CR5395 Series



OUTPUT OPTIONS

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

RELAY (-ELR)

Arrangement: 1 Form C (SPDT)

Contact Material: Silver-cadmium oxide

Terminals: 31/4" 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)

Terminals: 21/4" Male QC

AC SWITCHING (-TRC)

Off state voltage: 240 VAC RMS max.
Minimum switch voltage: 24 VAC RMS
On state current: 500 mA RMS max. continuous

Switching mode: Zero Crossing

Off state leakage: 60 ua @ 240 VAC max.

Terminals: 2-1/4" Male QC

The **CR5395** Series, Direct Current Sensing Relay provides a precision and cost effective method for monitoring Direct Current. Magnetic Modulator Technology is utilized for the current sensing to provide a stable and highly repeatable current trip. The current-carrying wire is routed through the opening extending through 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 energizes.

Applications

DC motor drives
Battery Chargers
Power Supply Management
Uninterruptible Power Systems
Motor Application

Features

Variable Trip Point and Time Delay

Bi-polar

Monitors Currents from 1.0 ADC to 100 ADC

Electrical Isolation Between Circuits Output Relay Rated up to 20 Amps

LED Trip Status Indicator

Dead Band Prevents Relay Chatter

Calibrated Dial

External Current Transformers Available

Specifications

Mounting:

3/16" dia. clearance holes on 115/16" by 215/16" centers

Environmental:

Operating Temperature: -30° C to +70° C Storage Temperature: -55° C to +85°

0-95% RH, Non-condensing

Input Supply Power:
Terminals: 21/4" Male QC

Sensed Current:

Max. Continuous: 200% Full Scale

Weight 0.5 LBS.

Regulatory Agencies

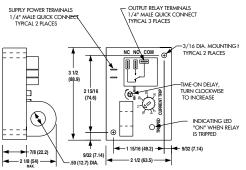




VOLTAGE	LOAD TYPE	N.O. CONTACT	N.C. CONTACT	
240 VAC	Resistive	20A	10A	
240 VAC	Motor	2HP	1/2 HP	
125 VAC	Motor	1HP	1/4 HP	
28 VDC	Resistive	20A	10A	

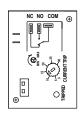


OUTLINE DRAWING CR5395 Series

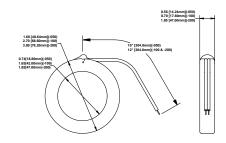








Shown with Remote Current Transformer Option (-R)



REMOTE DC CURRENT SENSOR **CRDCS** - Series

PART NUMBER I - INTERNAL TRANSFORMER TRIP STATUS **TRIP RANGE** TRIP POINT DIAL **SUPPLY VOLTAGE** R - REMOTE TRANSFORMER 110 - 1.0 to 10 ADC **EH** - Energized on High, trips **CD** - Calibrated Dial ACV - 85 to 265 VAC 330 - 3.0 to 30 ADC when sense current is above trip FP - Fixed Trip Point 24D - 24 VDC ±10% 660 - 6.0 to 60 ADC (Specify value of fixed point and returns to non-trip 12D - 12 VDC **OUTPUT OPTIONS** trippoint with order) status when sense current is 101 - 10 to 100 ADC below the trip point. No adjustment dial provided with the fixed set The trip ranges shown are for **EL** - Energized on Low, trips one wire pass through the point option when sense current is below trip **ELR TRC** - CD window opening. The trip range - FP lectromechanical **Optoisolated** Optoisolated point and returns to non-trip may be proportionally lowered NPN Transistor Triac, Zero Crossing with additional wire passes status when sense current is

sense current is above trip point and remains tripped until supply power is removed. **LL** - Latch on Low, trips when sense current is below trip point

and remains tripped until supply

LH - Latch on High, trips when

above the trip point.

power is removed.

Available with external ring sensors capable of over 1000A of sensing range. Contact Factory for details.

through the window.

TRIP ON DELAY

- A .5 to 6 Sec.
- **B** 2 to 25 Sec.
- C .1 1 Sec.
- X none

Time-on delay is the time from when the relay trips to when the output energizes. The ranges are guaranteed minimum, actual range may be slightly

☐ EXTERNAL CURRENT SENSING TRANSFORMER CRDCS -

050 - 1.60 dig. Window 100 - 2.70 dia. Window 200 - 3.00 dia. Window



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