



**DC Current Sensor
200 Amps • Form X
To MIL-PRF-6106**

SPECIFICATIONS

GENERAL

Contact ArrangementSPST (1 Form X)
Weight..... 1.6 lb
 Designed to meet the requirements of MIL-PRF-6106

PERFORMANCE

Contact Ratings (Note 1):

Power Contacts:

Resistive 200 Amps @ 28 VDC

<u>Current Trip Points</u>	<u>Trip Time</u>
950 Amperes or greater	2 Seconds Maximum
800 to 949 Amperes	6 Seconds
700 to 799 Amperes	15 Seconds
550 to 699 Amperes	30 Seconds
200 to 549 Amperes	70 Seconds
0 to 199 Amperes	150 Sec (Note 2)

Tolerances:

Current +2%, -5%
 Time ±5%

Auxillary Contacts:

Configuration.....2PDT
 Current Rating5 Amps @ 28 VDC

Life 50,000 cycles @ rated load
 100,000 cycles mechanical

Rupture (main contacts) 1000 Amperes

Operate/Release Time: 50 ms max
 Excluding bounce time at nominal coil voltage

Contact Bounce Time..... 3 ms max
 @ rated contact load, 28 VDC

Coil Data: (@ 28 VDC and 25°C)

Nominal Coil Voltage..... 18 to 30 VDC
 Pull-In Voltage..... 15 VDC max
 Drop-out Voltage 1 to 6 VDC
 Coil resistance..... 150 Ohms ±20%

ENVIRONMENTAL

Temperature Range..... -55°C to +85°C
Vibration (Note 3)..... 10 G's 50 - 500 Hz
 5 G's 500 - 2,000 Hz

Shock (Operating)(Note 3) 10 G's 11 ms

ELECTRICAL CHARACTERISTICS

Duty Cycle.....Continuous
Insulation Resistance 100 megohms
 @ 500V 25°C

Dielectric Strength:

Sea Level:
 Contact to Case 1,250 VRMS
 Contact to Coil 1,250 VRMS
 Coil to Case 1,250 VRMS
 Across Open Contacts 1,250 VRMS
 50,000 Feet:
 All Points 700 VRMS

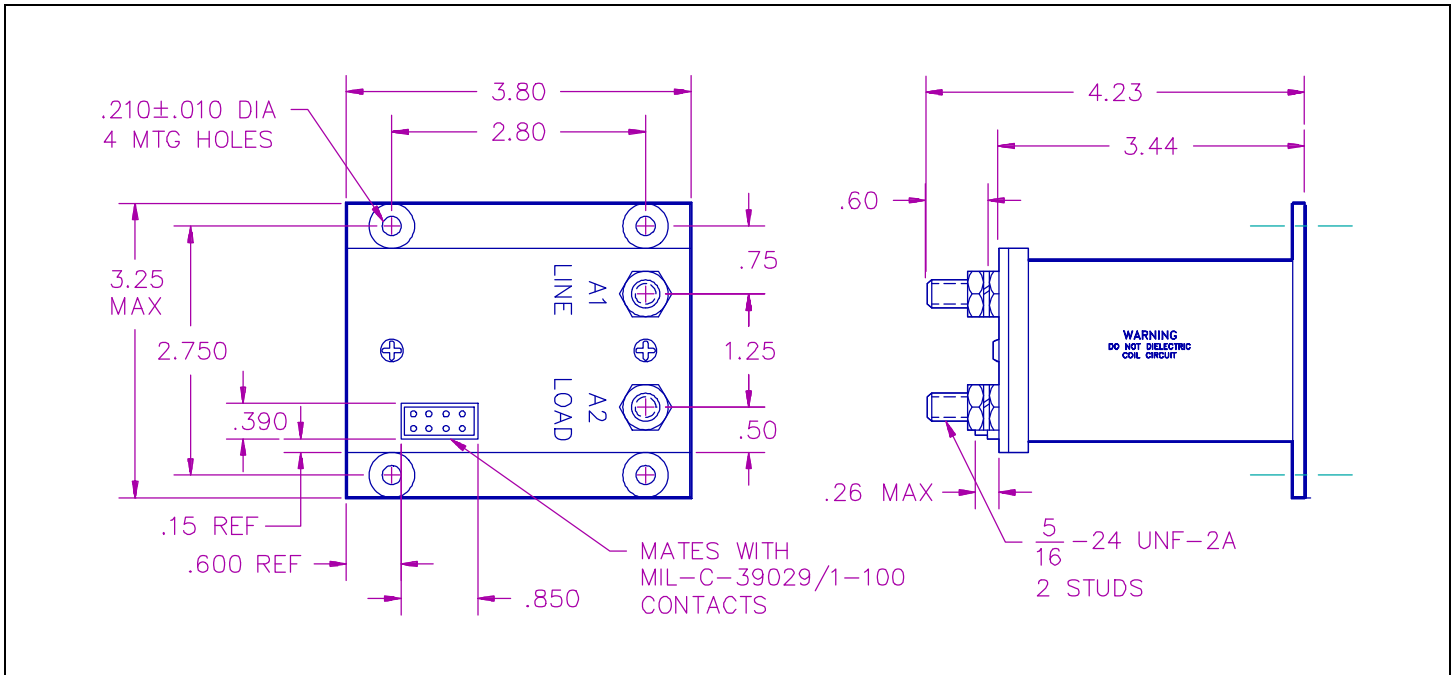
NOTES:

