

# 3 Phase Voltage Transformer

## Model 3VTN460 *For Line to Neutral Connection*

REGULATORY AGENCY APPROVALS



Manufactured to meet the requirements of ANSI/IEEE C57.13.  
Classified by U.L. in accordance with IEC 44-1



**FREQUENCY:**  
60 Hz.

**STANDARD  
SECONDARY VOLTAGE:**  
120 Volts line-to-neutral

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

**ACCURACY CLASS: (Per Phase)**  
0.6 W, 1.2 X at 60 Hz.

**THERMAL RATING: (Per Phase)**  
150 VA at 30°C. amb., 100 VA at 55°C. amb.

The primary and secondary terminals are  
No. 8-32 screws into 1/2" deep brass inserts and  
fitted with one lockwasher and flatwasher.

Approximate weight 24 lbs.



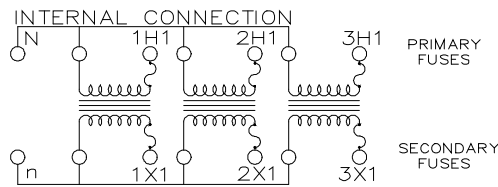
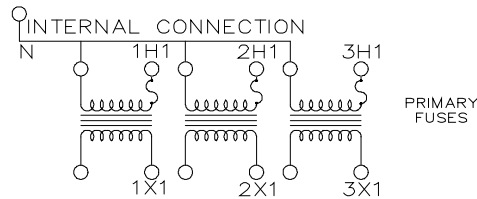
Clear Plastic Cover

CATALOG NUMBER		LINE TO NEUTRAL VOLTAGE RATING	TURNS RATIO	REC. PRIMARY FUSE RATING
PRIMARY FUSES ONLY	PRIMARY AND SECONDARY FUSES			
3VTN460—069F*	3VTN460—069FF*	69.3:120	0.58:1	5.0
3VTN460—120F*	3VTN460—120FF*	120:120	1:1	4.0
3VTN460—240F*	3VTN460—240FF*	240:120	2:1	2.0
3VTN460—277F*	3VTN460—277FF*	277:120	2.31:1	2.0
3VTN460—300F*	3VTN460—300FF*	300:120	2.5:1	1.5
3VTN460—346F*	3VTN460—346FF*	346:120	2.88:1	1.5

\* Fuse Ordering  
Insert F after primary voltage rating for primary fuses, insert FF after primary voltage rating for primary  
and secondary fuses.

# Model 3VTN460

- **Model 3VTN460** is an assembly of three transformers in one case.
- The core and coil assembly is encased in a thermoplastic shell and filled with resin.
- These transformers are designed for operation line to neutral.
- Spacing between live parts per U.L. 1558.
- Primary fuses are current limiting, 200kA interrupting capacity, incorporating a rejection feature, typically (class CC ) KTK—R type.
- It is desirable to use a 1.6 amp BBS type or equal fuse in the secondary to protect the transformer.
- Only ground N/n terminals if source is 3 phase, 4 wire effectively grounded.
- See page 7 of this section for a circle diagram for the estimation of the errors for other than rated burdens. See page 27 in this section for a description of its use.
- The transformer has a clear plastic cover.



CONNECTION DIAGRAMS

