B Series TDR

... Delay on Make or Delay on Break timing modes
... Thermal device
... 3 AMP rating
... Low cost
... 1 - 115V input voltage range - works on AC or DC
... Isolated output contacts
... Fixed delay times only
... Initial and reset (release) delay device
... Long life
... UL File #E96739 (M)
... CSA Rile #LR62586

Timing Mode:
Timing cycle begins upon application of power to the heater terminals. At the end of the initial delay time the relay contacts transfer and remain in a transferred state until input power is removed. When the heater input power is removed, the contacts transfer back to their original state at the end of a reset (release) delay period.

Timing Diagram:

Contact Information:
Arrangement:
1 form A (SPST - Normally open) - Delay on Make
1 form B (SPST - Normally closed) - Delay on Break
Contact Material: Silver - Cadmium Oxide
Rating (Resistive): 3A @ 115V AC
Expected Life @ 25° C: 500,000 operations minimum at rated loads

Environmental Information:
Temperature Range: Operating & storage: -34° C to +77° C,
(-30° F to +171° F)

Mechanical Information:
Termination: .110 inch (standard), .250 inch or screw terminals (optional).
Enclosure: Black plastic case.
Mounting: Single screw or optional 2-screw panel mount  
Weight: 0.8 oz. (239g.) approx.

Outline Dimensions:

Timing Specifications:  
Timing - Fixed: 2 through 300 secs.  
Timing Tolerance: ±20% - Tighter tolerances are available.  
Repeatability: ±5%  
Release Time - Fixed: Varies with initial delay - contact factory  
Timing Cycle Interrupt Transfer: none

Initial Dielectric Strength:  
Between open contacts: 500V RMS  
Between contacts & Coil: 500V RMS

Input Information:  
Voltage: AC or DC - 6V, 12V, 26V, 50V and 115V (Other voltages are available)  
Power Requirement: 2.3 Watts  
Transient Protection: impervious to transients  
Polarity Protection: None required

Input Voltages & Limits:

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Minimum</th>
<th>Maximum</th>
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</thead>
<tbody>
<tr>
<td>6V AC/DC</td>
<td>4V</td>
<td>8V</td>
</tr>
<tr>
<td>12V AC/DC</td>
<td>10V</td>
<td>14V</td>
</tr>
<tr>
<td>26V AC/DC</td>
<td>22V</td>
<td>30V</td>
</tr>
<tr>
<td>50V AC/DC</td>
<td>42V</td>
<td>58V</td>
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</tbody>
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Wiring Diagrams:

Two Independent Power Sources

AC or DC Heater Power

AC or DC Load Power

Load

Diagram A

AC or DC Heater Power

AC or DC Load Power

Diagram B

Common Power Source

AC or DC Heater and Load Power

Load

Diagram C

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

115
NO
60
X
B

A B C D E

A: Denotes nominal input voltage. Voltages Available: 6, 12, 26, 50 & 115V AC/DC. Custom Voltages are available.

B: Denotes contact form:
NO = normally open (Delay on Make) - 1 form A - SPST
C = normally closed (Delay on Break) -1 form B - SPST

C: Denotes timing value. Factory preset time delays from 2 - 300 secs. are available.
Note: Contact factory for release (reset) time.

D: Denotes form of termination:
Blank = .110 male electro-plate solder terminals (standard).
X = .250 male quick connect terminals (optional).
S = screw terminals (optional).

E: Denotes use of thermal technology of B Series.