

# MODEL PTW4-1-75 & PTW4-2-75

## Medium Voltage Indoor Voltage Transformer



REGULATORY AGENCY APPROVALS



E145172



LR89403

Manufactured to meet the requirements of ANSI/IEEE C57.13.

### Accuracy Class

0.3 WXY 1.2ZZ at 100% rated voltage with 120 V based ANSI burden.

0.3 WXY, 1.2Z at 58% rated voltage with 69.3 V based ANSI burden.

### Frequency

60 Hz.

### Maximum System Voltage

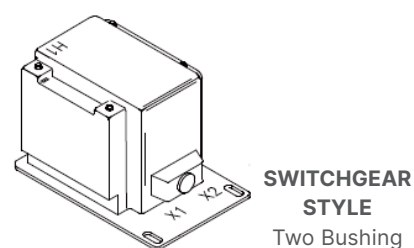
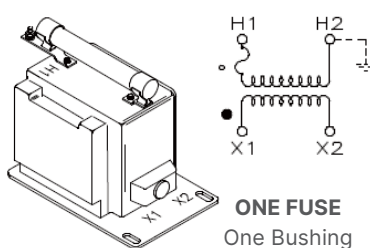
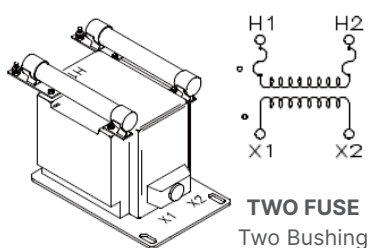
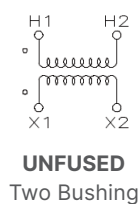
9.52 kV, BIL 75 kV.

### Thermal Rating

1,500 VA 30°C. amb.

1,000 VA 55°C. amb.

Approximate weight 85 lbs. unfused.



TWO BUSHINGS (a)				CATALOG NUMBERS			
GROUP	PRIMARY VOLTAGE	RATIO	SECONDARY VOLTAGE	UNFUSED	FUSES	FUSE CLIPS ONLY	SWITCHGEAR STYLE
1	*4200	35:1	120	PTW4-2-75-422	PTW4-2-75-422FF	PTW4-2-75-422CC	PTW4-2-75-422SS
1	*4800	40:1	120	PTW4-2-75-482	PTW4-2-75-482FF	PTW4-2-75-482CC	PTW4-2-75-482SS
2	6600	60:1	110-50 Hz	PTW4-2-75-662	PTW4-2-75-662FF	PTW4-2-75-662CC	PTW4-2-75-662SS
2	*7200	60:1	120	PTW4-2-75-722	PTW4-2-75-722FF	PTW4-2-75-722CC	PTW4-2-75-722SS
2	8400	70:1	120	PTW4-2-75-842	PTW4-2-75-842FF	PTW4-2-75-842CC	PTW4-2-75-842SS



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ONE BUSHINGS (b)				CATALOG NUMBERS			
GROUP	PRIMARY VOLTAGE	RATIO	SECONDARY VOLTAGE	$R_{FR}$ (C)	FUSES	FUSE CLIPS ONLY	SWITCHGEAR STYLE
4A	*4200	35:1	120	65	PTW4-1-75-422F	PTW4-1-75-422C	PTW4-1-75-422S
4A	*4800	40:1	120	65	PTG4-1-75-482F	PTW4-1-75-482C	PTW4-1-75-482S
4B	6600	60:1	110-50 Hz	65	PTG4-1-75-662F	PTW4-1-75-662C	PTW4-1-75-662S
4B	*7200	60:1	120	65	PTG4-1-75-722F	PTW4-1-75-722C	PTW4-1-75-722S
4B	8400	70:1	120	65	PTG4-1-75-842F	PTW4-1-75-842C	PTW4-1-75-842S

NOTE: All Primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by Industry Canada, Approval No. AE-0429 Rev.02

(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.

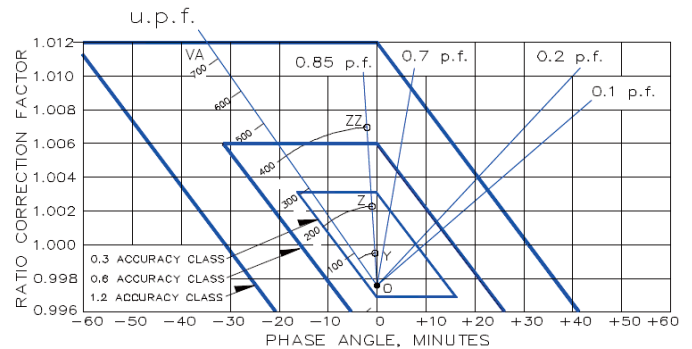
(c) See page 32, item 1 for ferroresonance considerations. Values in table are in ohms.

