

Type 2 Panel Mounted Surge Protective Devices (SPDs) w/Integral Disconnect Switch

52000 Series Service/Branch Panel Protection

The Type 2 Panel Mounted Surge Protective Devices are designed for installation at the service entrance and at branch panels for critical equipment. These panels come equipped with integral disconnect switches replacing the need to go into the breaker panel when replacing a module. They provide dedicated surge protection for each phase to neutral, phase to ground, and neutral to ground in three-phase WYE AC systems.

Features:

- Integral disconnect switch with protective lockout feature allows servicing of the surge panel without having to open the load center being protected
- 7-mode protection (each phase to neutral, each phase to ground, and neutral to ground) for WYE-configured 3-phase AC systems
- User-replaceable plug-in modules eliminate the need to replace the entire surge panel following a damaging surge event
- Highest UL Nominal Discharge Current Rating: 20kA per UL 1449 3rd Edition
- Real-time diagnostics monitor power and suppression status for each phase and provide both LED indicators and audible alarm
- Models available with Surge Counters
- Limited Lifetime Product Warranty
- Free replacement modules*

*Certain restrictions apply



Specifications

| Electrical Specifications | 52120-7MS | 52120-7CS | 52277-7MS | 52277-7CS |
|---|--|-----------|------------------------|-----------|
| Voltage | 120/208VAC 3-phase WYE | | 277/480VAC 3-phase WYE | |
| Frequency | 50/60Hz | | 50/60Hz | |
| Surge Technology | 40mm MOV Design | | 40mm MOV Design | |
| Performance Data | | | | |
| Nominal Discharge Rating (I_n) | 20 kA | | 20 kA | |
| Maximum Continuous Operating Voltage (MCOV) | L-N | 150V | 320V | |
| | L-G | 150V | 320V | |
| | N-G | 150V | 320V | |
| | L-L | 300V | 640V | |
| Voltage Protection Rating (VPR) | L-N | 1000V | 1500V | |
| | L-G | 1200V | 1500V | |
| | N-G | 800V | 1200V | |
| | L-L | 1500V | 2500V | |
| Maximum Surge Current Per Mode | 100kA | | 100kA | |
| Protection Mode | 7 Mode | | | |
| Short Circuit Current Rating (SCCR) | 100kA | | | |
| EMI/RFI Noise Rejection | -20 to -40dB (@ 1.5K-1.2MHz) | | | |
| Diagnostics | Real Time Protection status LEDs & Audible Alarm | | | |
| Remote Monitoring | Dry Contacts-N.O./N.C. Form C Rated at 7Amps @ 240VAC or 30VDC | | | |
| Mechanical Specifications | | | | |
| Connection Type | Parallel-hardwires, feed-through dual wire terminal block: Accepts up to #3 AWG wire | | | |
| Environmental Specifications | | | | |
| Enclosure Type | NEMA 12 Steel Enclosure | | | |
| Operating Temperature | -4°F to 104°F (-20°C to 40°C) | | | |
| Storage Temperature | -4°F to 185°F (-20°C to 85°C) | | | |
| Flammability | Rated V-2 per UL 94 | | | |
| Relative Humidity | 5% to 95% non-condensing | | | |
| Standards & Certifications | | | | |
| UL 1449 3rd Edition | cULus Type 2 | | | |
| Disconnect Switch | UL 508 and CSA C22.2 #14 compliant (E63822) | | | |
| ANSI/IEEE Category A, B & C | C-62.41 & C-62.45 | | | |
| Warranties | | | | |
| Warranty | Limited Lifetime Product Warranty | | | |
| Replacement Module Warranty | Limited Lifetime* | | | |

*Certain restrictions apply

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Ordering Information

| Description | Catalog Number | Replacement Modules |
|--|----------------|-----------------------------|
| 120/208VAC 7-Mode, 3Ø WYE, 4-Wire + Ground | 52120-7MS | (3) 120-7M3, (1) 8120-GN |
| 120/208VAC, 7-Mode, 3Ø WYE, 4-Wire + Ground, Surge Counter | 52120-7CS | (3) 120-7M3, (1) 8120-GN |
| 277/480VAC, 7-Mode, 3 Ø WYE, 4-Wire + Ground | 52277-7MS | (3) 277-7M3, (1) 8320-GN |
| 277/480VAC, 7-Mode, 3 Ø WYE, 4-Wire + Ground, Surge Counter | 52277-7CS | (3) 277-7M3, (1) 8320-GN |

Dimensions

