



ZAMEL Sp. z o.o.



ul. Zielona 27, 43-200 Pszczyna, Poland  
Tel. +48 32 210 46 65, Fax +48 32 210 80 04  
[www.zamel.com](http://www.zamel.com), e-mail: [export@zamel.pl](mailto:export@zamel.pl)

## DESCRIPTION

The PMM-02 power limiter automatically isolates supply voltage from the controlled power loads when they overload the set power threshold. The power threshold can be set smoothly from 0.1 to 3 kW with a potentiometer. The power threshold trip-on delay of the relay can be set smoothly from 10 to 90 s.

## FEATURES

- Overload protection with a power threshold setting.
- Electrical system overcurrent protection.
- Power supply indicator.
- Power overload indicator.
- Stepless trip-off delay setting.
- Wide power load control range.
- Resilient to transient power loads above the set power threshold.
- Single-module enclosure.
- For installation on a DIN rail.



**CAUTION** The device is designed for a single-phase installation and must be installed in accordance with standards valid in a particular country. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the instruction manual and the device functions. In case of casing dismantling, the guarantee is lost and an electric shock may occur. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to install the device. Improper transport, storage, and use of the device influence its wrong functioning. It is not advisable to install the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.



Do not dispose of this device with other waste! In order to avoid harmful effects on the environment and human health, the used device should be stored in designated areas. For this purpose, you can dispose of household waste free of charge and in any quantity to a collection point set up, as well as to the shop when you buy new equipment.

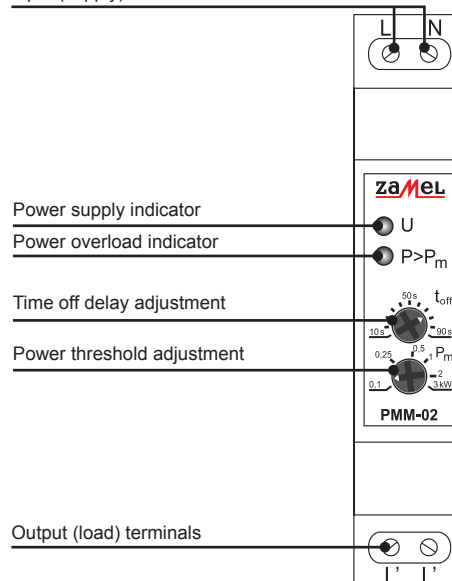
## TECHNICAL DATA

### PMM-02

Power input terminals:	L; N
Rated supply voltage:	230 V AC
Supply voltage tolerance:	-15 ÷ +10 %
Rated mains frequency:	50 / 60 Hz
Rated current load:	26 mA
Power supply indication:	green LED
Power threshold setting:	0.1 ÷ 3 kW (with a rotary potentiometer)
Trip-on delay setting:	10 ÷ 90 s (with a rotary potentiometer)
Power overload indication:	red LED
Power off delay:	ca. 250 ms
Transmitter contact ratings:	1NO 16 A / 250 V AC1 4,000 VA
Wiring terminals:	4
Wiring size:	0.2 ÷ 2.50 mm <sup>2</sup>
Operating temperature:	-20 to +60°C
Installation orientation:	any
Enclosure installation type:	DIN rail
Protection grade:	IP20
Overvoltage category:	II
Pollution class:	2
Dimensions:	single module 90 × 17.5 × 66 mm
Weight:	0.077 kg

## APPEARANCE

Input (supply) terminals



Output (load) terminals

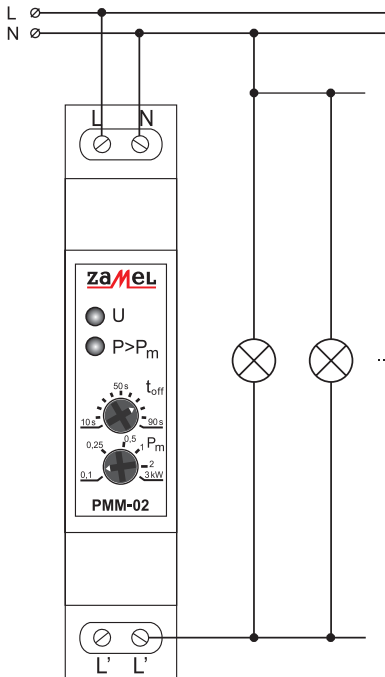


## MOUNTING, FUNCTIONING

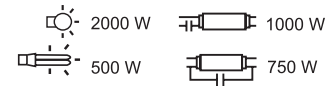
1. Isolate from power the wiring system to be connected with this product with its circuit breaker, overcurrent device or disconnecter, as applicable.
2. Use a suitable tester to verify that the isolated power input wiring is not live.
3. Install the PMM-02 on a DIN Rail in the respective switchboard.
4. Connect the wiring to the terminals, see the applicable wiring connection diagram.
5. Turn on the power of the connected wiring system.
6. Set the desired power threshold and power load trip-off delay.
 

