

PRODUCT INFORMATION

Type SPD Modular Series Thermally Protected Metal Oxide Varistors UL 1449 4th Edition Listed & ANSI/IEEE Category C3 High Exposure Level

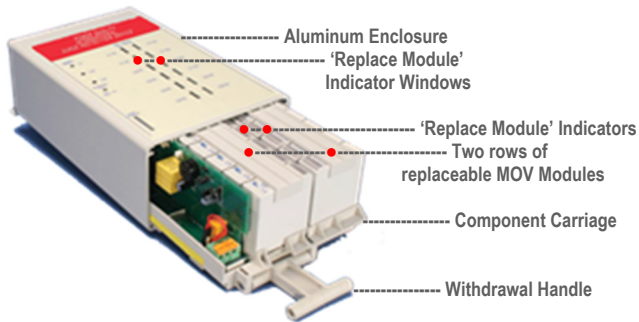
General Product Description

PQI Surge Protection Devices are specifically designed for critical protection applications. They can be installed at the service entrance's main distribution panel (on the line or load side of the main breaker), downstream distribution panels, branch panels or directly at critical loads.

Features

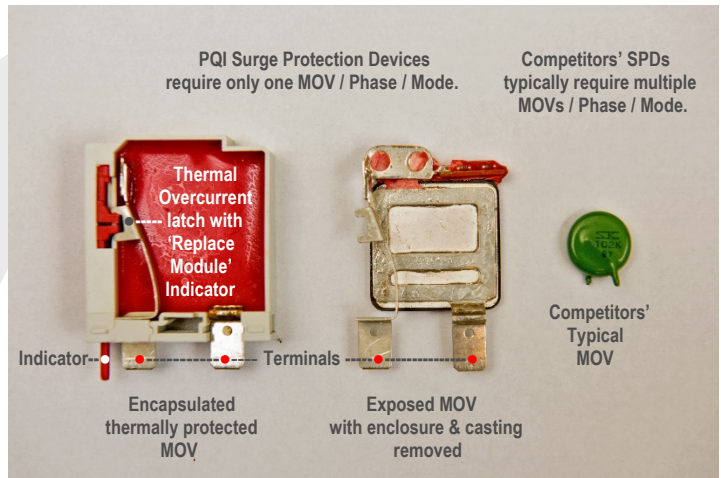
PQI Surge Protection Devices include highly engineered, thermally protected, Metal Oxide Varistors. With reference to *Figure 2*, unlike many competitors' Surge Protection Devices, PQI's modular series devices require only one MOV per Phase per Mode. This design feature eliminates the need to match the operating characteristics of multiple low capacity, parallel connected MOVs for each Mode (a difficult, if not impossible task).

All Modular Series MOVs include internal overcurrent disconnecting latches with 'Replace Module' indicators, as shown in *Figure 1*. The MOV modules, when withdrawn from their enclosure, are electrically disconnected, allowing for easy replacement by facility staff.



Type SPD-M200 Modular Series Device
Figure 1

Featuring *Ultra 2X* technology, this device has been specifically designed to exceed the safety requirements of the abnormal overvoltage testing of UL 1449 Edition 4. Many Surge Protection Devices permanently disconnect all protection from the circuit during an overvoltage event. *Ultra 2X* technology will allow the Surge Protection Device to experience an abnormal overvoltage, up to twice its nominal operating voltage, and still remain operational



Metal Oxide Varistors
Figure 2

during and after the event. *Ultra 2X* technology allows the Surge Protection Device to provide reliable and continuous protection for sensitive electronic equipment. *Ultra 2X* technology is recommended for sites where sustained overvoltages are known to occur and where failure of traditional Surge Protection Device technologies cannot be tolerated.

Product Specification

| | |
|--|---|
| Safety Listings: | UL 1449, 4th Edition |
| UL 1449 - Ed. 4 Location Rating: | Type 1 & Type 2 |
| IEEE C62.41 Location Rating: | Category C3 - High & Category B3 - Medium |
| Nominal Discharge Current Rating: | 20kA (In) |
| Maximum Surge Current Rating: | 200kA per mode; 400kA per phase |
| Fault Current (SCCR): | 200kAIC |
| Maximum Continuous Operating Voltage (MCOV): | Meets UL1449 Minimum Requirement of 115% of Nominal |
| Ultra 2X - TOV Protection: | "Ride-Through" 60Hz TOV Up to 2X Nominal Operating Voltage |
| Product Design: | Modular per mode/phase, thermal protected MOVs |
| Connection Method: | Parallel, supplied with 36" 10AWG leads |
| Recommended Breaker Size: | 30Amp |
| Protective Components: | Thermal MOVs and phase level Fusing |
| Response Time: | < 1 Nanosecond |
| Frequency: | 50/60Hz |
| Status Indicators: | Audible alarm, redundant indication per phase & per mode, remote alarm contacts & surge counter |
| Enclosure Type: | NEMA 4/12, pending UL Type 4 |
| Installation Location: | Indoor or Outdoor |
| Enclosure Material: | Metal (powder coated aluminum) |
| Weight: | 13 lbs. |
| Warranty: | 20 Years |

All Specifications are subject to change without notice.
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