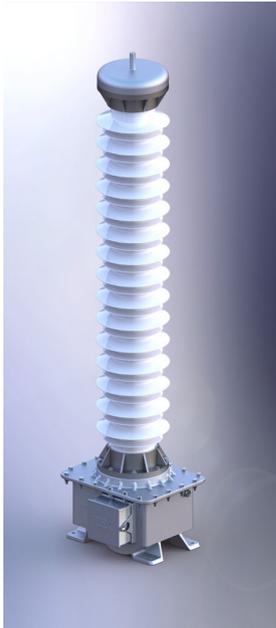


Coupling Capacitor Voltage Transformer (CCVT) – VTOC

Product Data

VTOC-350
Voltage Transformer
69 kV Class
350 kV BIL



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Application

The VTOC-350 is an outdoor, Coupling Capacitor Voltage Transformer suitable for metering or relaying applications on 69,000 volt systems at 350 kV BIL, and 60 Hz.

Fabrication

The capacitor stacks are made up of individual capacitor elements wound using a mix of kraft paper and polypropylene film series. The capacitor elements are connected utilizing low inductance copper tabs. The elements are mechanically compressed and bound into a stable assembly which provides consistent accuracy performance over the life of the transformer. Each assembly is installed into a hollow core porcelain insulator, vacuum processed and filled with a synthetic capacitor fluid. The capacitor stack is hermetically sealed utilizing a stainless-steel bellows allowing for expansion of the fluid within a wide range of temperatures.

The electromagnetic unit (EMU) is housed in a cast aluminum tank at the base of the transformer and steps down the intermediate voltage of the capacitor stack to voltages suitable for relaying and metering applications.

All VTOC's are equipped with a passive ferroresonance suppression circuit, external grounding switch, HF/LV terminal, Oil level indicator, drain plug and ground pad.

Accuracy

VTOC-350's are designed to provide 0.3% accuracy class when loaded with IEEE burdens of W, X, Y, Z and up to ZZ. Optional High Accuracy 0.15% class is available at W, X, and Y Burdens.

Winding Configurations

The VTOC-350 is available in single, dual ratio, dual ratio with taps and up to two secondary windings.

Mounting

The VTOC-350 is designed for mounting on substation structures.

Seismic Rating

The VTOC-350 has been qualified through Dynamic Analysis to withstand High Level withstand per IEEE 693-2018.

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Testing

Every transformer is tested in accordance with IEEE Standard C57.13.9 (latest revision). Standard tests include applied and induced voltage, polarity, dissipation factor and capacitance, ferro-resonance test, accuracy, ratio, and partial discharge. All units are guaranteed to be PCB free.

Options

- ◆ Silicone Composite Insulators
- ◆ Power Line Carrier Accessories

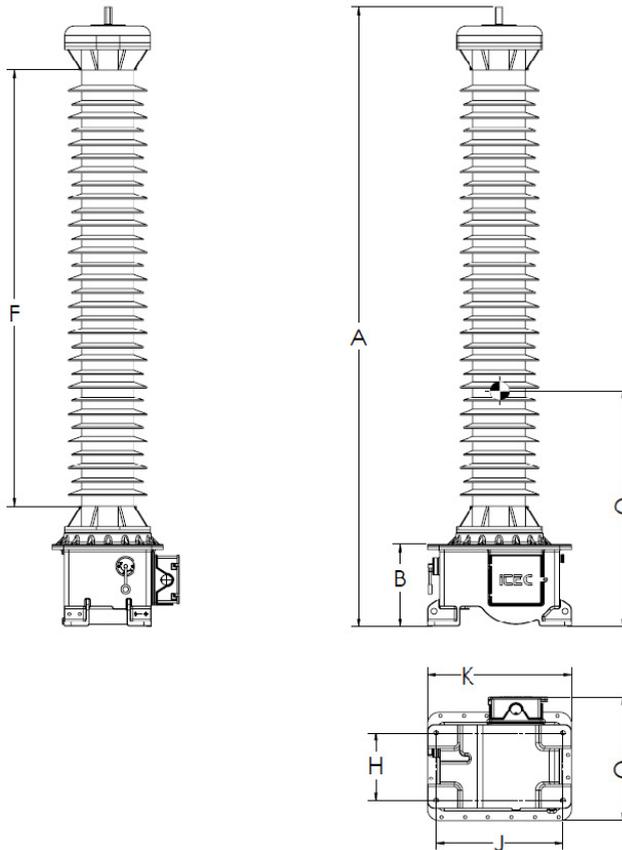
Dimensions and Details

Notes

1. Primary Terminal
2. Capacitor Stack (Divider)
3. Porcelain Insulator, ANSI 70 Lt. Gray
4. EMU aluminum tank and cover
5. Drain plug
6. Oil Level Indicator
7. Lifting Eyes
8. NEMA 2 hole ground pad
9. Nameplate
10. Secondary Terminal Box with a Gland plate

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.



Model	BIL (kV)	A	B	C	F	G	H	J	K	Wt (lbs)	Gals	Oil Volume (gals)	Creep Min	Strike Min
VTOC-350	350	61.46"	15.83"	19.31"	31.10"	24.53"	11.81"	24.21"	27.77"	738.5	5.92	12.1	69"	31.1"

Primary Voltage	Secondary Voltage	Winding Ratio	Thermal Rating	Accuracy Class/ Burden Ratings	Capacitance (pF)	Catalog Number
40250	115/67.08 & 115/67.08	350/600 & 350/600:1	1000 VA	0.3 W, X, Y, Z	11000	YL0350M3B0350T000