

KEY FEATURES

- Your most vital primary level defense against today's rolling blackouts and brownouts!
- Unique 'Dual-Mode' fuse-links maintain safety of non-degrading surge capacity.
- Designed for easy mounting and installation for 'fast response-time' protection.
- Up to one million amps of two-stage, single-element parallel surge protection!
- 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 5 SPD System is primary level, two stage, 'Dual-Mode' surge protection located at your service entrance.



MACH 5 DATA SHEET

For IEEE Category C Locations,
Industrial / Commercial Applications up to 2000kW

From the main distribution panel it isolates your sensitive downline equipment from nearby switching motor loads and in-house surges to provide a complete grid of non-degrading surge protection. SurgePure always preserves your assets and maximizes your long-term reliability and profits!

| Model Number | M5-1120-3 | M5-1208-4 | M5-1240-3 | M5-1240-4 | M5-1480-3 | M5-1480-4 | M5-1600-3 | M5-1600-4 |
|---|---|---------------|-----------|---------------|-----------|---------------|-----------|---------------|
| 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, N-G | 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" #8 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, 5th Ed L-N/L-L @ 20kA, I _n | 700/1000 | 700/1000 | 1000 | 700/1000/1000 | 1500 | 1000/1500 | 1800 | 1200/1800 |
| Max SE* Surge Current Per Mode/ Per Ø/kA | 80/350 | 80/350 | 80/350 | 80/350 | 80/350 | 80/350 | 80/350 | 80/350 |
| Total Surge Capacity: (kA @ 8x20 µsec pulse) | 680 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Max Continuous Operating Voltage (MCOV) | 150/320 | 150/320 | 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 | 390 | 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) | 10½" x 8½" x 6¼" (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 40 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.) | 22 | 24 | 23 | 24 | 25 | 26 | 30 | 30 |



FOR MORE INFORMATION ON THE SURGEPURE MACH 5 SPD SYSTEM

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