

CENTRAL LEAKAGE PROTECTION DEVICE FOR 133V OR 230V NETWORKS TYPE K-17c

APPLICATION AREA

The K-17c relay is designed for installation in transformer units manufactured by SAKOP. In electric circuits it acts as a central protection against electric current leakages with the purpose to isolate networks with voltages of 133V or 230V from power supply lines.

DESIGN

The K-17 leakage interlocking and disconnecting relay is encapsulated in an enclosure with the IP-20 index of protection and suitable for mounting on the TS-35 DIN rail. The enclosure is provided with plugged connectors to communicate with the following circuits:

- Power supply 24V AC: terminal 6-7;
- Functional contacts: relay (toggle) type: terminals 1, 2, 3
- Measuring inputs (disconnecting module):
 - terminals 9, 11
- Contacts for reclosure of contacts: terminals 4, 5 (reset):

INSTALLATION

The enclosure of the relay is snap-on mounted on a standard top hat mounting rail of 35 mm size. Terminals of the relay are to be connected to the monitored system according to the application diagram with use of LY-1.5...2.5 mm² conductors (lug terminals must be squeezed beforehand on bare ends of connecting conductors).

COMMISSIONING

After having all connections completed in line with the application diagram please double-check correctness of the conductors routing and then supply the power voltage (terminals 6, 7). When power voltage is supplied to the device and the relay is triggered its contacts 1 and 2 must be closed whilst the contacts 2 and 3 become open. Check of the device operability can be carried out by simulation of the situation when the resistance in the measuring circuit (between contacts 9 and 11) drops below the threshold of 7 kΩ. Such lowering of resistance on the measuring circuit must lead to tripping of the relay. To reclose the relay it is necessary to short terminals 4 and 5.

TECHNICAL PARAMETERS

- Rated power supply voltage 24 V AC
- Input resistance for disconnection 7 kΩ ± 20%
- Rated voltage across contacts 250 V AC
- Rated continuous current of contacts 6 A
- Rated insulation voltage 250 V AC
- Dimensions (W x H x D) 45 x 75 x 105 mm
- Index of protection IP 20

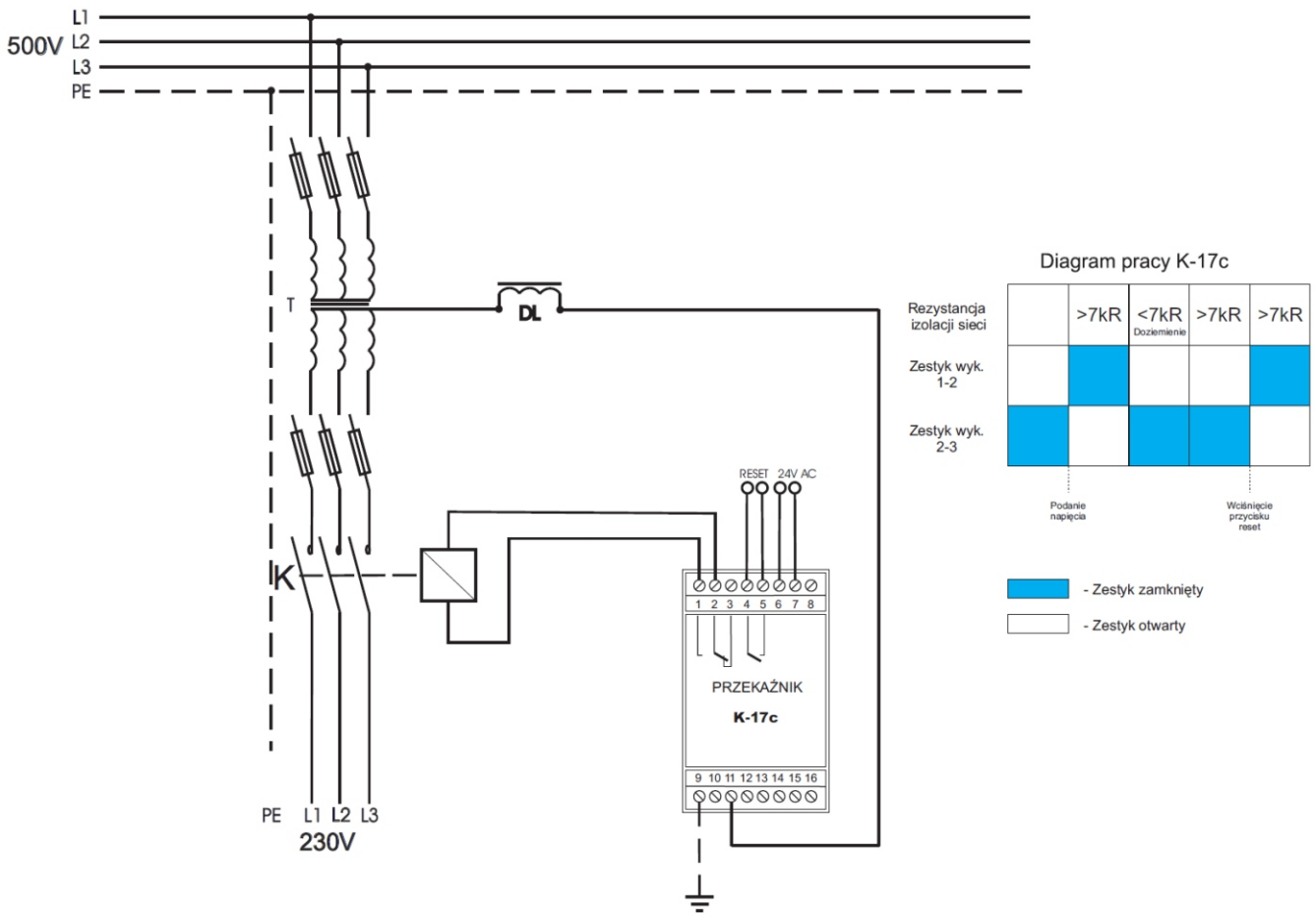


Fig. 1 Application diagram



Fig. 2 Dimensional drawing