INDOOR VOLTAGE TRANSFORMERS

Models PTG3-1-60 & PTG3-2-60

Frequency: 60 Hz

Maximum System

Voltage: 5.6 kV, 60 kv BIL full wave



750 VA total 30°C amb. 500 VA 55°C amb.

Weight:

Approximately 34 lbs., unfused

Thermal Rating:

69.3 V based ANSI burden

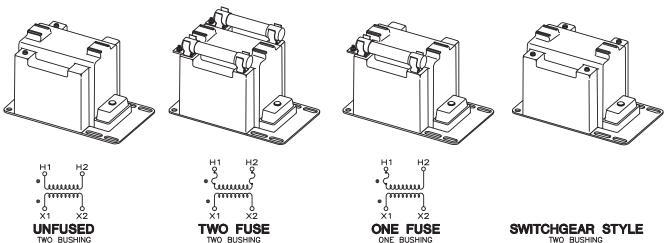
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- Primary terminals that are unfused are 1/4-20 brass screws with one flatwasher and lockwasher.
- Primary terminals that are fused are 1/4-20 brass screws with one flatwasher and lockwasher and two nuts.
- Secondary terminals are No.10-32 brass screws with one flatwasher and lockwasher.
- 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.
- The core and coil assembly is encased in a plastic enclosure and vacuum encapsulated in polyurethane resin.

Accuracy Class: 0.3 WXMY, 0.6M, 1.2Z at 100% rated voltage with 120V based

ANSI burden. 0.3 WX, 0.6M, 1.2 Y at 58% rated voltage with

- 0 Thermal burden rating is for 120 volt secondaries.
- Plated steel mounting base.
- Fuses have 1" Dia Caps and 5" clip centers.
- Switchaear style is similar to fused style. No fuse or fuse clip is providéd, but inserts for fuse clips are supplied.



TWO BUSHING ONE BUSHING NOT SHOWN

	TWO BUSHING (a)						BOSHING NOT SHOWN		
GROUP		RATIO	SECONDARY VOLTAGE	CATALOG NUMBERS					
	VOLTAGE			UNFUSED	FUSES	FUSE CLIPS ONLY (d)	SWITCHGEAR STYLE		
1	*2400	20:1	120	PTG3-2-60-242	PTG3-2-60-242FF	PTG3-2-60-242CCSorCCL	PTG3-2-60-242SS		
2	3300	30:1	110-50Hz	PTG3-2-60-332	PTG3-2-60-332FF	PTG3-2-60-332CCSorCCL	PTG3-2-60-332SS		
2	*4200	35:1	120	PTG3-2-60-422	PTG3-2-60-422FF	PTG3-2-60-422CCSorCCL	PTG3-2-60-422SS		
2	*4800	40:1	120	PTG3-2-60-482	PTG3-2-60-482FF	PTG3-2-60-482CCSorCCL	PTG3-2-60-482SS		

	GROUP	ONE BUSHING (b)			R fr (c)	CATALOG NUMBERS			
							FUSES	FUSE CLIPS ONLY (d)	SWITCHGEAR STYLE
	4A	*2400	20:1	120	230		PTG3-1-60-242F	PTG3-1-60-242CSorCL	PTG3-1-60-242S
	4B	*4200	35:1	120	230		PTG3-1-60-422F	PTG3-1-60-422CSorCL	PTG3-1-60-422S
[4B	*4800	40:1	120	230		PTG3-1-60-482F	PTG3-1-60-482CSorCL	PTG3-1-60-482S

(a) Two fuse transformers should not be used for Y connections. It is preferred practice to connect one lead from each voltage transformer directly to the neutral terminal, using a fuse in the line side of the primary only. By using this connection a transformer can never be made "live" from the line side by reason of a blown fuse in the neutral side. For continuous operation the transformer primary voltage should not exceed 110% of rated value.

(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.

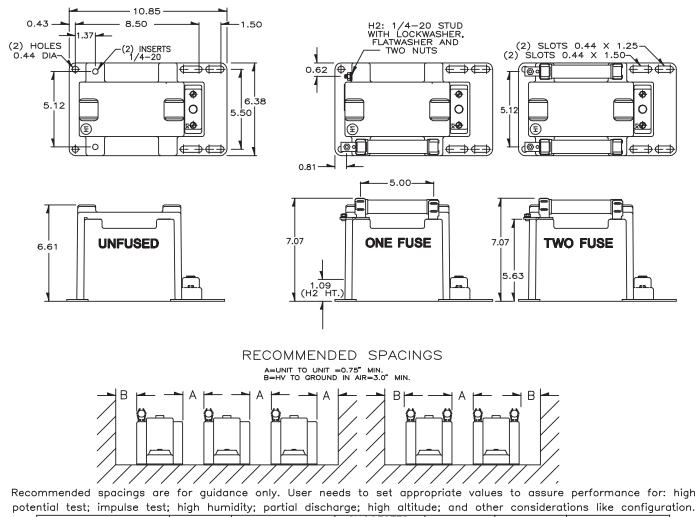
(c) See page 1, item 2 for ferroresonance considerations. Values in table are in ohms.

(d) Fuse clips noted as "CCS" or "CS" accept fuses with 1" Dia. caps and 5" clip centers. Fuse clips noted as "CCL" or "CL" accept fuses with 1.63" Dia. caps and 5.88" clip centers.

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

PTG3-1-60 PTG3-2-60





FUSE FOR MODEL PTG3 TRANSFORMER	RATING VOLTS	INTERRUPTING AMPERES(SYM)	SUGGESTED RATING * CONTINUOUS AMPERES	CAP DIA. INCHES	LENGTH INCHES	CLIP CENTERS INCHES
2400:120V	5.5kV	45,000	2.0E	1.0	5.63	5.00
3300:110V	5.5kV	45,000	2.0E	1.0	5.63	5.00
4200:120V	5.5kV	45,000	1.0E	1.0	5.63	5.00
4800:120V	5.5kV	45,000	1.0E	1.0	5.63	5.00

* SEE PAGE , Primary Fuse Rating.

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

