

## 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.



**Intertek**

Listed and Certified  
UL 1449, 5th 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 from primary level SurgePures!

# 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  
Basic Secondary Level Protection For Panels Up To 200 Amps  
When Downline from Primary Level Protection

It isolates your sensitive downline equipment from nearby switching motor loads and in-house surges to compliment your upline grid of non-degrading SurgePures. 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, N-G	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, 5th Ed L-N/L-L @ 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, 5th 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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