Type 1 Surge Protective Device (SPD) Mounts External to Electrical Distribution Equipment or Internal to P1, P2 Lighting Panelboards, P3 Power Panelboards and Busway Systems

Features:
- UL 1449 4th Edition Listed Type 1, CSA 22.2 No. 269.1
- Type 1 SPD
- Mounts external to electrical distribution equipment
  - Weatherproof hub included
- Mounts internal to P1 panelboards & busway
  - P1 - Field retrofit or factory install
  - P2 and P3 - Factory install only
  Consult factory for field retrofit
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA I<sub>L</sub>
- 200 kA SCCR (most models)
- 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
- 10 year warranty

- UL96A Lightning Protection Master Label compliant

SPD Specifications
- Surge Current Rating Per Phase
  - Per Phase
  - L-N 100 kA 50 kA 50 kA 50 kA
  - L-G
  - N-G
- 100% monitoring (Every MOV is monitored, incl. N-G)
- Individually fused and thermally protected MOVs
- Solid state bi-directional operation
- Repetitive impulse: 5,000 hits
- <1 nanosecond response time
- Relative humidity range: 0-95% non-condensing
- Operating frequency: 47-63 Hz
- Operating temperature: -40°C (-40°F) to +85°C (185°F)

Standard Configuration
- Standard NEMA 4X polycarbonate enclosure (UL 746C (f1), UL 94-5VA)
- Wire size: Prewired with 3’ (91.4 cm) of #10 AWG
- Standard size: 8.3” x 3.6” x 3.0” (211 mm x 91 mm x 77 mm)
- Standard weight: 3 lb. (1.4 kg)

SPD Monitoring
- LED indicators
- Optional dry contact & audible alarm
### Ordering Information

**TPS3**

- **Voltage Code**: 09
- **Surge Current (kA)**: 10 = 100 kA per phase
- **Options**:
  - 0 = Default
  - E = Extended indicator light
  - I = Internal mounting in P1, P2 panels
  - D = Dry contact & audible alarm
  - 0 = No Dry contact & audible alarm

#### Example: TPS3C0910D00 = Type 1 SPD for a 208/120V panelboard with a surge current capacity of 100 kA per phase with standard NEMA 4X enclosure, dry contacts and audible alarm option.

Available for field retrofit in P1 panels

#### Available Accessories: Ordered Separately
- RMSIE = Remote monitor
- XMFMKIT = Flush mount plate
- TPS9IKITP1 = Mounting bracket for installation in P1 panels
- TPS9IKITP2 = Mounting bracket for installation in P2 panels

(Factory install only)

### UL 1449 Fourth Edition - Test Data

<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</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>600</td>
<td>700</td>
<td>500</td>
<td>1000</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>600/1200</td>
<td>700/1200</td>
<td>500</td>
<td>1000/1000</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>
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<td>200 kA</td>
<td>150</td>
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<td>D</td>
<td>240V, 3Ø, 3W (Fig 4)</td>
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<td>—</td>
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<td>200 kA</td>
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<td>277/480V, 3Ø, 4W (Fig 2)</td>
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<td>1200</td>
<td>1000</td>
<td>1800</td>
<td>20 kA</td>
<td>200 kA</td>
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<td>F</td>
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<td>1800</td>
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<td>200 kA</td>
<td>552</td>
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<td>1800</td>
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<td>320</td>
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</table>

#### Notes:
- Requires TPS9IKITP1 or TPS9IKITP2 mounting bracket accessory, see available Accessories. Prewired cables are extended from 3 feet to 6 feet.

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