

# THREE-PHASE AC RMS VOLTAGE TRANSDUCER MODEL 3VTR-

## 3-IN-1 AC RMS VOLTAGE TRANSDUCER 0.25% ACCURACY



### FEATURES

- Accurate measurement of the **true RMS** value of input voltage over a wide frequency range.
- Input/Output dielectric test of 2500V.

**5 YEAR WARRANTY**

### APPLICATIONS

- For use in applications where measurement of nonsinusoidal waveforms is required.
- Designed for use in three-phase systems, but may also be used to monitor three single-phase circuits where panel space is at a premium.

## MODEL SELECTION

INPUT AC VOLTS	STANDARD OUTPUTS MODEL 3VTR-			
	0-1mA <sub>dc</sub>	0-10V <sub>dc</sub>	4-20mA <sub>dc</sub>	0-5V <sub>dc</sub>
0-150	001B	001D	001E	001X5
0-300	002B	002D	002E	002X5
0-600	004B	004D	004E	004X5

**ORDERING**  
Example: 120Vac Input with a 0-10V<sub>dc</sub> Output.  
**3VTR-001D**

## SPECIFICATIONS

### INPUT

Voltage ..... See Table  
Frequency Range ..... 48-420Hz  
Burden (Each input)  
All models ..... 0.4VA F.S.  
Overload ..... F.S. Rating

### OUTPUT

Response Time (1 cycle + 0% to 90%) ..... ≤100ms  
Loading  
"B" models ..... (0-1mA<sub>dc</sub>) ..... 0-10kΩ  
"D", "X5" models ..... (0-10V<sub>dc</sub>, 0-5V<sub>dc</sub>) ..... 2kΩ min.  
"E" models ..... (4-20mA) ..... 0-500Ω  
Field Adjustable Cal. .... ±10%

### INSTRUMENT POWER

Standard ..... 85-265Vac, 48-420Hz, <10VA  
or 110-370V<sub>dc</sub>, <10VA

### DIELECTRIC TEST

Input/Output/Case ..... 2500Vac

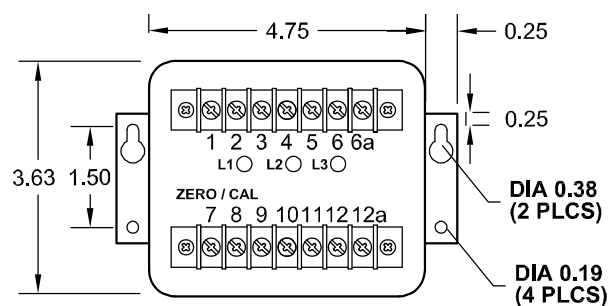
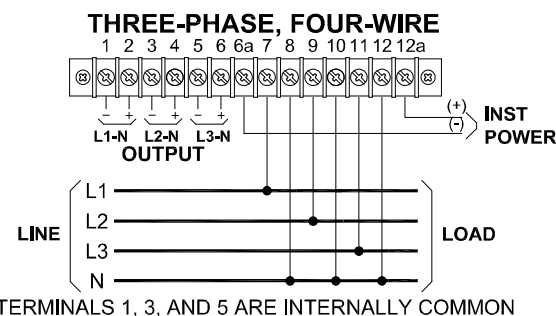
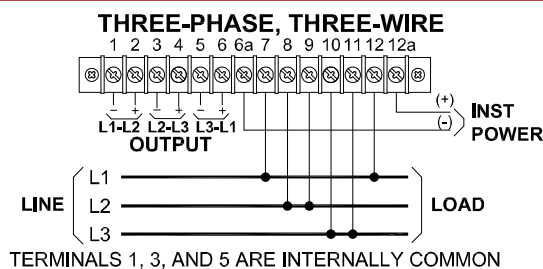
### ACCURACY

Linearity & Setpoint ..... 1%-100% F.S.  
All models ..... @ 60Hz ±0.25%F.S.  
@ 48-420Hz ±0.5% F.S., Typical  
Output Ripple ..... <1.0% F.S.

### TEMPERATURE & PHYSICAL

Temperature Effect...(-20°C to 60°C) ..... ±1.0% Rdg. ±0.1% F.S.  
Net Weight ..... 2.5 lbs

## CONNECTION DIAGRAMS AND CASE DIMENSIONS



### CASE HEIGHT 6.63"

Each calibration hole adjustment:  
Left is Zero, Right is CAL, as shown.

- NOTES:  
1. ALL DIMENSIONS IN INCHES.  
2. ALL UNITS HAVE UNIVERSAL POWER SUPPLY  
85-265Vac, 48-420Hz OR 110-370V<sub>dc</sub>.

Dwg# 0902-00868-B Rev-B



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