Type 1 / 2 Surge Protection Device (SPD) for Revised P1 Lighting Panelboards

Features:
- Mounts internal to:
  - Revised P1 Lighting Panelboards
  - Consult factory for field retrofit in Revised P1 Lighting Panelboards
- UL 1449-4 Type 2 SPD, UL 1283 Listed, CSA 22.2 No. 269.2
- Optional UL 1449 4th Edition Recognized Type 1, CSA 22.2 No. 269.1
- Type 1 / Type 2 SPD
- Large block, individually fused, thermally protected, 50 kA MOVs
  - 20 kA
  - 200 kA SCCR (most models)
- Direct bus connected
- Can be wired to a circuit breaker (consult factory at time of order or see installation manual for retrofit)
- UL96A Lightning Protection Master Label compliant
- Designed, manufactured and tested consistent with:
  - NEC Article 285
  - IEC 61643, CE
- All UL required OCP & safety coordination included
- Type 1 SPDs intended for Line or Load side of Main Disconnect
- Type 2 SPDs intended for Load side of Main Disconnect
- 10 year warranty

• SPD Specifications
  - Surge Current Rating Per Phase
    | Per Phase | L-N | L-G | N-G |
    |-----------|-----|-----|-----|
    | 100 kA    | 50 kA | 50 kA | 50 kA |
    | 150 kA    | 100 kA | 50 kA | 50 kA |
    | 200 kA    | 100 kA | 100 kA | 100 kA |
    | 250 kA    | 150 kA | 100 kA | 100 kA |
    | 300 kA    | 150 kA | 150 kA | 150 kA |
  - 100% monitoring (Every MOV is monitored, incl. N-G)
  - EMI/RFI filtering: Active tracking up to -50 db from 10 kHz to 100 MHz (Type 2 option only, includes UL 1283 Listing)
  - Repetitive impulse: 5,000 hits
  - < ½ nanosecond response time
  - Relative humidity range: 1-95% non-condensing
  - Operating frequency: 47-63 Hz
  - Operating temperature: -25°C (-15°F) to +60°C (140°F)

• Applications
  - Provides main service entrance or downstream protection for sensitive computer and electronic loads
  - Std. redundancy use: 100kA/phase
  - Inc. redundancy use: 200kA/phase
  - Max. redundancy use: 300kA/phase

• SPD Monitoring
  - LED indicators
  - Audible alarm with silence switch and test button
  - Dry contacts
  - Surge counter
Example: TPS3C0220X2 = Type 2 SPD (Default) for a 208/120V panelboard with a surge current capacity of 200 kA per phase and a surge counter.

Available Accessories: Ordered Separately

RMSIE - Remote monitor

UL 1449 Fourth Edition - Test Data
Voltage Protection Rating (VPR - 6 kV, 3 kA)

<table>
<thead>
<tr>
<th>Voltage Code</th>
<th>Service Voltage</th>
<th>L-N</th>
<th>L-G</th>
<th>N-G</th>
<th>L-L</th>
<th>I_s</th>
<th>SCCR</th>
<th>MCOV</th>
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<tbody>
<tr>
<td>A</td>
<td>120/240V, 1Ø, 3W (Fig 1)</td>
<td>700</td>
<td>700</td>
<td>700</td>
<td>1200</td>
<td>20 kA</td>
<td>100 kA</td>
<td>150</td>
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<td>B</td>
<td>120/240V, 3Ø, 4W (Fig 3)</td>
<td>700/1200</td>
<td>700/1200</td>
<td>700</td>
<td>1800/1800</td>
<td>20 kA</td>
<td>200 kA</td>
<td>150 / 320</td>
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<td>C</td>
<td>120/208V, 3Ø, 4W (Fig 2)</td>
<td>700</td>
<td>700</td>
<td>700</td>
<td>1200</td>
<td>20 kA</td>
<td>200 kA</td>
<td>150</td>
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<td>D</td>
<td>240V, 3Ø, 3W (Fig 4)</td>
<td>—</td>
<td>1200</td>
<td>—</td>
<td>1200</td>
<td>20 kA</td>
<td>200 kA</td>
<td>150</td>
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<td>E</td>
<td>277/480V, 3Ø, 4W (Fig 2)</td>
<td>1200</td>
<td>1200</td>
<td>1200</td>
<td>2000</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
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<tr>
<td>F</td>
<td>480V, 3Ø, 3W (Fig 4)</td>
<td>—</td>
<td>1800</td>
<td>—</td>
<td>1800</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
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<tr>
<td>G</td>
<td>600V, 3Ø, 3W (Fig 4)</td>
<td>—</td>
<td>2500</td>
<td>—</td>
<td>2500</td>
<td>20 kA</td>
<td>200 kA</td>
<td>690</td>
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<td>K</td>
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<td>1200</td>
<td>2000</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
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<tr>
<td>L</td>
<td>600/347V, 3Ø, 4W (Fig 2)</td>
<td>1500</td>
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<td>1500</td>
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<td>20 kA</td>
<td>200 kA</td>
<td>420</td>
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<td>2000</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
</tr>
</tbody>
</table>

Notes:
- Available 100 kA & 150 kA only

Figure 1
Split
2 Hots, 1 Neu, 1 Gnd

Figure 2
Wye
3 Hots, 1 Neu, 1 Gnd

Figure 3
Hi-Leg Delta (B High)
3 Hots, (B High), 1 Neu, 1 Gnd

Figure 4
Delta & HRG Wye
3 Hots, 1 Gnd

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SURFACE PROTECTIVE DEVICE (SPD) WEIGHS & DIMENSIONS