The control circuit limits the controlled power load. When the total power load demand on the controlled power line is below the power threshold setting, the power loads remain on the rated supply voltage. When the power load demand exceeds the power threshold setting, the power load line is isolated from voltage (powering down the controlled power loads). The supply voltage is reapplied to the power loads to test the power load value when the set trip-on delay expires. Following this power load test, the control circuit determines if the supply voltage should be reapplied or the power loads left off. Fine-tune the power threshold after approximately 40 minutes of operation.

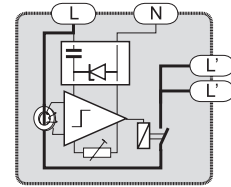
## CONNECTION



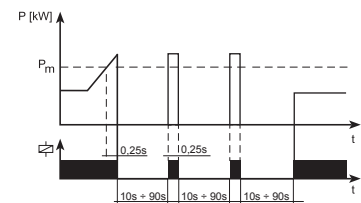
## RELAY CAPACITY



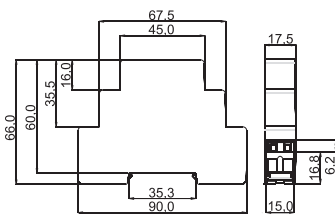
## INNER DIAGRAM



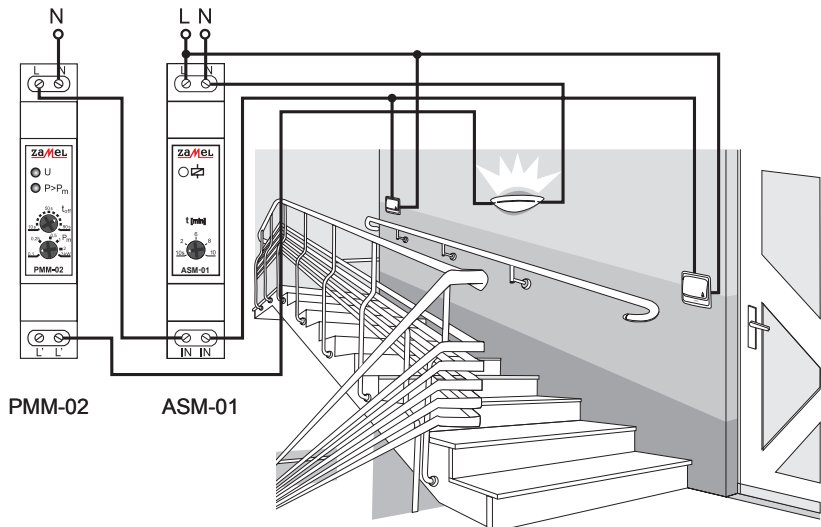
## TIME COURSE



## DIMENSIONS



## APPLICATION



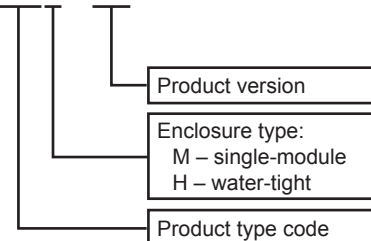
PMM-02 ASM-01

The power limiter can support a staircase lighting timer to form a timer-controlled lamp power system with a power load limit. Having determined the power load demand in the control system and with the power limiter's power threshold set, the system prevents connection and operation of illegal power loads with the control system. Hence, if there is a power overload which exceeds the power threshold, the power limiter isolates the supply voltage from the controlled power line and periodically retest the power demand for compliance with the power threshold setting.

## PRODUCT FAMILY

The PMM-02 is a model from the PMX range of power limiters.

### PMX - 02



## WARRANTY CARD

There is 24 months guarantee on the product

Salesman stamp and signature, date of sale

1. ZAMEL provides a two-year warranty for its products.
2. The ZAMEL warranty does not cover:
  - a) mechanical defects resulting from transport, loading / unloading or other circumstances
  - b) defects resulting from incorrect installation or operation of ZAMEL products;
  - c) defects resulting from any changes made by CUSTOMERS or third parties, to products sold or equipment necessary for the correct operation of products sold;
  - d) defects resulting from force majeure or other aleatory events for which ZAMEL is not liable;
  - e) power supply (batteries) to be equipped with a device in the moment of sale (if they appear);
3. All complaints in relation to the warranty must be provided by the CUSTOMER in writing to the retailer after discovering a defect.;
4. ZAMEL will review complaints in accordance with existing regulations.;
5. The way a complaint is settled, e.g. replacement of the product, repair or refund, is left to the discretion of ZAMEL.
6. Guarantee does not exclude, does not limit, nor does it suspend the rights of the PURCHASER resulting from the discrepancy between the goods and the contract.