# Instrument Transformer Equipment Corporation

Product Data VTO-1050 Voltage Transformer 230 kV Class 1050 kV BIL

## Inductive Voltage Transformer

### Application

The VTO-1050 is an outdoor, inductive voltage transformer suitable for metering or relaying applications on 230,000 volt systems at 1050 kV BIL, at 60 Hz.

#### 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 terminal is a 4-hole NEMA pad, suitable for use with copper or aluminum bus connections. The secondary connections are  $\frac{1}{4}$ "-20 copper studs with hardware located in a weatherproof, hinged cover, terminal box with three (3)  $1-\frac{1}{2}$ " conduit hubs. All VTO's are equipped with a stainless steel, NEMA 2hole ground pad.

All VTO's are equipped with a 5kV HO bushing, magnetic oil level gauge, <sup>3</sup>/<sub>4</sub>" drain valve, <sup>3</sup>/<sub>4</sub>" oil fill plug and pressure relief valve.

#### Accuracy

VTO-1050's are designed to provide 0.3% accuracy class when loaded with IEEE burdens of W, X, Y, Z and ZZ. Optional High Accuracy 0.15% class is available at W, X, Y and Z Burdens.

### **Magnetic Circuits**

The VTO-1050 is available in single, dual ratio, dual ratio with taps and up to three secondary windings.



#### Mounting

The VTO-1050 is designed for mounting on substation structures.

#### **Seismic Rating**

The VTO-1050 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.

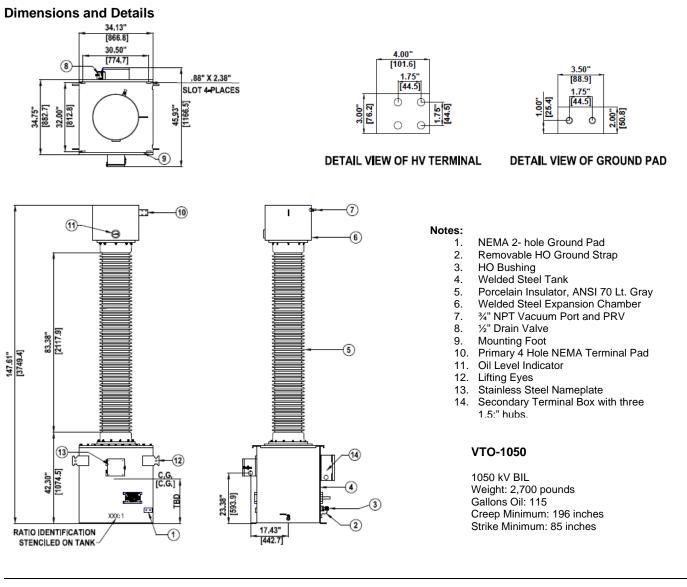
#### Options

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

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Primary Voltage	Secondary Voltage	Winding Ratio	Thermal Rating	0.3 Accuracy Class / Burden Ratings	Catalog Number	0.15 Accuracy Class / Burden Ratings	Catalog Number
138000	115	1200:1	3000 VA	W, X, Y, Z, ZZ	VA110501200S000	W, X, Y, Z	VH110501200S000
138000	115 & 115	1200 & 1200:1	3000 VA	W, X, Y, Z, ZZ	VA110501200X000	W, X, Y, Z	VH110501200X000
138000	115/65.71	1200/2000:1	3000 VA	W, X, Y, Z, ZZ	VA110501200D000	W, X, Y, Z	VH110501200D000
138000	115/67.71 & 115/67.71	1200/2000 & 1200/2000:1	3000 VA	W, X, Y, Z, ZZ	VA110501200T000	W, X, Y, Z	VH110501200T000

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.

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