

OSI THREE-PHASE AC RMS CURRENT TRANSDUCER MODEL 3CTR-

3-IN-1 AC RMS CURRENT TRANSDUCER 0.25% ACCURACY

FEATURES

- Accurate measurement of the **true RMS** value of input current over a wide frequency range.
- Input/output dielectric test 2500V.
- **0.25% ACCURACY**

APPLICATIONS

- For use in applications where measurement of non-sinusoidal waveforms is required.
- Designed for use on three-phase systems, but may also be used to monitor three single-phase circuits where panel space is a premium.
- Designed to withstand motor start-up transients.

5 YEAR WARRANTY



All units have universal power supply 85-265Vac, 48-420Hz, or 110-370Vdc.

ORDERING INFORMATION

Example: 15 Amp AC Input with 0-10Vdc Output
3CTR-015D

INPUT CURRENT	STANDARD OUTPUTS MODEL 3CTR-			
	0-1mA _{dc}	4-20mA _{dc}	0-10V _{dc}	0-5V _{dc}
0-1	001B	001E	001D	001X5
0-5	005B	005E	005D	005X5
0-10	010B	010E	010D	010X5
0-15	015B	015E	015D	015X5
0-20	020B	020E	020D	020X5

SPECIFICATIONS

INPUT

Current.....See Table
 Frequency Range48-420Hz
 Burden(Each input)..... 0.40VA @ F.S.
 Overload
 1-10A Range2 X F.S. (cont.)
 15 & 20A Range1.25 X F.S. rating (cont.)
 1A Range.....10A (10s transient)
 All other ranges50A (10s transient)
 250A (1s transient)

DIELECTRIC TEST

Input/Output/Case.....2200Vac

INSTRUMENT POWER

Standard85-265Vac, 48-420Hz, 5VA
 or 110-370Vdc, 5VA

OUTPUT

Response Time (to 90%)100ms
 Loading
 "B" models.....(0-1mA_{dc}).....0-10kΩ
 "D", "X5" models..(0-5V_{dc}, 0-10V_{dc})2kΩ min.
 "E" models.....(4-20mA_{dc}).....0-500Ω
 Field Adjustable Cal.±10%

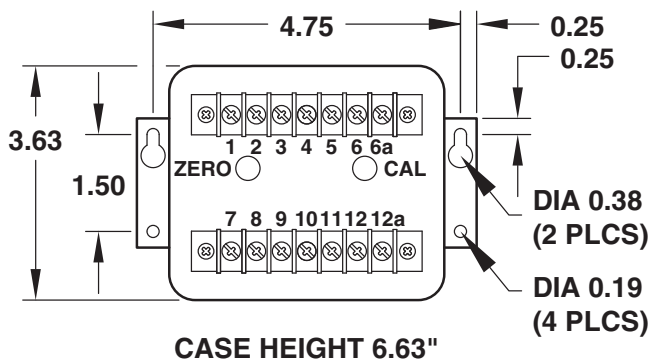
ACCURACY

Linearity & Setpoint.....±0.25% F.S. @ 60Hz
 (±0.5% typical over frequency range.)
 Output Ripple<1.0% F.S.

TEMPERATURE & PHYSICAL

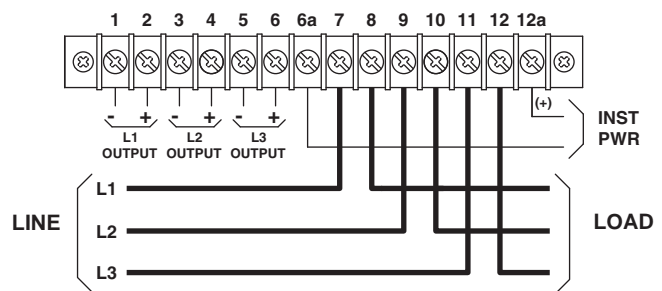
Temperature Effect...(-20°C to 60°C)±1.0% R_{dc}
 Net Weight2.5 Lbs.

CASE DIMENSIONS



All dimensions in inches

CONNECTION DIAGRAM



TERMINALS 1, 3, AND 5 ARE INTERNALLY COMMON

Dwg# 0902-00471-B Rev D

OHIO SEMITRONICS, INC.

4242 REYNOLDS DRIVE * HILLIARD, OHIO * 43026-1264
 PHONE: (614) 777-1005 * FAX: (614) 777-4511
 WWW.OHIOSEMITRONICS.COM * 1-800-537-6732