

# Models PT7-2-150 & PT7-2-200

## Indoor Voltage Transformer ANSI Group 2 Medium Voltage

### Accuracy Class

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

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

### Frequency

60 Hz.

### Maximum System Voltage

Model PT7-2-150  
36.5 kV, BIL 150 kV full wave

Model PT7-2-200  
36.5 kV, BIL 200 kV full wave.

### Thermal Rating

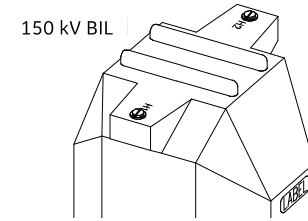
1,500 VA 30 °C. amb.  
1,000 VA 55 °C. amb.

### Weight

Approximate weight 175 lbs.



200 kV BIL



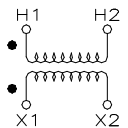
150 kV BIL

#### REGULATORY AGENCY APPROVALS



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

### Product Data PT7-2

	Primary Voltage (a)	Ratio	Secondary Voltage	150 kV BIL Catalog Numbers	200 kV BIL (b) Catalog Numbers
		24,000	200:1	120	PT7-2-150-243
	27,600	240:1	115	PT7-2-150-2762	PT7-2-200-2762
	34,500	300:1	115	PT7-2-150-3452	PT7-2-200-3452

Approved for revenue metering in Canada by industry Canada, Approval No. AE-0677 Rev. 1

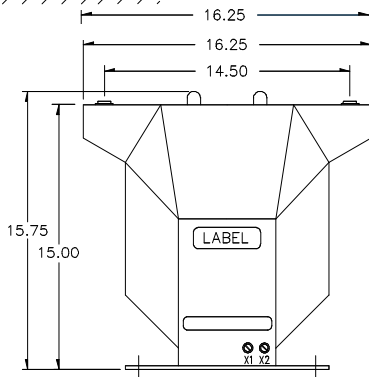
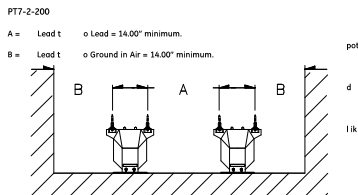
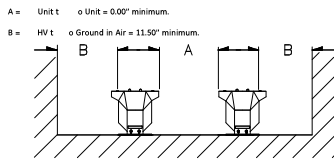
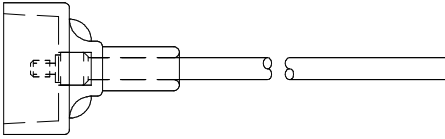
(a) Also available are other ratios and frequencies, double secondaries and units meeting IEC 44-2.

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



## Models PT7-2-150 & PT7-2-200 ANSI Group 2

- Primary terminals are 3/8-16 brass screws with one flatwasher and lockwasher. (150 kV BIL only)
- 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 34.5, 0.5E rated fuse
- A test card is provided with each unit.



### Recommended Minimum Spacings (Open Delta Connection)

#### PT7-2-150

(Customer supplied leads must be directed away from the transformer)  
 A = Unit to Unit = 0.00" minimum. (Open Delta Connection)  
 B = HV to Ground in Air = 11.50" minimum.

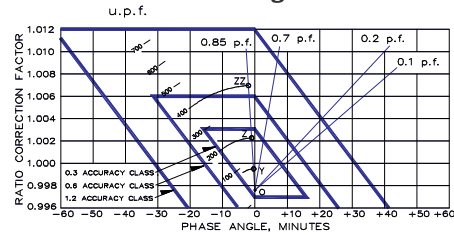
#### PT7-2-200

(Leads must be directed away from the transformer)  
 A = Lead to Lead = 14.00" minimum.  
 B = Lead to Ground in Air = 14.00" minimum

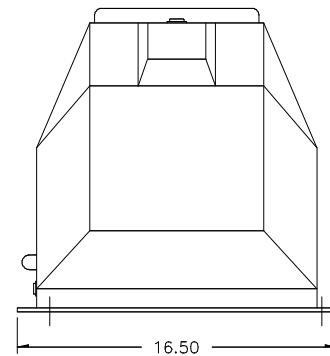
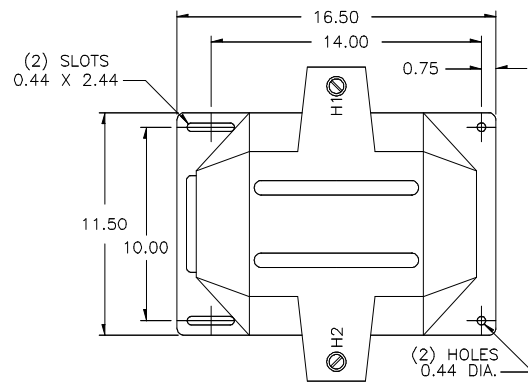
*Recommended spacing are for guidance only. User needs to see appropriate values to assure performance for high potential test, impulse test, high humidity, partial discharge, high altitude, and other considerations like configuration.*



### 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.



### Primary Terminal Lead Assembly (0843A09154)

- Supplied with 200 kV BIL units only (Not available for 150 kV BIL Units)
- 10-32 threaded connector, insulating boot, and lead wire included
- Lead wire in No. 10 AWG rated 600 volt only
- Lead clearances shown below for PT7-2-200 must be maintained
- 36 inches long unless specified otherwise

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