

POTENTIAL TRANSFORMERS

Models

PT7-2-150 & PT7-2-200

REGULATORY AGENCY APPROVALS



E93779

LR89403

Manufactured to meet the requirements of ANSI/IEEE C57.13.
Classified by U.L. in accordance with IEC 44-1



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:

Model PT7-2-150

36.5kV, BIL 150kV full wave.

Model PT7-2-200

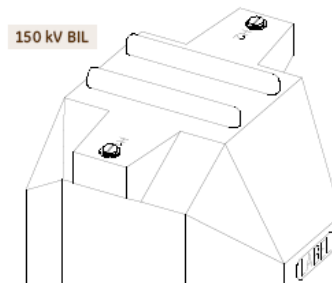
36.5kV, BIL 200kV full wave.

THERMAL RATING:

1500 VA at 30°C amb.

1000 VA at 55°C amb.

Approximate weight 175 lbs.



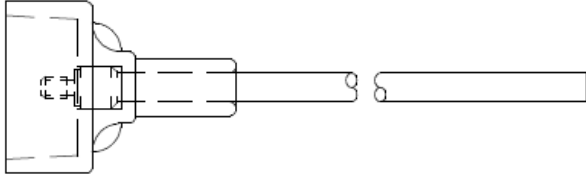
	PRIMARY VOLTAGE (a)	RATIO	SECONDARY VOLTAGE	150 kV BIL CATALOG NUMBERS	200 kV BIL (b) CATALOG NUMBERS
	24000	200:1	120	PT7-2-150-243	PT7-2-200-243
	27600	240:1	115	PT7-2-150-2762	PT7-2-200-2762
	34500	300:1	115	PT7-2-150-3452	PT7-2-200-3452

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

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

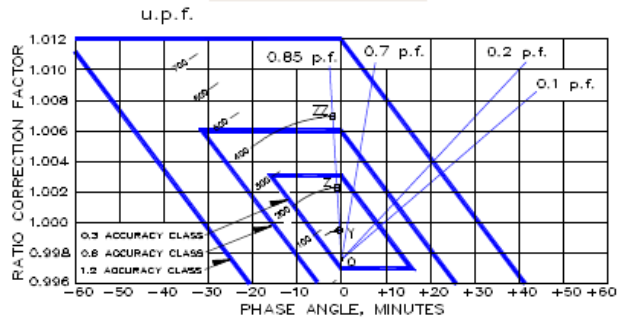
Note: It is recommended that the system line-to-line voltage not exceed transformer maximum system voltage level.

- 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.
- A primary fuse is not supplied, but is recommended. Use a 34.5 kV, 0.5E rated fuse.
- A test card is provided with each unit.
- Lead wire is 36 inches long, unless otherwise specified.



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

CIRCLE DIAGRAM



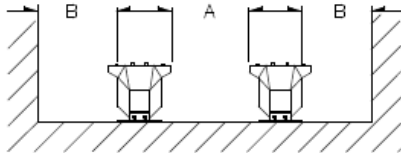
The circle diagram can be used to predict the performance of a transformer for various loads and power factors. A convenient scale of volt-ampere is shown on the unity power factor line (u.p.f) and commences at the zero or no-load locus. To use the diagram, measure the known VA, and scribe an arc about 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

PT7-2-150

A = Unit to Unit = 0.00" minimum.

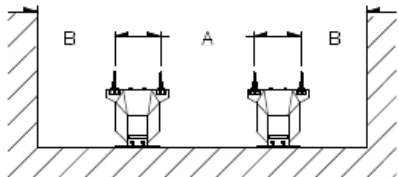
B = HV to Ground in Air = 11.50" minimum.



PT7-2-200

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.

(2) SLOTS
0.44 X 2.44

