

# ST1A Series Solid State Delay-On-Make Timers



- $\dots$  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 ampers (heat sink required).

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# **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 1 to 100 minutes

.2 to 20 seconds 10 to 1000 minutes

1 to 100 seconds .1 to 10 hours

10 to 1000 seconds 1 to 100 hours

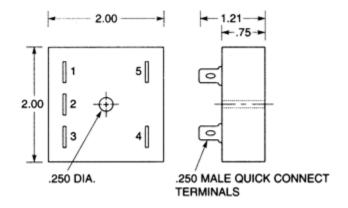
.1 to 10 minutes

Timing tolerance: fixed units +/- 10%

Timing repeatability: 2%

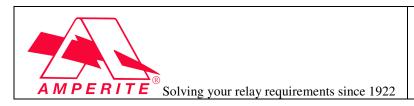
Timing cycle interrupt transfer: none

#### **Outline Dimensions:**



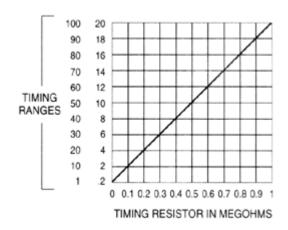
## AC (60 Hz) and DC Input Voltages & Limits

Nominal	Minimum	Maximum
12V	10V	14V
24V	20V	28V
48V	41V	55V

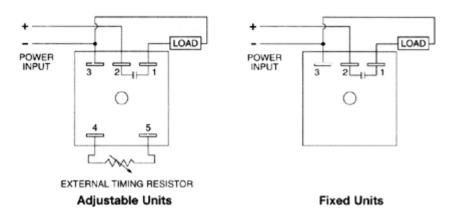


110V	95V	125V
120V	105V	130V
230V	190V	255V

#### **External Resistor Selection:**



# **Wiring Diagrams:**



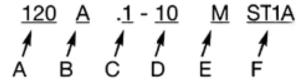
## **Mechanical Information:**

Enclosure  $2 \times 2 \times 3/4$  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:



**A:** Denotes nominal input voltage. Voltages available: 12V, 24V, 120V & 230V AC; 12V, 24V, 48V & 110V DC. **Custom voltages are available**.

**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.

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