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Sizing Chart

Surge Protective Devices

Service Entrance Greater than 2000A		
Exposure Level	kA per phase	Model
High Exposure	300 kA	TPS3_1230
Medium Exposure	200 kA	TPS3_1220
Low Exposure	150 kA	TPS3_1215
Lowest Exposure	100 kA	TPS3_1110
Service Entrance 1200A - 2000A		
Exposure Level	kA per phase	Model
High Exposure	250 kA	TPS3_1225
Medium Exposure	200 kA	TPS3_1220
Low Exposure	150 kA	TPS3_1215
Lowest Exposure	100 kA	TPS3_0910
Service Entrance 800A - 1200A		
Exposure Level	kA per phase	Model
High Exposure	200 kA	TPS3_1120
Medium Exposure	150 kA	TPS3_1115
Low Exposure	100 kA	TPS3_0910
Lowest Exposure	50 kA	TPS3_0305
Distribution/Branch Panel 800A - 1200A		
Exposure Level	kA per phase	Model
High Exposure	200 kA	TPS3_1120
Medium Exposure	150 kA	TPS3_1115
Low Exposure	100 kA	TPS3_0910
Lowest Exposure	50 kA	TPS3_0305
Distribution/Branch Panel Less than 800A		
Exposure Level	kA per phase	Model
High Exposure	150 kA	TPS3_1115
Medium Exposure	100 kA	TPS3_1110
Low Exposure	100 kA	TPS3_0910
Lowest Exposure	50 kA	TPS3_0305



TPS3 03



TPS3 09



TPS3 11



TPS3 12

Pricing & Product information - Phone: 888.333.3545 or visit usa.siemens.com/spd



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TPS3 09

Type 1 Surge Protective Device (SPD) Mounts External to Electrical Distribution Equipment or Internal to P1, P2 Lighting Panelboards, P3 Power Panelboards and Busway Systems

Features:

- UL 1449 4th Edition Listed Type 1, CSA 22.2 No. 269.1
- Type 1 SPD
- Mounts external to electrical distribution equipment
  - Weatherproof hub included
- Mounts internal to P1 panelboards & busway
  - P1 - Field retrofit or factory install
  - P2 and P3 - Factory install only
  - **Consult factory for field retrofit**
- 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
  - Type 1 SPDs intended for Line or Load side of Main Disconnect
- UL96A Lightning Protection Master Label compliant (@20kA I_n)
- Designed, manufactured and tested consistent with:
  - ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, C62.62-2010, C62.72-2007 & CSA C22.2 No. 269.1
  - 1992/2000 NEMA LS-1
  - NEC Article 285
  - IEC 61643, CE
- 10 year warranty
- SPD Specifications
  - Surge Current Rating Per Phase

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



- 100% monitoring (Every MOV is monitored, incl. N-G)
- Individually fused and thermally protected MOVs
- Solid state bi-directional operation
- 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: -40°C (-40°F) to +85°C (185°F)

- Standard Configuration
  - Standard NEMA 4X polycarbonate enclosure (UL 746C (f1), UL 94-5VA)
  - Wire size: Prewired with 3' (91.4 cm) of #10 AWG
  - Standard size: 8.3" x 3.6" x 3.0" (211 mm x 91 mm x 77 mm)
  - Standard weight: 3 lb. (1.4 kg)

- SPD Monitoring
  - LED indicators



Ordering Information

TPS3 □ 09 □□ □□□

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)
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

Options

E = Extended indicator light
I = Internal mounting in P1, P2 panels❶
D = Dry contact & audible alarm

Example: TPS3C0910D00 = Type 1 SPD for a 208/120V panelboard with a surge current capacity of 100 kA per phase with standard NEMA 4X enclosure, dry contacts and audible alarm option.

Available for field retrofit in P1 panels

When an option is not selected, include a zero (0) in the field

Available Accessories: Ordered Separately

RMSIE = Remote monitor
XMFMKIT = Flush mount plate
TPS9IKITP1 = Mounting bracket for installation in P1 panels
TPS9IKITP2 = Mounting bracket for installation in P2 panels (factory install only)

UL 1449 Fourth Edition - Test Data
Voltage Protection Rating (VPR - 6 kV, 3 kA)

Voltage Code	Service Voltage	L-N	L-G	N-G	L-L	I_n	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	600	700	500	1000	20 kA	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	600/1200	700 /1200	500	1000/1000	20 kA	200 kA	150/320
C	120/208V, 3Ø, 4W (Fig 2)	600	700	500	1000	20 kA	200 kA	150
D	240V, 3Ø, 3W (Fig 4)	—	1200	—	1200	20 kA	200 kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1000	1800	20 kA	200 kA	320
F	480V, 3Ø, 3W (Fig 4)	—	1800	—	1800	10 kA	200 kA	552
G	600V, 3Ø, 3W (Fig 4)	—	2500	—	2500	10 kA	200 kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1000	1800	20 kA	200 kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	10 kA	200 kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1000	1800	20 kA	200 kA	320

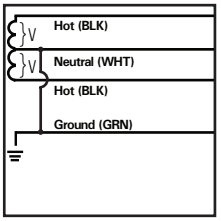


Figure 1
Split
2 Hots, 1 Neu, 1 Grnd

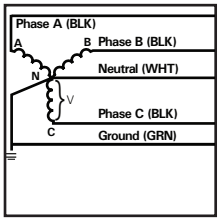


Figure 2
Wye
3 Hots, 1 Neu, 1 Grnd

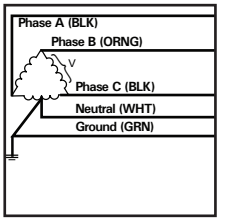


Figure 3
Hi-Leg Delta (B High)
3 Hots, (B High),
1 Neu, 1 Grnd

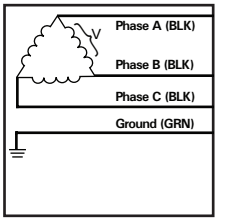


Figure 4
Delta & HRG Wye
3 Hots, 1 Grnd

Notes:

❶ Requires TPS9IKITP1 or TPS9IKITP2 mounting bracket accessory, see available Accessories. Prewired cables are extended from 3 feet to 6 feet.

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