SRMx14 Series

140 kA Per Phase
Peak Surge Current
ANSI/UL1449 UL
A = Type 2 SPD 10 kA
B = Type 2 SPD 20 kA
C = Type 1 SPD 10 kA
D = Type 1 SPD 20 kA

Designed for mission critical applications, the SRM series is an ideal choice for most small electrical panel applications. The SRM series of Surge Protective Devices provide the features, performance and value required by discriminating specifying engineers. This device is intended for protection of general-purpose load applications ranging from individual equipment disconnects and sub panels to distribution panels and service entrance locations. It is extremely effective in limiting externally generated lightning surges as well as internally generated transients.

The SRM series provides an effective blend of leading edge suppression design technology, straight forward, no frills engineering and customer driven, value added options. "Specify" the SRM with confidence.

Key Features:

- **Industry Leading Measured Limiting Voltage Performance**
- **Independent Verification of Performance and Safety**
- **Component-Level, Thermal Fusing and Over-Current Fusing**
- **No moving parts or springs - No mechanical or electro-mechanical thermal/over-current protection**
- **Circuit Encapsulation**
- **10 Year Warranty**

Description:	Parallel connected, AC power Surge Protective Device.
Application:	Designed for use at ANSI/IEEE location categories C, B and A. Designed to protect all types of loads fed from individual disconnects, sub panels, distribution panels and service entrance locations.
Warranty:	***10 Years***
Unit Listings:	*Listed to ANSI/UL 1449 by UL (E315947), CSA (MC#241804); UL1283* (* Type 2 SPDs only)*
Circuit Design:	Parallel connected, hybrid circuit design incorporating both component level thermal fusing and internal over-current fusing. All protection circuits are encapsulated in our high dielectric compound to promote long component life and protection from the weather and vibration.
Directly Connected Protection Modes:	L-N, (Normal Mode), and N-G (Common Mode). (Based on Wye configuration, L-G on Delta configuration.)
Input Frequency:	50-420 Hz (60 Hz typical)
EMI/RFI Filtering:	Up to 41 db normal mode, 39 db common mode
Circuit Diagnostics:	Super Bright LED, 1 per phase, normally on. See pg. 2 for additional diagnostics options
Connection/mounting:	#10 Wire (pre-installed), hub (pre-installed on base models, installed at time of installation on optional enclosures) and integral, multi-point mounting feet.
Circuit Interrupt:	Internal component level thermal fusing and Patented internal over-current fusing rated at 200,000 AIC short-circuit current rating (SCCR = 200 kA)
Nominal Discharge Current (I_n) Rating:	10 kA (SRMC14, SRMA14)20 kA** (SRMB14, SRMD14) (**Complies with the requirements of UL 96A Master Label for Installation Requirements for Lightning Protection Systems)

Voltage Code	ANSI/UL 1449 (Fourth Edition) Voltage Protection Rating (VPR)						
	L-N	HL-N	L-G	HL-G	N-G	L-L	HL-L
1P1	600	-	1200	-	600	-	-
1S1	600	-	1200	-	600	1200	-
3Y1	600	-	1200	-	600	1200	-
3D1	600	900	1200	1500	600	1200	1500
3Y2	900	-	1800	-	900	1800	-
3N2	-	-	1000	-	-	2000	-
3N4	-	-	1800	-	-	4000	-

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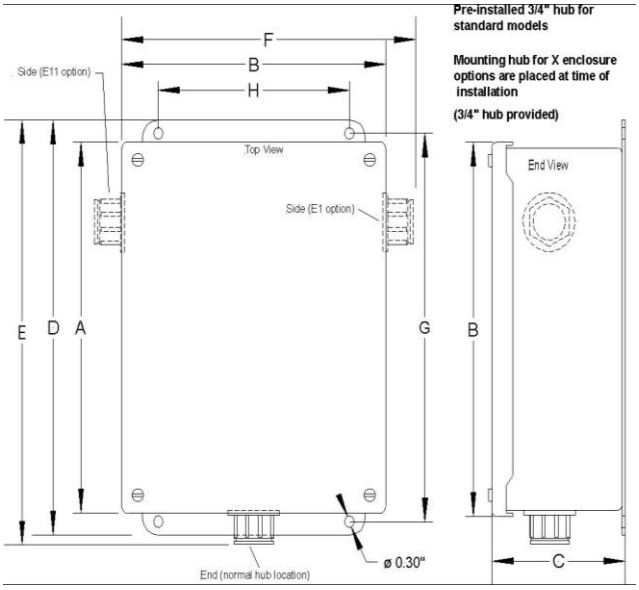
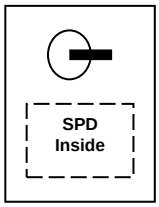
Options	Description
AC10	Basic Internal Audible Alarm
AC11	Advanced Internal Audible Alarm w/ on, off, and test
AC10S6	Basic Alarm/ Surge Counter
AC11S6	Advanced Alarm w/ surge counter on, off, and test
D5 (CSA)	Integral Disconnect Switch **
D6 (CSA)	Integral Disconnect Switch (no external handle) **
E1	Hub on right side of enclosure
E11	Hub on left side of enclosure
-LP	Remote LEDs in liquid tight holders
P	Flush Mount Plate
R2	Remote LED's in separate enclosure
S	Internal Surge Counter
W	NEMA 4 Metal Enclosure
X	NEMA 4X (Box-in-box) with terminals
XS	NEMA 4X Stainless Steel Corrosion Resistant Enclosure
Additional options may be available upon request.	
** Housed in a NEMA 4X Composite Enclosure	



