

ELECTRONIC CURRENT  
 RELAY

EPP-620

**WARRANTY.** The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us. More information how to make a compliant can be found on the website: [www.fif.com.pl/reklamacja](http://www.fif.com.pl/reklamacja)



Do not dispose of this device to a garbage bin with other unsorted waste! In accordance with the Waste Electrical and Electronic Equipment Act any household electro-waste can be turned in free of charge and in any quantity to a collection point established for this purpose, as well as to the store in the event of purchasing new equipment (as per the old for new rule, regardless of brand). Electro-waste thrown in the garbage bin or abandoned in the bosom of nature pose a threat to the environment and human health.

**PURPOSE**

Current relay is used to control the value of the current in the circuit measured with switch contacts function in the case of the value of current above the set threshold values.

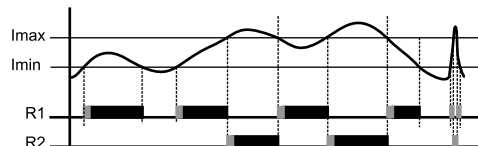
**FUNCTIONING**

Relay is designed to work with current transformer with secondary current 5A. Primary circuit of transformer is connected in the measured current circuit and the secondary to the relay measuring contacts. Relay work with one of four work functions. You can select function by potentiometer FUN, and set the selected function [A, B, C or D]. By potentiometers you can set current threshold - by lower **I<sub>min</sub>** and by top **I<sub>max</sub>**. Above the measured current makes closes the appropriate contacts, accordance in the selected work function. Contact is close with delay set by potentiometer T1 (to contact R1) and T2 (to contact R2). Close the contacts is signalling by shining a appropriate LED **I<sub>max</sub>** and **I<sub>min</sub>**.

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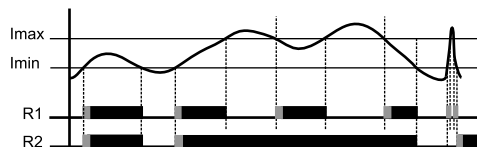
**WORK FUNCTIONS**

A



After above **I<sub>min</sub>** the R1 contact is closed. After above the threshold **I<sub>max</sub>** the R2 contact is closed and R1 contact is open.

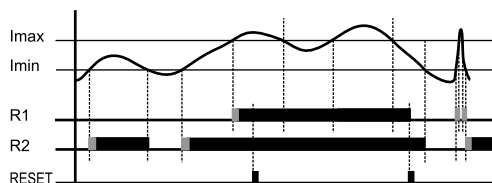
B



After above **I<sub>min</sub>** the R1 and R2 contacts are closed. After above the threshold **I<sub>max</sub>** R2 contact is closed and R1 contact is open.

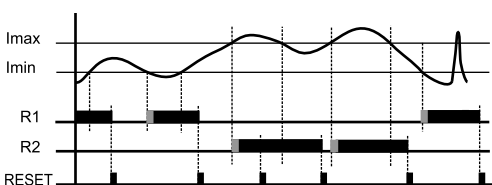
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C



After above **I<sub>min</sub>** the R2 contact is closed. After above the threshold **I<sub>max</sub>** R1 contact is closed. R1 contact is locked, until you press RESET button. When value above **I<sub>max</sub>** R1 contact don't react to RESET.

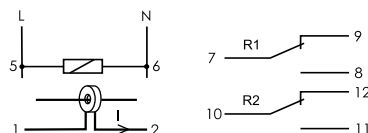
D



After above **I<sub>min</sub>** the R1 contact is closed. After above the threshold **I<sub>max</sub>** R2 contact is closed and R1 contact is opened. R1 and R2 contacts are locked until you press RESET button. When value above **I<sub>max</sub>** R2 contact don't react to RESET.

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**DIAGRAM**



**ASSEMBLY**

1. Take OFF the power.
2. Put on the relay on the rail in the switchgearbox.
3. Supply of relay connect to contact 5-6 accordance with marks.
4. To measured 1-2 contact connect secondary circuit of current relay.
5. On the current scale of the relay set: work function, activation threshold and time delay of activation.

**TECHNICAL DATA**

supply	230V AC
contacts	2×separate 1P
current R1 and R2	2×[<8A]
current of measured circuit	<5A
switch current - adjustable <b>I<sub>min</sub></b>	0.02÷1A
<b>I<sub>max</sub></b>	0.5÷5A
return hysteresis	10%
activation time T1 and T2 - adjustable	0÷20sec
delay of return	0.5sec
power consumption	0.4W
working temperature	-25÷50°C
connection	screw terminals 2.5mm <sup>2</sup>
dimensions	3 module (52.5 mm)
fixing	on rail TH-35
ingress protection	IP20

D150707

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