RMS CURRENT TRANSDUCER — MODEL CTCR-

NON-CONTACT, LOOP-POWERED, TRUE RMS

DESCRIPTION

The CTCR series of transducers provides a non-contact, loop-powered, method of current measurement. The dc output is directly proportional to the true RMS value of ac window current. Measurement ranges of 1A to 100A are available.

RoHS compliant

5 YEAR WARRANTY

FEATURES

- ±0.25% accuracy (±0.5% on 1A model)
- True RMS measurement
- Non-contact
- Loop-powered
- Ease of Installation

SPECIFICATIONS

INPUT

Current Range ..... See Table
Over-range w/o damage .. Continuous ..... 1.3X Rating
Transient (10s/hr) .. 5X Rating
Frequency Range 50-400Hz

OUTPUT

Type ..... 2-Wire ..... 4-20mAdc, loop-powered
Scaling ..... 0-F.S. Input = 4-20mAdc Output
Loading ..... 24Vdc loop power 0-500Ω
15Vdc loop power 0-400Ω
Response ..... to 90% ..... 250ms, Typical
Ripple ..... ≤1.0% F.S. pk-pk

DIELECTRIC TEST

Conductor Through Window to Output 2200Vac

INSTRUMENT POWER

Loop-Powered ..... Nominal 24Vdc
Range 15-35Vdc

ACCURACY (setpoint, linearity, repeatability)

1A model
50/60Hz ..... 10-100% F.S. ..... ±0.5% F.S.
all other ..... ±2% F.S., Typical
5A-100A models
50/60Hz ..... 10-100% F.S. ..... ±0.25% F.S.
all other ..... ±1% F.S., Typical

TEMPERATURE

Operating ..... Range ..... -20°C to 60°C
Effect ..... ±1.0% F.S.

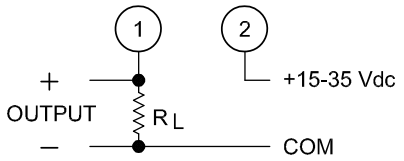
PHYSICAL

Termination ..... No. 6-32 Screw Terminals
Enclosure ..... Noryl SE1X, UL 94V-1
Weight ..... 0.2 lb

MODEL SELECTION

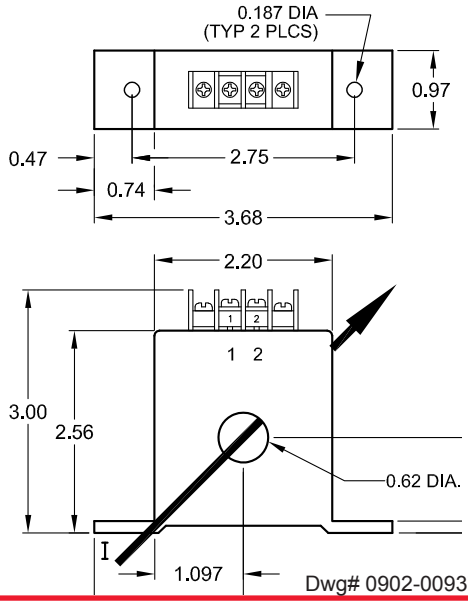
INPUT Aac	STANDARD OUTPUTS MODEL CTCR- (4-20mAdc loop-powered)
0-1	001E2
0-5	005E2
0-10	010E2
0-15	015E2
0-20	020E2
0-25	025E2
0-30	030E2
0-35	035E2
0-40	040E2
0-50	050E2
0-100	100E2

CONNECTION DIAGRAM



CASE DIMENSIONS

All dimensions in inches. (Tolerance: ±0.03in.)



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