

## Electrical equipment for the lump breaking device type URB/NPR-6

**Safety level:**

**PLc>PLr=PLb, at  
class 1**



Electrical equipment for the lump breaking device type URB/NPR-6 was designed based on components and certified devices or those possessing declaration of compatibility, equipment is designed for use in the underground mining pits in non-explosive conditions and on the ground.

As well as designed for work in the mine grid with insulated star point on the transformer (system IT) of rated grid voltage of 500V.

Power supply system of the hydraulic aggregate (hydraulic aggregate engines: main drive of 30 kW power, radiator of (3 or 4) kW power and auxiliary outlet of (3 or 4) kW power are all supplied from 500V switchgear type RKS5-3K/URB).

Options (additional equipment) provides switchgears: power supply switchgear type BPP-05, type RKS5-5/Z for supplying power to the feeder and fan, and switchgear type KTO-05W/11(2,6) for supplying power to the lighting.

### TECHNICAL DATA:

Ingress protection  
Rated supply voltage  
Rated control voltage  
Rated auxiliary voltage  
Safety level

IP54  
500 VAC  
24 VAC  
24 VDC  
PLc>PLr=PLb, at class 1

## CONSTRUCTION

The switchgear and control cabinet housings are made of steel sheets. They were designed and constructed in a way that allows fitting hooks and chains used to hang them or weld them to another construction.

## MODE OF OPERATION

Electrical equipment for the lump breaking device type URB/NPR-6 is turned on/off from a control cabinet SS-URB (except for the auxiliary outlet which turns on/off from face of switchgear type RKS5-3K/URB).

a/ control of the hydraulic aggregate main drive engine

Turning on/off the hydraulic aggregate main drive engine on/off is carried out by a power button.

Turning the hydraulic aggregate main drive engine on enables control of the movement of the arm and jib, as well as work of the hammer which is done manually by means of hydraulic distributors built in the control cabin

b/ control of the lubricator S-1 and S-12

Lump breaking device type URB/NPR-6 requires lubrication of specific points which is carried out by lubricators (single point) S-1 and (dozen points) s-12.

Turning the lubricator on is carried out by a switch on face of the switchgear type RKS5-3K/URB. The lubricator operates until turning off the switch.

c/ control of the aggregate radiator engine

Turning the aggregate radiator engine on/off is carried out automatically by the oil temperature sensor.

d/ control of the entry lamps

Turning the supply power of the entry lamps on/off is carried out by the SW switch.

e/ control of the feeder (option)

Turning the feeder on/off is carried out by pressing the power button (on face of the SS-URB cabinet).

## SCHEMATIC DIAGRAM

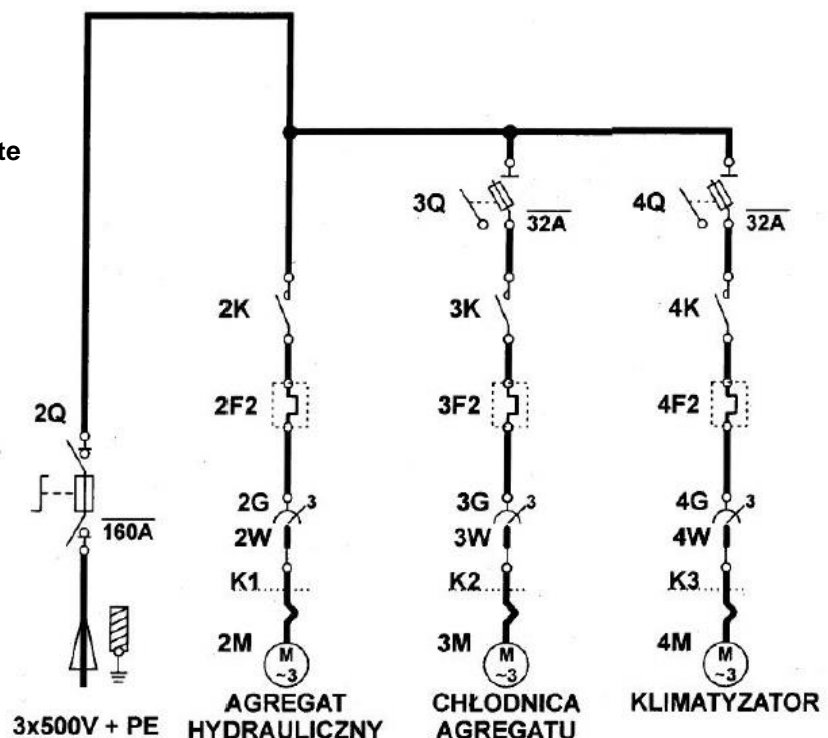
### Legend:

Odpiyw – outlet

Agregat hydrauliczny – **Hydraulic aggregate**

Chłodnica agregatu – **Aggregate radiator**

Klimatyzator – **Air conditioner**



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