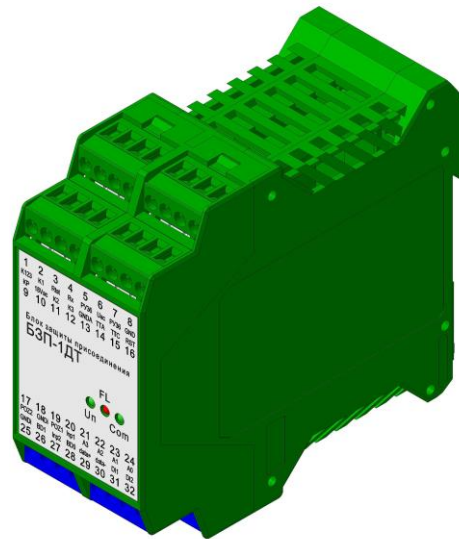


BLOCK OF PROTECTION AND CONTROL OF OUTGOING CONNECTION OF БЗП-1ДТ TYPE



MAIN FUNCTIONS

Block of protection and control of outgoing connection (БЗП) intended for comprehensive protection and remote control of outgoing connections miner switching device, transformer substations and switchgear with voltage up to 1200V at 50 Hz.

Application area - industrial and mining units, located in mines, that are hazardous with gas (methane) and (or) coal dust, with power from the network with isolated neutral.

Block provides the configuration and control via RS-485 communication interface with MODBUS RTU protocol from an external controller or a special control panel.

For the block operation it is required two current transformer measuring phase currents.

Protection functions:

- a maximal current protection (MT3);
- overcurrent (depending on the current set point);
- inrush current protection;
- underload;
- phase current asymmetry protection;
- under- and over-voltage;
- insulation control;
- a continuous monitoring of the resistance of auxiliary low-voltage circuits 36-42V;
- temperature/posistor protection of motor (via posistor sensors in the motor);
- intrinsically safe remote control of one or two contactors (reverse option) with :
 - protection from the loss of controllability during the closing of the remote control cores
 - control of the ground circuit via diodes.

TECHNICAL DATA

Supply voltage	36/42VAC (+15...-35%), 50Hz
Supply voltage auxiliary	18VAC (+10...-35%), 50Hz
Current consumption	0,1A (36V);0,15A (18V)
Current control input	2 ($U_{nom}=7,2V_{ac}$)
Intrinsically safe control input	2 (18Vac, <60mA)
Status of ready on/off contactor input	1
Temperature control input	2 (posistor/Pt100/Pt500/Pt1000)
Power circuit isolation control input	1 (100V, 0,5mA)
Low voltage circuit isolation control input	2 (100V, 0,5mA)
Relay outputs	3 (6A, 250Vac at $COS\phi>0,3$)
Communication interface	isolated, RS-485
Communication protocol	MODBUS RTU
Address setting input	4 (setting address - 64...79)
Communication speed setting input	2 (19200/38400/57600/115200)
Ambient temperature	0...+40°C
Relative humidity	98% at a temperature 35°C
Dimensions	115×45×100mm (l×w×h)
Mounting	DIN-rail 35mm
Weight	not more than 0,25 kg

MANUFACTURER'S WARRANTY

Warranty period – 12 months from the date of commissioning of the device, but not more than 18 months from the date of delivery.

CONTACTS

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