INSTAL-SERVICE PL
Spółka z ograniczoną odpowiedzialnością
Spółka komandytowa
58-506 Jelenia Góra, ul. Wrocławska 15a

Switchgear type RKS5-4/RS/W

for rated voltage 500V

Switchgear type RKS5-4/RS/W is an electrical device designed for use in the underground coal mining pits in non-explosive conditions and on the ground.

Switchgear type RKS5-4/RS/W is designed for connecting and switching on receivers in the 3-phase mine grid with insulated star point on the transformer (system IT) of rated grid voltage of 500V.

Receivers are being connected to the switchgear via buried socket or terminal strip via cable glands.

The switchgear is equipped with electrical power protections against short-circuiting, overloading, low insulation resistance and an increase in earth resistance.

TECHNICAL DATA:

Ingress protection	IP54
Insulation rated voltage of main circuits	660 V
Insulation rated voltage of auxiliary circuits	250 V
Rated supply voltage	500V, 50 Hz
Maximum outlet load current	acc. Tab.1
Number of 500 V outlets	4
Dimensions/Weight(kg)	
• hanging switchgear	1200 x 900 x 330mm(H x W x D)/80kg
• “caged” hanging switchgear	1200 x 920 x 400mm(H x W x D)/95kg

email: instal@instal-service.pl

Table 1

Switchgear type	Maximum outlet rated current [A]				Rated current of clamps from the supply side (Inz) [A]
	Outlets				
	I	II	III	IV	
RKS5-4/RS/W	160	40	40	160	400

CONSTRUCTION

The switchgear type RKS5-4/RS/W housing is made of plastic (polycarbonate, additionally reinforced with glass fiber).Optional additional mechanical shock protection is provided by a metal protective cage.

Housing's specification – opinion no **OBAC/0256/TE/16**:

- Material: glass fiber strengthened polycarbonate
- IP66
- Protection against mechanical impacts: IK 10
- Full electric insulation
- Temperature under load: -10…40°C
- Flammability classification: UL 94-5 VA (flame-retardant, halogen-free – non-toxic)

MODE OF OPERATION

The switchgear can operate in three control modes: LOCAL, SUPERVISION and REMOTE (from the SMG machine).

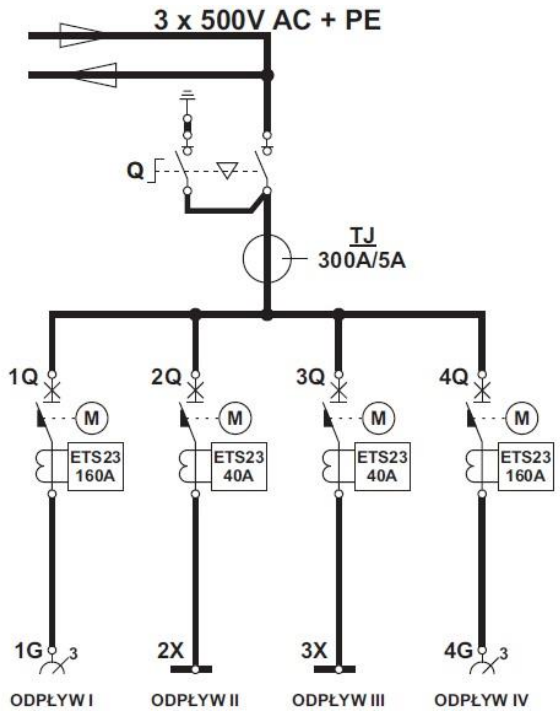
Control of outlets II and III is carried out through buttons on the face of the switchgear or through an external control system (supervision mode), control of outlets I and IV is carried out locally through buttons on the face of the switchgear or through an external control system (supervision mode) or remotely through the SMG machine.

Voltage and current measurements, tripping of outlet protections, activation of outlets, mode of operation, emergency shutdown, state of Q switch (turning on/off/grounded) are transmitted through the RS 485 ports of MSR 1 controller to the external control system,

SCHEMATIC DIAGRAM

Legend:

Odpływ - **outlet**



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

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