Spółka z ograniczona odpowiedzialnością Spółka komandytowa

58-506 Jelenia Góra, ul. Wrocławska 15a

Leakage central – blocking relay type UKI-24C

for rated voltage 24V, 42V



Leakage central-blocking relay type UKI-24C, is designed to control the value earth resistance of grid for the single-phase operating voltage 24V or 42V, 50 Hz with isolated 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. It is designed for use in mine face pits in nonexplosive conditions, in conditions without methane explosion hazard and classified as A coal-dust explosion hazard.

TECHNICAL DATA

ingress protection supply voltage power/ controlled grid continuous current of executive contacts blocking resistance tripping resistance dimensions weight

IP20 24V,42V/50Hz 2 x 8A $7k\Omega\pm20\%$ $4k\Omega\pm20\%$

100 x 35 x 110mm (height x width x depth) 0,3kg

CONSTRUCTION

The relay is manufactured in housing type ME-35 with ingress protection IP20, mounted on DIN rail TS-35. From housing following circuits are led out:

- supply: terminals no. 1,2

- measurement input: terminal no. 3,6

- measurement input: terminal no. 4,14

measurement input: terminal 4reset input: no. 23,24 terminals

- output signal: terminals no. 4,5 and 4,22

- executive contacts: terminals no. 7,8,9 and 10,11,12.

DESCRIPTION OF OPERATION

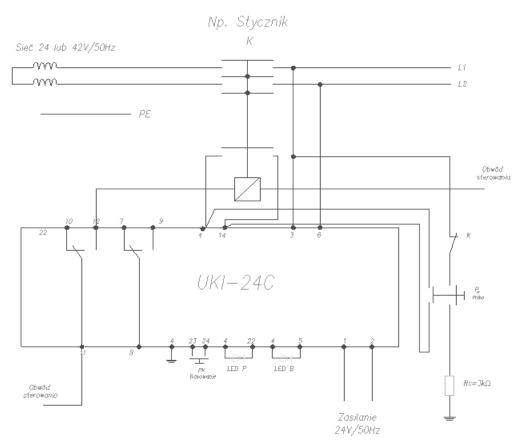
Measuring of the insulation resistance before turning on the receiver is carried out by the leakage unit relay UKI-24C. The lowering of the resistance insulation in measuring circuit of relay to value $7k\Omega\pm20\%$, causes turning off and blocking the relay, and it prevents of turning on of contactor. Re-turning on can carry out after increasing resistance of grid over value of resistance return and cancelling tripping of relay. Continuous measurement (live), insulation resistance of the circuit is carried out by the element of leakage relay. Lowering of insulation in measuring circuit of central element to value $4k\Omega\pm20\%$, causes turning off and blockade of the relay, thereby disabling the contactor. Re-turning on can carry out after increasing resistance of grid over value of resistance return and cancelling tripping of relay.

SCHEMATIC DIAGRAM

Legend:

Sieć 24 lub 42V/50Hz – 24 or 42V/50Hz grid Zasilanie 24V/50Hz – Supply 24V/50Hz Obwód sterowania – Control circuit Np. stycznik – F.e. contactor K PK Kasowanie – PK Cancelling button

P Próba – test button Rc – test resistor



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

