

# INSTAL-SERVICE PL

Spółka z ograniczoną odpowiedzialnością Spółka komandytowa

58-506 Jelenia Góra, ul. Wrocławska 15a

# Switchgear set ZB-93A



Switchgear set type ZB-93A is an electrical device designed for use in underground mining pits in non-explosion hazard conditions and on the ground in non-explosive hazard conditions.

Switchgear set ZB-93A comprises of two switchgears connected by cable type RKS5-6W and KTO-05/WL(4,1), mounted in a common structure.

Switchgear set ZB-93A is designed for connecting and switching-on receivers (especially dampers of iced water) to the mine 3-phase grid with insulated star point on the transformer (system IT) for rated voltage of 500V.

#### **TECHNICAL DATA:**

ingress protection rated voltage of main circuits insulation rated voltage of auxiliary circuits insulation rated supply voltage maximum load current of 500/230V outlets number of 500/230V outlets dimensions weight IP54 660 V 250 V 500V, 50 Hz acc. to Tab.1

6/4

900 x 1700 x 370mm (height x width x depth) 160kg

#### Table 1

Type of switchgear	Maximum load current outlet [A]	Maximum power of connected receiver Pe [kW]	Rated current of clamps from the supply side (Inz) [A]
RKS5-6W	6	4	32
KTO-05/WL(4,1)	25	-	50

email: instal@instal-service.pl

#### CONSTRUCTION

The switchgear is manufactured from steel sheets. The whole is placed on the common carrier frame. Frame can be placed directly on the ground.

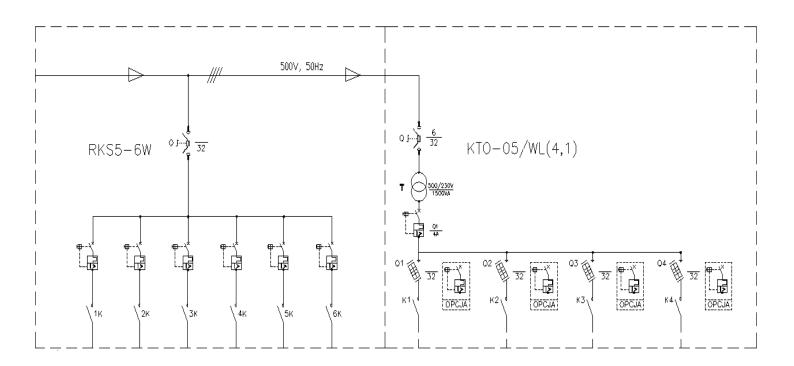
### **MODE OF OPERATION**

Switchgear set ZB-93 (RKS5-6W and KTO-05/WL(4,1) is designated for suppling receivers (especially dampers of iced water) by 500 voltage and lighting receivers by 230 voltage. Outlets of 500V supplied from switchgear RKS5-6W are turned on/off using buttons situated on the face of the switchgear. Outlets of 230V supplied from switchgear KTO-05/WL(4,1) are turned on/off using buttons situated on the face of the switchgear. Switchgears are equipped with power protections against short-circuits, overloads, lowering of insulation resistance. State of switchgear operation are signalized with luminescence diodes.

## **SCHEMATIC DIAGRAM**

#### Legend:

Q - fuse disconnector T - transformer Q1-Q4 - fuses 1K-3K, K1-K4 - contactors Opcja - option



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

