

**Transient Voltage
Surge Suppressors By:**

Series ST-FSPT



Made in the USA



"Power Quality is Our Business"

Series Wired AC Unit with Discrete All-Mode Protection

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The SineTamer ST-FSPT devices provide the best transient protection available for a device of its type. These devices are intended for single 120 or 240 VAC or 24 VDC circuit applications at locations feeding sensitive/critical equipment. It is extremely effective in limiting transients generated inside the facility and is an absolute must on circuits feeding critical microprocessor based equipment. The 120-15 boasts a 20kA per mode peak surge current rating while the 120-30 and 240-15 and 240-30 units have a robust 40kA per mode rating.

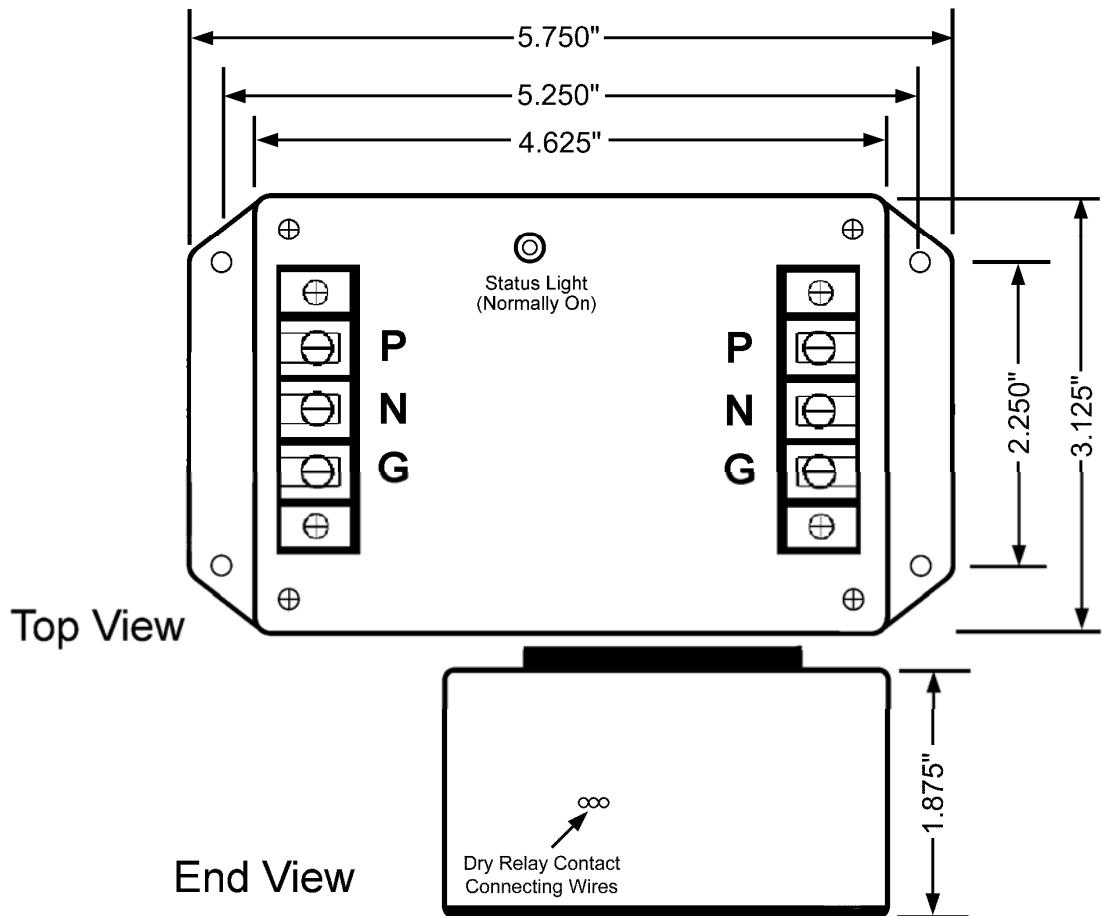
This economical device can be used inside an existing cabinet or other suitable enclosure as it is UL Listed as a recognized component and requires no special enclosure when used inside an existing enclosure or cabinet. Its compact size makes installation a breeze and the warranty is the best in the industry. Add to all that, completely encapsulated Optimal Response Network™ circuitry, and you get a device that defines effective and reliable surge suppression.