1. For other ratings consult the factory.
2. At the end of 150 seconds the sensor shuts off and will reset when the input voltage drops to 0 volts.
3. For applications requiring higher shock and vibration, consult the factory.

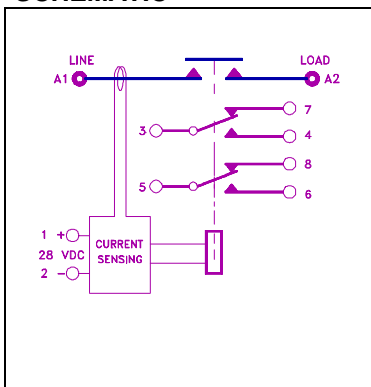
The 710 Current Sensor is truly a remote controlled power controller designed to sense different current levels flowing through its contacts, and to open that circuit after a specific length of time depending on the current level being conducted. This is useful in applications where you want to allow current overloads for a limited length of time, and then have the unit disconnect the load after a given length of time.

The 710 circuitry is fully temperature compensated and has 1500 watts of Peak Power Dissipation transient suppression built in so it can withstand the rigors of even the noisiest of supply voltages. Utilizing a gasket sealed, vented, construction with all space age approved materials, the 710 Current Sensor is ideal for demanding applications.

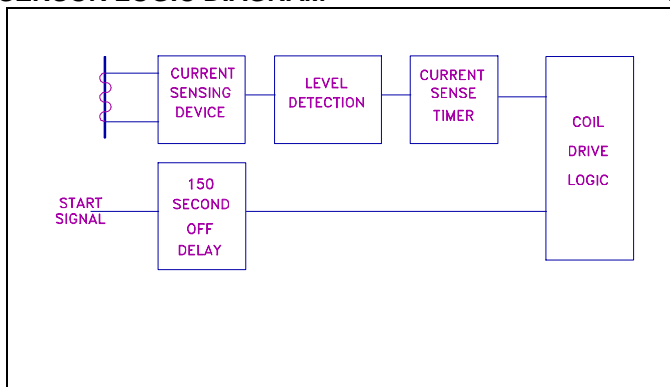
OVERALL DIMENSIONS



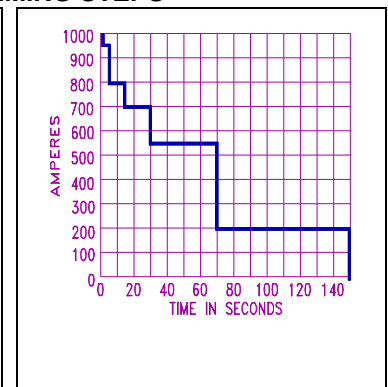
SCHEMATIC



SENSOR LOGIC DIAGRAM



TIMING STEPS



GENERAL NOTES

- Unless otherwise specified, all tests made at nominal coil voltages, @ 25°C.
- Unless otherwise specified, tolerances on decimal dimensions are $\pm .010$ ".
- For special coil variations, switching configurations, terminals styles and mounting types, consult the factory.
- Specifications contained herein are subject to change without notice.