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: 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) Terminals: 2^{1/4"} 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 $1^{15/16''}$ by $2^{15/16''}$ centers

Environmental:

Operating Temperature: -30° C to +70° C

Storage Temperature: -55° C to +85°

0-95% RH, Non-condensing Input Supply Power:

Typical 80mA Max 100mA

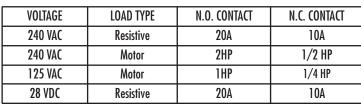
Sensed Current: Max. Continuous: 200% Full Scale

Altitude: 2000 meters max.

(Contact factory for High Altitude applications) Weight 0.5 LBS.

Regulatory Agencies







3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119

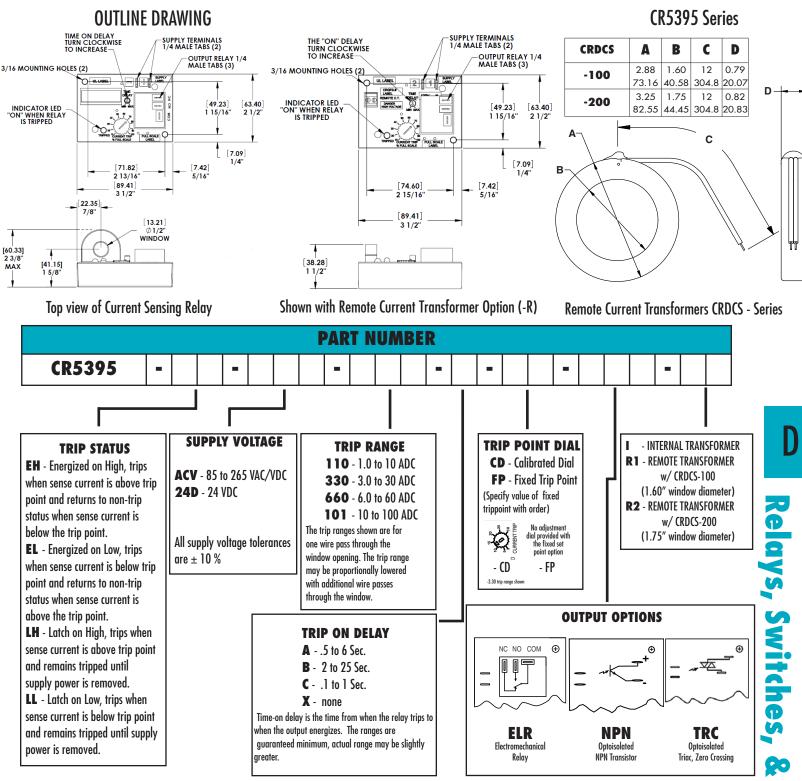
Web: http://www.crmagnetics.com

64

E-mail: sales@crmagnetics.com

Relays, Switches, & Sensors

Direct Current Sensing Relay



Example Part Numbers: CR5395-EH-ACV-110-CD-ELR-I (Relay with CT on board) CR5395-EL-24D-330-CD-NPN-R1 (Relay with external CRDCS-100)



3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119 Web: http://www.crmganetics.com E-mail: sales@crmagnetics.com 65