

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)

V_{ce} (full off): 30 VDC max.
I_{sink} (full on): 120 mADC max. @ rated full-on
V_{ce} (full on): 1.5 VDC @ 120 mADC I_{sink}
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.

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:
Terminals: 2 1/4" Male QC
Sensed Current:
Max. Continuous: 200% Full Scale
Frequency: 60-400 Hz *
*All specifications for operation at 60 Hz only
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



Another HUNTINGTON ELECTRIC Company

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