

## KEY FEATURES

- LED's Constantly monitor performance and protection status of each phase.
- Assures Ultra-pure 'Spec-grade' power integrity for mission critical operations.
- Unique fuse-links maintain safety of high energy, non-degrading surge capacity.
- Designed for easy mounting and installation for 'fast response-time' protection.
- Up to 355,000 amps of single-element, non-degrading surge protection!
- Integral grid of primary & secondary levels of non-degrading SPD technology provides long-term 24/7 AC power system integrity.
- Unique Safety "Surge Cushion" technology is Key to Eliminating 'Electrical Pollution'!



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!

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

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

# SurgePure

**The SurgePure Mach 3 SPD System** is designed for your most digitally sensitive equipment featuring our 'Active Sinewave Tracking' (AST) filtering out low-level spike/noise for ultra pure-power. Mach 3 isolates your most sensitive down-line equipment from nearby motor loads and in-house surges.



## MACH 3 DATA SHEET

For IEEE Category B & C Locations

Primary Level Service Entrances up to 400 Amps

Surge Capacity 350,000 Amps

Active Sinewave Tracking (AST) Surge Elimination and Enhanced EMI/RFI Filtering

Mach 3 is geared for mission-critical environments such as computer rooms, jumbo-trons, hospital equipment, MRI's, dentist offices.

*(Mach 3 must be kept at least 50' away from all VFD's)*

Model Number	M3-1120-3	M3-1208-4	M3-1240-4	M3-1480-4
AC Service Types	1Ø	3Ø WYE	3Ø Hi-Leg	3Ø WYE
Nominal AC Line Voltage (VRMS)	120/240	120/208	120/208/240	277/480
Frequency Range - USA/Euro Std	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Single Element SE* Protection Modes	L-N, L-L, N-G	L-N, L-L, N-G	L-N, L-L, N-G	L-N, L-L, N-G
Leads: 36" #12 AWG Stranded Copper	3+G	4+G	4+G, Hi-Leg	4+G
VPR Rating UL 1449, 5th Ed L-N/L-L @ 20kA, I <sub>n</sub>	700/1000	700/1000	700/1000/1000	1000/1800
Max SE* Surge Current Per Mode/ Per Ø/kA	50/100	50/145	50/145	50/145
Total Surge Capacity: (kA @ 8x20 µsec pulse)	165	355	355	355
Max Continuous Operating Voltage (MCOV)	150/320	150/320	150/320/320	320/550
Max. Clamping Voltage - L-L	520	520	520	1175
Max. Clamping Voltage - L-N	390	390	390	675
Max. Clamping Voltage - N-G	390	390	390	390
Warranty	Manufacturers Guarantee - Lifetime Warranty			
Enclosure Size (HxWxD)	8½" x 6½" x 4¼" (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, 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.)	7	7.5	7.5	7.5



**FOR MORE INFORMATION ON THE SURGEPURE MACH 3 SPD SYSTEM**

Web: [www.surgepure.com](http://www.surgepure.com)

Toll Free: 1.877.833.5440

Email: [info@surgepure.com](mailto:info@surgepure.com)

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