



# SST series

## Industrial Grade Discrete Plug-in Time Delay Relay

- On-Delay, Off-Delay, Interval, One Shot & Repeat modes
- Time delays to 120 min.
- Fast setting with time calibrated knobs.
- Superior transient protection.
- Rugged construction with 8- or 11-pin plug.
- Flame retardant housing.

File E15631

File LR33434

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

### Timing Modes

On-Delay, Off-Delay, Interval, One Shot (Latching Interval) or Repeat Cycle.

### Timing Specifications

**Timing Ranges:** Nine ranges spanning 0.1 sec. to 120 min.

**Timing Adjustment:** Knob adjust.

**Accuracy:** Repeat Accuracy:  $\pm 1\%$ .

Overall Accuracy:  $\pm 5\%$ .

**Reset Time:** 50 ms., max., (25 ms typ.) for on-delay and interval; 300 ms., max., for off-delay and one shot; 500 ms., max., for repeat type.

**Relay Operate Time:** 50 ms.

**Relay Release Time:** 30 ms.

### Contact Data @ 25°C

**Arrangements:** 2 Form C (DPDT).

**Rating:** 10A @ 120/240VAC, resistive; 1/3 HP @ 120/240VAC, 50/60 Hz.

**Expected Mechanical Life:** 10 million operations.

**Expected Electrical Life:** 500,000 operations, min., at rated resistive load.

### Initial Dielectric Strength

**Between Contacts, Line Inputs and Control Circuits:**

1,500V RMS, minimum, at 60 Hz.

### Input Data @ 25°C

**Voltage:** See Ordering Information section for details.

**Power Requirement:** 3W, max.

**Transient Protection:** Non-repetitive transients of the following magnitudes will not cause spurious operation of affect function and accuracy.

Operating Voltage	<0.1 ms	<1 ms
12 & 24 VAC/VDC	860V	208V*
120 VAC	2,580V	2,150V*

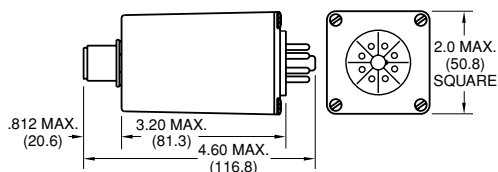
\* Minimum source impedance of 100 ohm.

### Environmental Data

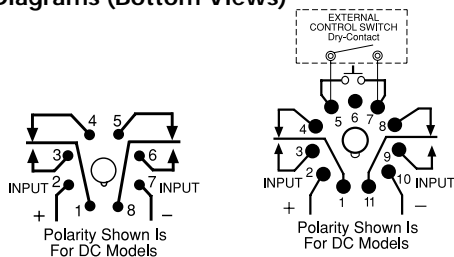
**Temperature Range:** Storage: -23°C to +71°C.

Operating: -23°C to +54°C.

### Outline Dimensions



### Wiring Diagrams (Bottom Views)



Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

### Mechanical Data

**Mounting/Termination:** On-Delay, Interval and Repeat types have 8-pin octal plug that fits either 27E122 or 27E891 socket. Off-Delay and One Shot types have 11-pin octal-type plug that fits 27E123 or 27E892. Sockets must be ordered separately.

**Weight:** 4 oz. (112g) approximately.

### Ordering Information

#### SST1 – On Delay Types

Input	Time Range	Part No.
120 VAC	0.1 - 10 sec.	SST12AAA
	0.6 - 60 sec.	SST12ACA
	1.8 - 180 sec.	SST12ADA
	3 - 300 sec.	SST12AEA
	18 sec. - 30 min.	SST12AGA
	36 sec. - 60 min.	SST12AHA
24 VAC	0.1 - 10 sec.	SST12EAA
	1.8 - 180 sec.	SST12EDA
	3 - 300 sec.	SST12EEA
24 VDC	0.1 - 10 sec.	SST12OAA
	1.8 - 180 sec.	SST12ODA
	3 - 300 sec.	SST12OEA
12 VDC	0.1 - 10 sec.	SST12QAA
	1.8 - 180 sec.	SST12QDA
	3 - 300 sec.	SST12QEA

#### SST2 – Off Delay Types

Input	Time Range	Part No.
120 VDC	0.1 - 10 sec.	SST22AAA
	1.8 - 180 sec.	SST22ADA
	3 - 300 sec.	SST22AEA
	18 sec. - 30 min.	SST22AGA
	36 sec. - 60 min.	SST22AHA
24 VDC	0.1 - 10 sec.	SST22EAA
	1.8 - 180 sec.	SST22EDA
24 VDC	0.1 - 10 sec.	SST22OAA
	1.8 - 180 sec.	SST22ODA
12 VDC	0.1 - 10 sec.	SST22QAA
	1.8 - 180 sec.	SST22QDA

#### SST3 – Interval Types

Input	Time Range	Part No.
120 VAC	0.1 - 10 sec.	SST32AAA
	1.8 - 180 sec.	SST32ADA
	3 - 300 sec.	SST32AEA
	36 sec. - 60 min.	SST32AHA
24 VAC	0.1 - 10 sec.	SST32EAA
	1.8 - 180 sec.	SST32EDA
24 VDC	0.1 - 10 sec.	SST32OAA
	1.8 - 180 sec.	SST32ODA
12 VDC	0.1 - 10 sec.	SST32QAA
	1.8 - 180 sec.	SST32QDA

#### SST4 – One Shot\* Types

Input	Time Range	Part No.
120 VDC	0.1 - 10 sec.	SST42AAA
	1.8 - 180 sec.	SST42ADA
	3 - 300 sec.	SST42AEA
	18 sec. - 30 min.	SST42AGA
	36 sec. - 60 min.	SST42AHA
24 VDC	0.1 - 10 sec.	SST42EAA
	1.8 - 180 sec.	SST42EDA
24 VDC	0.1 - 10 sec.	SST42OAA
	1.8 - 180 sec.	SST42ODA
12 VDC	0.1 - 10 sec.	SST42QAA
	1.8 - 180 sec.	SST42QDA

\* Also known as Latching Interval

#### SST7 – Repeat Cycle Types

Input	Time Range	Part No.
120 VDC	0.1 - 10 sec.	SST72AAA
	1.8 - 180 sec.	SST72ADA
	3 - 300 sec.	SST72AEA
	18 sec. - 30 min.	SST72AGA
	36 sec. - 60 min.	SST72AHA
24 VDC	0.1 - 10 sec.	SST72EAA
	1.8 - 180 sec.	SST72EDA
24 VDC	0.1 - 10 sec.	SST72OAA
	1.8 - 180 sec.	SST72ODA
12 VDC	0.1 - 10 sec.	SST72QAA
	1.8 - 180 sec.	SST72QDA

### Authorized distributors are likely to stock the following:

None at present.

Specifications and availability subject to change.

www.tycoelectronics.com  
Technical support:  
Refer to inside back cover.