Type 1 / Type 2
Surge Protective Device (SPD) For Line Side or Load Side Applications

Features:
- 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
- Mounts external to electrical distribution equipment
- Recommended for line side or load side applications
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA I
- 200 kA SCCR (most models)
- Single TPS1 style replaceable modules
- Provides replaceable module protection for low to high exposure applications
- Designed, manufactured and tested consistent with:
  & CSA C22.2 No. 269.1 and .2
  - 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
    - 300 kA 100 kA 100 kA 100 kA
    - 450 kA 150 kA 150 kA 150 kA
  - 100% monitoring (Every MOV is monitored, incl. N-G)
  - Individually fused and thermally protected MOVs
  - Solid state bi-directional operation
  - 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 1 nanosecond response time
  - Relative humidity range: 0 -95% non-condensing
  - Operating frequency: 47-63 Hz
  - Operating temperature: -25°C (-15°F) to +60°C (140°F)
- Standard Configuration
  - Standard NEMA 1/12/3R/04 ANSI 61 steel enclosure
  - Wire size: #8 AWG to 1/0
  - Standard size: 12” x 12” x 7” (305 mm x 305 mm x 178 mm) *
  - Standard weight: 20 lb. (9.07 kg) *
- *Internal disconnect options and other NEMA ratings may increase enclosure size and weight
- SPD Monitoring
  - LED indicators
  - Audible alarm with silence switch and test button
  - Dry contacts
  - Surge counter
- Options
  - Internal rotary disconnect switch
  - Thru-door disconnect switch

usa.siemens.com/spd
TPS3

Ordering Information

Example: TPS3CL12150XD2 = 10 Mode, Type 2 SPD (Default) for a 208/120V application with a surge current capacity of 150kA per phase, in a standard NEMA 1/12/3R/4 enclosure with a surge counter and internal rotary disconnect 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_s</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>
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<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>1200</td>
<td>1800</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>
</tr>
<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>

Notes:
1 For line side mounting in SWBD/SWGR
2 VPR may decrease for 450kA per phase