

## KEY FEATURES

- LED's constantly monitor performance and protection status of each phase.
- Unique fuse-links maintain safety of high energy, non-degrading surge capacity.
- Designed for easy mounting & installation for 'fast response-time' protection.
- Up to 355,000 solid amps of safe, non-degrading, single-element surge protection!
- Integral grid of primary & secondary levels of non-degrading SPD technology provides long-term 24/7 AC power system integrity.



Listed and Certified  
UL 1449, 4th Edition  
CSA - C22.2 No. 269  
For Type 1 & Type 2 Locations  
All models SCCR - 200kAIC

Safety rated as SPD Type 1 & Type 2 with the TVSS industries highest safety SCCR rating of 200kAIC!

(SE\*) Single Element for each non-degrading surge-path.

Remote Aware (Opt.) provides auto-remote 'Protection Status Alert'.

# SurgePure

The **SurgePure Mach 2 SPD System** features non-degrading, SE\* surge protection for primary service entrances rated up to 250 kW. Mach 2's also are great for protecting downline secondary level sub-panels and equipment.



## MACH 2 DATA SHEET

For IEEE Category B & C Locations,  
Primary Level Service Entrances up to 400 Amps  
Surge Capacity 350,000 Amps

It isolates your sensitive downline equipment from nearby switching motor loads and in-house surges as it provides a seamless grid of pure AC power. SurgePure preserves your assets and maximizes your long-term profits!

Model Number	M2-1120-3	M2-1208-4	M2-1240-3	M2-1240-4	M2-1480-3	M2-1480-4	M2-1600-3	M2-1600-4
AC Service Types	1Ø	3Ø WYE	3Ø Delta	3Ø Hi-Leg	3Ø Delta	3Ø WYE	3Ø Delta	3Ø WYE
Nominal AC Line Voltage (VRMS)	120/240	120/208	240	120/208/240	480	277/480	600	347/600
Frequency Range - USA/Euro Std	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Single Element SE* Protection Modes	L-N, L-L	L-N/L-L&N-G	L-L	L-N/L-L&N-G	L-L	L-N/L-L&N-G	L-L	L-N/L-L&N-G
Leads: 36" #12 AWG Stranded Copper	3+G	4+G	3+G	4+G, Hi-Leg	3+G	4+G	3+G	4+G
VPR Rating UL 1449, 4th Ed L-N/L-L @ 20kA, I <sub>n</sub>	700/1000	700/1000	1000	700/1000/1000	1800	1000/1800	2000	1200/2000
Max SE* Surge Current Per Mode/ Per Ø/kA	50/100	50/145	50/145	50/145	50/145	50/145	50/145	50/145
Total Surge Capacity: (kA @ 8x20 µsec pulse)	165	355	248	355	248	355	248	355
Max Continuous Operating Voltage (MCOV)	150/320	150/320/320	320	150/320/320	550	320/550	680	390/680
Max. Clamping Voltage - L-L	520	520	520	520	1175	1175	1800	1800
Max. Clamping Voltage - L-N	390	390	N/A	390	N/A	675	N/A	1120
Max. Clamping Voltage - N-G	390	390	N/A	390	N/A	390	N/A	1120
Warranty	Manufactures Guarantee - Lifetime Warranty							
Enclosure Size (HxWxD)	6¼" x 4½" x 3¼" (w/¾" mounting knockout size)							
Enclosure Type	Rated 'NEMA 4X' Indoor/Outdoor, Dust, Drip, Hosedown, Corrosion Proof							
Overcurrent Protection	Type 1 & Type 2, no breaker required / for fast easy panel installations, use 20 amp breaker - CODE RULE 26-420 (2)							
Certifications	c-ETL-us Listed and Certified to the latest UL 1449, 4th Edition / CSA C22.2 - no. 269, RoHs Compliant							
Performance & Safety Testing Per	UL Std. & ANSI/IEEE C62.11, C62.41 & C62.45							
Protection Status Indicators	Lifetime Green LED Self Test 'Protection Status Monitors' For Each Phase							
Shipping Weight LBS (Approx.)	5.2	6	6	6	6	6	6.5	6.8



**FOR MORE INFORMATION ON THE SURGEPURE MACH 2 SPD SYSTEM**

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