



CP-RM-ST50 Series - 25 kA/mode

Application: The CP-RM-ST50 Series is a versatile and effective surge protective device (SPD) designed for cost sensitive applications. This SPD is intended for sensitive and critical load applications at small (500 amp) service entrances, branch panels, control panels, and individual equipment disconnects. It is effective at mitigating externally generated high-energy impulses and internally generated transient voltage events.

ANSI/IEEE C62.41.1 & C62.41.2-2002 environments: Suitable for Categories A, B & C

Applicable standards: IEC 61643-11 - type 2, AS/NZS 1768:2007, ANSI/UL 1449 (type 2) and CSA C22.2 NO. 269.2-13

Circuit topology: Parallel configured frequency attenuation and standard threshold clamping circuit design, incorporating individual component safety disconnecting technology

Protection styles: 7-mode device considering a 3-phase WYE power supply, 6-mode device considering a 3-phase DELTA power supply

Input power: 50-60 Hz, nominal

Temperature rating: -40° to 80°C (-40° to 185°F)

Enclosure: NEMA 4X (IP65) standard, polymer

Nominal discharge current (In) rating: 10 kA

Maximum discharge current (Imax): 25 kA/mode, 50 kA/phase

Diagnostics: One green LED per phase = good
N/O or N/C DRC option available

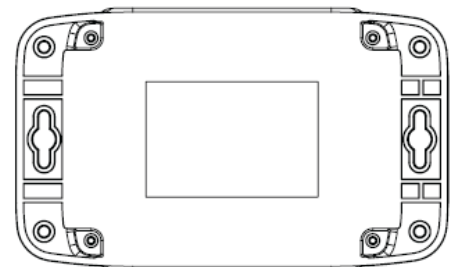
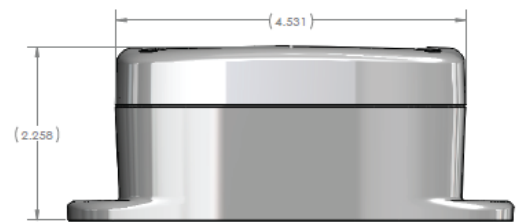
Short circuit current rating: 200 kAIC

Connection: 12 AWG (3.3 mm²) stranded wire, 24" (610 mm)

ANSI/UL 1449 SPD type: Type 2

Conduit fitting: 0.5" fitting for 12" flexible conduit (provided)

Warranty: 20 years





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Voltage code	Circuit type (nominal voltage shown)	Current (Imax) (per mode)	MCOV	ANSI/IEEE C62.41.1™-2002, C62.41.2™-2002, C62.45™-2002, and C62.62™-2010 Measured limiting voltages (tested with 6 inches of lead length external to the enclosure per clauses 6.1.1 of C62.62™-2010 and 37.4.4 of ANSI/UL 1449)		
				Test mode	Cat A, 30 Ω 100 kHz ring wave 2 kV / 67 A @ 180° phase angle	Cat B3/C1 (6 kV, 3 kA) 90° phase angle
1P1	120 V 1φ (2 wire + ground)	25 kA L-N 25 kA L-G 25 kA N-G	150 V 150 V 150 V	L-N L-G N-G	< 35 Vpk < 60 Vpk < 60 Vpk	< 440 Vpk < 570 Vpk < 570 Vpk
1P2	240 V 1φ (2 wire + ground)	25 kA L-N 25 kA L-G 25 kA N-G	320 V 320 V 320 V	L-N L-G N-G	< 48 Vpk < 65 Vpk < 65 Vpk	< 780 Vpk < 850 Vpk < 1050 Vpk
2N2	240 Δ; 1φ Delta (3 wire + ground)	25 kA L-G 25 kA L-L	320 V 320 V	L-G L-L	< 700 Vpk < 60 Vpk	< 960 Vpk < 960 Vpk
1S1	120/240 V 1φ (Split) (3 wire + ground)	25 kA L-N 25 kA L-G 25 kA N-G	150 V 150 V 150 V 150 V	L-N L-G L-L N-G	< 35 Vpk < 60 Vpk < 60 Vpk < 60 Vpk	< 440 Vpk < 570 Vpk < 860 Vpk < 570 Vpk
3Y1	208Y/120 V; 3φ Wye (4 wire + ground)	25 kA L-N 25 kA L-G 25 kA N-G	150 V 150 V 300 V 150 V	L-N L-G L-L N-G	< 35 Vpk < 60 Vpk < 60 Vpk < 60 Vpk	< 440 Vpk < 570 Vpk < 860 Vpk < 570 Vpk
3Y2	277/480V, 3ØY 220/380V, 3ØY (4 wire + ground)	25 kA L-N 25 kA L-G 25 kA N-G	320 V 320 V 550 V 320 V	L-N L-G L-L N-G	< 45 Vpk < 65 Vpk < 65 Vpk < 65 Vpk	< 780 Vpk < 1000 Vpk < 1600 Vpk < 1000 Vpk
3N2	240 Δ; 3φ Delta (3 wire + ground)	25 kA L-G 25 kA N-G	320 V 320 V	L-G L-L	< 1250 Vpk < 60 Vpk	< 960 Vpk < 960 Vpk
3N4	380V, 3ØΔ 480V, 3ØΔ (3 wire + ground)	25 kA L-G 25 kA N-G	550 V 550 V	L-G L-L	< 1335 Vpk < 65 Vpk	< 1270 Vpk < 1390 Vpk

Measured limiting voltage (MLV) test parameters:

Positive polarity, Category A: line power applied, Category B3: no line power applied, voltages are peak ($\pm 10\%$). 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%.

All tests were performed with 6" lead length (external to the enclosure), simulating actual installed performance.



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