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## OM-611

Power consumption limiter



5190831215961651

**Do not dispose of this device in the trash along with other waste!**

According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



### Purpose

The OM-611 power limiter is used to automatically disconnect the power supply of a 1-phase installation circuit in case of exceeding the set value of the power consumed by the receivers in the measuring circuit of the relay.

### Functioning

The relay is adapted to cooperate with a current transformer, the primary circuit of which is connected to the circuit being measured and the output to the OM measuring terminals, which allows circuits of any load capacity to be controlled and setting the actual relay tripping threshold higher than 5 A (IOM).

The range of current to be measured will depend on the ratio of the transformer, e.g. from 5 A to 50 A with a ratio of 10:1 for a 50/5 A transformer.



The current of measurement input 4-6 must not exceed 5 A!

Power supply to the relay is signalled by the lighting of the green "U" LED. When the current in the measured circuit is lower than the set IOM switching threshold, the contact is closed (position 7-10). Exceeding the set threshold in the measured circuit is signalled by the pulsating illumination of the red LED "I".

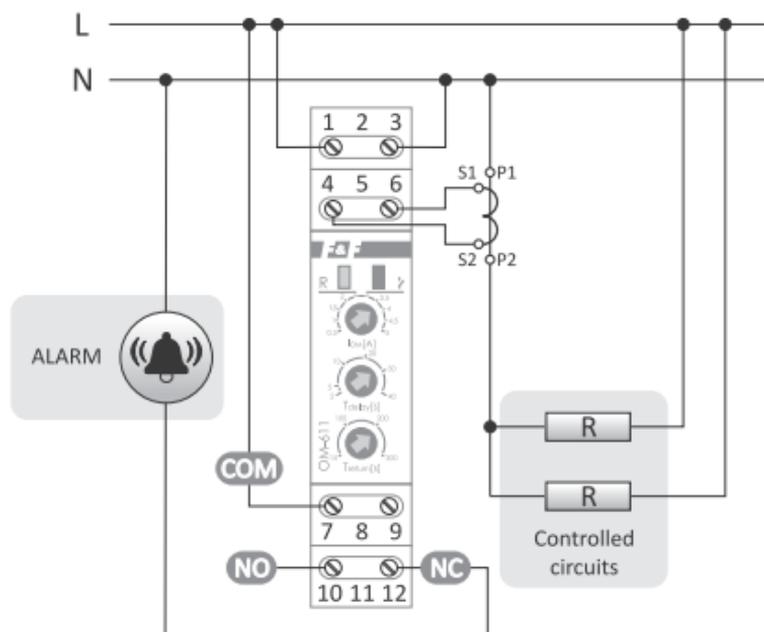
After the set time  $T_{delay}$ , the contact will be opened (position 7-12). The contact will close automatically after the set time  $T_{return}$ .

If the current value in the measured circuit is still greater than the set threshold, the contact will open again.

### Mounting

1. Turn off the circuit power supply.
2. Install the device in the distribution board.
3. Connect the power supply to terminals 1-3 as marked: L to terminal 1 and N to terminal 3.
4. Connect the current transformer to the system to be measured.
5. Connect the outputs of the secondary side of the current transformer to terminals 4-6.
6. Connect contact 7-10 or 7-12 in series into the power supply circuit of the controlled receiver, depending on the requirements.
7. Set the executive parameters of the relay.

## Wiring diagram



Signalling exceeding of the set current threshold in the measured circuit

## Description of terminals

- 1-3 power supply 230 V
- 4-6 measurement inputs for the secondary circuit of the current transformer
- 7 COM contact input
- 10 NO contact output – "normally open" position
- 12 NC contact output – "normally closed" position

## Technical data

power supply	195÷253 V AC
contact	separated 1×NO/NC
maximum load current (AC-1)	8 A
activation threshold (adjustable)	0.5÷5 A
activation delay (adjustable)	2÷40 s
supply return hysteresis	2%
supply return time (adjustable)	15÷300 s
power consumption	0.8 W
working temperature	-25÷50°C
terminal	2.5 mm <sup>2</sup> screw terminals
tightening torque	0.4 Nm
dimensions	1 module (18 mm)
mounting	on TH-35 rail
ingress protection	IP20

## 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.

## CE declaration

F&F Filipowski sp. j. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at [www.fif.com.pl](http://www.fif.com.pl) on the product page.