

Product Data VTO-DB-200 Voltage Transformer 34.5 kV Class 200 kV BIL

Inductive Voltage Transformer

Application

The VTO-DB-200 is an outdoor, inductive voltage transformer suitable for metering -- applications on 20,125 L-G and 34,500 L-L volt systems at 200 kV BIL, at 60 Hz. Two bushings provide for line to line and line to ground application depending on the model ordered.

Fabrication

All ITEC transformers utilize high permeability, low loss, grain orientated silicon steel cores to optimize performance and physical size of the transformers.

Transformer tanks and expansion chambers are manufactured from mild steel and finished with the latest powder coating technology to withstand the most rigorous environmental conditions. Standard finish color is ANSI 70 light Gray.

All VTO's are hermetically sealed, full vacuum assemblies provided with a dry nitrogen cushion.

One-piece, wet processed porcelain bushings are used on all VTO's. Bushings are designed to exceed IEEE standards for creep and strike distances. The standard bushing color is ANSI 70 light Gray.

The primary terminals are a 4-hole NEMA pad, suitable for use with copper or aluminum bus connections. The secondary connections are ½"-20 copper studs with hex nuts, cup washers and lock washers located in a weatherproof, hinged cover, terminal box with three (3) conduit knockouts suitable for 1-½" conduit hubs. All VTO's are equipped with a stainless steel, NEMA 2-hole ground pad.

All VTO's are equipped with a magnetic oil level gauge, ½" drain valve, ½" oil fill plug and pressure relief valve.

Accuracy

VTO-DB-200's are designed to provide 0.3% accuracy class when loaded with IEEE burdens of W, X, Y, Z and ZZ.

Magnetic Circuits

The VTO-DB-200 is available in single and dual ratio with taps depending on the model ordered.



Mounting

The VTO-DB-200 is designed for mounting on substation structures.

Seismic Rating

The VTO-DB-200 has been qualified through Dynamic Analysis to withstand High Level per IEEE 693-2005.

Testing

Every transformer is tested in accordance with IEEE Standard C57.13 (latest revision). Standard tests include applied and induced voltage, accuracy, polarity, dissipation factor and partial discharge. All transformers are guaranteed to be partial discharge free at 135% of nominal system voltage.

Options

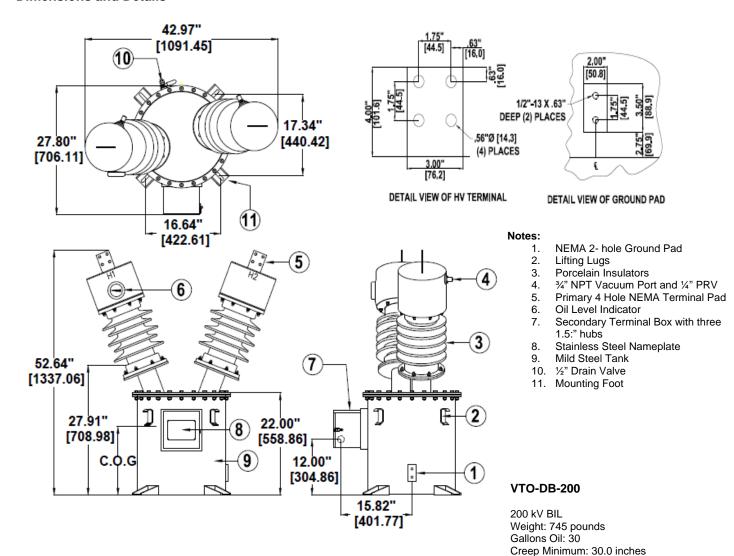
- Stainless Steel Tank and/or Expansion Chamber.
- Extra Creep Bushings

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Dimensions and Details



Primary Voltage L-G & L-L	Secondary Voltage	Winding Ratio	Thermal Rating	0.3 Accuracy Class / Burden Ratings	Catalog Number
20125 & 34500	115/67.08 & 115/66.4:1	175/300 & 300/520:1	4500 VA	W, X, Y, Z, ZZ	VA202000520T000
34500	115	300:1	4500 VA	W, X, Y, Z, ZZ	VA202000300S000

This information is subject to change without notice. ITEC is not responsible for typographical errors.

Other ratings and options may be available Please contact the factory with your requirements.

Strike Minimum: 12.0 inches

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