

Current relay AR12NP-230V



1 CO contact not potential free 16 A/250 V AC.
Standby loss 0,8 watt only.

Modular device for DIN-EN 50 022 rail mounting.

1 module = 18 mm wide, 58 mm deep.

With an internal toroidal-core current transformer the single phase AC current flowing through a consumer V1 of 0.1 A up to max. 32 A is compared to the setpoint. When the latter is exceeded a special relay with high capacity switches off a consumer V2 connected to 2 within 0.5 seconds or switches on a consumer V3 connected to 3.

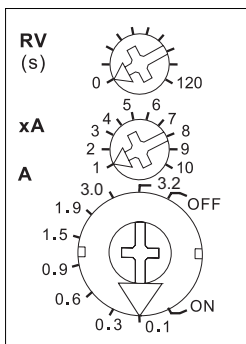
Adjustment accuracy $\pm 5\%$.

From 25A the relay always switches on.

Zero passage switching to protect contacts and consumers.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high switching capacity of special relays.

Function rotary switch



The basis of current A will be set with the lower rotary switch **A**. The following basic values can be selected: 0,1 A, 0,3 A, 0,6 A, 0,9 A, 1,5 A, 1,9 A, 3,0 A and 3,2 A.

The multiplier xA will be set with the middle latching rotary switch **xA** and offers values between 1 and 10. So currents from 0,1 A (basis of current 0.1 A and multiplier 1) can be set.

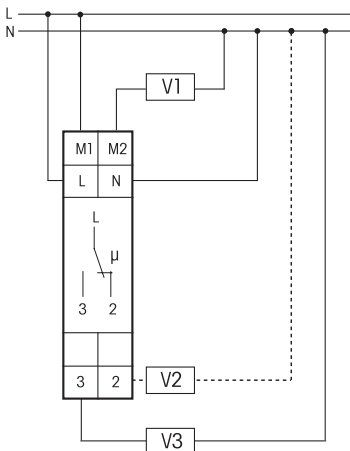
OFF delay RV can be set with the upper latching rotary switch **RV** between 0 and 120 secs.

The hysteresis is defined as approx. 25%.
Status indication by LED.

The measuring input M1-M2 is electrically isolated from power supply L-N and make contact L-2/3.

Reference values larger than 32 A can be adapted by an external measuring transformer.

Typical connection



Technical data

Supply voltage	230 V
Rated switching capacity	16 A/250 V AC
Incandescent lamp load and halogen lamp load ¹⁾ 230V	2300 W
Contact material	AgSnO ₂
Contact gap	0,5 mm
Standby loss (activ power)	0,8 W

¹⁾ For lamps with 150W max



The strain relief clamps of the terminals must be closed, that means the screws must be tightened for testing the function of the device. The terminals are open ex works.

Important reminder!

This electrical equipment may only be installed by skilled electricians otherwise fire hazard or danger of electric shock exists!