We believe that we offer the most versatile TVSS devices on the market with performance specs that are superior to our competitors and a warranty that is second to none.

GENERAL	
Description:	Series wired, parallel connected transient voltage surge suppressor with encapsulated Optimal Response Network™ circuitry (20kA or 40kA per mode peak surge current).
Application:	Designed for use at ANSI/IEEE Category A with susceptibility up to medium exposure levels to protect sensitive/critical loads fed by a single 120VAC circuit.
Warranty:	25 Years Unlimited Free Replacement
Unit Listings:	CSA/UL 1449 Third Edition Recognized Component
MECHANICAL	
Enclosure:	Plastic, UL 94V
Mounting:	External mounting feet.
Connection Method:	3-Lug screw terminal strip at both the input and output sides of the device.
Shipping Weight:	.2lbs
ELECTRICAL	
Circuit Design:	Series wired, parallel connected hybrid design incorporating discrete all mode protection and utilizing our encapsulated Optimal Response Network™ design to provide lowest possible let-through-voltages. All suppression circuits are completely encapsulated in our exclusive compound to assure long component life and complete protection from the environment and/or vibration.
Protection Modes:	Dedicated protection components and circuitry for each mode. Discrete L-N (Normal Mode), and Discrete L-G, N-G (Common Mode)
Input Power Frequency:	50-60Hz
Maximum Continuous Operating Current:	15 Amps AC (30 Amp models available)
Response Time:	<1 nanosecond
Circuit Diagnostics:	Super Bright LED, normally on.
Remote Lights Option:	Separate module with Super Bright LED for remote function indication. To exercise this option, add the suffix "R" to the model number. (Example ST-SPT120-15R)
Circuit Interrupt:	External (see installation instructions for details).
Remote Alarm Option:	Dry Relay Contacts, 125Vrms, 0.5 amps; 30VDC, 1.0 amps – N/O, N/C. These contacts are for use in conjunction with external status monitoring devices and are connected via the 18ga wires provided. To exercise this option, add the suffix "C" to the model number. (Example ST-SPT120-15C)

Because we are constantly seeking to improve our products, specifications are subject to change at any time.

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MEASURED LIMITING VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS			
Model	MCOV	Mode	*ANSI/IEEE C62.41-1991 Measured Limiting Voltage Test Categories
			B3/C1 Impulse Wave 6,000V, 3,000A 90° Phase Angle
S-FSPT120-15 20kA per mode	150 L-N 150 L-G 150 N-G	L-N L-G N-G	281V (D) 360V (D) 550V (S)
S-FSPT120-30 40kA per mode	150 L-N 150 L-G 150 N-G	L-N L-G N-G	289V (D) 380V (D) 550V (S)
S-FSPT240-15 40kA per mode	300 L-N 300 L-G 300 N-G	L-N L-G N-G	<600V (D) <600V (D) <600V (S)
S-FSPT240-30 40kA per mode	300 L-N 300 L-G 300 N-G	L-N L-G N-G	<600V (D) <600V (D) <600V (S)
ST-FSPT24DC-15 20kA per mode	33 P-N 33 P-G 33 N-G	P-N P-G N-G	< 43V (S) < 48V (S) < 48V (S)

***Measured Limiting Voltage (Let-Through) Test Environment:** Dynamic (D) or Static (S), positive polarity. All voltages are peak ($\pm 10\%$). Time Base is 1ms. 180° phase angle voltages are measured from the zero crossing, 90° phase angle voltages are measured from the positive peak of the sine wave to the positive peak of the surge indicating actual excess voltage let through. All tests were performed with the device connected in series simulating actual installation.