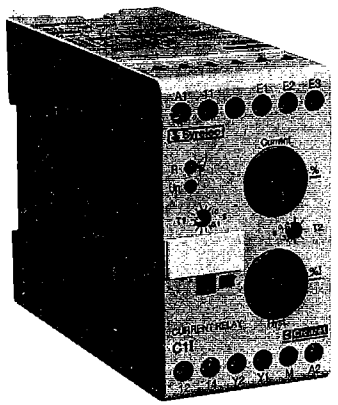
C1I SERIES
CURRENT CONTROL RELAY

UL-E87133 CSA-LR56339



- **AC (rms) or DC Current Control**
- **5 mA to 10 Amp Current Range**
- **10 Amp Relay Output**
- **Built-in DOM Timer**

GENERAL FEATURES:

The C1I Series is a AC/DC current monitor with a SPDT 10 Amp output relay. The relay output can operate on normal or inverse operation allowing monitoring of under or over current. The device will accept AC or DC current from 5 mA to 10 Amps. To avoid nuisance tripping, a delay on make timer can be set from 0.1 to 3 sec.

SPECIFICATIONS:

Input Power ..... 24, 110, 230 VAC, ±15% 50/60 Hz
Max. Power Consumption ..... 3 VA
Current Inputs

Input Terminals	Current Range AC/DC	Input Impedance	Overload Permanent	Overload < 1 sec
E 1, M	5 to 100 mA	1Ω	1 A	5 A
E 2, M	50 mA to 1A	0.1 Ω	3 A	17 A
E 3, M	.5 A to 10 A	0.01 Ω	12 A	55 A

Input Current Frequency ..... 10 Hz to 500 Hz
Display Accuracy ..... ±10%
Repeat Accuracy ..... ±0.2%
Hysteresis ..... Adjustable: 5 to 50% of set point
Response Time ..... On Make: Adjustable: 0.1 to 3 sec. (T2)
..... On Break: 500 ms
Inhibit Time (T1) ..... Adjustable: 0.1 to 10 sec.
Output Relay ..... SPDT 10 Amp @ 250 VAC
Max. Power Rating ..... 2500 VA
Max. Electrical Life ..... 2 x 10^5 Operations @ 2500 VA
Operating Temperature ..... +14°F to 140°F (-10°C to +60°C)
Weight ..... 7 oz.
Conform to: ..... IEC 255-5, IEC 801-F

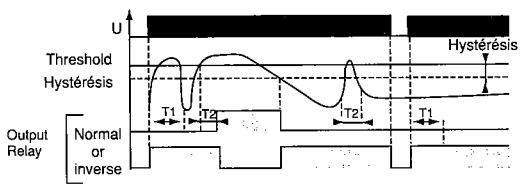
NOTE: If a power interruption of less than 0.5 sec occurs, the output relay will turn back on in the up mode or stays off in the down mode

ORDERING INFORMATION:

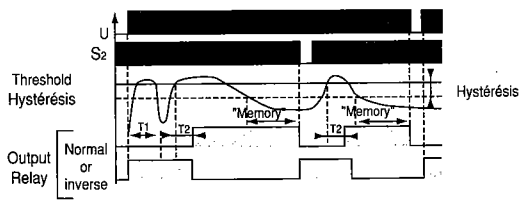
VOLTAGE	PART NUMBER
24VAC	84 893 203
110 VAC	**84 893 206**
220 VAC	84 893 207

MODES OF OPERATION:

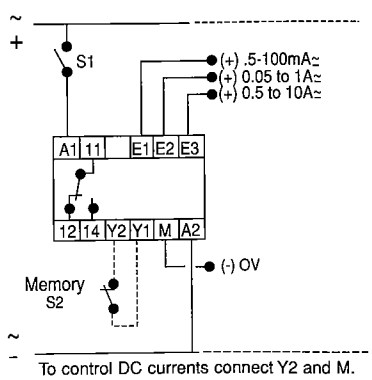
1. **AC/DC Current Control Without Latching:**
When the value of the AC or DC current being controlled reaches the threshold displayed on the front panel, the output relay changes status after delay T2 (adjustable between 0.1 and 3 seconds via front panel). The relay immediately returns to its initial status when the current drops to below 5 to 50% of the threshold (hysteresis) or if the power supply is cut.
Changing the hysteresis value (via front panel) does not changes the value of the preselected threshold.



2. **AC/DC Current Control With Latching:**
When the value of the AC or DC current being controlled reaches the threshold displayed, the output relay changes status after delay T2 and remains locked in this position. To reset the relay, contact S2 between Y1 and M must be opened or the power supply to the unit must be cut.



WIRING:



CONTROLS