Type 1 / 2 Surge Protection Device (SPD) for P1, P2 Lighting 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 Iₜₚₚ
- 200 kA SCCR (most models)
- Direct bus connected or can be wired to a circuit breaker (include W option)
- 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:
- Directly connected discrete protection elements between all possible modes providing true 10 mode protection
- Surge Current Rating Per Phase
  - Per Phase
  - L-N
  - 150 kA 50 kA 50 kA 50 kA 50 kA
  - 300 kA 100 kA 100 kA 100 kA 100 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)
• Applications
  • Provides main service entrance or downstream protection for sensitive computer and electronic loads
  • Std. redundancy use: 150kA/phase
  • Max. redundancy use: 300kA/phase

• SPD Monitoring
  • LED indicators
  • Audible alarm with silence switch and test button
  • Dry contacts
  • Surge counter

Ordering Information

TPS3 [ ] L1 [ ] X [ ] 2

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

Options

-2 = Type 2 SPD (Default)
  Includes UL 1283 EMI/RFI Filters
-0 = Type 1 SPD
  (Contact factory)
0 = Standard config.
(B) = Busway application
(X) = Surge counter
(W) = Terminal lug

Available Accessories: Ordered Separately
RMSIE - Remote monitor

Example: TPS3CL1130X002 = 10 Mode Type 2 SPD (Default) for a 208/120V panelboard 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_n</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>700</td>
<td>700</td>
<td>700</td>
<td>1000</td>
<td>20</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</td>
<td>200 kA</td>
<td>150/320</td>
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<tr>
<td>C</td>
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<td>700</td>
<td>1000</td>
<td>20</td>
<td>200 kA</td>
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<td>E</td>
<td>277/480V, 3Ø, 4W (Fig 2)</td>
<td>1200</td>
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<td>1200</td>
<td>1800</td>
<td>20</td>
<td>200 kA</td>
<td>320</td>
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<tr>
<td>K</td>
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<td>1200</td>
<td>1800</td>
<td>20</td>
<td>200 kA</td>
<td>320</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>1800</td>
<td>20</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

Siemens Industry, Inc.
5400 Triangle Parkway
Norcross, GA 30092
888-333-3545
info.us@siemens.com

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