



# Medium Voltage Indoor Voltage Transformer Model PT6-1-125 ANSI Groups 4A & 4B

REGULATORY AGENCY APPROVALS



Manufactured to meet the requirements of ANSI/IEEE C57.13.



ONE BUSHING

**ACCURACY CLASS:**

0.3 WXYZ 1.2ZZ at 100% rated voltage with 120V based ANSI burden.

0.3 WXY, 1.2Z at 58% rated voltage with 69.3V based ANSI burden.

**FREQUENCY:**

60 Hz.

**MAXIMUM SYSTEM VOLTAGE:**

25.5kV, BIL 125kV.

**THERMAL RATING:**

1500 VA at 30°C amb.

1000 VA at 55°C amb.

**WEIGHT:**

Approximate weight 125 lbs.

	GROUP	PRIMARY VOLTAGE (a)	RATIO	SECONDARY VOLTAGE	CATALOG NUMBERS	R <sub>FR</sub> (c)
	4A	10200	85:1	120	PT6-1-125-1022	80 ohms
	4A	*12000	100:1	120	PT6-1-125-123	80 ohms
	4A	13200	110:1	120	PT6-1-125-1322	80 ohms
	4A	13800	115:1	120	PT6-1-125-1382	80 ohms
	4A	*14400	120:1	120	PT6-1-125-1442	80 ohms
	4B	*18000	150:1	120	PT6-1-125-183	50 ohms
	4B	*21000	175:1	120	PT6-1-125-213	50 ohms
	4B	*24000	200:1	120	PT6-1-125-243	50 ohms

NOTE: All primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by industry Canada, Approval No. AE-0676 Rev.2

# Model PT6-1-125 ANSI Groups 4A & 4B

(a) Also available are other ratios and frequencies, double secondaries and units meeting IEC 44-2 rated voltage factors of 1.50 or 1.90.

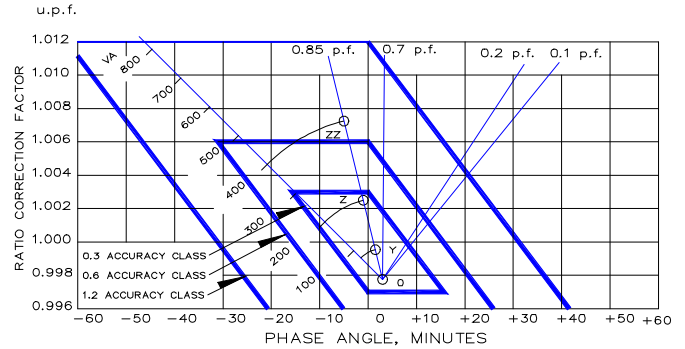
(b) Voltage transformers connected line-to-ground cannot be considered to be grounding transformers and must not be operated with the secondaries in closed delta because excessive currents may flow in the delta.

(c) See page 32, item 1 for ferroresonance considerations.

Note: It is recommended that the system line-to-line voltage not exceed transformer maximum system voltage level.

- Primary terminals are 3/8-16 brass screws with one flatwasher and lockwasher.
- Secondary terminals are 1/4-20 brass screws with one flatwasher and lockwasher.
- The core and coil assembly is vacuum encapsulated in polyurethane resin.
- A primary fuse is not supplied, but is recommended. Use a 25kV, 0.5E rated fuse for primary ratings of 13000 volts or greater and 1.0E for those rated less than 13000 volts.
- A test card is provided with each unit.

## CIRCLE DIAGRAM



The circle diagram can be used to predict the performance of a transformer for various loads and power factors. A convenient scale of volt-ampere is shown on the unity power factor line (u.p.f.) and commences at the zero or no-load locus. To use the diagram, measure the known V.A. and scribe an arc about the "Zero" locus of a length that contains the angle of the burden power factor. The point at which the arc terminates is the error locus in phase angle minutes and ratio correction factor.

## RECOMMENDED MINIMUM SPACINGS

**A** = Unit to Unit = 1.50" minimum.

**B** = HV to Ground in Air = 8.50" minimum.

Recommended spacing are for guidance only. User needs to set appropriate values to assure performance for high potential test, impulse test, high humidity, partial discharge, high altitude, and other considerations like configuration.

