### Benefits:
- SAD/MOV Hybrid
- UL 1449 Fourth Edition Listed
- 250kA – 750kA per phase ratings (125kA-375kA per mode)
- All UL required OCP & Safety Coordination included inside
  - Type 1 SPDs intended for Line or Load Side of Main Disconnect
  - Type 2 SPDs intended for Load Side of Main Disconnect
- 20kA Inominal
- 200kA SCCR
- UL 96A Lightning Protection Master Label compliant
- Redundant Replaceable Module Design
- Optional Rotary Disconnect Switch
- Voltage Specific Design – Highly configurable
- All SAD and MOV suppression elements monitored
- All Modes of Protection
- 10 Year Parts, 5 Year Labor Warranty (longer optional)

### Performance Specifications

<table>
<thead>
<tr>
<th>Surge Capacities</th>
<th>L-N</th>
<th>L-G</th>
<th>N-G</th>
</tr>
</thead>
<tbody>
<tr>
<td>250kA Per Phase (125kA Per Mode)</td>
<td>125kA</td>
<td>125kA</td>
<td>125kA</td>
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<tr>
<td>320kA Per Phase (160kA Per Mode)</td>
<td>160kA</td>
<td>160kA</td>
<td>160kA</td>
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<tr>
<td>400kA Per Phase (200kA Per Mode)</td>
<td>200kA</td>
<td>200kA</td>
<td>200kA</td>
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<tr>
<td>500kA Per Phase (250kA Per Mode)</td>
<td>250kA</td>
<td>250kA</td>
<td>250kA</td>
</tr>
<tr>
<td>750kA Per Phase (375kA Per Mode)</td>
<td>375kA</td>
<td>375kA</td>
<td>375kA</td>
</tr>
</tbody>
</table>

- UL 1449 Fourth Edition Listed Type 1 or Type 2
- UL 1449 Fourth Edition tested Inominal (I): 20kA
- UL 1449 Fourth Edition tested SCCR: 200kA
- UL 1449 Fourth Edition Voltage Protection Ratings (VPRs):
  - 208Y/120V: as low as 700V
  - 480Y/277V: as low as 1000V (data table on back)
- EMI/RFI Filtering Noise Rejection:
  - 63dB Maximum – UL 1449 Type 2 SPD (UL 1283)
  - 25dB Maximum – UL 1449 Type 1 SPD
- Less than 1 nanosecond response time

### Design Attributes

- Designed, Manufactured & Tested consistent with:
  - NEC® Article 285
  - NEC® Articles 620.51(E), 645.18, 670.6, 695.15, 700.8 & 708 requiring SPDs
  - UL 96A and NFPA 780 Lightning Protection

- High Energy Parallel Design for Category C High applications

- For External Mounting on Electrical Distribution Equipment, Switchgear, Switchboards, Motor Control Centers, Panelboards, Transfer Switches, etc.

- Individually Fused & Thermally Protected SADs and MOVs

- Robust 25mm round Phenolic Coated MOV Construction

- Heavy-Duty Axial-leded Silicon Avalanche Diodes (SADs) With Precision Inductive Transitioning Circuitry

- Solid State Bidirectional SADs and MOVs

### Third Party Testing

- Single Impulse Tested - Third Party Verified (former NEMA LS-1 style), To Each Mode’s Rating Up To Surge Generator Limit Of 200kA

- Life Cycle Surge Testing (Repetitive Impulse Testing):
  - 250kA: 15,000 IEEE C High 20kV, 10kA impulses Per Mode
  - 30,000 IEEE C High 20kV, 10kA impulses Per Phase
  - 320kA-500kA: 30,000 IEEE C High 20kV, 10kA impulses Per Mode
  - 60,000 IEEE C High 20kV, 10kA impulses Per Phase
  - 750kA-1000kA: 45,000 IEEE C High 20kV, 10kA impulses Per Mode
  - 90,000 IEEE C High 20kV, 10kA impulses Per Phase

### Diagnostic Monitoring

- 100% monitoring – Every SAD & MOV is monitored, including N-G
- Green LED Status indicator per phase (Redundant LEDs on modules)
- Red LED service indicator
- Built-in Automated Test Function, Audible Alarm with Silence Switch
- Form C Dry Contacts, Two Sets, 250V, 5A
- Optional Surge Counter & Dual Surge Counters; 6 digit, wtest & reset
- Available Active Surge Monitor (ASM), see pub. DS-70137 & SL-70109

### Physical Specifications

- Relative Humidity Range: 0 – 95% non-condensing
- Operating Frequency: 47-63Hz
- Maximum Operating Temperature: 85°C (185°F)
- Standard NEMA 1/12/3R/4 Steel Enclosure

- Size/Weight vary by Surge Capacity & Disconnect Switch:
  - Min: 16” x 12” x 9” (406mm x 305mm x 229mm), 35lbs (16kg)
  - Max: 20” x 20” x 9” (508mm x 508mm x 229mm), 85lbs (39kg)

- Lug size: #14 - #1/0 AWG (Optional Disconnect: #8 - #1/0 AWG)

- Typical connection: #4 AWG and 30-70A circuit breaker
Optiona rotary disconnect switch may increase VPRs.