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 L
• 200 kA SCCR (most models)
• Provides redundant replaceable module protection for low to high exposure applications
• Designed, manufactured and tested consistent with:
  • 1992/2000 NEMA LS-1
  • 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

<table>
<thead>
<tr>
<th>Per Phase</th>
<th>L-N</th>
<th>L-G</th>
<th>N-G</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 kA</td>
<td>50 kA</td>
<td>50 kA</td>
<td>50 kA</td>
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<tr>
<td>150 kA</td>
<td>100 kA</td>
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<tr>
<td>200 kA</td>
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<tr>
<td>250 kA</td>
<td>150 kA</td>
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<tr>
<td>300 kA</td>
<td>150 kA</td>
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<tr>
<td>400 kA</td>
<td>200 kA</td>
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<tr>
<td>500 kA</td>
<td>250 kA</td>
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<td>250 kA</td>
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</tbody>
</table>
• 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
• <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)

Options
• Internal rotary disconnect switch
• Thru-door disconnect switch

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
Ordering Information

TPS3  □ □ □ □ □ □

Voltage Code  □ □ □ □ □ □
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

Surge Current (kA)  □ □ □ □ □ □
0 = Standard NEMA 1/12/3R/4 Steel
V = NEMA 4X non-metallic
S = NEMA 4X stainless steel
F = NEMA 1 flush mount
P = NEMA 1 screwcover pullbox with extended display on 10 ft cable for line side mounting in SWBD/SWGR

Enclosure  □ □ □ □ □ □

Options  □ □ □ □ □ □
2 = Type 2 SPD (Default)
Includes UL 1283
EMI/RFI Filters
0 = Type 1 SPD
(Contact factory)

Available Accessories:
Ordered Separately
RMSIE - Remote monitor

Example: TPS3C12100XD2 = Type 2 SPD (Default) for a 208/120V application with a surge current capacity of 100kA per phase, in a standard NEMA 1/12/3R/4 enclosure with a surge counter and internal rotary disconnect option

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>SCR</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>1200</td>
<td>—</td>
<td>1200</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>
<td>2500</td>
<td>20 kA</td>
<td>200 kA</td>
<td>420</td>
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<tr>
<td>S</td>
<td>400/230V, 3Ø, 4W (Fig 2)</td>
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<td>1200</td>
<td>1200</td>
<td>2000</td>
<td>20 kA</td>
<td>200 kA</td>
<td>320</td>
</tr>
</tbody>
</table>

Notes:
- For line side mounting in SWBD/SWGR
- Not available in 500kA
- Available in 100kA, 150kA, 200kA & 250kA only
- VPR may increase when disconnect switch is added; VPR may decrease for products 400 & 500kA per phase

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