EKF



TECHNICAL MANUAL

Power limiter OM-3 EKF

1 DESCRIPTION

Power limiter OM-3 EKF is a sensing device that monitors the electrical power consumed by the load and turns off the consumer if the consumption level exceeds the power limit.

2 TECHNICAL DATA

Table 1

Characteristics	**Values**
Supply voltage, V	220-240
Rated frequency, Hz	50 / 60
Maximum load current, A	16
Utilization category	AC-1
Hysteresis, %	2
Contacts	1 NO
Power limit range, kVA	0,5 to 5
Measurement error, %	max. 10
Shutdown delay, sec.	1,5
Turn-on delay (adjustable), sec.	10-100
Operation ambient temperature, °C	-20 to +55
Degree of protection	IP20

If the power of the connected equipment exceeds 2kW, the load must be controlled by an additional switching device, e.g. a contactor.

3 OPERATION

The device is mounted onto a 35mm DIN rail. The controls are located on the front panel. Refer to Figure 1.

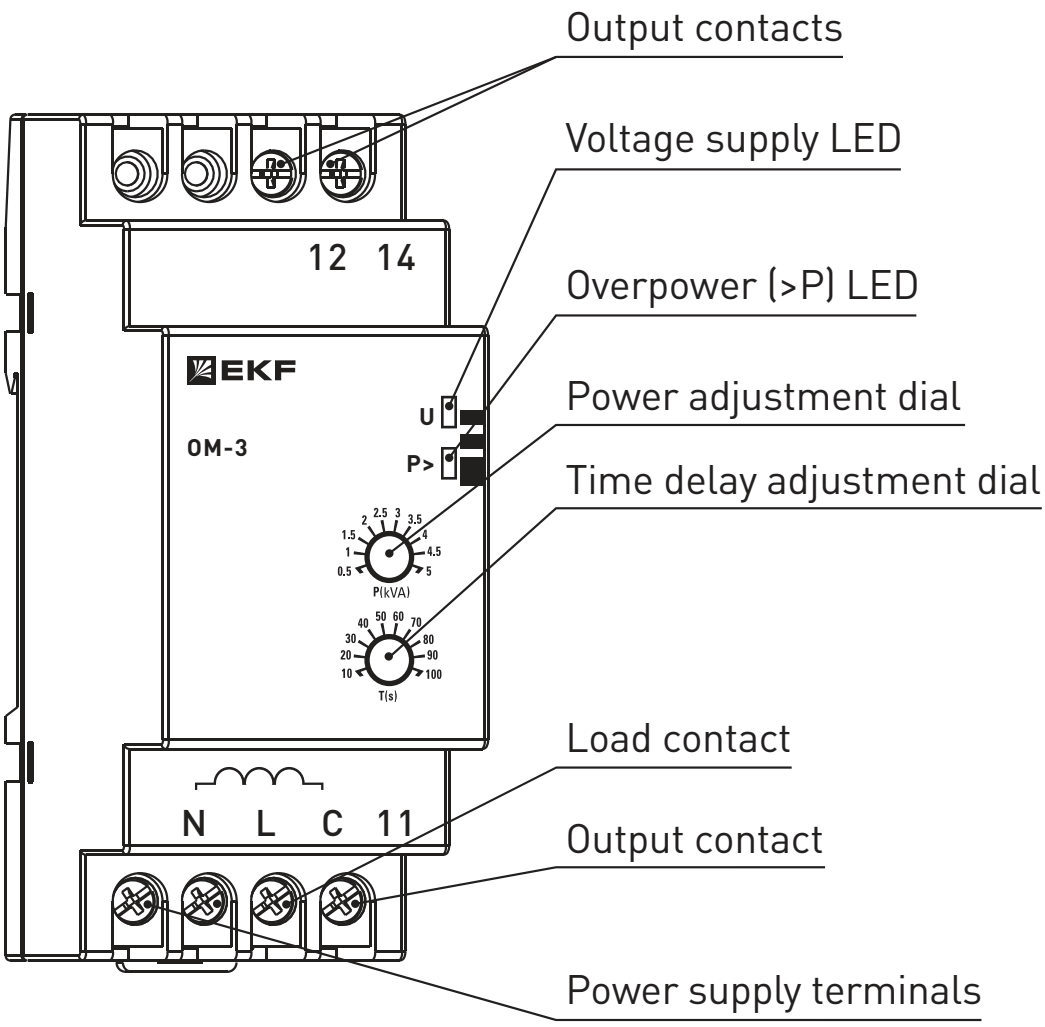


Figure 1. Main control elements

For operation diagram, refer to Figure 2.

