



Spółka z ograniczoną odpowiedzialnością Spółka komandytowa

58-506 Jelenia Góra, ul. Wrocławska 15a

Switchgear type BTW-05/7 for rated voltage 500V



Switchgear BTW - 05/7 is an electrical device designed for use in underground mining in non-explosive hazard conditions as well as on the ground. Switchgear type BTW - 05/7 is designed to connecting and switching on air regulating damper (with AUMA NORM drives), controlling the flow of air through gangways, in a 3-phase mine grid with isolated star point of the transformer (IT) for rated grid voltage of 500V.

TECHNICAL DATA:

ingress protection rated supply voltage rated voltage of external lighting circuit rated power rated current weight dimensions IP54 500V/50Hz 24V DC up to 10kW, up to 16 A 120kg 1000x1300x270mm (H x W x D)

CONSTRUCTION

Switchgear type BTW-05/7 consists of two enclosures out of steel sheet. The housing is mounted on a frame out of profiled steel bars equipped with brackets allowing for hanging the device chains mounted to the wall of mine excavation.

Inside the first housing, there is 500V equipment and the transformer and in the second one the elements of control circuits for 24V AC/DC voltage.

On the face doors, there are control buttons and control lights. The housing comply with anti-corrosion requirements according to standards PN-84/H-97080,06 for C class corrosive aggression.

MODE OF OPERATION

Electrical switchgear system allows control of the dumper in three modes:

- LOCAL, provided to control the face of cabinet SS-T/7,
- FACE, provided to control from the face of the switchgear BTW-05/7,
- REMOTE, provided to control from external systems, such as dispatching unit, this mode of control is preferential over the other control modes, i.e. after switching on the fuse disconnector Q or on pushing the emergency buttons SA and SA1, the REMOTE control mode is set automatically.

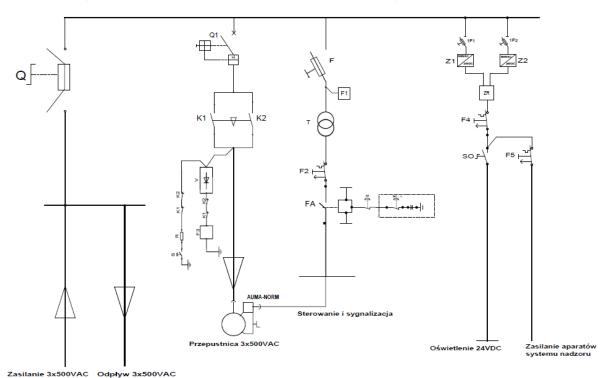
Control of the dumper is carried out using control cabinet SS-T/7 and via the buttons on its face. After pressing control buttons on the cabinet or on the switchgear face, buzzer and lamps signalling is turned on 5s time. After the set time, the main contactor is turned on and the dumper starts to open. The dumper is stopped from the control cabinet SS-T/7 on pressing the appropriate button.

SCHEMATIC DIAGRAM

Legend:

Zasilanie – power supply
Odpływ – outlet
Przepustnica – air regulating damper
Sterowanie i sygnalizacja – control and signalling
Oświetlenie zewnętrzne 24VDC –external lighting

Zasilanie aparatow systemów nadzoru – power supply of dispatching systems



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

