Model PT7-1-150 & PT7-1-200

Indoor Voltage Transformer ANSI Groups 4A & 4B
Medium Voltage

Accuracy Class
0.3 WXMYZ 1.2ZZ at 100% rated voltage with 120 V based ANSI burden.
0.3 WXMY, 1.2Z at 58% rated voltage with 69.3 V based ANSI burden.

Frequency
60 Hz.

Maximum System Voltage
Model PT7-1-150
36.5 kV, BIL 150 kV.

Model PT7-1-200
36.5 kV, BIL 200 kV

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

Weight
Approximate weight 140 lbs.

Product Data - PT7-1

<table>
<thead>
<tr>
<th>Group</th>
<th>Primary Voltage (a) V</th>
<th>Ratio</th>
<th>Secondary Voltage V</th>
<th>**150 kV BIL Catalog Numbers</th>
<th>Rnm (b) Ω</th>
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<tr>
<td>4A</td>
<td>15,240</td>
<td>127:1</td>
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NOTE: All primary voltages marked with an asterisk (*) are approved for revenue metering in Canada by industry Canada, Approval No. AE-0676 Rev.2
** Consult factory for 200 kV BIL catalog numbers.
Models PT7-1-150 & PT7-1-200 ANSI Groups 4A & 4B

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 is No. 10 AWG rated 600 volt only
- Lead clearances shown below for PT7-1-200 must be maintained
- 36 inches long unless specified otherwise

RECOMMENDED MINIMUM SPACINGS
PT7-1-150 (Customer supplied leads must be directed away from the transformer)
A = Unit to Unit = 1.75" minimum
B = HV to Ground in Air = 11.50" minimum

PT7-1-200 (Leads must be directed away from the transformer)
A = Lead to Lead = 14.00" minimum
B = Lead to Ground in Air = 14.00" minimum

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.

(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. Transformers may be connected line-to-neutral on a system rated 25,000 volts ground wye.
(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 for 150kV BIL units 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.

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Worldwide Contact Center
Web: www.GEGridSolutions.com/contact
Phone: +44 (0) 1785 250 070
USA and Canada: +1 (0) 800 547 8629
Europe, Middle East and Africa: +34 (0) 94 485 88 00