

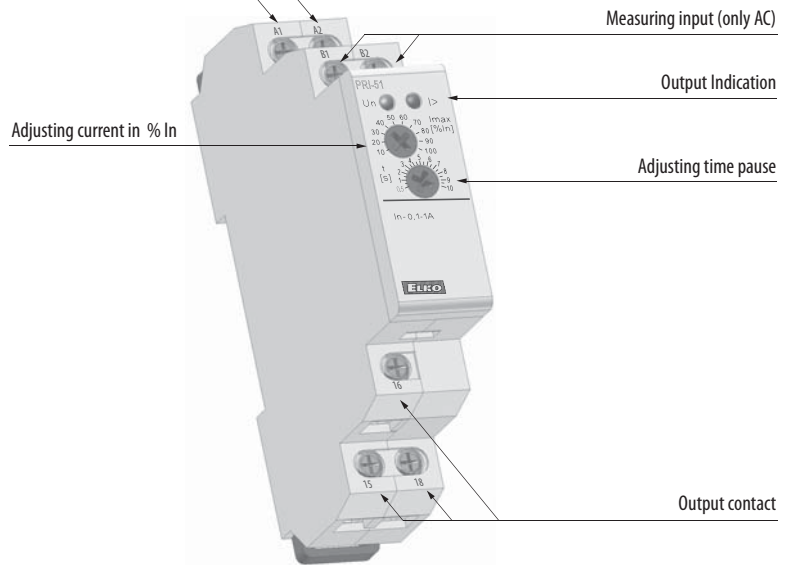
- It serves for monitoring of heating in rail-switches, heating cables, consumption of one-phase motors, indicates current flow
- Flexible adjustment by potentiometer, choice of 6 ranges:
AC 0.05-0.5A; AC 0.1-1A; AC 0.2-2A; AC 0.5-5A; AC 0.8-8A; AC 1.6-16A
- Adjustable delay 0.5 - 10 s to eliminate short current peaks
- It is possible to use for current scanning from current transformer - up to 600 A!
- Universal supply AC 24 - 240 V and DC 24 V
- Supply is galvanically separated from measured current, it must be in the same phase
- Output contact: 1x changeover/ SPDT 8 A
- 1-phase, 1-MODULE, DIN rail mounting, replacement for PRI-31

EAN code
 PRI-51 /0.5A: 8595188142885
 PRI-51 /1A: 8595188124904
 PRI-51 /2A: 8595188124911
 PRI-51 /5A: 8595188124928
 PRI-51 /8A: 8595188124935
 PRI-51 /16A: 8595188124942

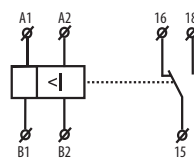
Technical parameters		PRI-51					
Supply circuit							
Supply terminals:	A1 - A2						
Voltage range:	AC 24 - 240 V a DC 24 V (AC 50 - 60 Hz)						
Burden:	max. 1.5 VA						
Supply voltage tolerance:	-15 %; +10 %						
Measuring circuit							
Load:	between B1 - B2						
Current range:	PRI-51/0.5 AC0.05-0.5A (AC50Hz)	PRI-51/1 AC0.1-1A (AC 50Hz)	PRI-51/2 AC0.2-2A (AC 50Hz)	PRI-51/5 AC0.5-5A (AC 50Hz)	PRI-51/8 AC0.8-8A (AC 50Hz)	PRI-51/16 AC1.6-16A (AC 50Hz)	
	↑ applicable also for current transformer						
Recommended current transformers:	more information page 82						
Max. permanent current:	0.5A	1 A	2 A	5 A	8 A	16 A	
Inrush overload <1ms:	100 A						
Current adjustment:	potentiometer						
Time delay:	adjustable 0.5-10 s						
Accuracy							
Setting accuracy (mechanical):	5 %						
Repeat accuracy:	<1 %						
Temperature dependency:	< 0.1 % / °C						
Limit values tolerance:	5 % (10% for 0.05-0.5A range)						
Hysteresis (fault to OK):	5 %						
Output							
Number of contacts:	1x changeover/ SPDT (AgNi / Silver Alloy)						
Current rating:	8 A / AC1						
Breaking capacity:	2500 VA / AC1, 240 W / DC						
Output indication:	green / red LED						
Other information							
Operating temperature:	-20 °C to +55 °C (-4 °F to 131 °F)						
Storage temperature:	-30 °C to +70 °C (-22 °F to 158 °F)						
Electrical strength:	4 kV (supply - output)						
Operating position:	any						
Mounting:	DIN rail EN 60715						
Protection degree:	IP 40 from front panel / IP 10 terminals						
Overvoltage category:	III.						
Pollution degree:	2						
Max. cable size (mm ²):	solid wire max.2x2.5 or 1x4, with sleeve max. 1x2.5 or 2x1.5 (AWG 12)						
Dimensions:	90 x 17.6 x 64 mm (3.5" x 0.7" x 2.5")						
Weight:	72 g (2.54 oz.)						
Standards:	EN 60255-6, EN 61010-1						

Description

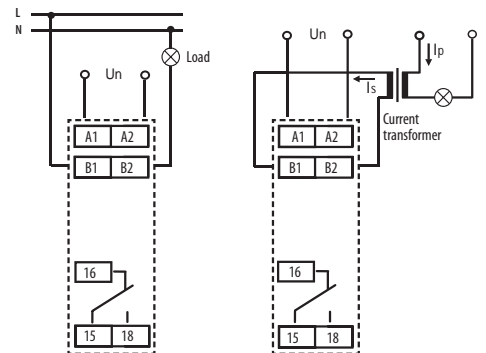
Supply terminals



Symbol



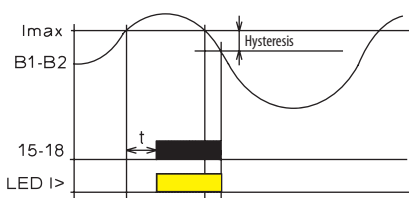
Connection



Example of an order

Always specify all reference name of current relay according to required range, for example PRI-51/5.

Function



Monitoring relay PRI-51 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 opened. After the set current level is reached, relay closes after the set delay (0.5-10s). When returning from faulty to normal state there is a hysteresis (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 PRI-51. Range of PRI-51 can be increased by an external current transformer.