



**THE DATASHEET OF  
CR4395-EL-120-101-X-CD-ELR-I**



# 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	1HP	1/4 HP
28 VDC	Resistive	20A	10A



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