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
- When "P" option is selected, TPS3 15,
  Type 1 SPD mounts internal to:
  SB1, SB3 and Type RCS switchboards,
  Type WL low voltage switchgear and
  TIASTAR motor control centers
- Large block, individually fused,
  thermally protected, 50 kA MOVs
- Internal rotary disconnect switch
  • 20 kA I
  • 200 kA SCCR (most models)
- Provides redundant replaceable
  module protection for low to high
  exposure applications
- 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
- Designed, manufactured and tested
  consistent with:
  • ANSI/IEEE C62.41.1-2002,
    C62.42.1-2002, C62.45-2002,
    C62.62-2010, C62.72-2016 &
    CSA C22.2 No. 269.1 and .2
  • 1992/2000 NEMA LS-1
  • NEC Article 285
  • IEC 61643, CE
  • 10 year warranty
- Standard Configuration
  • Standard NEMA 1/12/3R/04 ANSI 61
    steel enclosure
  • Internal rotary disconnect switch
  • Wire size: #8 AWG to 1/0
  • Standard size: 20” x 20” x 7” (508
    mm x 508 mm x 178 mm)*
  • Standard weight: 64 lb. (29 kg)*
  *Other NEMA ratings may increase enclosure size
  and weight
- SPD Specifications
  • Surge Current Rating Per Phase
    Per Phase | L-N | L-G | N-G
    600 kA   300 kA 300 kA 300 kA
    800 kA   400 kA 400 kA 400 kA
    1000 kA  500 kA 500 kA 500 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)
- SPD Monitoring
  • LED indicators
  • Audible alarm with silence switch
    and test button
  • Dry contacts
  • Surge counter
Ordering Information

TPS3 15
 Voltage Code

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, 4W (Fig 2)
K = 380/220V, 3Ø, 4W (Fig 2)
L = 600/347V, 3Ø, 4W (Fig 2)
S = 400/230V, 3Ø, 4W (Fig 2)

Surge Current (kA)

40 = 400 kA per phase  
50 = 500 kA per phase  
60 = 600 kA per phase  
80 = 800 kA per phase  
1K = 1000 kA per phase

Enclosure

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 6ft cable for line side mounting in SWBD/SWGR

Options

2 = Type 2 SPD (Default)  
Includes UL 1283  
EMI/RFI Filters
0 = Type 1 SPD  
(contact factory)
T = Thru-door disconnect
0 = No thru-door disconnect

X = Surge counter (Standard)

Available Accessories:
Ordered Separately
RMSE - Remote monitor

Example: TPS3C1560SX02 = Type 2 SPD (Default) for a 208/120V application with a surge current capacity of 600 kA per phase, in a NEMA 4X stainless steel enclosure with a surge counter and standard disconnect switch

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>
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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 kA</td>
<td>100 kA</td>
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<td>B</td>
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<td>700 /1200</td>
<td>700 /1200</td>
<td>700/1000</td>
<td>1000/1800</td>
<td>20 kA</td>
<td>200 kA</td>
<td>150 / 320</td>
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<td>C</td>
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<td>700</td>
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<td>700</td>
<td>1000</td>
<td>20 kA</td>
<td>200 kA</td>
<td>150</td>
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<td>D</td>
<td>240V, 3Ø, 3W (Fig 4)</td>
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<td>1200</td>
<td>—</td>
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<td>200 kA</td>
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<td>277/480V, 3Ø, 4W (Fig 2)</td>
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<td>1200</td>
<td>1200</td>
<td>1800</td>
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<td>200 kA</td>
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<td>F</td>
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<td>—</td>
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<td>G</td>
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<td>1200</td>
<td>2000</td>
<td>20 kA</td>
<td>200 kA</td>
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<td>1500</td>
<td>1500</td>
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<td>200 kA</td>
<td>420</td>
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<td>S</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>
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</tbody>
</table>

Notes:

1 For line side mounting in SWBD/SWGR  
2 Available in G voltage code only  
3 Available in 600 kA & 800 kA only  
4 Available in 400 kA & 500 kA only

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