

# MV Indoor Voltage Transformer

## Models PTG3-1-60 PTG3-2-60

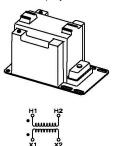
#### ACCURACY CLASS:

0.3 WXMY, 1.2Z at 100% rated voltage with 120V based ANSI burden; 0.3 WX, 0.6 M, 1.2 Y at 58% rated voltage with 69.3V based ANSI burden FREQUENCY:

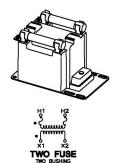
60 Hz. MAXIMUM SYSTEM VOLTAGE: 5.6kV, BIL 60kV full wave THERMAL RATING: 750 VA at 30°C. amb. 500 VA at 55°C. amb. APPROXIMATE WEIGHT: 34 lbs., unfused

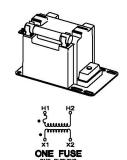
• Primary terminals that are unfused are 1/4 - 20 brass screws with one flat washer and lockwasher.

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



USE





Switchgear style is similar to fused style. No fuse or fuse clip is

Thermal burden rating is for 120 volt secondaries

provided, but inserts for fuse clips are supplied.

Fuses have 1" Dia Caps and 5" clip centers.

GROUP			ISHING (b)	RFR FR (c)	CATALOG NUMBERS			
GROUP		UNE DU			FUSES	FUSE CLIPS ONLY (d)	SWITCHGEAR STYLE	
4A	2400	2	20:1 120	230	PTG3-1-60-242F	PTG3-1-60-242CSorCL	PTG3-1-60-242S	
4B	4200	3	35:1 120	230	PTG3-1-60-422F	PTG3-1-60-422CSorCL	PTG3-1-60-422S	
4B	4800	4	0:1 120	230	PTG3-1-60-482F	PTG3-1-60-482CSorCL	PTG3-1-60-482S	
	T	WO BUSHI	NG (a)		CATALOG NUMBERS			
GROUP	PRIMARY VOLTAGE	RATIO	SECONDARY VOLTAGE	UNFUSED	FUSES	FUSE CLIPS ONLY (d)	SWITCHGEAR STYLE	
1	2400	20:1	120	PTG3-2-60-242	PTG3-2-60-242FF	PTG3-2-60-242CCSorCL	PTG3-2-60-242SS	
2	3300	30:1	110-50Hz	PTG3-2-60-332	PTG3-2-60-332FF	PTG3-2-60-332CCSorCL	PTG3-2-60-332SS	
2	4200	35:1	120	PTG3-2-60-422	PTG3-2-60-422FF	PTG3-2-60-422CCSorCL	PTG3-2-60-422SS	
2	4800	40:1	120	PTG3-2-60-482	PTG3-2-60-482FF	PTG3-2-60-482CCSorCL	PTG3-2-60-482SS	

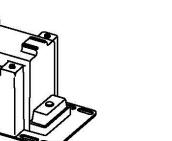
(a) Two fuse transformers should not be used for Y connections. It is preferred practice to connect one lead from each voltage transformer directly to the neutral terminal using a fuse in the line side of the primary only. By using this connection, a transformer can never be made "live" from the line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

Products are manufactured in a plant whose quality management system is certified / registered as being in conformity with ISO 9001



Plated steel mounting base.





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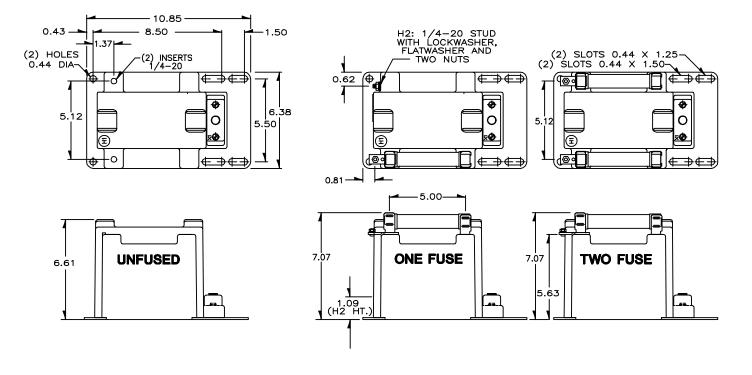


Models PTG3-1-60 PTG3-2-60



### PTG3-1-60

#### PTG3-2-60



Recommended spacing is 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.

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

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**

