



EXPLOSION PROOF DRY TRANSFORMER

Explosion proof dry transformer substation BCTII-630/6; BCTII-1000/6

Substations type BCTII are designed to power three-phase current power equipment, installed in underground mines, hazardous gas (methane) and coal dust, as well as to provide protection against leakage and overcurrent protection, and in combined networks according to «Rules of safety in coal and shale mines». Substations are designed for the local market (ГОСТ 16837, ГОСТ 22782.0), and for supplies to Russia and countries CIS. Climatic versions substations УХЛ-5 and Т 5 according to ГОСТ 15150. Substations by level and type of explosion have execution: PB-4B-3B (Exdial) according to ГОСТ 12.2.020, PB (Exdial) by ГОСТ Р 51380.1. Degree of defence of shells of substation not below IP 54 по ГОСТ 14254. Explosion-proof, dry transformer substations of type BCTII-1000/6-1,2

and BCTII-630/6-1,2/0,69, different from analogical substations:

- increased by magnet core, expected for 100% loading during all tenure of employment, unlike КТПВ, counted on the 60% loading;
- some increase of mass of electrical engineering iron and transformer copper allows to increase reliability and longevity of work of substations, that ranks together them with the before produced substations of series ТСШВП, working on coal enterprises for 30 and more;
- by the construction of case with deep bumps and separation the air interval of subzero distribution equipment from active part, that improves the thermal mode of transformer and work of apparatus.

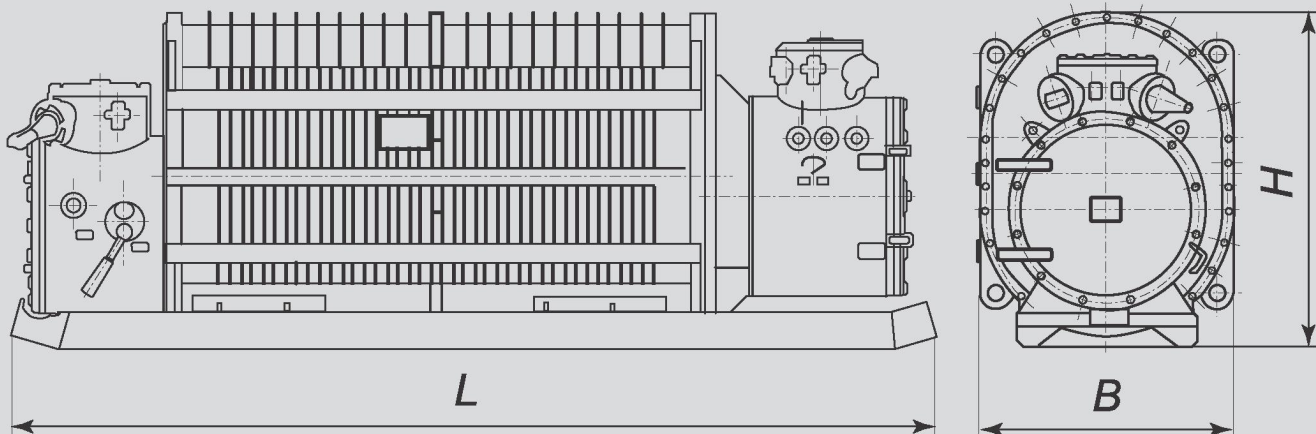


Fig. 1. Explosion proof dry transformer substations BCTII-1000/6

Table 1. Overall dimensions and weight of explosion proof and dry transformer substations

| Version of motors | Sizes, mm | | | Weight (without of wheelsets), kg | Weight of wheelsets, kg | |
|-------------------|-----------|------|------|-----------------------------------|-------------------------|--------------|
| | L | B | H | | track 600 mm | track 900 mm |
| BCTII-1000/6-1,2 | 3800 | 1080 | 1400 | 5600 | 151 | 152 |
| BCTII-630/6-1,2 | 3620 | 1080 | 1400 | 5300 | | |