15. CURRENT RELAYS

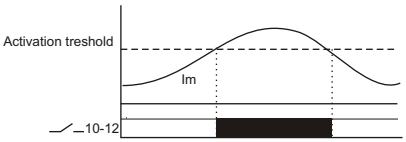
PURPOSE

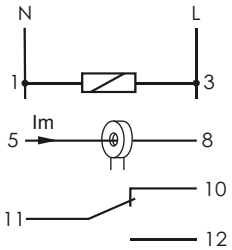
Current relays are used to control the flow of current in the circuit measured with the function switch contact in case of exceeding the value of current intensity above set thresholds.

EPP-619 *WITH RECEIVER'S CURRENT CORD SECTION. (GALVANIC SEPARATED FROM THE MEASUREMENT SYSTEM)*

FUNCTIONING

Adjustable potentiometer value is the measured intensity of the current circuit, above which the contact is closed (pos. 11-12). Intensity of the current decline in value below the set threshold will automatically open contact (item 11-10).



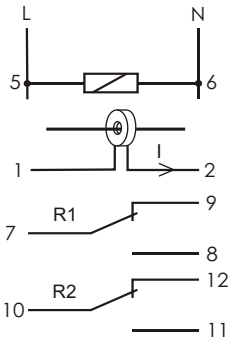


supply	230V AC
contact	separated 1P
current load	<16A
circuit current measured limited	cross-section of the cable (max. Ø=4mm)
current switch - adjustable	0,6÷16A
return histeresis	10%
actuation time - adjustable	0,5÷10sec
return time	0,5sec
power consumption	0,4Wworking
temperature	-25÷50°C
connection	screw terminal 2,5mm²
dimensions	1 module (18mm)
fixing	on rail TH-35

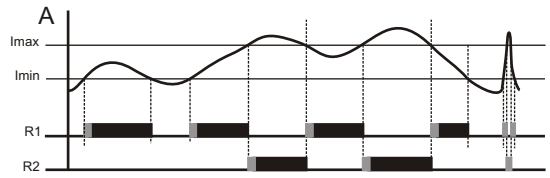
EPP-620 *FOUR FUNCTIONS. WITH ADJUSTABLE LOWER AND UPPER ACTUATION THRESHOLD.*

FUNCTIONING

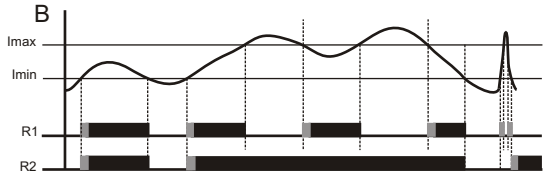
The relay is designed to work with the current transformer with secondary current 5A. Transformer's primary circuit is included in the circuit being measured, and secondary to the terminals of the measuring relay. Potentiometers are set thresholds for current - the lower Imin and upper Imax. Excess over the measured intensity of the current closes the appropriate contacts in accordance with the desired work function. Contact closure is delayed setting potentiometers T1 (for contact R1) and T2 (for



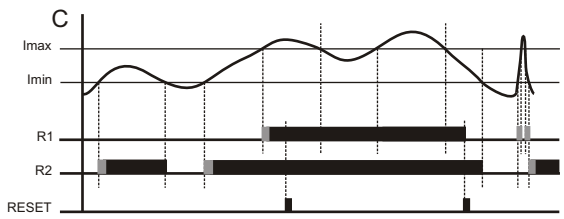
supply		230V AC
contact		2× separowany 1P
current load R1 i R2		<16A
input current measurement 1-2		<5A
current switch - adjustable	Imin	0,02÷1A
	Imax	0,5÷5A return
histeresis		10%
actuation time T1 i T2 - adjustable		0÷20sec
return time		0,5sec
power consumption		0,4W
working temperature		-25÷50°C
connection		screw terminals 2,5mm²
dimensions		3 modules (52,5mm)
fixing		on rail TH-35



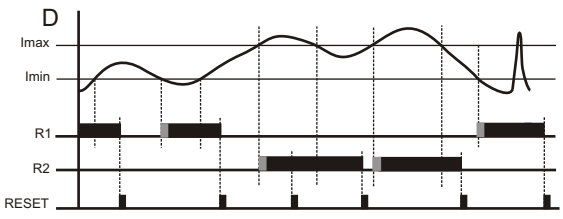
After crossing the Imin, contact R1 will close. After crossing the threshold of Imax contact R2 will close and R1 contact will be opened.



After crossing the Imin contacts R1 and R2 will close. After crossing the threshold of Imax R1 contact will open and R2 contact is closed.



After crossing the Imin the R2 contact will be closed. After crossing the threshold of Imax the R1 contact will be closed. Contact R1 is locked until you press the RESET button. If value exceeding Imax, the R1 contact doesn't react to the RESET button.



After crossing the Imin the R1 contact will be closed. After crossing the threshold of Imax the R2 contact will be and R1 contact is opened. Contact R1 and R2 are locked until you press the RESET button. If a value exceeding Imax, the contact R2 dosen't react to RESET.