Enclosure Dimensions			
Inches (mm)	Standard Model	Enclosure Options	
		W	X
A	***14.00 (356)***	***14.00 (356)***	***18.00 (458)***
B	***12.00 (305)***	***12.00 (305)***	***16.00 (407)***
C	***6.00 (153)***	***6.00 (153)***	***10.00 (254)***
D	15.50 (394)	15.50 (394)	16.5 (420)
E	15.98 (406)	15.98 (406)	19.98 (508)
F	13.23 (309)	13.23 (309)	17.23 (411)
G	14.75 (375)	14.75 (375)	18.94 (482)
H	10.00 (254)	10.00 (254)	14.00 (356)
Type	**NEMA 12 Steel**	**NEMA 4 Steel**	**NEMA 4X Composite**
lbs. (kg)	14 (6.36)	14 (6.36)	32 (14.52)



Integral Disconnect D5, D6 option configuration (Enclosure 24x20x10) (CSA)

Model Number Example: SRMB143Y2D3

Base Model:	SPD Rating:		PSC	Voltage Code:	Options:
SRM	A = Type 2 SPD 10 kA B = Type 2 SPD 20 kA	C = Type 1 SPD 10 kA D = Type 1 SPD 20 kA	14 (140 kA)	See Voltage Codes 3Y2	See Option codes D3

MEASURED LIMITING VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS

Voltage Code	Circuit Type	Peak Surge Current (Amps) Per Mode & Per Phase	MCOV	Mode	ANSI/IEEE C62.41 & C62.45 6" External Lead Length Let-Through Voltage Test Results	
					A3 **6 kV, 200 A100 kHz Ring Wave** **90º Phase Angle**	**C3** **20 kV, 10 kA Combination Wave** **90º Phase Angle**
1P1	120 V, Single Ø (2 wire + ground)	140,000	150 150	L-N N-G	261 V 491 V	729 V 991 V
1S1	120/240 V, Split Ø (3 wire + ground)	140,000	150 150	L-N N-G	261 V 491 V	729 V 991 V
3Y1	120/208 V, 3ØY (4 wire + ground)	140,000	150 150	L-N N-G	261 V 491 V	729 V 991 V
3D1	120/240 V, 3ØΔ (4 wire + ground)	140,000	150 320 150	L-N HL-N N-G	261 V 392 V 491 V	729 V 1,374 V 991 V
3Y2	277/480 V, 3ØY (4 wire + ground)	140,000	320 320	L-N N-G	392 V 817 V	1,374 V 1,661 V
3N2	240 V, 3∅Δ (3 wire + ground)	140,000	320	L-G	376 V	1,414 V
3N4	480 V, 3∅Δ (3 wire + ground)	140,000	550	L-G	505 V	2,071 V

Measured Limiting Voltage Tests: Positive Polarity, All voltages are peak (±10%). All tests are static except 150V MCOV modes. Let-through voltages on static tests calculated by subtracting sine-wave peak from let-through measured from zero. 150V MCOV mode let-through voltages measured from insertion point on sine-wave. Single-pulse surge current testing for all modes at rated currents as recommended by NEMA LS1-1992. Single pulse surge current capacities of 200,000 amps or less are determined by testing all components within each mode as a group. Present industry test equipment limitations require testing of individual components or sub-assemblies within a mode for single-pulse surge capacities over 200,000 amps. **Scope Settings: Time Base = 10 microseconds, Sampling Rate = 500 megasamples/sec. These settings assure Let-through voltages test results are accurate.**