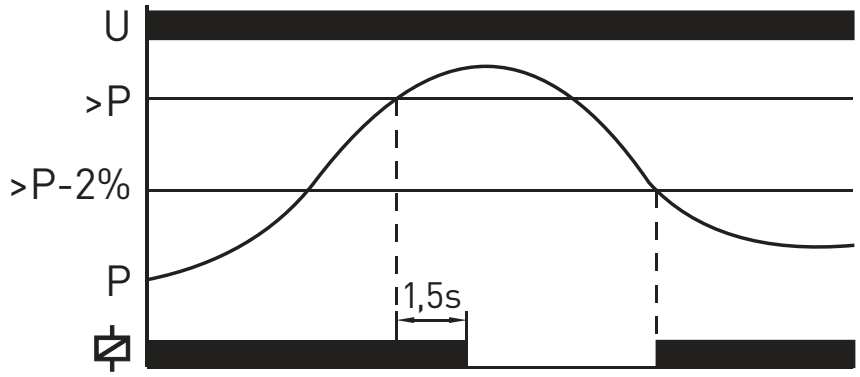


Figure 2. Operation diagram

4 OVERALL AND INSTALLATION DIMENSIONS

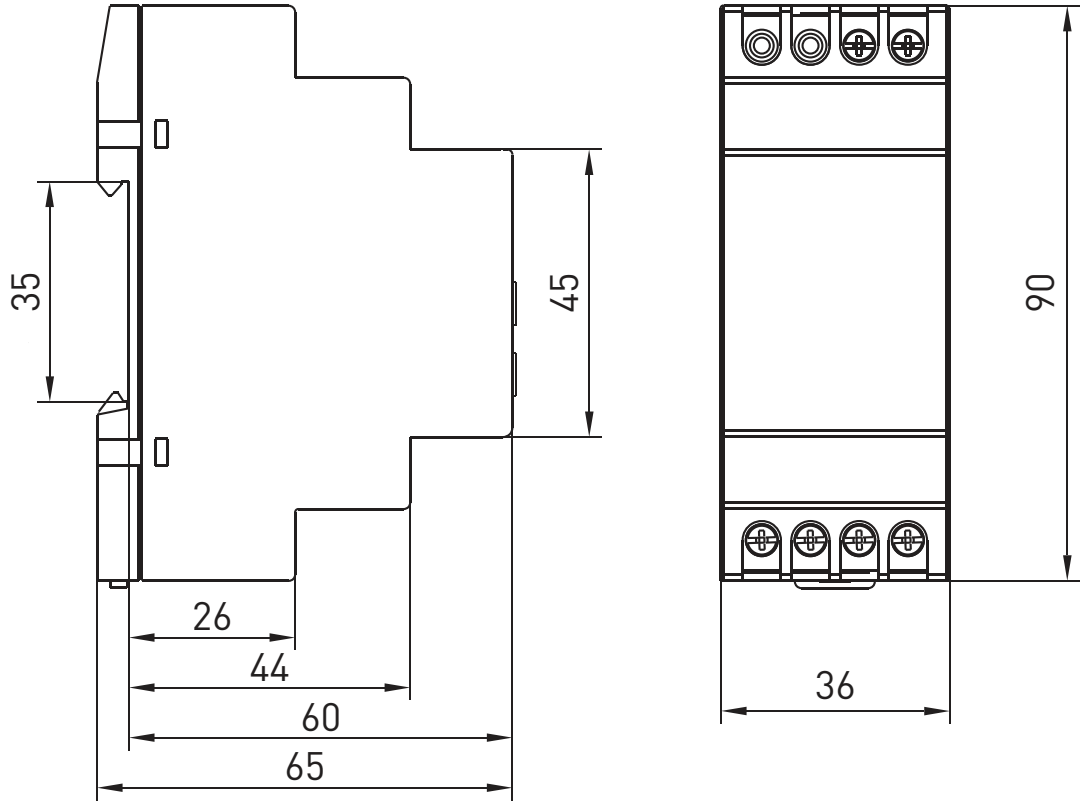


Figure 3. Overall and installation dimensions

5 INSTALLATION

The device must be mounted and connected by qualified electrical personnel.

Installation:

- Connect power to terminals N and L.
- Connect the relay as per wiring diagram. (Figures 4 & 5)

The device is mounted onto a 35mm DIN rail.

Position in space: vertical or horizontal on a vertical plane.

