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 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 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
- Surge Current Rating Per Phase
  - L-N: 100 kA, 150 kA, 200 kA, 250 kA, 300 kA, 400 kA, 500 kA
  - L-G: 50 kA, 100 kA, 100 kA, 100 kA, 150 kA, 200 kA, 250 kA
  - N-G: 50 kA, 100 kA, 100 kA, 100 kA, 150 kA, 200 kA, 250 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)

Applications
- Provides main service entrance or downstream protection for sensitive computer and electronic loads
- Std. redundancy use: 300kA/phase
- Inc. redundancy use: 450kA/phase
- Max. redundancy use: 500kA/phase

SPD Monitoring
- LED indicators
- Audible alarm with silence switch and test button
- Dry contacts
- Surge counter
- Rotary disconnect switch
Ordering Information

TPS3 06 X 2

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)
S = 400/230V, 3Ø, 4W (Fig 2)

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
40 = 400 kA per phase
50 = 500 kA per phase

X = Surge counter
(Standard)

-2 = Type 2 SPD (Default)
Includes UL 1283
EMI/RFI Filters
-0 = Type 1 SPD
-B = Standard config. (Default)
M = MCC application

Example: TPS3C0640X002 = Type 2 SPD (Default) for a 208/120V switchboard with a surge current capacity of 400 kA per phase and a surge counter

Available Accessories: Ordered Separately
RMSIE - Remote monitor
WHXWDP120 = 10' Display cable extension

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>Iₚ</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>700/1200</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>1200</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>1200</td>
<td>—</td>
<td>1200</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
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<tr>
<td>G</td>
<td>600V, 3Ø, 3W (Fig 4)</td>
<td>—</td>
<td>2500</td>
<td>—</td>
<td>2500</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>2000</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
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<tr>
<td>L</td>
<td>600/347V, 3Ø, 4W (Fig 2)</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
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<td>200 kA</td>
<td>420</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>2000</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
</tr>
</tbody>
</table>

Notes:
1 G voltage code only available in 200 & 250 kA
2 Not available in 500 kA
3 Available in 100 kA, 150 kA, 200 kA & 250 kA only
4 VPR may increase when disconnect switch is added
5 VPR may decrease for products 400 & 500 kA per phase

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