

# CURRENT TRANSDUCERS

## 3 IN 1 RMS CURRENT TRANSDUCER

MODEL 3CTR

### THREE RMS CURRENT TRANSDUCERS IN ONE ENCLOSURE

#### FEATURES

- Accurate measurement of the **true RMS** value of input signals over a wide frequency range.
- Accurate to 0.25% Full Scale
- Designed to withstand motor start-up transients.
- Input/output isolation.

INPUT AC AMPS	STANDARD OUTPUTS MODEL 3CTR-			
	0-1mA <sub>d</sub> c	4-20mA <sub>d</sub> c	0-10V <sub>d</sub> c	0-5V <sub>d</sub> c
0 to 1.0A	001B	001E	001D	001X5
0 to 5.0A	005B	005E	005D	005X5
0 to 10.0A	010B	010E	010D	010X5
0 to 15.0A	015B	015E	015D	015X5
0 to 20.0A	020B	020E	020D	020X5

#### ORDERING INFORMATION

Example: 5A<sub>ac</sub> Input  
with 0-10V<sub>d</sub>c Output.  
**3CTR-005D**

#### APPLICATIONS

- Designed 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 limited.
- Use with current transformers for high current applications.



#### SPECIFICATIONS

##### INPUT

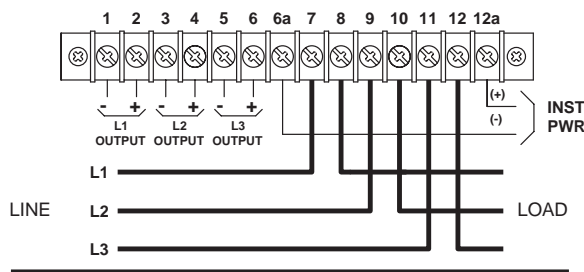
Current..... See Table  
 Frequency Range ..... 48 to 420Hz  
 Burden ..... 0.4VA F.S.  
 Current Overload  
 1-10A Range..... 2 X F.S.(cont.)  
 15-20A Range..... 1.25 X F.S.(cont.)  
 1A Range..... 10A (10 sec. transient)  
 All other Ranges ..... 50A (10 sec. transient)  
 250A (1 sec. transient)  
 Dielectric Test.....(Input/Output/Case) ..... 2200Vac

##### OUTPUT

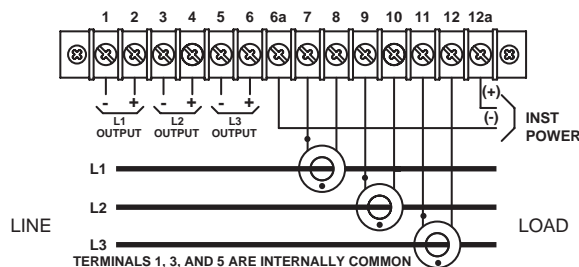
Output Ripple..... <1.0% F.S.  
 Response (90%)..... 100ms  
 Output Loading (Ω)  
 0-1mA ..... 0-10K  
 0-10V<sub>d</sub>c, 0-5V<sub>d</sub>c ..... 2K min.  
 4-20mA ..... 0-500  
 Field Adjustable Cal..... ±10%  
**ACCURACY** ..... **±0.25% F.S.** at 60Hz  
 Includes effects of linearity and repeatability.  
 ±0.5% F.S. over frequency range  
 Temperature Effect.....(-20°C to +60°C) ..... ±1.0% Rdg.  
 Instrument Power (Std.)..... 85-265Vac, 48-420Hz, 5VA  
 or..... 110-370V<sub>d</sub>c, 5VA  
 Weight ..... 2.5 Lbs.

#### CONNECTION DIAGRAMS

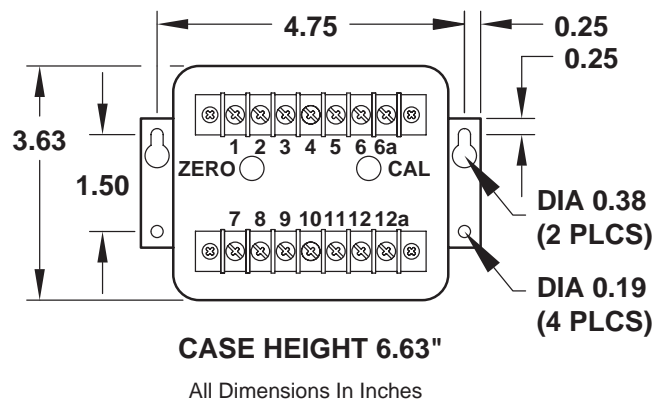
##### USING INTERNAL CURRENT SENSORS



##### USING CURRENT TRANSFORMERS



#### DIMENSIONS



CURRENT TRANSDUCERS

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