Wiring diagrams

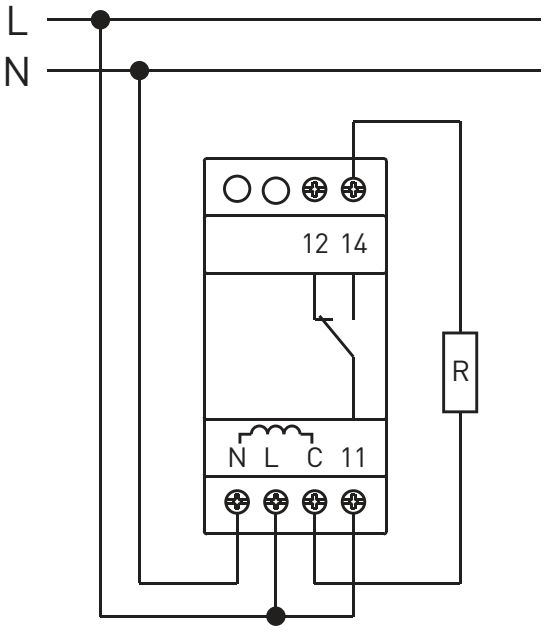


Figure 4. Load with power consumption less than or equal to 2 kW

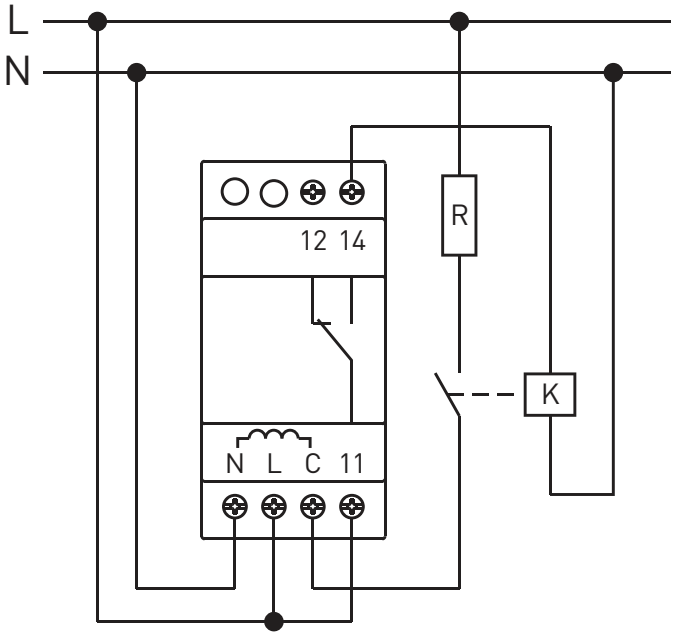


Figure 5. Load with power consumption over 2 kW, load control via a contactor

6 SAFETY REQUIREMENTS

Do not operate the devices with visible mechanical damage.
Power limiters must be operated and serviced only by qualified personnel. Failure to follow the guidelines herein may result in severe injury and damage to the equipment.

7 MAINTENANCE

For maintenance, follow national safety rules for operation of electrical Installations.
Do not operate power limiters with damaged housing.

8 TRANSPORTATION AND STORAGE

Power limiters can be transported by any means of enclosed transport that protects the packed goods from mechanical impact and weather exposure. Power limiters shall be stored indoors in the original package at the ambient temperature from -40°C to+75°C.

9 DISPOSAL

Life-expired and failed products shall be disposed of in compliance with the effective national and local laws and regulations.
To dispose of the product, send it to an authorized company for recycling in compliance with the effective national and local laws and regulations.

10 MANUFACTURER'S WARRANTY

The manufacturer guarantees the products comply with the declared characteristics, provided that consumers follow the operation, transportation and storage conditions.
Warranty period: 7 years from the date of sale specified in the sales receipt.
Shelf life: 7 years from the date of manufacture specified on the product package or housing.
Service life: 10 years

Manufacturer: ООО Electroresheniya, Otradnaya st., 2b/9, 127273, Moscow, Russia, tel. +7 (495) 788-88-15.
MEA regional headquarters: EKF ELECTRICAL SOLUTION FZCO, Techno Hub-2, DSO, P.O. box 341079, Dubai, United Arab Emirates, tel. +971-4-547-06-18.
Importer and EKF trademark service representative in the territory of the Republic of Kazakhstan: ТОО «Energoresheniya Kazakhstan», Kazakhstan, Almaty, Bostandyk district, Turgut Ozal st., 247, apt 4.

11 CERTIFICATE OF ACCEPTANCE

The power limiters OM-3 EKF have been manufactured in compliance with the effective laws and regulations and have been approved for operation.

Date of manufacture: for information, refer to the product package.

Quality control stamp

EAC

v3

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