

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



MODEL SELECTION

INPUT AC VOLTS	STANDARD OUTPUTS MODEL 3VTR-			
	0-1mA _{dc}	0-10V _{dc}	4-20mA _{dc}	0-5V _{dc}
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_{dc} 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_{dc}) 0-10kΩ
"D", "X5" models (0-10V_{dc}, 0-5V_{dc}) 2kΩ min.
"E" models (4-20mA) 0-500Ω
Field Adjustable Cal. ±10%

INSTRUMENT POWER

Standard 85-265Vac, 48-420Hz, <10VA
or 110-370V_{dc}, <10VA

DIELECTRIC TEST

Input/Output/Case 2500Vac

ACCURACY

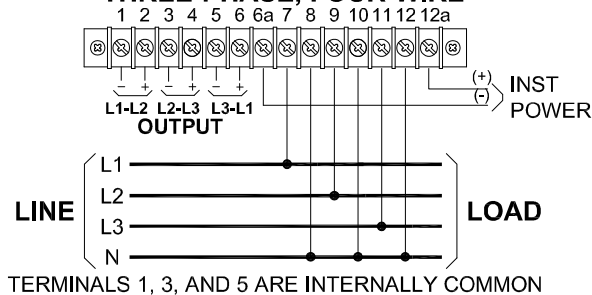
Linearity & Setpoint 1%-100% F.S.
All models @ 60Hz ±0.25%F.S.
@ 48-420Hz ±0.5% F.S., Typical
Output Ripple <1.0% F.S.

TEMPERATURE & PHYSICAL

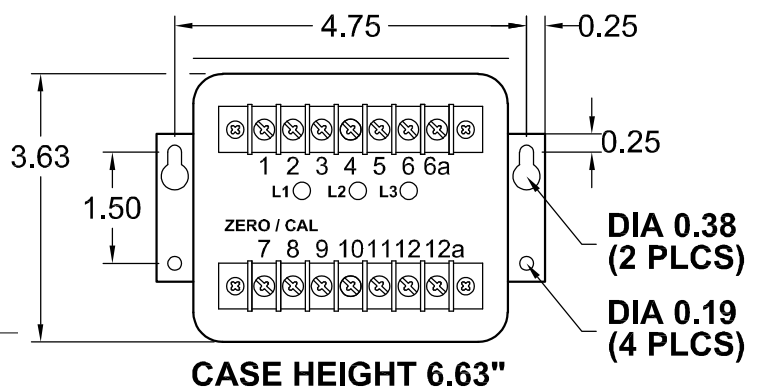
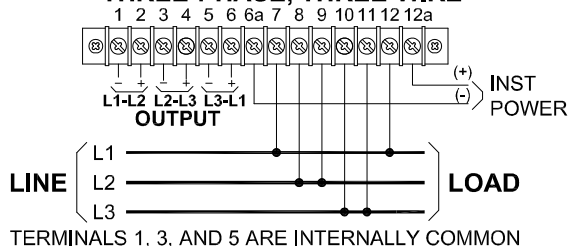
Temperature Effect...(-20°C to 60°C) ±1.0% Rdg. ±0.1% F.S.
Net Weight 2.5 lbs

CONNECTION DIAGRAMS AND CASE DIMENSIONS

THREE-PHASE, FOUR-WIRE



THREE-PHASE, THREE-WIRE



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_{dc}.

Dwg# 0902-00868-B Rev-A



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