**CI Series TDR**

... Solid state analog circuitry  
... One-shot timing mode (interval on)  
... DPDT (2 form C) isolated 10 ampere relay contacts  
... Timing selection: Knob adjustable or Fixed  
... Numerous models timing from 0.1 secs. to 480 secs.  
... UL File #E96739 (M)  
... CSA File #LR62586-3

**Timing Mode:**  
Relay contacts transfer and timing cycle begins, upon application of power. At the end of the timing cycle, the relay contacts return to the De-Energized position. Reset occurs upon removal of the input power.

**Timing Diagram:**

```
  INPUT VOLTAGE  ON   OFF  
  N.O. RELAY CONTACTS  ON  OFF  TIME
```

**Contact Information:**  
Arrangement: 2 form C (DPDT) - Diagrams C & D  
Contact Material: Silver - Cadmium Oxide  
Rating (Resistive):  
10A @ 240V AC Resistive  
15A @ 30V DC Resistive  
15A @ 120V AC Resistive  
1/3 HP @ 120V AC  
1/2 HP @ 250V AC  
Expected Life @ 25°C:  
10 Million operations, Mechanical  
100,000 operations minimum at rated loads
Environmental Information:
Temperature Range: Storage: -60°C to +105°C (-76°F to +221°F)
Operating: 45°C to +70°C (-49°F to +158°F)

Mechanical Information:
Termination: 8 Pin Octal Style Plug or 11-Pin Spade Terminal (Dia. C&D)
Enclosure: White plastic case. Knob adjustable models have a dial scale for reference only "LCI" version has a black case. Weight: 4 oz (114g) approx.

Outline Dimensions:

Timing Specifications:
Timing - Fixed: 0.1 through 480 secs.
Custom timing is available.
Timing Adjustment: Knob adjustable potentiometer.
Timing Tolerance:
Fixed Units: ±5%
Adjustable Units: -0 to +25% of maximum specified delay time.
Minimum specified value or less at low end.
Repeatability: ±5%
Release Time: 60 ms typical, 100 ms maximum.

Initial Dielectric Strength:
Between open contacts: 1000V RMS, between adjacent contacts: 1500V RMS,
Between contacts & coil: 1500 RMS.

Input Information:
Voltage: AC units- 12V, 24V, and 120V
DC units- 12V, 24V, 48V & 110V. Other voltages are available.
Power Requirement: AC units: 3 VA or less, DC units: 3 Watts or less.
Transient Protection: 1 JOULE MOV.
Polarity Protection: On DC units - Yes.

**Input Voltages & Limits:**

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V AC</td>
<td>10V</td>
<td>14V</td>
</tr>
<tr>
<td>24V AC</td>
<td>20V</td>
<td>28V</td>
</tr>
<tr>
<td>120V AC</td>
<td>105V</td>
<td>130V</td>
</tr>
<tr>
<td>12V DC</td>
<td>11V</td>
<td>14V</td>
</tr>
<tr>
<td>24V DC</td>
<td>20V</td>
<td>32V</td>
</tr>
<tr>
<td>48V DC</td>
<td>41V</td>
<td>55V</td>
</tr>
<tr>
<td>110V DC</td>
<td>55V</td>
<td>125V</td>
</tr>
</tbody>
</table>

**Wiring Diagrams:**

**Ordering Information:**
Definition of a part number for the Amperite CI Series Time Delay Relay.
Example:

A: Denotes nominal input voltage. Voltages available: 12, 24, & 120V AC; 12, 24, 48 & 110V DC. Custom voltages are available.
B: Denotes type of input current required for operation. A=AC - Alternating current;
D=DC - Direct current.
C: Denotes contact form: P= DPDT - 2 form C.
D & E: Denotes range of knob adjustability for timing (in seconds) where:
D= Minimum time delay.
E= Maximum time delay for adjustable TDR’S.
Note: 1.) Ranges available: 0.1 - 60, 60 - 120, 120 - 180, 180 - 240, 240 - 300 & 300 -
480 secs. Custom Timing is available.
2.) Both values (D & E) can be replaced by a single value for a factory preset time delay
in seconds from 0.1 through 480 secs.
F: Enter "L" if optional 11-pin spade terminals are required (Dia. B &D).
G: Denotes use of solid state analog circuitry of CI Series.

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