CR7310 Series



OUTPUT OPTIONS

The Relay is available with three different ouput configurations, electromechanical relay, optoisolated NPN transistor or zero-crossing 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 Q C

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 **CR7310** Series, Ground Fault Sensor provides a reliable and cost effective method for sensing ground faults. The current-carrying wires are routed through the opening extending from the top of the case. When ground current reaches the level set by the trip point adjustment, the relay trips, illuminates the tripped LED and provides an output signal. A precision voltage reference circuit ensures a highly repeatable trip point. The Sensor is rated as a Class 1 device.

Applications

Monitor Motor Ground Faults Sense Early Failure of Heater Elements Equipment Protection

Features

Variable Trip Point

Monitors Currents from 10 mA 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

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 $+85^{\circ}$ C

0-95% RH, Non-condensing

Input Supply Power:

Typical 80mA Max 100mA

Sensed Current:

Max. Continuous: 200% Full Scale

Frequency: 50-400 Hz *

*All specifications for operation at 60 Hz only

Weight 0.5 LBS.

Regulatory Agencies





E211244

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

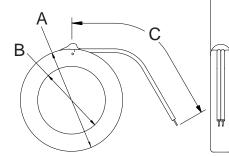


CR Magnetics, Inc. 3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119

OUTLINE DRAWING SUPPLY TERMINAL 1/4 TAB (2) PLACES #1- "L1, #2-"N or L2" OUTPUT RELAY TERMINALS 3/16 [4.75] DIA MOUNTING (2) HOLES THE "ON" DELAY TURN CLOCKWISE TO INCREASE 2 N 1104 #(⊜, INDICATE LED "ON" WHEN RELAY IS TRIPPED [22.4] REMOTE CRGFS CURRENT TRANSFORMER CONNECTION DANGER: HIGH VOLTAGE [49.2] 1 15/16' [53.5] 2 1/8" [38.3] 1 1/2" [63.4] 2 1/2"

CR7310 Series

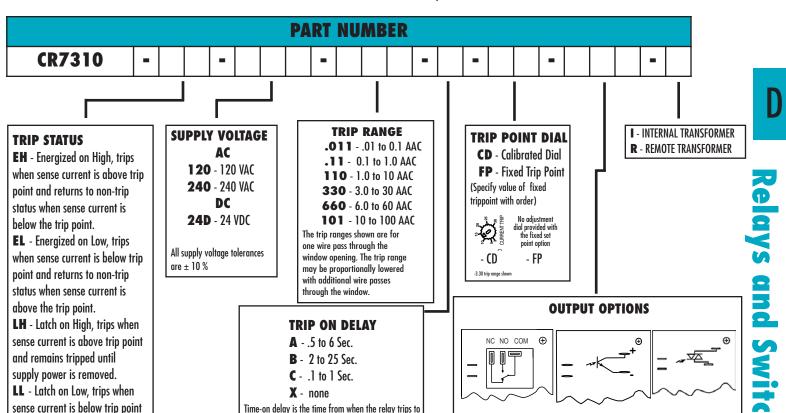
CRGFS	A	В	C	D	
-100		1.60			
-100	73.16	40.58	304.8	20.07	
-200		2.00		0.60	
-200	76.20	50.80	304.8	20.4	D



Remote Current Transformers CRGFS - Series

Top view of Current Sensing Relay

Shown with Remote Current Transformer Option (-R)



CRGFS - EXTERNAL CURRENT SENSING RING TRANSFORMER 100 - 1.60 dia. Window

200 -2.00 dia. Window



and remains tripped until supply

power is removed.

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ELR

Flectromechanical

Web: http://www.crmagnetics.com

when the output energizes. The ranges are

guaranteed minimum, actual range may be slightly

E-mail: sales@crmagnetics.com

NPN

Optoisolated

TRC

Optoisolated

Triac, Zero Crossing