

# POTENTIAL TRANSFORMERS

## LOW VOLTAGE POTENTIAL TRANSFORMER

MODEL 450

### FEATURES

- Frequency ..... 60Hz\*\*\*  
\*\*\*50Hz Models Available
- Standard Secondary Voltage ..... 120 Volts
- Insulation Level ..... 0.6kV, 10kV BIL Full Wave
- Accuracy Class ..... 0.3 W, X, M, Y and 1.2Z.  
Those marked (\*\*) are 0.3 W, 0.6 X, M, Y
- Thermal Rating ..... 750 VA at 30°C amb.  
500 VA at 55°C amb.
- Approximate Weight ..... 25 Lbs.

### 600V CLASS



All models on this page UL recognized

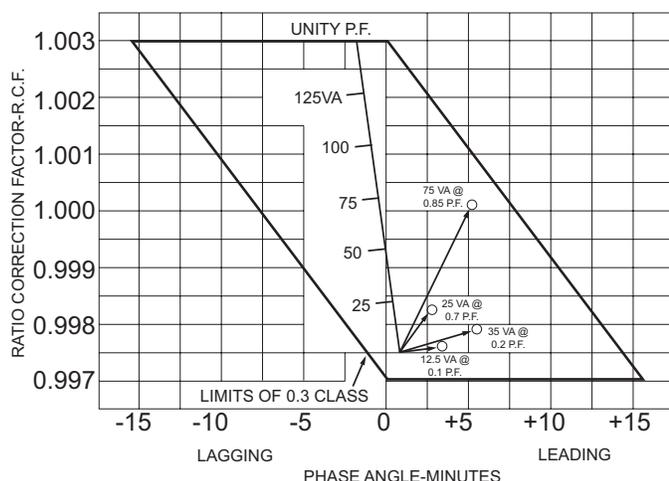


### SPECIFICATIONS

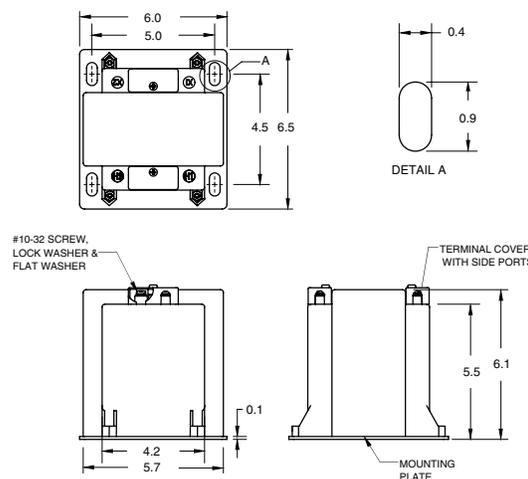
- The primary and secondary terminals are No. 10-32 screws into 3/8" deep brass inserts and fitted with one lock washer and one flat washer and are contained in a sealable terminal cover.
- The core and coil assembly is encased in a thermoplastic shell and filled with resin.
- These transformers are 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 a 8.0 amp BBS type fuse in the secondary to protect the transformer.
- With two exceptions these transformers are ANSI C57.13 group 1. Those marked \* are group 2.
- This page contains a circle diagram for the estimation of the errors for other than rated burdens.
- 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.

APPLICATION AND ORDERING DATA			
CATALOG NUMBER	VOLTAGE RATING	TURNS RATIO	PRIMARY FUSE RATING
<b>NOT FUSED</b>			
**450-069	69.3:120	0.58:1	15A
**450-120	120:120	1:1	10A
450-208	208:120	1.73:1	8A
450-240	240:120	2:1	8A
450-277	277:120	2.31:1	8A
450-288	288:120	2.4:1	6A
450-300	300:120	2.5:1	6A
450-346	346:120	2.88:1	5A
*450-480	480:120	4:1	4A
*450-600	600:120	5:1	3A

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



### DIMENSIONS



All Dimensions In Inches

**FLEX-CORE®**

Div. Morlan & Associates, Inc.

4970 Scioto Darby Rd. Hilliard, Ohio 43026

WWW.FLEX-CORE.COM

sales@flex-core.com

PHONE (614) 889-6152

TECH. ASSISTANCE (614) 876-8308

FAX # (614) 876-8538