

# Medium Voltage Indoor Voltage Transformer Model PT6-2-125 ANSI Group 2

REGULATORY AGENCY APPROVALS



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



TWO BUSHING

**ACCURACY CLASS:**

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

Approximate weight 125 lbs.

	PRIMARY VOLTAGE (α)	RATIO	SECONDARY VOLTAGE	125 kV BIL CATALOG NUMBERS
	18000	150:1	120	PT6-2-125-183
	21000	175:1	120	PT6-2-125-213
	24000	200:1	120	PT6-2-125-243

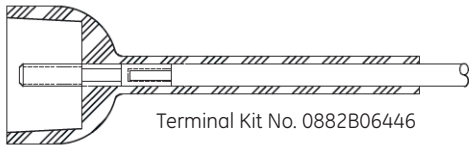
Approved for revenue metering in Canada by industry Canada, Approval No. AE-0676 Rev.2

## Model PT6-2-125 ANSI Group 2

(a) Also available are other ratios and frequencies, double secondaries and units meeting IEC 44-2.

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.
- Primary fuses are not supplied, but are recommended. Use 25kV, 0.5E rated fuses.
- A test card is provided with each unit.
- An insulated primary terminal kit part number 0882B06446 is an available option. Includes 2 each 3/8-16 terminals, terminal boots and 48" of No. 6 insulated lead wire. This lead wire is not fully insulated; therefore proper clearances and support methods must be implemented by the user. Lead wire must also be directed away from all surfaces of the transformer to avoid any partial discharge between the lead wire and the transformer.

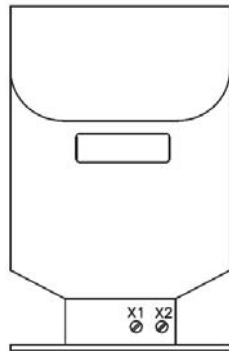
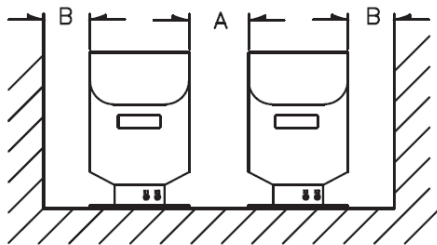


### RECOMMENDED MINIMUM SPACINGS

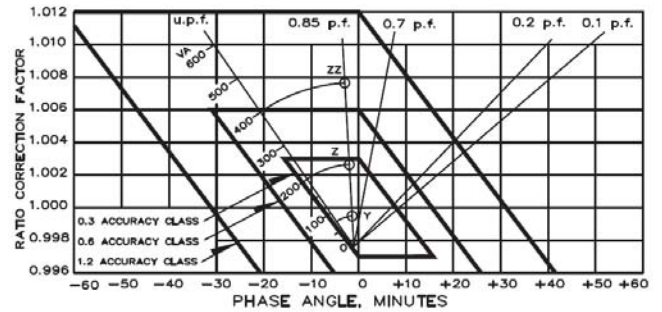
**A** = Unit to Unit = 1.50" minimum. (Open Delta Connection)

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

Recommended spacings are for guidance only. User needs to select appropriate values to assure performance for high potential test, impulse test, high humidity, partial discharge, high altitude, specific configurations and other considerations.



### 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.

