

K-11 RELAY BLOCK

APPLICATION AREA

The K-11 block of relays is designed for installation in contactor switches or in switching stations of normal design and can be operated in three-phase AC networks with rated voltage up to 500 V and with isolated neutral point of the supply transformer.

The K-11 block combines the following functions of switching relays:

- leakage shutoff protection relay for 500 VAC networks (KZ1 module)
- control relay (KS module)
- relay to monitor presence of phase-to-phase 500V voltages (K24 module)
- time-delay relay (KZW module)
- toggle switch for control mode (REMOTE/LOCAL)

DESIGN

The K-11 block of relays 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:

- KS module:
 - control inputs: terminals 1-2,
 - functional contacts (NO): terminals 31-32 and 33-34,
- KZ1 module:
 - measuring inputs: terminals 3-4,
 - functional contacts: terminals 19-20 (NO) and 21-20 (NC)
- KZW module:
 - control inputs: terminals 16-17,
 - functional contacts: terminals 27-28 (NO) and 29-30 (NC)
- power supply 24 V AC: terminals 6-7
- REMOTE/LOCAL toggle switch: terminal 8-9-10 and 11-12-13

INSTALLATION

The enclosure of the relay block is snap-on mounted on a standard top hat mounting rail of 35 mm size.

The module is to be connected to the monitored network 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).

TECHNICAL PARAMETERS

- Rated power supply voltage 24 V AC
- KS module
 - resistance of the control loop 600Ω ± 20%
 - tripping time < 400 ms
- KZ1 module
 - shutoff input resistance 25 kΩ ± 20%
 - reclosure factor < 1.5
- KZW module
 - delay time 2 – 3 s
- K24 module
 - range of monitored phase-to-phase voltages 400 – 600 V
- 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) 90 x 75 x 125 mm
- Index of protection IP 20

v.2

