



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*

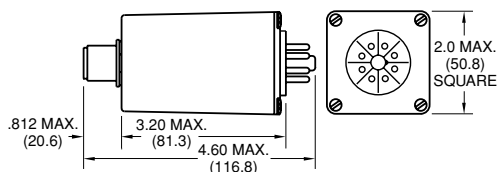
* Minimum source impedance of 100 ohm.

Environmental Data

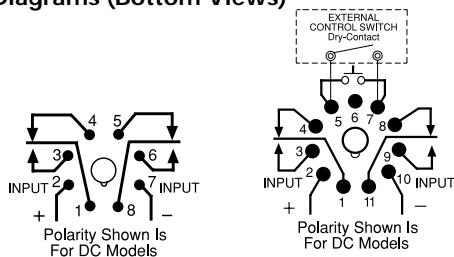
Temperature Range: Storage: -23°C to +71°C.

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.