TPS3 L6
True 10 Mode Protection

Type 1 / 2 Surge Protection Device (SPD) for Service Entrance Applications – SB1, SB2, SB3, Type RCS Switchboards, Type WL Low Voltage Switchgear, Motor Control Centers and Busway Systems

Features:
- Mounts internal to:
  - SB1, SB2, SB3 & Type RCS switchboards
  - Type WL low voltage switchgear
  - TIASTAR motor control centers - standard 12” bucket
  - STP series busplug on SX series busway
- UL 1449-4 Type 2 SPD, UL 1283 Listed, CSA 22.2 No. 269.2
- Optional UL 1449 4th Edition Listed Type 1, CSA 22.2 No. 269.1
- Type 1 / Type 2 SPD
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA \( I_i \)
- 200 kA SCCR (most models)
- Rotary disconnect switch included
- 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
- UL96A Lightning Protection Master Label compliant
- 10 year warranty
- SPD Specifications
  - Directly connected discrete protection elements between all possible modes providing true 10 mode protection
  - Surge Current Rating Per Phase
    | Per Phase | L-N | L-G | L-L | N-G |
    |------------|-----|-----|-----|-----|
    | 150 kA     | 50 kA | 50 kA | 50 kA | 50 kA |
    | 300 kA     | 100 kA | 100 kA | 100 kA | 100 kA |
    | 450 kA     | 150 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)

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Example: TPS3CL645X02 = 10 mode Type 2 SPD (Default) for a 208/120V switchboard with a surge current capacity of 450 kA per phase and a surge counter

Available Accessories:
- RMSIE - Remote monitor

Ordering Information

- **TPS3**
- **L6**
- **Options**
- **Voltage Code**
  - A = 120/240V, 1Ø, 3W (Fig 1)
  - B = 120/240V, 3Ø, 4W (Fig 3)
  - C = 120/208V, 3Ø, 4W (Fig 2)
  - E = 277/480V, 3Ø, 4W (Fig 2)
  - K = 380/220V, 3Ø, 4W (Fig 2)
  - S = 400/230V, 3Ø, 4W (Fig 2)
- **Surge Current (kA)**
  - 15 = 150 kA per phase
  - 30 = 300 kA per phase
  - 45 = 450 kA per phase
- **Options**
  - 2 = Type 2 SPD (Default)
  - 0 = Type 1 SPD (Contact factory)
- **X** = Surge counter (Standard)

Example: TPS3CL645X02 = 10 mode Type 2 SPD (Default) for a 208/120V switchboard with a surge current capacity of 450 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>Iₖ</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>1000</td>
<td>20 kA</td>
<td>100 kA</td>
<td>150</td>
</tr>
<tr>
<td>B</td>
<td>120/240V, 3Ø, 4W (Fig 3)</td>
<td>800/1500</td>
<td>700/1200</td>
<td>700</td>
<td>1800/1800</td>
<td>20 kA</td>
<td>200 kA</td>
<td>150/320</td>
</tr>
<tr>
<td>C</td>
<td>120/208V, 3Ø, 4W (Fig 2)</td>
<td>700</td>
<td>700</td>
<td>700</td>
<td>1000</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>1800</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</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>1800</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
</tr>
<tr>
<td>S</td>
<td>400/230V, 3Ø, 4W (Fig 2)</td>
<td>1200</td>
<td>1200</td>
<td>1200</td>
<td>1800</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
</tr>
</tbody>
</table>

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

Notes:
- VPR may increase when disconnect switch is added
- VPR may decrease for 450 kA per phase

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