



Solving your relay requirements since 1922

Amperite Co.
567 52nd Street
P.O. Box 329
West New York, NJ 07093
(800) 752-2329
www.Amperite.com

ST1 Series Solid State Delay-On-Make Timers



- ... 100% solid state circuitry - no moving parts
- ... Two terminal series connection to load
- ... Fixed or field adjustable delays from milliseconds to hours
- ... Up to 1 ampere continuous load current
- ... CMOS digital circuitry
- ... UL File #E96739(M)
- ... CSA File #LR62586

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 1 ampere. Maximum inrush 10 amperes. Minimum load current 5 milliamperes. Voltage drop typically 2.5 volts RMS @ 1 ampere.

Environmental Information:

Temperature Range: -40° C to +65° C (-40° F to +149° F)

Timing Specifications:

Timing: Factory fixed, or .1 seconds to 100 hours in any one of eight ranges. Timing is set by user supplied resistor or potentiometer.

*Timing ranges:

- .1 to 10 seconds
- .2 to 20 seconds
- 1 to 100 seconds
- 10 to 1000 seconds



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- .1 to 10 minutes
- 1 to 100 minutes
- 10 to 1000 minutes
- .1 to 10 hours
- 1 to 100 hours

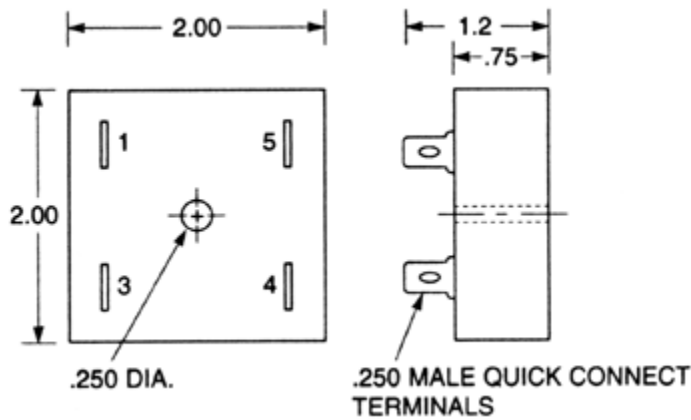
*See External Resistor Selection Graph for specific resistor value.

Timing tolerance: fixed units = +/- 10%

Timing repeatability: +/- 2%

Timing cycle interrupt transfer: none

Outline Dimensions:



AC (60 Hz) and DC INPUT VOLTAGES & LIMITS:

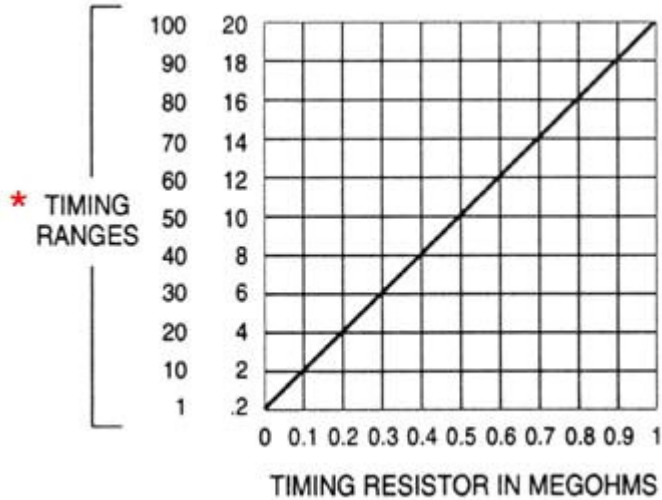
| Nominal | Minimum | Maximum |
|---------|---------|---------|
| 12V | 10V | 14V |
| 24V | 20V | 28V |
| 48V | 41V | 55V |
| 110V | 95V | 125V |
| 120V | 105V | 130V |
| 230V | 190V | 255V |



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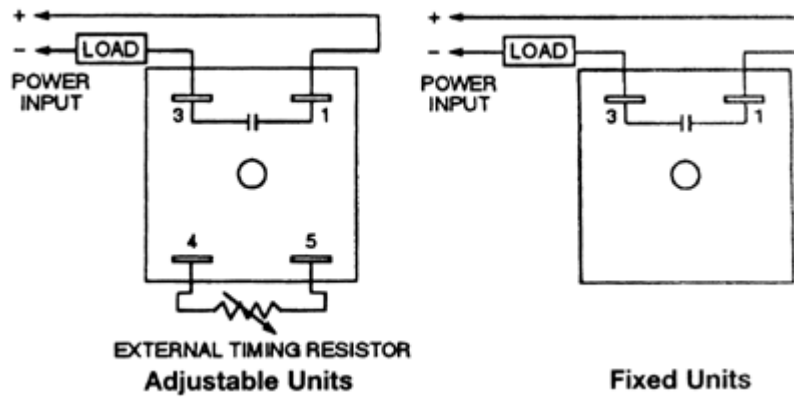
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External Resistor Selection:



* Note: use appropriate timing scale in accordance with Timing ranges specified above.

Wiring Diagrams:



Mechanical Information:

Enclosure 2 x 2 x 3/4 inch black plastic, epoxy sealed. Center hole mounting. Two or four 1/4 inch quick connect male terminals.



Ordering Information:

Ordering Information: Definition of a part number for the Amperite ST1 Series Time Delay Relay:

Example:



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120 A 1 - 100 S ST1
↑ ↑ ↑ ↑ ↑ ↑
A B C D E F

A: Denotes nominal input voltage. Voltages available: 12, 24, 48, 120, and 230 volts AC; 12, 24, 36, 48, and 110 volts DC. For other voltages consult factory.

B: Denotes type of input power required for operation

A = AC - Alternate Current

D = DC - Direct Current

C&D: Denotes range of adjustability 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 ST1 Series solid state, normally open time delay.



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