

Station Service Transformer

Product Data PST-350 Station Service Transformer 69 kV Class 350 kV BIL

Application

Type PST voltage transformers are designed to provide remote location power needs up to 167 kVA on a systems rated 69 kV, 40,250 volts line to ground at 350 kV BIL primary.

Product Mechanical Details

Transformer tanks and expansion chambers are fabricated from mild steel and protected with the latest technology, powder coated external finish ANSI 70 light gray is the standard finish color. All PST's are hermetically sealed, full vacuum assemblies provided with a dry nitrogen cushion.

One-piece, wet processed porcelain bushings are used on all PST'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 NEMA standard 4-hole pad, suitable for copper or aluminum bus connectors. The secondary power terminations are NEMA 6-hole spades located in a 20" x 22" x 10" terminal box with removable bottom plate. Optional metering winding terminations are ¼"-20 studs with flat and lock washers located inside a separate 8" x 8" x 6" terminal box with three (3) 1.5" conduit hubs. A NEMA 2-hole, stainless steel tank ground pad is provided.

All PST's are equipped with a 5kV HO bushing, magnetic oil level gauge, ¾" drain valve, ¾" oil fill plug and pressure relief valve.

Winding Options

The standard PST voltage transformer has two (2) isolated power windings that are designed to be connected in either series or parallel to provide the rated output voltages 125/250V for control power. Optional metering winding configurations are available. The transformer is accurate from 90% to 110% or rated primary voltage. 0.3% accuracy is available through IEEE burdens of W, X, Y, Z and ZZ.

The metering windings are typically used for control or relay applications and will remain accurate up to 10% loading of rated KVA. The metering windings will be less accurate as the power winding loading is increased.



Mounting

All PST voltage transformers are designed for outdoor, vertical platform mounting and must not be tilted more than 15 degrees from vertical.

Testing

Every transformer is tested in accordance with IEEE Standard C57.13 (latest revision).

Seismic Withstand Capability

All PST designs are rated for high seismic withstand per IEEE 693 through dynamic analysis.

Tel: (704)-282-4331

Fax: (704) 283-3017 Email: sales@itec-ctvt.com

Options

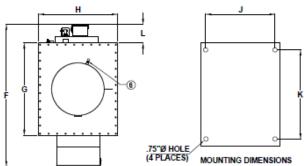
Stainless Steel Tank and/or Expansion Chamber Extra Creep Bushings

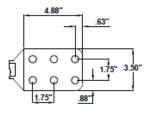


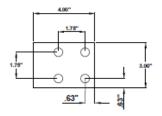
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Dimensions and Details







SECONDARY TERMINALS

PRIMARY 4 - HOLE NEMA PAD

Notes:

- 3/4" NPT Drain Valve 1.
- HO Neutral Bushing w/ removable ground strap 2.
- **HO Bushing Guard**
- Porcelain Insulator, ANSI 70 Lt. Gray
- **Expansion Chamber**
- 6. 3/4" NPT Vacuum/Fill Port
- Primary Terminal 4 hole NEMA Pad
- Oil Level Indicator 8.
- Stainless Steel Nameplate
- 10. Mild Steel Tank
- 11. Lifting Eyes
- 12. Secondary Terminals NEMA 6 hole NEMA Pad
- Secondary Terminal Box with removable bottom
- 14. 2 Hole NEMA Ground Pad
- 15. Optional Metering Terminal Box with (3) 1.5" conduit hubs.

PST-350

350 kV BIL

Creep Min: 52 inches Strike Min: 23 inches

Voltages, Ratios and Catalog Numbers

KVA	Primary Voltage	Power Winding Voltage	Power Winding Ratio	Metering Winding	Metering Winding	Catalog Number			
				Voltage	Ratio	Power	Metering		
10	40250	250/125	161/322:1	115/67.08 &115/67.08	350/600 & 350/600:1	PA1035032210P01	PA1035032210M01		
25	40250	250/125	161/322:1	115/67.08 &115/67.08	350/600 & 350/600:1	PA1035032225P01	PA1035032225M01		
50	40250	250/125	161/322:1	115/67.08 &115/67.08	350/600 & 350/600:1	PA1035032250P01	PA1035032250M01		
100	40250	250/125	161/322:1	115/67.08 &115/67.08	350/600 & 350/600:1	PA1035032299P01	PA1035032299M01		
167	40250	250/125	161/322:1	115/67.08 &115/67.08	350/600 & 350/600:1	PA1035032267P01	PA1035032267M01		

Dimensions and Weights

KVA	Α	В	С	D	E	F	G	н	J	K	L	Weight	Gals
10	72.04"	22.78"	28.38"	7.26"	24.38"	58.15"	37.12"	31.62"	30.75"	30.75"	9.84"	2,750	110
25	72.04"	22.78"	28.38"	7.26"	24.38"	58.15"	37.12"	31.62"	30.75"	30.75"	9.84"	2,750	110
50	84.28"	22.78"	41.51"	18.38"	32.12"	73.67"	47.51"	40.52"	38.00"	46.00"	9.84"	4,670	270
100	84.28"	22.78"	41.51"	18.38"	32.12"	73.67"	47.51"	40.52"	38.00"	46.00"	9.84"	4,670	270
167	99.91"	22.78	49.38"	16.50"	45.56"	99.57"	73.60"	53.60"	46.50"	72.00"	9.84"	10,520	667

This information is subject to change without notice. ITEC is not responsible for typographical errors. © Copyright 2016 Instrument Transformer Equipment Corporation Other ratings and options maybe available Please contact the factory with your requirements.

PO Box 129 Monroe, NC 28110-0129 www.itec-ctvt.com

Tel: (704)-282-4331 Fax: (704) 283-3017 Email: sales@itec-ctvt.com