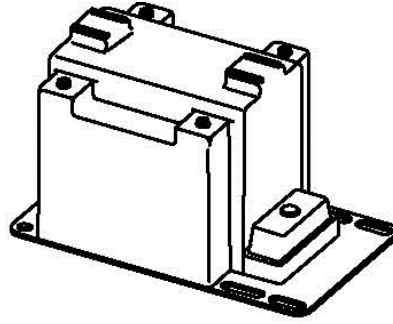


# PTG3-1-60

# PTG3-2-60

## INDOOR VOLTAGE TRANSFORMER



100% PD Free Tested

### APPLICATION:

Voltage Transformer encapsulated in resin for applications in indoor substations and switchgear installation, comply with IEC 61869-1 and 61869-3 Standards.

### ACCURACY:

- 0.2/3P, 6P up to 25VA
- 0.5/3P, 6P up to 50VA
- 1/3P, 6P up to 100VA

### SYSTEM VOLTAGE:

- HIGHEST SYSTEM VOLTAGE 7.2
- RATED PRIMARY SYSTEM VOLTAGE [kV] : 1.2 up to 6.6 or 1.2/√3 up to 6.6/√3
- RATED SECONDARY VOLTAGE: 100, 110 or 100/√3, 110/√3
- RATED TERTIARY VOLTAGE: 100/3, 110/3
- IMPULSE VOLTAGE [BIL]: 60kV
- POWER FREQUENCY WITHSTAND VOLTAGES: 20kV

### CONTINUES THERMAL POWER [VA]:

650 at 30°C

### FREQUENCY:

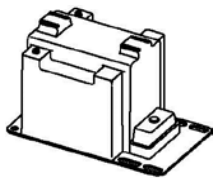
50/60 Hz.

### APPROXIMATE WEIGHT:

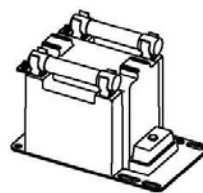
16 Kg. unfused

### CONSTRUCTION:

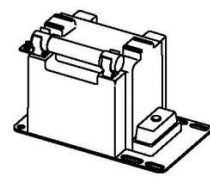
- Primary terminals that are unfused are ¼ - 20 brass screws with one flat washer and lockwasher
- Secondary terminals are No. 10-32 brass screws with one flat washer and lockwasher.
- Plated steel mounting base.
- Switchgear style is similar to fused style. No fuse or fuse clip is provided, but inserts for fuse clips are supplied.
- Primary terminals that are fused are ¼-20 brass screws with one flat washer, lockwasher and two nuts.
- The core and coil assembly is encased in a plastic enclosure and vacuum encapsulated in polyurethane resin.
- Fuses have 0.81" dia caps and 5" clip centers.