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

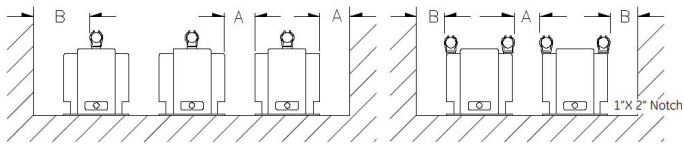
FUSE FOR MODEL PTG4 TRANSFORMER	RATINGS (kV)	INTERRUPTING AMPERES (SYM)	SUGGESTED RATING CONTINUOUS AMPERES	CAP Dia. INCHES	LENGTH INCHES	CLIP CENTERS INCHES
4200:120 V	15.5 kV	80,000	2.0E	1.63	13	11.50
4800:120 V	15.5 kV	80,000	2.0E	1.63	13	11.50
6600:110 V	15.5 kV	80,000	1.0E	1.63	13	11.50
7200:120 V	15.5 kV	80,000	1.0E	1.63	13	11.50
8400:120 V	15.5 kV	80,000	1.0E	1.63	13	11.50

- 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 core and coil assembly is vacuum encapsulated in polyurethane resin.
- Thermal burden rating is for 120 volt secondaries.
- Switch gear style is similar to fused style. No fuse or fuse clip is provide, but inserts for fuse clips are supplied.
- A test card is provided with each unit

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 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.



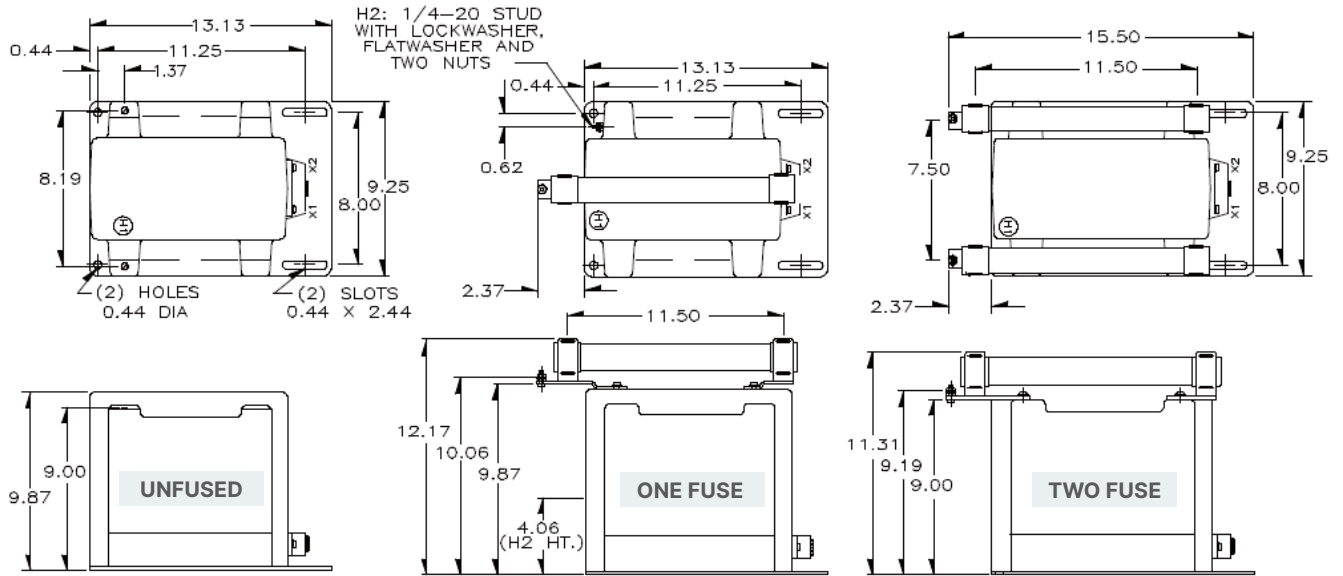
## Recommended Minimum Spacings

A = Unit to Unit = 1.00" minimum.

B = HV to Ground in air = 4.50" minimum.

Recommended spacing 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.



For more information, visit  
[gevernova.com/grid-solutions](http://gevernova.com/grid-solutions)

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