Features:
- UL 1449 Fourth Edition recognized
- 100kA – 300kA per phase ratings
- Type 1: UL 1449 4th Edition, CSA 22.2 No. 269.1
- 20kA Inominal (I_n)
- 200kA SCCR (most models)
- Complies with UL 96A 12th Edition master label requirements for lightning protection systems
- 100% monitoring – every MOV is monitored, including N-G
- All modes of protection
- Remote display on every MOV is monitored, including N-G
- 10-year limited warranty

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>100kA Per Phase</td>
<td>50kA</td>
<td>50kA</td>
<td>50kA</td>
</tr>
<tr>
<td>200kA Per Phase</td>
<td>100kA</td>
<td>100kA</td>
<td>100kA</td>
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<tr>
<td>300kA Per Phase</td>
<td>150kA</td>
<td>150kA</td>
<td>150kA</td>
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</tbody>
</table>

UL 1449 4th Edition recognized type 1 CA, CSA 22.2 No. 269.4-1
Optional UL 1449 4th Edition type 2 CA, UL 1283 recognized, CSA 22.2 No. 269.4-2
UL 1449 Fourth Edition tested Inominal (I_n): 20kA
UL 1449 Fourth Edition tested SCCR: 200kA and 100kA
UL 1449 Fourth Edition voltage protection ratings (VPRs):
- 208Y/120V: as low as 700V
- 480Y/277V: as low as 1200V
AC sinewave tracking filter with EMI/RFI filtering up to -50dB from 10kHz to 100MHz (Type 2 option only, including UL 1283 recognized)
Repetitive impulse: 5,000 hits
Less than 1 nanosecond response time

Diagnostic Monitoring

100% monitoring – every MOV is monitored, including N-G
Green LED status indicator per phase
Red LED service indicator
Audible alarm with silence switch
Test function: toggles red service LED, audible alarm and dry contact
N-G overvoltage detection
Phase loss monitoring (toggles LED and dry contacts)
Form C dry contacts, 24V, 2A (two sets)
Surge counter, six-digit LCD, with test function, reset and no-maintenance Eprom memory
Remote display on standard 60 in. ribbon cable

Design Attributes

Designed, manufactured and tested consistent with:
- NEC® Article 285
- NEC® Articles 620.51(E), 645.18, 670.6, 695.15, 700.8 and 708 requiring SPDs
- Complies with UL 96A 12th Edition master label requirements for lightning protection systems and NFPA 780 Lightning Protection
- IEC 61643, CE
High energy parallel design for category C-high applications
For mounting internal to switchgear, motor controls centers, panelboards or control panels
Individually fused and thermally protected MOVs
Replaceable module construction
Solid state bidirectional operation

Physical Specifications

Relative humidity range: 0 - 95% non-condensing
Operating frequency: 47 - 63Hz
Operating temperature: -25° C (-13° F) to +60° C (140° F)
Weight: 4.2 lbs (1.9 kg)
Standard size: 6.5" x 11" x 4.5" (16.5cm x 29.9cm x 11.4cm)
Lug size: #2 - #1/0 AWG (with optional disconnect switch: #6 - #1/0)
Typical connection: #6 AWG and 60A breaker

Quality, Standards and Validation

Type 1: UL 1449 4th Edition, CSA 22.2 No. 269.4-1
Type 2 (Opt.): UL 1449 4th Edition, CSA No. 269.2, UL 1283 recognized
UL file: VZCA.E321351 at www.UL.com
RoHS-compliant
Operational test performed before shipment
ISO 9001:2008 quality management system
ISO 17025:2005 laboratory qualification
Model 450 Ordering Options

<table>
<thead>
<tr>
<th>Connection</th>
<th>Monitoring</th>
<th>Surge Current Per Phase</th>
<th>Base Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lugs (#14 – #2)</td>
<td>LEDs, Audible Alarm, Relay, Surge Counter</td>
<td>100kA</td>
<td>450000000P10ACCN00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200kA</td>
<td>450000000P20ACCN00</td>
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<tr>
<td></td>
<td></td>
<td>300kA</td>
<td>450000000P30ACCN00</td>
</tr>
<tr>
<td>Internal Rotary Disconnect Switch</td>
<td>LEDs, Audible Alarm, Relay, Surge Counter</td>
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<td>450000000P10ARCN00</td>
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<tr>
<td></td>
<td></td>
<td>200kA</td>
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<tr>
<td></td>
<td></td>
<td>300kA</td>
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</tr>
</tbody>
</table>

Choose Voltage Code  Indicate UL Type 1 or 2

Dimensions (in. / mm)

Performance Data

Common Power Systems

<table>
<thead>
<tr>
<th>Voltage Protection Ratings (VPR - 3kA)</th>
<th>Ie</th>
<th>SCCR</th>
<th>MCOV</th>
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</thead>
<tbody>
<tr>
<td>L-N</td>
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<td>700</td>
<td>700</td>
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<tr>
<td>L-G</td>
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<tr>
<td>N-G</td>
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<tr>
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<td>700</td>
<td>700</td>
</tr>
</tbody>
</table>

*VPRs with disconnect switch option could vary. Contact the factory for details.

Schneider Electric
14550 58th St. North, Clearwater, FL 33760

schneider-electric.us/surge
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