

INDOOR VOLTAGE TRANSFORMER

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

REGULATORY AGENCY APPROVALS



E145172



LR9403

Manufactured to meet the requirements of ANSI/IEEE C57.13.
Classified by U.L. in accordance with IEC 44-2

ACCURACY CLASS:
0.3 WXYZ, 1.2ZZ at 100% rated
voltage with 120V rated ANSI burden.
0.3 WXYZ 1.2Z at 58% rated
voltage with 69.3V based ANSI burden.

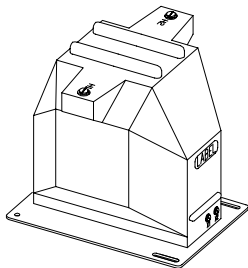
FREQUENCY:
60 Hz.

MAXIMUM SYSTEM VOLTAGE:
Model PT7-2-150
36.5kV, BIL 150kV full wave.
Model PT7-2-200
36.5kV, BIL 200kV full wave.

THERMAL RATING:
1500 VA at 30°C. amb.
1000 VA at 55°C. amb.

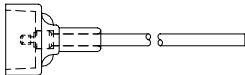
WEIGHT:
Approximately 175 lbs.

Approved for revenue metering in Canada
by Industry Canada, Approval No. AE-0677



TWO BUSHING

- 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.
- The transformers are tested for partial discharge to Canadian Standards CAN 3-C13-M83. This test can also be carried out to IEC requirements if requested.
- Plated steel mounting base.
- Primary fuses are not supplied, but are recommended. Use 34.5 kV, 0.5E rated fuses. *
- A test card is provided with each unit.



- 200 kV BIL units are supplied with two HV lead kits No. 0843A09154.

	PRIMARY VOLTAGE (a)	RATIO	SECONDARY VOLTAGE	150 kV BIL CATALOG NUMBER	200 kV BIL (b) CATALOG NUMBER
	24000	200:1	120	PT7-2-150-243	PT7-2-200-243
	27600	240:1	115	PT7-2-150-2762	PT7-2-200-2762
	34500	300:1	115	PT7-2-150-3452	PT7-2-200-3452

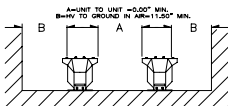
(a) Also available are other ratios and frequencies, double secondaries and units meeting IEC 44-2 rated voltage factors of 1.20 or 1.50.

(b) 200 kV BIL transformers are supplied with HV lead kits. Lead wire is 36 inches long, unless otherwise specified.

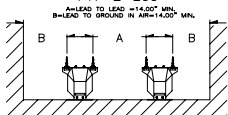
* SEE PAGE 4, Primary Fuse Rating

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

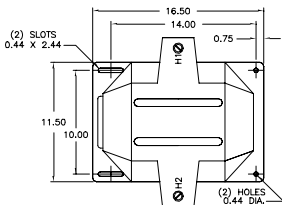
RECOMMENDED SPACINGS
PT7-2-150



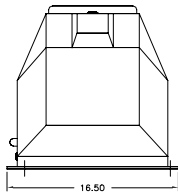
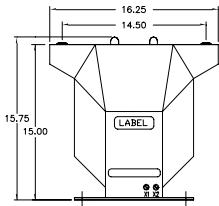
PT7-2-200



PT7-2-150
PT7-2-200



Recommended spacings 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.



The circle diagram can be used to predict the performance of a transformer for various loads and power factors. A convenient scale of volt-ampères 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.

CIRCLE DIAGRAM

