Type 1 Surge Protective Device (SPD) Mounts External to Electrical Distribution Equipment

**Features:**
- UL 1449 4th Edition Listed Type 1, CSA 22.2 No. 269.1
- Type 1 SPD
- Mounts external to electrical distribution equipment
  - Recommended for Line Side or Load Side Applications
- Bracket included for multiple mounting options
- Large-block 34 mm square MOVs
  - 20 kA I
  - 200 kA SCCR (most models)
- All UL required OCP & safety coordination included
  - Type 1 SPDs intended for Line or Load side of Main Disconnect
- UL96A Lightning Protection Master Label compliant
- Designed, manufactured and tested consistent with:
  - NEC Article 285
  - IEC 61643, CE
- 5 year warranty
- SPD Specifications
  - Surge Current Rating Per Phase
    - Per Phase | L-N (L-G: Delta)
    - 50 kA | 50 kA
  - 100% monitoring (Every MOV is monitored)
  - Individually fused and thermally protected MOVs
  - Solid state bi-directional operation
  - Repetitive impulse: 5000 - 3kA - 8 x 20μs; 1000 - 10kA - 8 x 20μs
  - Less than 1 nanosecond response time
  - Relative humidity range: 0-95% non-condensing
  - Operating frequency: 47-63 Hz
  - Peak Operating temperature: +85°C (185°F)
  - Operating temperature: -40°C (-40°F) to +60°C (140°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: 3.25” x 3.25” x 3.3” (82.6 mm x 82.6 mm x 83.8 mm)
  - Standard weight: 2 lb. (0.9 kg)
- SPD Monitoring
- LED indicators
- Options
  - N-G protection
  - Dry Contact & Audible Alarm
    (Dry Contact connection leads exit through nipple via #18 AWG)
Ordering Information

TPS3 03

Voltage Code Surge Current (kA) Options

A = 120/240V, 1Ø, 3W (Fig 1)
B = 120/240V, 3Ø, 4W (Fig 3)
C = 120/208V, 3Ø, 4W (Fig 2)
D = 240V, 3Ø, 3W (Fig 4)
E = 277/480V, 3Ø, 4W (Fig 2)
F = 480V, 3Ø, 3W (Fig 4)
G = 600V, 3Ø, 3W (Fig 4)
K = 380/220V, 3Ø, 4W (Fig 2)
L = 600/347V, 3Ø, 4W (Fig 2)

05 = 50 kA per phase

N = Adds N-G Protection
0 = No N-G Protection (Default)
D = Dry contact & audible alarm (Default)
0 = No Dry contact & audible alarm (Default)

Example: TPS3C0305D0 = Type 1 SPD for a 208/120V application with a surge current capacity of 50 kA per phase, in a standard NEMA 4X enclosure with dry contacts and audible alarm option

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</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>1000*</td>
<td>600*</td>
<td>1000</td>
<td>20 kA</td>
<td>200 kA</td>
<td>150</td>
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<tr>
<td>B</td>
<td>120/240V, 3Ø, 4W (Fig 3)</td>
<td>600/1200</td>
<td>1000/1500*</td>
<td>600*/1000/1500</td>
<td>20 kA</td>
<td>200 kA</td>
<td>150/320</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>120/208V, 3Ø, 4W (Fig 2)</td>
<td>600</td>
<td>1000*</td>
<td>600*</td>
<td>1000</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>1500</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
</tr>
<tr>
<td>E</td>
<td>277/480V, 3Ø, 4W (Fig 2)</td>
<td>1200</td>
<td>1800*</td>
<td>1000*</td>
<td>2000</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
</tr>
<tr>
<td>F</td>
<td>480V, 3Ø, 3W (Fig 4)</td>
<td>—</td>
<td>1800</td>
<td>—</td>
<td>3000</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>1200</td>
<td>—</td>
<td>1500</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>1800*</td>
<td>1000*</td>
<td>2000</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
</tr>
<tr>
<td>L</td>
<td>600/347V, 3Ø, 4W (Fig 2)</td>
<td>1500</td>
<td>2500*</td>
<td>1200*</td>
<td>2500</td>
<td>20 kA</td>
<td>200 kA</td>
<td>420</td>
</tr>
</tbody>
</table>

*with optional N-G protection

Figure 1
Split
2 Hots, 1 Neu, 1 Gmd

Figure 2
Wye
3 Hots, 1 Neu, 1 Gmd

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

Figure 4
Delta & HRG Wye
3 Hots, 1 Gmd

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05.04.18 RevE #9386
**GROUND OR NEUTRAL**

- **Two Pole**
- **Three Pole**

CUSTOMER CONNECTIONS PER FIGURES AT LEFT
Device: Surge Protector

NEMA: 4X

Weights & Dimensions (SPD):
- Type: Surge Protection Device (SPD)
- DIN Rail Attachment
- Wall Mount Attachment
- 3/4" Male NPT Thread
- 0.20
- 0.55

Enclosure Specifications:
- 22.20
- 3.24
- 3.38
- 8.59 [4.12]
- 10.46 [6.00]

Performance:
- DC Model: 2000 V (2.0 kV)
- AC Model: 2500 V (2.5 kV)
- NEMA Rating: 4X

Finish: Gray

Enclosure: Non-Metallic

30-PS3-02-AM