



Leakage central-blocking relay PCB/M

for rated voltage of 500V



Leakage central-blocking relay type PCB/M, is designed for controlling the earth resistance of a 3-phase grids with operating voltage 230V/50Hz, with insulated neutral point of the transformer. The relay in cooperation with the main contactor, prevents the application of voltage to the controlled section of the grid by lowering value of insulation resistance under the setting level. PCB/M is designed for use in mine face pits in non-explosive conditions, in conditions without methane explosion hazard and classified as A coal-dust explosion hazard.

TECHNICAL DATA

ingress protection	IP20
insulation voltage of executive contacts	400V
continuous current of executive contacts	8A
dimensions	75 x 67,5 x 105mm (height x width x depth)
weight	0,12kg

CONSTRUCTION

The relay is manufactured in plastic housing of IP 20 protection class, mounted on TS-35 rail. From housing following circuits are led out:

- power supply
- five measuring inputs
- monitoring input
- reset button of relay
- signalling work of relay with diodes LED
- output executive contacts.

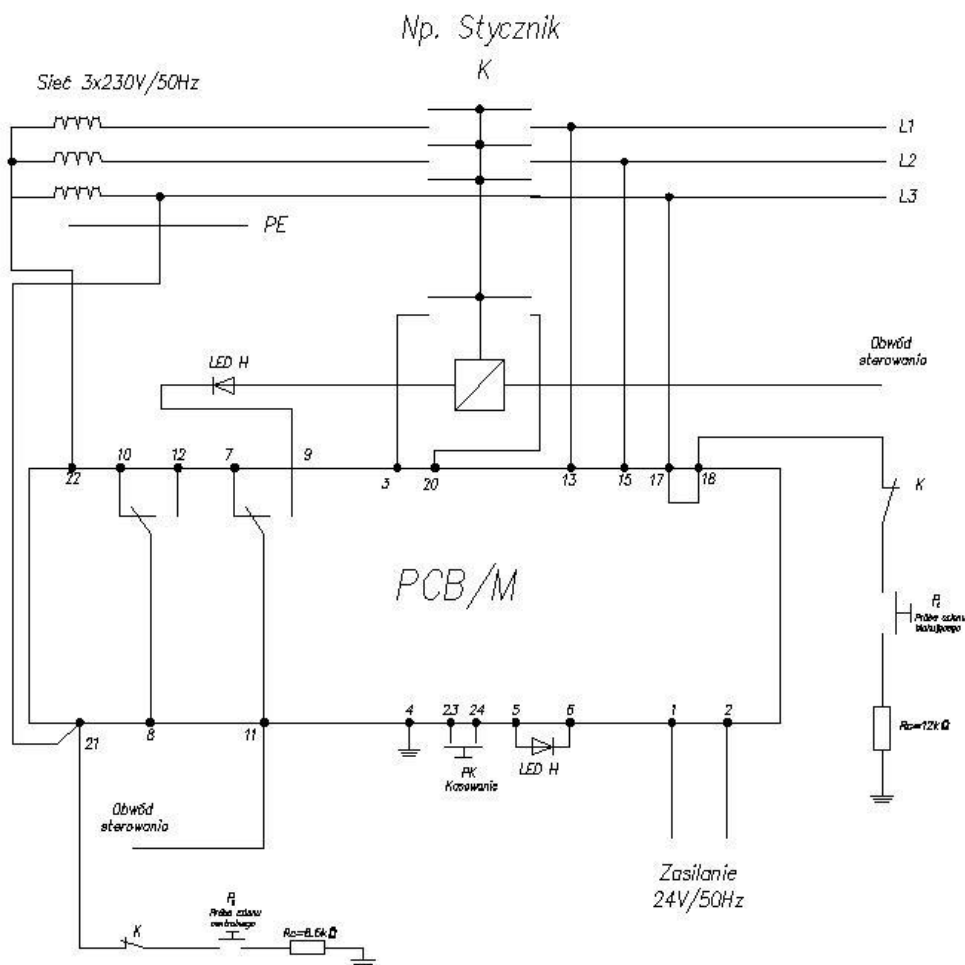
MODE OF OPERATION

Measuring circuit of the relay PCB/M cooperates with LED star unit connected by the contacts type NC of main switch and coil. Relay type PCB/M is supplied through separation transformer. Microprocessor measuring unit detects a decrease in resistance insulation values. In the case of detection of resistance reduction under the set level, the relay is tripped. Activation of the leakage blocking unit is signalled with diode LED in red colour.

SCHEMATIC DIAGRAM

Legend:

- Sieć 3x230V/50Hz** – 3x230V/50Hz grid
Zasilanie 24V/50Hz – Supply 24V/50Hz
Obwód sterowania – Control circuit
Np. stycznik – F.e. contactor K
PK Kasowanie – PK Cancelling button
Pc – test button
Rc – test resistor



Orders should be submitted in writing or by fax to the address:

Instal-Service PL

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