Dedicated Protection Components And Circuitry For Each Mode





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"Power Quality is Our Business"

The SineTamer® LA series of units blends outstanding high-energy "impulse" suppression with unsurpassed "ringwave" transient protection - Frequency Attenuation Network®. This durable device is intended for general purpose and sensitive/critical load applications for panels up to 1000 amps. Compact size and non-metallic enclosure design also allow it to be installed directly inside electrical panels and individual equipment disconnects. The internal installation provides the absolute shortest possible lead length and optimum performance. The LA-ST120 is extremely effective in limiting internally generated transients and is an absolute must on panels feeding office locations and/or microprocessor based equipment.

This economical device has features that are not available in devices costing many times its price. Its compact size makes installation a breeze. **Maintenance Free** operation and **20 Year Unlimited Free Replacement Warranty** provide peace of mind.

Standard unit is Type 2 10kA UL Nominal Discharge Current; Optional Type 2 20kA I_N is available.

GEN	ERAL
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Description: Parallel connected, transient voltage surge suppressor device utilizing both high-energy

handling and Frequency Attenuation Network® circuitry for virtual elimination of ring wave

type transients. Rated peak surge current of 40 ka per mode / 120 ka per phase.

Application: Designed for use at ANSI/IEEE Categories C, B and A with susceptibility up to medium

exposure levels. Designed to protect sensitive/critical loads fed from distribution panels.

Warranty: 20 Years Unlimited Free Replacement

Product Qualifications: ANSI/UL 1449 Fourth Edition by CSA (MC# 259700) & UL - (ML#: E363345); UL1283* and

CE Compliant (*Type 2 SPDs only) ISO 9001:2000, ANSI C62.72-2007, IEC 61643-1 Class

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MECHANICAL

Enclosure: High strength ABS Plastic, NEMA 1 rated enclosure

Mounting: 1" conduit fitting (internally threaded) and external mounting feet.

Connection Method: #10 stranded wire.

Shipping Weight: ≈ 6lbs

ELECTRICAL

Circuit Design: Parallel connected, internally fused, hybrid design incorporating discrete all mode protection

(10 modes for 3 phase wye units*) and utilizing our encapsulated design to provide improved durability. All suppression circuits are 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, L-L (Normal

Mode), and Discrete L-G, N-G (Common Mode). 10 modes / 3 phase wye system.

Input Power Frequency: 50-420Hz constant (60Hz typical) **EMI/RFI Noise Attenuation:** 30dB Max. from 1kHz to 10MHz

Circuit Diagnostics: Super Bright LED, 1 per phase, normally on.

Circuit Interrupt:External and internal (see installation instructions for details).Fusing:Component Level Thermal and Board Level Current FusingkAIC Rating:200 kAIC when installed according to installation instructions

Options: -V Remove Frequency Attenuation; -S Surge Counter; -C Dry Relay Contacts, -X2 Nema 4

Rating, Other options available. Call!





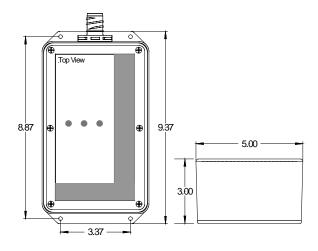












MEASURED LIMITING VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS									
	Circuit Type	MCOV	Peak Surge Current (Amps) Per Mode	Mode	ANSI/IEEE C62.41 & C62.45 Let-Through Voltage Test Results				
Model					A1 2kV, 67A 100KHz Ring Wave 270° Phase Angle	Cat B3/C1 (6 kV, 3 kA) 90° Phase Angle	C3 20kV, 10kA Impulse Wave 90° Phase Angle		
LA-ST1201P1	120V, Single Ø (2 wire + ground)	150 L-N 150 L-G 150 N-G	40,000 L-N 40,000 L-G 40,000 N-G 120,000 Total	L-N L-G N-G	35 60 55	377 380 541	914 1025 1176		
LA-ST1201S1	120/240V, Split Ø (3 wire + ground)	300 L-L 150 L-N 150 L-G 150 N-G	40,000 L-L 40,000 L-N 40,000 L-G 40,000 N-G 240,000 Total	L-L L-N L-G N-G	75 35 60 55	576 377 380 541	1119 914 1025 1176		
LA-ST1203Y1	120/208V, 3ØY (4 wire + ground)	300 L-L 150 L-N 150 L-G 150 N-G	40,000 L-L 40,000 L-N 40,000 L-G 40,000 N-G 400,000 Total	L-L L-N L-G N-G	55 35 60 55	576 377 380 541	1119 914 1025 1176		
LA-ST1201P2	240V, Single Ø (2 wire + ground)	320 L-N 320 L-G 320 N-G	40,000 L-N 40,000 L-G 40,000 N-G 120,000 Total	L-N L-G N-G	60 80 55	560 588 941	1050 1262 1575		
LA-ST1203Y2	220/380V, 3ØY 277/480V, 3ØY (4 wire + ground)	550 L-L 320 L-N 320 L-G 320 N-G	40,000 L-L 40,000 L-N 40,000 L-G 40,000 N-G 400,000 Total	L-L L-N L-G N-G	130 60 80 55	805 560 588 941	1344 1050 1262 1575		
LA-ST1203N2	240V, 3Ø∆ (3 wire + ground)	320 L-L 320 L-G	40,000 L-L 40,000 L-G 240,000 Total	L-L L-G	95	576 497	1262 1262		
LA-ST1203N4	380V, 3Ø∆ 480V, 3Ø∆ (3 wire + ground)	550 L-L 550 L-G	40,000 L-L 40,000 L-G 240,000 Total	L-L L-G	140	792 792	1344 1344		

Let-Through Voltage Test Environment: Positive Polarity. Time base=1ms. All voltages are peak (±10%). Surge voltages are measured from the insertion point of surge on the sine wave to the peak of the surge. All tests are Dynamic (voltage applied) except N-G which is static (no voltage applied). All tests were performed with 6 inches of lead length outside the device enclosure which simulates actual "as installed" performance.

Single-pulse, surge current capacities of 200,000 amps or less are determined by single-unit testing of all components within each mode. Present industry test equipment limitations require testing of individual components or sub-assemblies within a mode for single-pulse, surge current capacities over 200,000 amps.