TPS3 05

Type 1 / 2 Surge Protection Device (SPD) for P4 & P5 Panelboards and Distribution Switchboards

Features:
- Mounts internal to:
  - P4 & P5 panelboards and distribution switchboards
- 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)
- 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
- UL96A Lightning Protection Master Label compliant
- Designed, manufactured and tested consistent with:
  - NEC Article 285
  - IEC 61643, CE
  - 10 year warranty
- Panelboard Features
  - Copper or aluminum bus
  - MB or MLO

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
- Less than 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)

Switchboard Features
- Copper or aluminum bus
- 200% rated neutral bus for harmonic-rich applications
- CSA, UL 891, UL 67 and NEMA PB-2

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
- Internal rotary disconnect switch

USA.SIEMENS.COM/SPD
## Ordering Information

### TPS3

- **Voltage Code**
  - 05

- **Surge Current (kA)**
  - 10 = 100 kA per phase
  - 15 = 150 kA per phase
  - 20 = 200 kA per phase
  - 25 = 250 kA per phase
  - 30 = 300 kA per phase

- **Option**
  - 2 = Type 2 SPD (Default)
  - 0 = Type 1 SPD (Contact factory)

- **Surge Counter**
  - X

### Available Accessories:
- Ordered Separately
- RMSIE - Remote monitor

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**Example: TPS3C0530X2 = Type 2 SPD (Default) for a 208/120V power panel with a surge current capacity of 300 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</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 /1500</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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<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>
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<tr>
<td>D</td>
<td>240V, 3Ø, 3W (Fig 4)</td>
<td>—</td>
<td>1200</td>
<td>—</td>
<td>1500</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
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<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>
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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>552</td>
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<td>G</td>
<td>600V, 3Ø, 3W (Fig 4)</td>
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<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>
<td>380/220V, 3Ø, 4W (Fig 2)</td>
<td>1500</td>
<td>1200</td>
<td>1200</td>
<td>2500</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
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<tr>
<td>L</td>
<td>500/347V, 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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<td>S</td>
<td>400/230V, 3Ø, 4W (Fig 2)</td>
<td>1500</td>
<td>1200</td>
<td>1200</td>
<td>2500</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
</tr>
</tbody>
</table>

Notes:
- Available 100 kA & 150 kA only
TWO POLE

THREE POLE

CUSTOMER CONNECTIONS PER FIGURES AT LEFT
NEMA RATING: 4X 0.25" (4X1.2")
WEIGHT & DIMENSIONS
SURE PROTECTIVE DEVICE SPD

DEVICE WEIGHT: 9.4 LBS (4.2KG)

命名: 4X 0.25" (4X1.2"

重量: 9.4 LBS (4.2KG)

DIMENSIONS:
- 10 x 17 x 6.0

ENCLOSURE SPECS:

CUSTOMER CONNECTION

DISCONNECT

DRY CONTACT

CAUTION

SHOWN WITH COVER AND HINGE