Current Sensing Relay

CR4395 Series



OUTPUT OPTIONS

The Relay is available with three different output configurations, electromechanical relay, optoisolated NPN transistor or optoisolated triac. Specify desired selection in part number.

RELAY (-ELR)

Arrangement: 1 Form C (SPDT) Contact Material: Silver-cadmium oxide Terminals: 3^{1/4°} Male QC Mechanical Life: 10 million operations, typ.@ rated load Electrical Life: 100,000 operations, typ. @ rated load Initial Contact Resistance: 50 milliohms max. @ 500 mA, 12 VDC Contact Rating: UL508/873 & CSA

DC SWITCHING (-NPN)

Vce (full off): 30 VDC max. Isink (full on): 120 mADC max.@ rated full-on Vce (full on): 1.5 VDC @ 120 mADC Isink Off state leakage current: 5ua @ 30 VDC (typical)

AC SWITCHING (-TRC)

Off state voltage: 240 VAC RMS max. Minimum switch voltage: 24 VAC RMS On state current: 0.5 AAC RMS max. continuous Switching mode: Zero crossing Off state leakage: 60 ua @ 240 VAC max. Terminals: 2 @ 1/4" Male QC The **CR4395** Series, Current Sensing Relay provides an effective and highly stable method for monitoring electrical current. The current-carrying wire is routed through the opening extending from the top of the case. When current reaches the level set by the trip point adjustment, the relay trips and starts the adjustable timer. After the timer cycles the electromechanical relay is energized. A precision voltage reference circuit ensures a highly repeatable trip point.

Applications

Monitor Electrical Heater Elements Sense Motor Over/Under Loads Detect Lamp burn-out Indicate Phase Loss

Features

Variable Trip Point and Time Delay Monitors Currents from 1 AC to 100 AC Amps Electrical Isolation Between Circuits Output Relay Rated up to 20 Amps LED Trip Status Indicator Dead Band Prevents Relay Chatter Calibrated Dial Option Available External Current Transformers Available

Specifications

Mounting: 3/16'' dia. clearance holes on $1^{15/16''}$ by $2^{15/16''}$ centers Environmental: Operating Temperature: -30° C to +60° C Storage Temperature: -55° C to +85° C Power-On Delay: 100 MS MAX Hysteresis: 5% Max. Input Supply Power: Typical 80mA Max 100mA Sensed Current: Max. Continuous: 200% Full Scale Frequency: 60-400 Hz * *All specifications for operation at 60 Hz only Altitude: 2000 meters max. (Contact factory for High Altitude applications) Weight 0.5 LBS.

Regulatory Agencies



VOLTAGE	LOAD TYPE	N.O. CONTACT	N.C. CONTACT
240 VAC	Resistive	20A	10A
240 VAC	Motor	2HP	1/2 HP
125 VAC	Motor	1 HP	1/4 HP
28 VDC	Resistive	20A	10A



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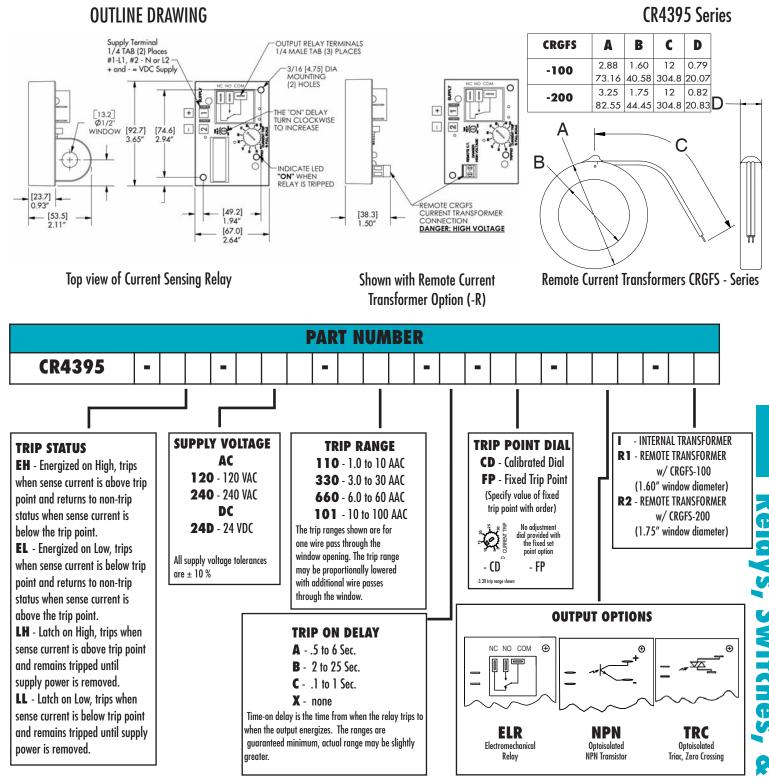
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Relays, Switches, & Sensors

Current Sensing Relay



Example Part Numbers: CR4395-EH-120-110-CD-ELR-I (Relay with CT on board) CR4395-EL-240-330-CD-NPN-R1 (Relay with external CRGFS-100)



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