



Baldwin Mining Transformer (BMT)

Distribution Transformers

1MVA to 2MVA / 2.5MVA / 3MVA to 5MVA



Product Range:

BMT range of distribution transformers

Applications:

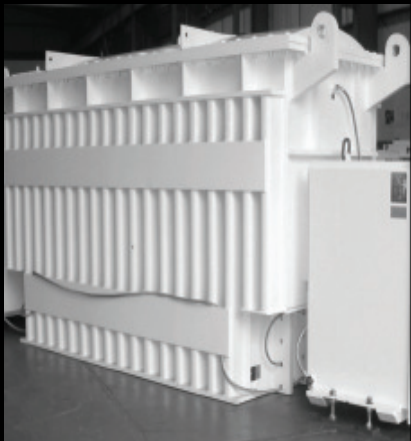
Electrical supply distribution for flameproof mining applications

Product Highlights:

- * Wide range of primary voltages – up to 12kV
- * Wide range of secondary voltages – up to 7.2kV
- * Wide range of power ratings – 100-5,000kVA
- * Phase Shift transformers for 12 pulse applications
- * Low height 5-limb option available

Certification:

All B&F products are ATEX certified. In addition, we are able to offer country specific certification where required.





Telephone.
+44 (0) 114 286 6000

Facsimile.
+44 (0) 114 286 6059

Email.
sales@baldwinandfrancis.com

Address.
President Way, President Park, Sheffield, S4 7UR United Kingdom

BMT

Distribution Transformers - 1to 2MVA / 2.5MVA / 3 to 5MVA

Technical Specifications

Primary voltage (HV) : Up to and including 12kV, Dual Voltage option available
Secondary voltage (LV): Up to and including 7.2kV, Dual Voltage option available
Frequency: 50/60 Hz

Power Ratings: Range from 100 to 5,000kVA (1MVA to 5MVA)
Vector group: All major vector groups supported
Insulation Class: C"220"
Cooling: ANAN

Taps: HV winding taps are provided using captive links on a link board under a separate FLP cover. In addition to the normal ratio, - 5% and -10% taps are provided. Alternative tap settings may also be specified, with both positive and negative taps available.

Tank Construction: Fabricated steel construction using mild steel plate and corrugated steel side plates. Tank covers may be fitted with additional fins to provide additional heat dissipation. Shot- blasted and de-scaled prior to pre-treatment with high performance coatings to both the internal and external tank surfaces.

Core Construction: Manufactured from cold rolled, grain oriented silicon coated steel laminations. The core is of a semi-mitred construction, and core clamps are manufactured from substantial steel sections insulated from the core to prevent eddy currents.

HV Winding: Either continuous disc or spiral construction (the latter permits additional cooling ducts as required). Copper conductors covered with Nomex 410 or equivalent insulation, impregnated with a silicon varnish.

LV Winding: Dual Nomex-insulated copper foil design using dual Nomex layers the insulating medium. All coil insulation material is Class 220. The complete coil stack is impregnated with Dow Corning 994 high temperature silicon varnish and baked at 200/250°C.

Fittings: Compatible with our range of transformer HV & LV protection switches.

Weights & Dimensions:

Rating	Features	Height (m)	Length (m)	Width (m)	Weight (kg)
750kVA	3-Limb standard	1.63	2.91	1.16	7,500
1MVA	3-Limb standard	1.25	2.49	0.95	8,000
1MVA	5-Limb low height	1.08	2.97	0.95	8,500
2MVA	3-Limb standard	1.77	3.45	1.35	12,000
2MVA	5-Limb low height	1.61	4.08	1.40	12,750
2.5MVA	3-Limb standard	1.97	3.50	1.52	14,000
2.5MVA	5-Limb low height	1.40	4.08	1.30	15,000
3MVA	3-Limb standard	1.95	3.48	1.53	15,500
5MVA	3-Limb standard	2.07	5.10	1.92	24,000
5MVA	5-Limb low height	1.77	5.65	2.12	25,000