Athens, GA



ISO 9001 Certified

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2009

JUMBO "Step Down" Overhead Distribution Transformer



Power Partners, Inc. "JUMBO" Distribution Transformers are designed as single phase, two-winding transformers—specifically for "Step-Down" applications.

Standard Features

- Lo-Hi-Lo coil design divides the short circuit force between two low-high spaces increasing the short circuit strength of the coil.
- Two winding construction yields a much higher impedance than is characteristic of an auto transformer which helps limit the mechanical forces the unit must sustain during fault duty.
- Progressively wound coils with adhesive resins on thermally upgraded insulating paper provide increased short circuit and thermal strength.
- Sheet conductor in LV windings enables the electrical centers in the high and low to align themselves minimizing the vertical component of short circuit forces.
- 5. Reinforced core-coil assembly provides greater short circuit withstand capability.
- Prototype testing insures the Jumbo design can meet industry short circuit standards and provide reliable service.

- Self-venting and resealing cover eliminates the need for an auxiliary pressure relief device and offers increased safety through higher tank withstand.
- ANSI support lugs (hanger brackets) are rod-welded to the tank wall for added strength.
- 9. Anodized aluminum laser inscribed nameplate offers longer term readability.
- Lifting lugs are positioned directly opposite the cover beam support lugs, reducing the chance of the tank going out of round when lifted.
- 11. Cover mounted high voltage porcelain bushings with eyebolt terminals are mounted on flat embossments on the cover and have undercut gasket seats for improved sealing. The eyebolt connectors are cast bronze plated with tin
- Low voltage porcelain bushings with clamp-type terminals provide ease in making secondary terminations.
- 13. Arrester mounting pads are resistance welded to the tank wall, completely and uniformly filling the surfaces where pad and tank wall join, to provide greater strength.

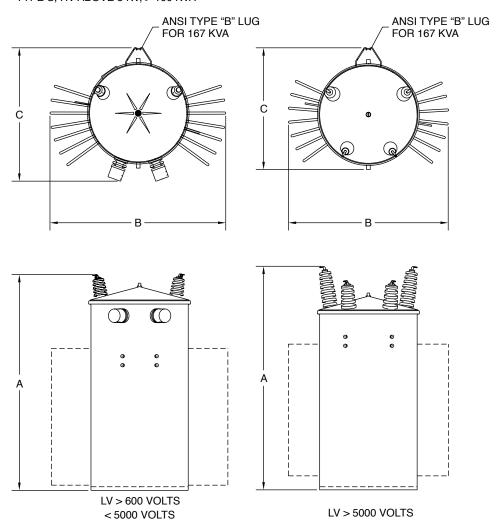
14. The paint finish process applies a durable, corrosion resistant finish to the product. The finish meets or exceeds all the performance requirements of ANSI C57.12.28. The multi-step process includes an epoxy primer uniformly applied by cationic electrodeposition and a urethane top coat.

Ratings

- 50-1000 kVA
- 65°C Rise
- 60 Hertz standard, 50 Hertz optional
- High voltages: 7200, 14400 and 19920
- Low voltages: 2400, 4800, 7200, 7620, 7970

Standard Design Dimensions and Weights

JUMBO LIQUID IMMERSED OVERHEAD DISTRIBUTION TRANSFORMER TYPE S, HV ABOVE 5 KV, > 100 KVA



All Approximate Dimensions shown reference designs with +/- 2.5% Taps

Jumbo

Α			C					
7200 HV	14400 HV	В	2400LV	7200LV	D	Wgt	Ship Wgt	OIL Qty
45	47	24	28	25	20	750	785	36
Not Available 45	52	31	31	31	22	1095	1150	50
58 54 54 69	52 56 64 68	33 41 45 45	37 37 37 39	33 33 33 36	27 27 27 27	2010 2340 2400 3065	2090 2440 2500 3165	88 85 88 120
	7200 HV 45 Not Available 45 58 54 54	7200 HV 14400 HV 45 47 Not Available 45 52 58 52 54 56 54 64	7200 HV 14400 HV B 45 47 24 Not Available	7200 HV 14400 HV B 2400LV 45 47 24 28 Not Available 45 52 31 31 58 52 33 37 54 56 41 37 54 64 45 37	7200 HV 14400 HV B 2400LV 7200LV 45 47 24 28 25 Not Available 45 52 31 31 31 58 52 33 37 33 54 56 41 37 33 54 64 45 37 33	7200 HV 14400 HV B 2400LV 7200LV D 45 47 24 28 25 20 Not Available 45 52 31 31 31 22 58 52 33 37 33 27 54 56 41 37 33 27 54 64 45 37 33 27	7200 HV 14400 HV B 2400LV 7200LV D Wgt 45 47 24 28 25 20 750 Not Available 45 52 31 31 31 22 1095 58 52 33 37 33 27 2010 54 56 41 37 33 27 2340 54 64 45 37 33 27 2400	7200 HV 14400 HV B 2400LV 7200LV D Wgt Ship Wgt 45 47 24 28 25 20 750 785 Not Available 45 52 31 31 31 22 1095 1150 58 52 33 37 33 27 2010 2090 54 56 41 37 33 27 2340 2440 54 64 45 37 33 27 2400 2500

Overall weights and dimensions are given in pounds, inches or gallons and are approximates

A = Overall Height, B = Overall Width, C = Overall Depth, D = Tank Diameter

Power Partners Inc.