Oransient Voltage Surge Suppressors By:

AC Distribution Panel Unit

Model RM-ST80





"Power Quality is our Only Business"

5500 E. Loop 820 #205 Ft. Worth. TX 76119 Phone: 817.483.8497 Fax: 817.572.2242 www.sinetamer.com

The RM-ST80 series of units blends outstanding high-energy "impulse" suppression with excellent "ring-wave" transient protection utilizing our Frequency Attenuation Network®. This durable device is intended for general purpose and sensitive/critical load applications. The RM-ST80 is typically installed at small service entrances up to 800 amps, distribution and sub-distribution panels. The circuit design of the RM series does not shunt transients to ground, but utilizes discrete mode circuitry to create a near equipotential bond amongst all conductors to dissipate surge energy. The units are all bi-directional enabling them to suppress any surges from ground between any connected phases.

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 10 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

GENERAL

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

handling and Frequency Attenuation Network® circuitry for virtual elimination of impulse

and ring wave type transients. (tracking and monitoring the AC sine wave)

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

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

branch panels and/or individual equipment panels.

10 Years Unlimited Free Replacement Warrantv:

Listed to ANSI/UL 1449 Fourth Edition by UL. ML record: E363345; CSA file: 259700, UL1283* **Product Qualifications:**

and CE Compliant, (* Type 2 SPDs only) ISO 9001:2008, ANSI C62.72-2007.

MECHANICAL

Enclosure: High strength ABS Plastic, IP 60, NEMA 1 rated enclosure.

3/4" conduit fitting (internally threaded) and external mounting feet. Mounting:

Connection Method: #10 stranded wire.

Shipping Weight: ≈6lbs

ELECTRICAL

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

our encapsulated design to provide improved durability.

L-N, L-L (Normal Mode), and L-G, N-G (Common Mode). (Seven discrete modes) **Protection Modes:**

50-60Hz constant (400hz w -V option) **Input Power Frequency:** 30dB Max. from 1kHz to 10MHz

EMI/RFI Noise

Attenuation:

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 Fusing kAIC Rating: 200 kAIC when installed according to installation instructions Operating Temp/RH Up to 80° C, 0 – 99% Relative Humidity Non-Condensing

Carrier Frequency Not Applicable - Capacitance per mode < 20 nF

-V Remove Frequency Attenuation; -N Remove N-G attenuation filter; -S6 Surge Counter; -C Options:

Dry Relay Contacts, -C1 Dry Relay Contacts with wires. AC11S6 - audible alarm with Surge

Counter -X3 Nema 4 enclosure. Other options available. Call!



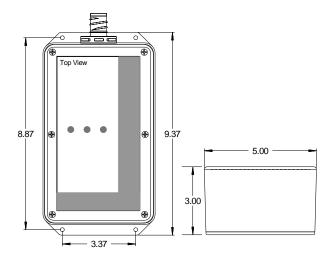












MEASURED LIMITING VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS							
Model	Circuit Type	MCOV	Peak Surge Current (Amps) Per Mode/Phase	Mode	ANSI/IEEE C62.41 & C62.45 Let-Through Voltage Test Results		
					A1 2kV, 67A 100KHz Ring Wave 270° Phase Angle	Cat B3/C1 (6 kV, 3 kA) 90° Phase Angle	C3 20kV, 10kA Impulse Wave 90° Phase Angle
RM -ST803N2	240V, 3Ø∆ (3 wire + ground)	320 L-L 320 L-G	40,000 / 80,000	L-L L-G	96	636 638	1275 1275
RM -ST803N4	380V, 3Ø∆ 480V, 3Ø∆ (3 wire + ground)	550 L-L 550 L-G	40,000 / 80,000	L-L L-G	140	792 792	1375 1375

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.