

## KEY FEATURES

- Safe 240,000 amps of multi-element surge capacity for secondary level protection.
- Unique fuse-links maintain safety of nearby equipment during catastrophic failure.
- Designed for easy mounting and installation for 'close-coupled' surge protection.
- Provides reliable, cost-effective component level isolation as part of protection grid.
- 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!

(ME\*) Multi Element for each surgepath.

Mach 1 Provides reliable secondary level Protection when downline form primary level SurgePure's!

# SurgePure

The Mach 1 SPD System is secondary level of multi-element surge protection to be located at your sub-distribution Panels.



## MACH 1 DATA SHEET

For IEEE Category B Sub-Panels / Secondary Locations Residential, Commercial & Industrial Applications up to 100kW

It isolates your sensitive downline equipment from nearby switching motor loads and in-house surges to compliment your upline grid of non-degrading SurgePure's. It preserves your assets and maximizes your long-term profits!

Model Number	M1-1120-3	M1-1208-4	M1-1240-3	M1-1240-4	M1-1480-3	M1-1480-4
AC Service Types	1Ø	3Ø WYE	3Ø Delta	3Ø Hi-Leg	3Ø Delta	3Ø WYE
Nominal AC Line Voltage (VRMS)	120/240	120/208	240	120/208/240	480	277/480
Frequency Range - USA/Euro Std	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Multi Element ME* 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
Leads: 36" #14 AWG Stranded Copper	3+G	4+G	3+G	4+G, Hi-Leg	3+G	4+G
VPR Rating UL 1449, 4th Ed L-L/L-N @ 20kA, I <sub>n</sub>	900/1800	900/1800	1800	900/1800/1800	2500	1800/2500
Max ME* Surge Current Per Mode/ Per Ø/kA	40/80	40/80	40/80	40/80	40/80	40/80
Total Surge Capacity: (kA @ 8x20 µsec pulse)	120	240	150	240	150	240
Max Continuous Operating Voltage (MCOV)	140/320	140/320	320	140/320/320	550	320/550
Max. Clamping Voltage - L-L	520	520	520	520	1175	1175
Max. Clamping Voltage - L-N	390	390	N/A	390	N/A	390
Max. Clamping Voltage - N-G	390	390	N/A	390	N/A	390
Warranty	Manufactures Guarantee - 10 Year Warranty					
Enclosure Size (HxWxD)	4½" x 4½" x 2¾" (w/¾" mounting knockout size)					
Enclosure Type	Rated 'NEMA 12' Indoor, Dust, Drip, Light Splashing Proof					
Overcurrent Protection	Type 2 only, use 15 amp breaker - CODE RULE 26-420					
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.)	3.2	3.85	3.5	3.85	3.8	4.25



**FOR MORE INFORMATION ON THE SURGEPURE MACH 1 SPD SYSTEM**

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