

# VOLTAGE TRANSFORMER

## Model 450

**FREQUENCY:**  
60 Hz

**STANDARD SECONDARY VOLTAGE:**  
120 Volts

**INSULATION LEVEL:**  
600 Volt, 10 kV BIL full wave.

**ACCURACY CLASS:**  
0.3 W, X,M & Y, 1.2Z  
@0.3 W, 0.6 X, M & Y

**THERMAL RATING:**  
750 VA at 30°C. amb.,  
500 VA at 55°C. amb.

REGULATORY AGENCY APPROVALS

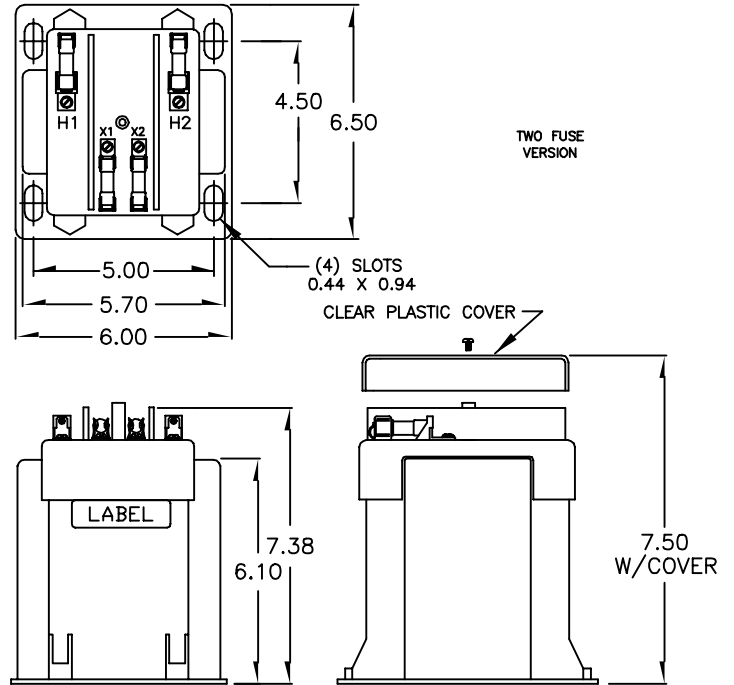
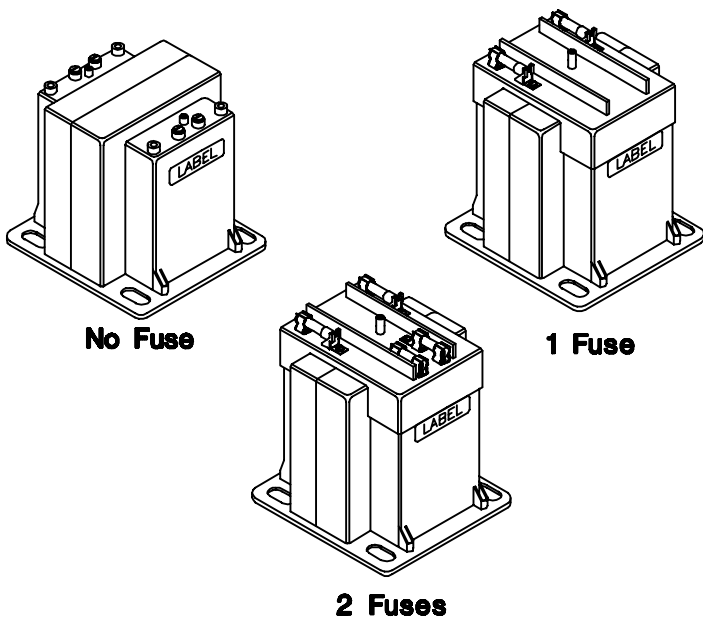


Manufactured to meet the requirements of ANSI C57.13.  
Classified by U.L. in accordance with IEC 44-2

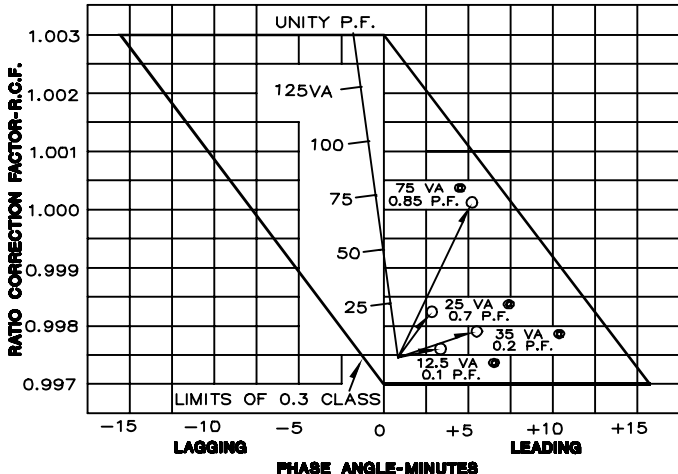
- The primary and secondary terminals are No. 10-32 screws into 3/8" deep brass inserts and fitted with one lockwasher and flatwasher and are contained in a sealable terminal cover.
- The core and coil assembly is encased in a thermoplastic shell and filled with resin.
- These transformers are designed for operation line-to-line. They may also be operated line-to-ground or line-to-neutral at reduced voltage, (58% of rated volts).
- It is desirable to use an 8.0 amp BBS type or equal fuse in the secondary to protect the transformer.

- With two exceptions these transformers are ANSI C57.13 group 1. Those marked \* are group 2.
- Model designed specifically for 50Hz operation are available with reduced performance consult factory for details.
- Fuse blocks containing type KTK-R (class CC) fuses can be fitted.
- When primary fuses are requested, the ratings will be as given in the table below.

- This page contains a circle diagram for the estimation of the errors for other than rated burdens. See page 20 in this section for a description of its use.
- When only one fuse is used, it must be connected into the line side (H1) terminal wiring. This will prevent the presence of voltage at the H1 terminal for a ruptured fuse in the neutral (H2) terminal wiring for line-to-neutral connected transformers.
- Approximate weight: 25 lbs.



**VOLTAGE TRANSFORMER CIRCLE DIAGRAM**  
THIS GRAPH IS DRAWN FOR A 60Hz 0.6 P.F. SYSTEM LOAD



CATALOG NUMBERS			VOLTAGE RATING	TURNS RATIO	REC. PRIMARY FUSE RATING
NOT FUSED	PRIMARY FUSES ONLY	PRIMARY AND SECONDARY FUSES			
@450-069	450-069F	450-069FF	69.3:120	0.58:1	15.0
@450-120	450-120F	450-120FF	120:120	1:1	10.0
450-208	450-208F	450-208FF	208:120	1.73:1	8.0
450-240	450-240F	450-240FF	240:120	2:1	8.0
450-277	450-277F	450-277FF	277:120	2.31:1	8.0
450-288	450-288F	450-288FF	288:120	2.4:1	6.0
450-300	450-300F	450-300FF	300:120	2.5:1	6.0
450-346	450-346F	450-346FF	346:120	2.88:1	5.0
*450-480	*450-480F	*450-480FF	480:120	4:1	4.0
*450-600	*450-600F	*450-600FF	600:120	5:1	3.0

**Retro Fit Fuse Kit Order No. 0222 PL 7019**