

# TPS3 11

## Type 1 Surge Protective Device (SPD) Mounts External to Electrical Distribution Equipment

### Features:

- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD (Type 2 cUL)
- Mounts external to electrical distribution equipment
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA  $I_n$  (most models)
- 200 kA SCCR (most models)
- All UL-required OCP & safety coordination included
- UL96A Lightning Protection Master Label compliant (@ 20 kA  $I_n$ )

### ■ SPD Specifications

- Surge Current Rating Per Phase
- | Per Phase | L-N    | L-G    | N-G    |
|-----------|--------|--------|--------|
| 100 kA    | 50 kA  | 50 kA  | 50 kA  |
| 150 kA    | 100 kA | 50 kA  | 50 kA  |
| 200 kA    | 100 kA | 100 kA | 100 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
  - 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 4X polycarbonate enclosure (UL 746C (f1), UL 94-5VA)
- Wire size: #8 AWG to #10 AWG
- Standard size: 6" x 6" x 4" (152 mm x 152 mm x 102 mm)
- Standard weight: 5 lbs. (2.27 kg)



UL 1449 3rd Edition SPD

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- SPD Features
- UL 1449 3rd Edition effective September 2009
- Designed, manufactured and tested consistent with:
  - ANSI/IEEE C62.41.1-2002, c62.41.2-2002, C62.45-2002,
  - 1992/2000 NEMA LS-1
  - NEC® Article 285
  - IEC 61643, CE
- 10 year warranty

- SPD Features
- Large block, individually fused, thermally protected, 50 kA MOVs
- SPD Monitoring
- LED indicators
- Available Options
- Dry contacts & audible alarm

- Available Accessories
- RMSIE = Remote monitor
- KITFMXF = Flush mount plate
- Key Bid Specifications
- UL 1449 3rd Edition – 2009, cUL
- UL 1283
- Type 2 SPD<sup>①</sup>
- Protection modes on L-N, L-G, L-L, N-G
- I<sub>n</sub> Rating – 20 kA
- Short Circuit Current Rating – 200 kA
- Surge Current Rating
 

Per Phase = L-N	+	L-G
100 kA		50 kA

Ordering Information

Catalogue #

TPS3    11          2

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

Surge Current (kA)

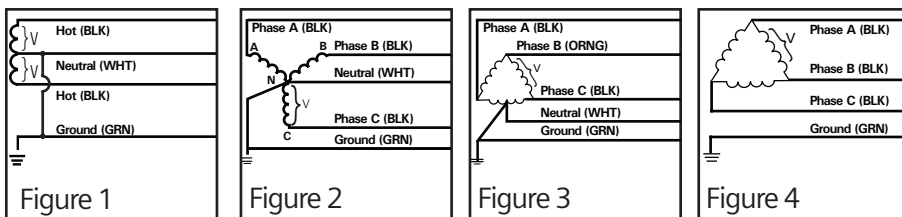
10 = 100 kA per phase  
 15 = 150 kA per phase  
 20 = 200 kA per phase

Options

D = Dry contacts & audible alarm

- Example: TPS3C1110D2 = Type 2 SPD for a 208/120V application with a surge current capacity of 100 kA per phase, in a standard NEMA 4X enclosure with dry contacts and audible alarm option  
 - When an option is not selected, include a zero (0) in the field

UL 1449 3rd Edition - 2009 Test Data Summary									
Voltage Protection Rating (VPR - 6kV, 3 kA)									
Voltage Code	Service Voltage	L-N	L-G	N-G	L-L	Type <sup>①</sup>	I <sub>n</sub>	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	700	700	600	1000	Type 2	20 kA	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	700 / 1200	700 / 1200	600	1000	Type 2	20 kA	200 kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	600	1000	Type 2	20 kA	200 kA	150
D	240V, 3Ø, 3W (Fig 4)		1200		2000	Type 2	20 kA	200 kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 2	20 kA	200 kA	320
F	480V, 3Ø, 3W (Fig 4)		1800		2000	Type 2	10 kA	200 kA	552
G	600V, 3Ø, 3W (Fig 4)		2500		2500	Type 2	10 kA	200 kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 2	20 kA	200 kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	Type 2	10 kA	200 kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 2	20 kA	200 kA	320



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Notes:

- ① Type 1 UL
- ② Available in 100 kA per phase only

www.siemens.ca/surge  
 www.siemens.ca