, AC 0.5-5 A, AC 0.8-8 A, AC 1.6-16 A, AC 0.1 - 10 A

Technical data

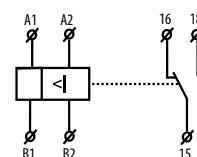
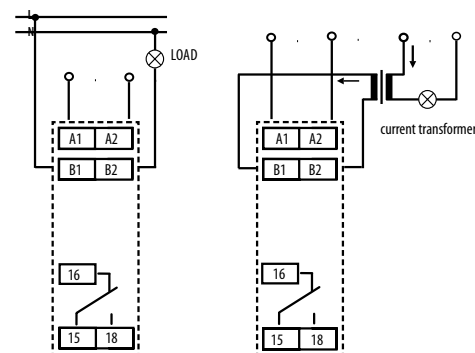
	PRI-51					
Supply circuit						
Supply	A1-A2					
Universal supply	24-240V AC / 24 V DC (50-60 Hz AC)					
Consumption	max. 1,5 VA					
Supply voltage tolerance	-15% - +10%					
Measuring circuit						
Load	between B1 - B2					
Current ranges	PRI51/1	PRI51/2	PRI51/5	PRI51/8	PRI51/16	PRI-51/0.1-10
	AC	AC	AC	AC	AC	AC
	0.1-1 A	0.2-2 A	0.5-5 A	0.8-8 A	1.6-16 A	0.1 - 10 A
Inrush overload <1ms	100 A					
Max. permanent current	1A	2A	5A	8A	16A	10A
Time setting	potentiometer					
Time ranges	0.5 s-10 s					
Setting accuracy - mechanical	5%					
Time deviation	< 1 %					
Limit values tolerance	5%					
Temperature coefficient	< 0.1 % / °C					
Hysteresis	5%					
Output						
Number of contacts	1 x changeover (AgNi)					
Rated current	8 A / AC1					
Breaking capacity	2500 VA / AC1, 240W / DC					
Output indication	green / red LED					
Controlling						
Operating temperature	-20...+55 °C					
Storage temperature	-30...+70 °C					
Electrical strength	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	2,5 mm ²					
Dimensions	90 x 17,6 x 64 mm					
Standards	EN 60255-6, EN 61010-1					

Functions



Connection

Example connection: PRI-51 with current transformer for current range increase

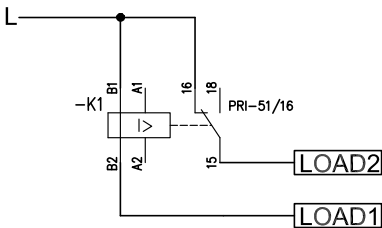
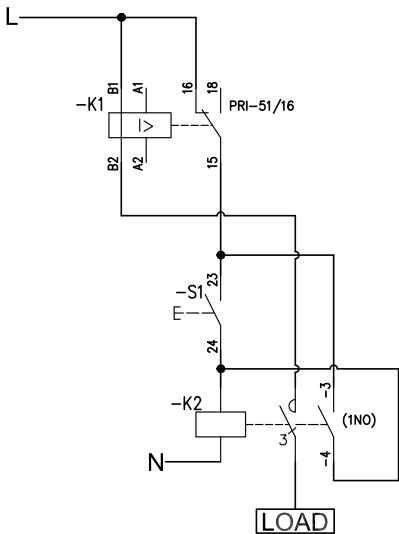
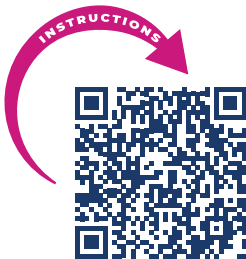
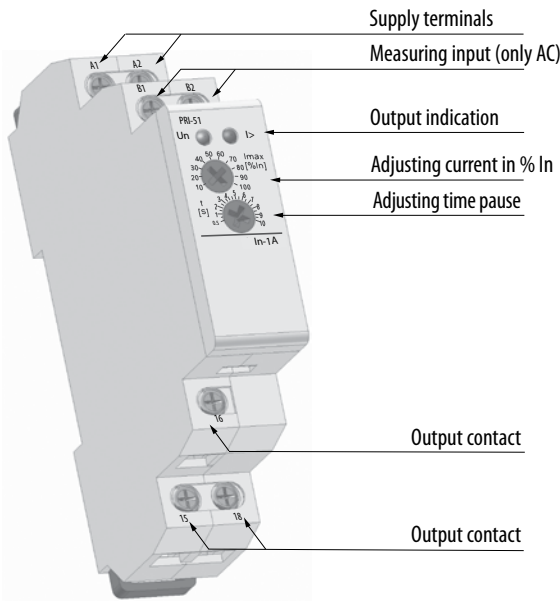


Current monitoring relay PRI-51

Type	I_n [A]	Code No.		
PRI - 51/1	1	002471816	58	1/10
PRI - 51/2	2	002471817	58	1/10
PRI - 51/5	5	002471818	58	1/10
PRI - 51/8	8	002471819	58	1/10
PRI - 51/16	16	002470019	58	1/10
PRI-51/0.1-10	0,1 - 10	002470298	87	1/10



Description



LOAD1 -> Critical load - always available ($I_{set} < I_{LOAD1}$)
LOAD2 -> Optional load - only when LOAD1 not operating

In case of overload, all the loads will shutdown.