

Transient Voltage
Surge Suppressors By:



Cod: IN-10102914
ST-SVSWxxxDC3-P

Series Wired DC Unit with Frequency Responsive Circuitry and Discrete All-Mode Protection



"Power Quality is Our Only Business"

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The Series ST-SVSWxxxDC3-P device provides the best transient protection available for a device of its type. These devices are intended for single 125 or 250 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. It boasts a robust 50 kA per mode peak surge current rating.

This economical device is unique in that it is designed as a stand-alone surge protective device 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, a component-level Thermal Disconnect and Frequency Responsive Circuitry, you get a device that defines effective and reliable surge suppression.

We believe that we offer the most versatile SPDs 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 a Component-Level Thermal Disconnect (50 kA per mode / 150 kA total peak surge current) and Frequency Responsive Circuitry (Sinewave Tracking) for virtual elimination of ring wave type transients
Application:	Designed for use at ANSI/IEEE Categories A, B, and C with susceptibility up to medium exposure levels to protect sensitive/critical loads fed by a single 150 VDC circuit.
Warranty:	25 Years Unlimited Free Replacement

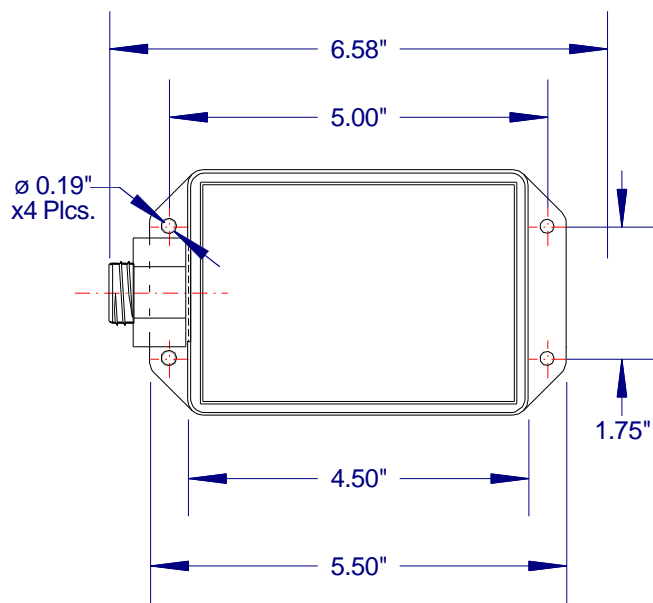
MECHANICAL	
Enclosure:	Plastic, UL 94 5VA Standard / NEMA 4X Composite Fiberglass (WX option) enclosure optional
Mounting:	External mounting feet.
Connection Method:	Wires
Shipping Weight:	< 6 lbs

ELECTRICAL	
Circuit Design:	Parallel configured Frequency Attenuation Network™ and Optimal Response Circuitry™ circuit design incorporating component-level, thermal disconnectors.
Protection Modes:	Dedicated protection components and circuitry for each mode. Discrete P-N (Normal Mode), and Discrete P-G, N-G (Common Mode)
Input Power Frequency:	50-60 Hz
Maximum Continuous Operating Current:	Parallel connection – up to 100 amps
Circuit Diagnostics:	Green LED, normally on.
Circuit Interrupt:	External (see installation instructions for details).

MEASURED LIMITING VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS

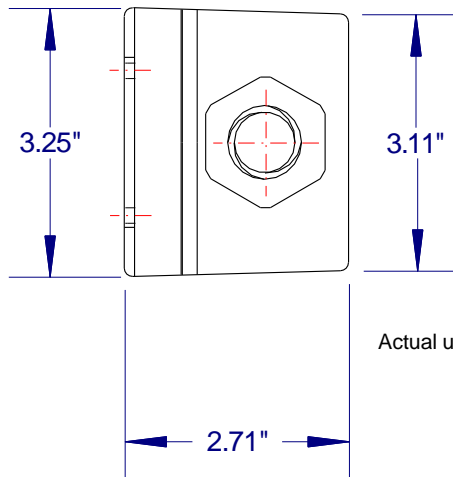
Model	MCOV	Mode	ANSI/IEEE C62.41.1 TM -2002, C62.41.2 TM -2002, C62.45 TM -2002, and C62.62 TM -2010 Measured Limiting Voltages (tested with 6 inches of lead length external to the enclosure per Clauses 6.1.1 of C62.62 TM -2010 and 37.4.4 of ANSI/UL 1449-2006)	
			Cat A 30 Ω 100 kHz Ring Wave 6 kV 200 A	Cat B, 2 Ω Impulse Wave 6 kV / 3
ST-SVSW125DC3-P	200	P-N	27	565
	200	P-G	27	565
	200	N-G	27	565
ST-SVSW250DC3-P	420	P-N	27	917
	420	P-G	27	917
	420	N-G	27	917

Measured Limiting Voltage (MLV) Test Parameters: Positive polarity, Category A: Line power applied, Category C: Line power applied, Voltages are peak (±10%). Measured Limiting Voltages are measured from the insertion point on the sine wave to the peak of the surge for powered tests. Each phase is the average of the modes within that mode of protection. In order to duplicate the results, the specified mode of protection must be tested in all modes (except N-G) and averaged together. (Individual mode or shot results may vary by more than 10%. *Scope Settings: Time Base = 10 microseconds per division, Sampling Rate = 2.5 GigaSamples/sec, Bandwidth = 400 MHz (200 MHz for Cat C), Probes: Tektronix P5100/P6015A. These settings help to assure MLV results are accurate.* **All tests performed with 6" lead length (external to the enclosure), simulating actual installed performance.** The MLVs reported above are certified by Third-Party, Independent Testing. Individual test reports are available upon request.



Options (Suffix)

Designator	Feature:
EAC	External Audible Alarm Module
C	Dry Relay Contacts
LP	Remotely mounted NEMA-4X LED(s)
N	No Neutral-to-Ground Sinewave Tracking Filter
Special Options	
DIN	DIN rail mounting
RJnn	Modular ISDN Grade Telecom Circuit Protection (nn = 11, 14, 45, etc.)
P	Parallel connected (The P suffix replaces the amperage)
WX	NEMA 4X housing with clear lid.
WX1	NEMA 4X Composite Box in Box design with opaque lid.
Special lead lengths are available upon request (Ex.: -48IN = 48" leads)	



Actual unit may vary from picture.



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

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