UNFUSED - TWO POLE



TWO FUSE - TWO POLE



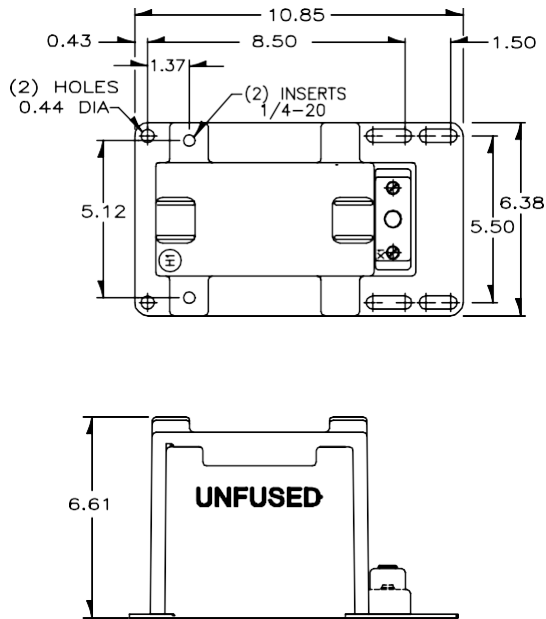
ONE FUSE - ONE POLE

ONE POLE	Primary Volts*	Fuses*	Secondary Volts*	Tertiary Volts*
PTG3-1-60	-XX1,2,3	F = FUSES Blank = Unfused CC = 2 x Fuse Clips SS = Switchgear Style, 2 x Terminal Inserts PTG3-2-60-242CCS or CL PTG3-2-60-332CCS or CL PTG3-2-60-422CCS or CL PTG3-2-60-482CCS or CL	-VVV -VVVG	-VVV -VVVR -Blank
TWO POLE	Primary Volts	Fuses	Secondary Volts*	Tertiary Volts*
PTG3-2-60	-XX1,2,3	FF = 2 x Fuses Blank = Unfused CC = 4 x Fuse Clips SS = Switchgear Style, 4 x Terminal Inserts PTG3-2-60-242CCS or CL PTG3-2-60-332CCS or CL PTG3-2-60-422CCS or CL PTG3-2-60-482CCS or CL	-VVV	-VVV -VVVR -Blank

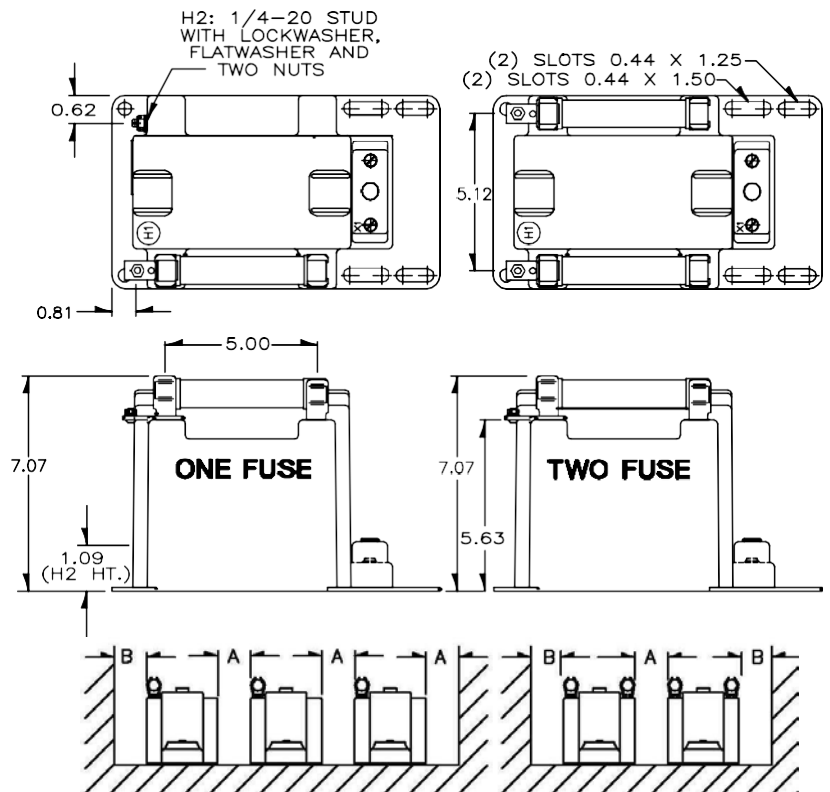
XXX	VVV	VVV
Primary Volts*	Secondary Volts*	Tertiary Volts*
102 = 1000	VVV = 100,110	VVV = 100,110
332 = 3300	VVVG = $100/\sqrt{3}$	VVVR = $100/3$
502 = 5000	VVVG = $110/\sqrt{3}$	VVVR = $110/3$
552 = 5500		
602 = 6000		
662 = 6600		
692 = 6900		
722 = 7200		

- (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.
- (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 0.81” dia. Caps and 5” clip centers. Fuse clips noted as “CCL” or “CL” accepts fuses with 0.81” dia. caps and 5.88” clip centers.

**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.