



Switchgear type SZR-2

for rated voltage of 500V

**CERTIFICATE OF
CONFORMITY:**
No OBAC/496/LVD/EMC/10



Switchgear type SZR-2 is an electrical device designed for use in methane-free without coal dust explosion hazard underground mining pits as well as on the ground.

Switchgear type SZR-2 is designed for connecting and switching-on receivers to mine 3-phase grid with insulated star point on the transformer (IT system) for the rated grid supply voltage of 500V in automatic power backup switching-on after a power failure of basic supply (automatic reserve switching).

The receivers are connected to the switchgear using a terminal clamps through the cable gland.

Switchgear SZR-2 is equipped with power protection against short-circuits and reduction of earth resistance.

TECHNICAL DATA:

ingress protection	IP54
rated insulation voltage of main circuits	660 V
rated power supply voltage	500V,50Hz
rated current	25, 40, 80,125, 160 A
dimensions	1250x900x370mm (H x W x D)
weight	80 kg

CONSTRUCTION

The switchgear consists of a housing mounted on a framework fitted with brackets. Frame construction allows for hanging it on the pit wall.

MODE OF OPERATION

After turning on switches Q1, Q2 and depending on the mode of control, one of the supply lines is switched on (main power supply). After the power failure in the main power supply it is switched-off and the reserve power supply is switched on. On returning of the main power supply, the reserve power supply is reconnected again.

SCHEMATIC DIAGRAM

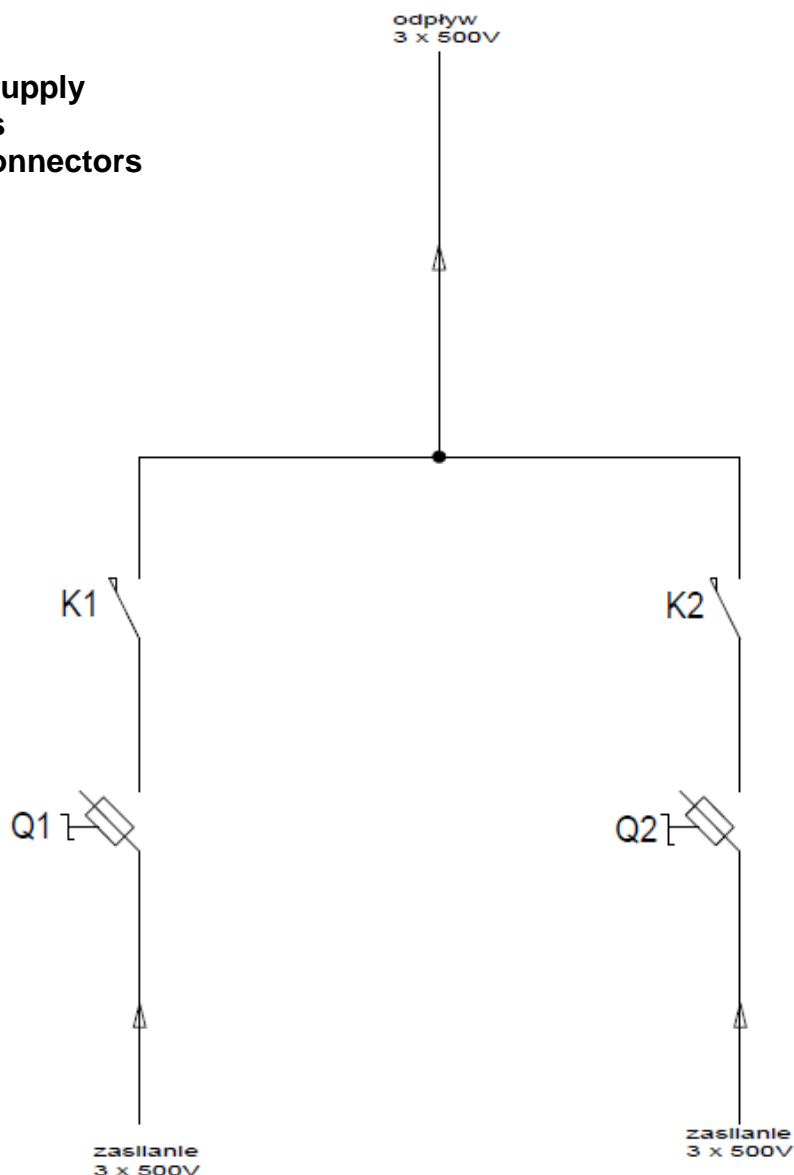
Legend:

odpływ – **outlet**

zasilanie – **power supply**

K1,K2 – **contactors**

Q1,Q2 – **fuse disconnectors**



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



Instal-Service PL

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