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## PRI-32

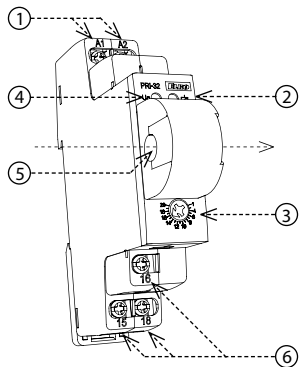
### Monitoring current relay



#### Characteristics

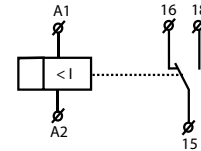
- current transformer is a part of the product. Inside this transformer there is a wire which senses the volume of flowing current
- this construction lowers temperature straining of the product when compared with conventional solution with in-built shunt. Increases current range up to 20 A and galvanically separated measured circuit
- for heating bars in sliding rails, heating cables, indication of current flow, controlling of 1-phase motor consumption...
- fluent adjusting actualing current via potentiometer 1 - 20 A
- universal supply AC 24 - 240 V and DC 24 V
- current exceeding - current flowing through monitored wire must not exceed 100 A
- output contact: 1x changeover / SPDT 8 A
- clamps terminal
- 1-phase, 1-MODULE, DIN rail mounting

#### Description



- Supply voltage terminals
- Output indication
- Adjustment of access current
- Supply indication
- Controlling cable outlet (max. Ø 6 mm)
- Output contacts

#### Symbol



#### Connection



Type of load	$\cos \varphi \geq 0.95$								
Mat. contacts AgNi, contact 8A	AC1 250V / 8A	AC2 250V / 3A	AC3 250V / 2A	AC5a uncompensated 230V / 1.5A (345VA)	AC5a compensated x	AC5b 300W	AC6a x	AC7b 250V / 1A	AC12 250V / 1A
Type of load									
Mat. contacts AgNi, contact 8A	AC13 x	AC14 250V / 3A	AC15 250V / 3A	DC1 24V / 8A	DC3 24V / 3A	DC5 24V / 2A	DC12 24V / 8A	DC13 24V / 2A	DC14 x

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Supply circuit

Supply terminals:	A1 - A2
Supply voltage:	AC 24 - 240 V, DC 24 V (AC 50 - 60 Hz)
Consumption:	max. 25 VA / 1.5 W
Max. dissipated power (Un + terminals):	2 W
Supply voltage tolerance:	-15 %; +10 %

Measuring circuit

Current range:	1 - 20 A (AC 50 - 60 Hz)
Current adjustment:	potentiometer

Accuracy

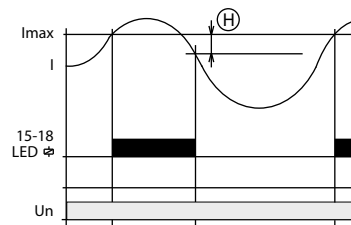
Setting accuracy (mechanical):	5 %
Repeat accuracy:	< 1 %
Temperature dependency:	< 0.1 % / °C
Limit values tolerance:	5 %
Overload capacity:	max. 100 A / 10 s

Output

Number of contacts:	1x changeover / SPDT (AgNi / Silver Alloy)
Rated current:	8 A / AC1
Switching capacity:	2000 VA / AC1, 240 W / DC
Output indication:	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:	IP40 from front panel / IP10 terminals
Overvoltage category:	III.
Pollution degree:	2
Max. cable size (mm <sup>2</sup> ):	solid wire max. 2x 2.5 or max. 1x 4, with sleeve max. 1x 2.5 or max. 2x 1.5 (AWG 12)
Dimensions:	90 x 17.6 x 80.5 mm (3.5" x 0.7" x 3.2")
Weight:	75 g (2.6 oz.)
Standards:	EN 60255-1, EN 60255-26, EN 60255-27



H - Hysteresis

Monitoring relay PRI-32 is determined for control of current level in one phase AC circuits. Fluent adjustment of access current level predestines this device for many various applications. Output relay is in normal state off. By overpassing of adjusted current level relay is closed. An advantage of this relay is universal supply. It is possible to control a load that does not have consistent supply as PRI-32.

Warning

The device is constructed to be connected into 1-phase main and must be installed in accordance with regulations and norms applicable in a particular country. Installation, connection and setting can be done only by a person with an adequate electro-technical qualification which has read and understood this instruction manual and product functions. The device contains protections against over-voltage peaks and disturbing elements in the supply main. To ensure correct function of these protection elements it is necessary to front-end other protective elements of higher degree (A, B, C) and screening of disturbances of switched devices (contactors, motors, inductive load etc.) as it is stated in a standard. Before you start with installation, make sure that the device is not energized and that the main switch is OFF. Do not install the device to the sources of excessive electromagnetic disturbances. By correct installation, ensure good air circulation so the maximal allowed operational temperature is not exceeded in case of permanent operation and higher ambient temperature. While installing the device use screwdriver width approx. 2 mm. Keep in mind that this device is fully electronic while installing. Correct function of the device is also depended on transportation, storing and handling. In case you notice any signs of damage, deformation, malfunction or missing piece, do not install this device and claim it at the seller. After operational life treat the product as electronic waste.