**Type 1 / 2 Surge Protection Device ( SPD ) for P1, P2 Lighting Panelboards and P3 Power Distribution Panelboards, Motor Control Centers and Busway Systems**

**Features:**
- Mounts internal to:
  - P1, P2 and P3 panels
  - TIASTAR motor control centers - standard 6” bucket
  - STP series busplug on SX series busway
- Consult factory for field retrofit in P1 panels
- 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 I
- 200 kA SCCR (most models)
- Direct bus connected or can be wired to a circuit breaker (include W option)
- 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
- c½ 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 contacts
Ordering Information

TPS3

Voltage Code

01

Surge Current (kA)

X

Options

2 = Type 2 SPD (Default)

Available Accessories: Ordered Separately

RMSIE - Remote monitor

Example: TPS3C0120X002 = Type 2 SPD (Default) for a 208/120V panelboard with a surge current capacity of 200 kA per phase and a surge counter

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_n</th>
<th>SCCR</th>
<th>MCOV</th>
</tr>
</thead>
<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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<tr>
<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>
</tr>
<tr>
<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>
</tr>
<tr>
<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>
</tr>
<tr>
<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>
</tr>
<tr>
<td>F</td>
<td>480V, 3Ø, 4W (Fig 4)</td>
<td>—</td>
<td>1800</td>
<td>—</td>
<td>1800</td>
<td>20 kA</td>
<td>200 kA</td>
<td>550</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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<tr>
<td>K</td>
<td>380/220V, 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>
</tr>
<tr>
<td>L</td>
<td>400/347V, 3Ø, 4W (Fig 2)</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
<td>2500</td>
<td>20 kA</td>
<td>200 kA</td>
<td>420</td>
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<tr>
<td>S</td>
<td>400/230V, 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>
</tr>
</tbody>
</table>

Notes:

1. Available 100 kA & 150 kA only

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