ST1A Series Solid State Delay-On-Make Timers

... 100% solid state circuitry - no moving parts
... CMOS digital timing circuitry
... Fixed or field adjustable delays from milliseconds to hours
... 2 amperes continuous load current (10 amperes available, consult factory)

Timing Mode:
Delay on operate begins upon application of input power. The load is energized at the end of the delay period and remains so until input power is removed.

Timing Diagram:

Contact Information:
Solid state switching device 1 form A; normally open series connection. Continuous current rating 2 amperes. Maximum inrush 20 amperes. Voltage drop 2.5 volts RMS or less @ 2 amperes. (For 10 ampere load current rating consult factory).

Note: Maximum current rating for 110V DC os 2 amps (heat sink required).
**Timing Specifications:**
Timing: Factory fixed, or 0.1 seconds to 100 hours in any of the ranges below. Timing is set by user supplied resistor or potentiometer. Custom timing available.

Timing ranges:
- .1 to 10 seconds
- .2 to 20 seconds
- 1 to 100 seconds
- 10 to 1000 seconds
- 1 to 100 seconds
- .1 to 10 hours
- 10 to 1000 seconds
- 1 to 100 hours
- .1 to 10 minutes

Timing tolerance: fixed units +/- 10%
Timing repeatability: 2%
Timing cycle interrupt transfer: none

**Outline Dimensions:**

```
AC (60 Hz) and DC Input Voltages & Limits

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Minimum</th>
<th>Maximum</th>
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<tbody>
<tr>
<td>12V</td>
<td>10V</td>
<td>14V</td>
</tr>
<tr>
<td>24V</td>
<td>20V</td>
<td>28V</td>
</tr>
<tr>
<td>48V</td>
<td>41V</td>
<td>55V</td>
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</tbody>
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```
External Resistor Selection:

![Resistor Selection Chart]

Wiring Diagrams:

![Wiring Diagrams]

Mechanical Information:
Enclosure 2 X 2 X 3/4 inch black plastic, epoxy sealed. Center hole mounting. Three or five 1/4 inch quick connect male terminals.
Ordering Information:
Definition of a part number for the Amperite ST1A Series Time Delay Relay:
Example:


B: Denotes type of input power required for operation: A = AC - Alternating Current; D = DC - Direct Current.

C & D: Denotes range of adjustability by using an external resistor or potentiometer, where C is the minimum timing and D is the maximum timing. Standard timing span is 100:1. For fixed timing units specify a single number.

E: Denotes unit of time delay: S=seconds; M=minutes; H=hours.

F: Denotes Amperite ST1A Series solid state, delay-on-make timer.