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PR-614

PRIORITY RELAYS

to co-operate with a current multiplier



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F&F products are covered by an 24 months warranty from date of purchase

PURPOSE

Priority relays are designed to control the value of current drawn by electric receivers and their control units in cases where their simultaneous work could result in circuit overload or current overload protection activation.

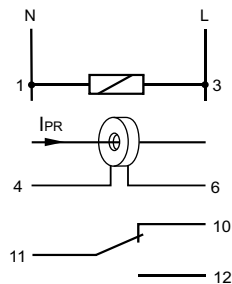
FUNCTIONING

By potentiometer sets the value of drawn current (from 2A to 15A) in the priority circuit, above which the receiver cuts off the non-primary circuit. A drop in current consumption in the priority circuit below the set threshold value will result in an automatic activation of the non-priority circuit. In cases where the priority receiver is already activated, the priority relay will prevent the activation of the non-priority receiver.

TECHNICAL DATA

supply	230V AC
current load of non-priority receiver	<16A
	or more with use a contractor
current of measurement input	<5A
joint	1N/O
current of reconnection - to set	0,5÷5A
recovery hysteresis	10%
delay recovery	0,1sec
delay reconnection	0,1sec
power consumption	0,4W
working temperature	-25÷50°C
connection	screw terminals 2,5mm ²
dimensions	1 module (18mm)
fixing	on rail TH-35

WIRING DIAGRAM



The relay is adjusted to work with a current multiplier, with its input connected to the priority circuit and output to the PR measurement clamps, which allows control of circuits with peak load higher than 16A and allows setting the relay's activation threshold higher than 15A (measured current's maximal range will depend on the multiplier transmission, i.e. from 20A to 150A when using 10:1).

Example:

To priority receiver with max. load 140A used a current multiplier (150/5A). Transorm is 30. With settings on scale to 2A relay will be activate by real value of current 60A (2A×30=60A)

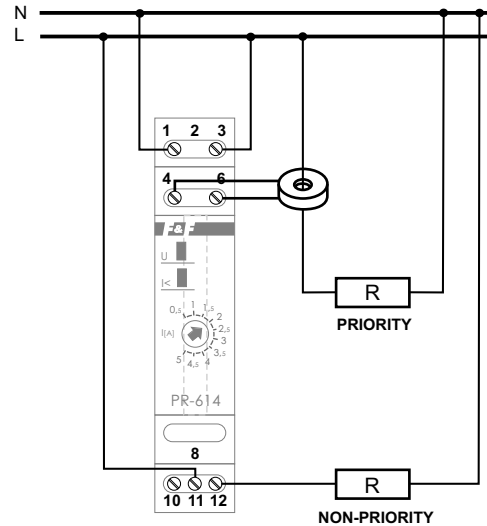
Current load of measurement input (joint 4-5) couldn't be more than 5A

ASSEMBLY

1. Take OFF the power.
2. Put on the priority relay on rail in the switchgear box.
3. Connect supply to joints 1-3 with marks.
4. Cable of priority system put out from relay by transit channel.
5. Joints of second system of relay connect to measurement inputs 4-6.
6. Supply system of non-priority a receiver connect in line to relay joint (terminals 11-12).
7. On the current scale of relay set activation threshold.

ATTENTION!

Set value no more than 80% current of priority receiver



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