

# SIEMENS

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## TPS3 03

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

#### Features:

- UL 1449 4th Edition Listed Type 1, CSA 22.2 No. 269.1
- Optional UL 1449-4 Type 2 SPD, CSA 22.2 No. 269.2
- Type 1 SPD
- Mounts external to electrical distribution equipment
  - Recommended for Line Side or Load Side Applications
- Bracket included for multiple mounting options
- Large-block 34 mm square 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
- 5 year warranty

#### SPD Specifications

- Surge Current Rating Per Phase  

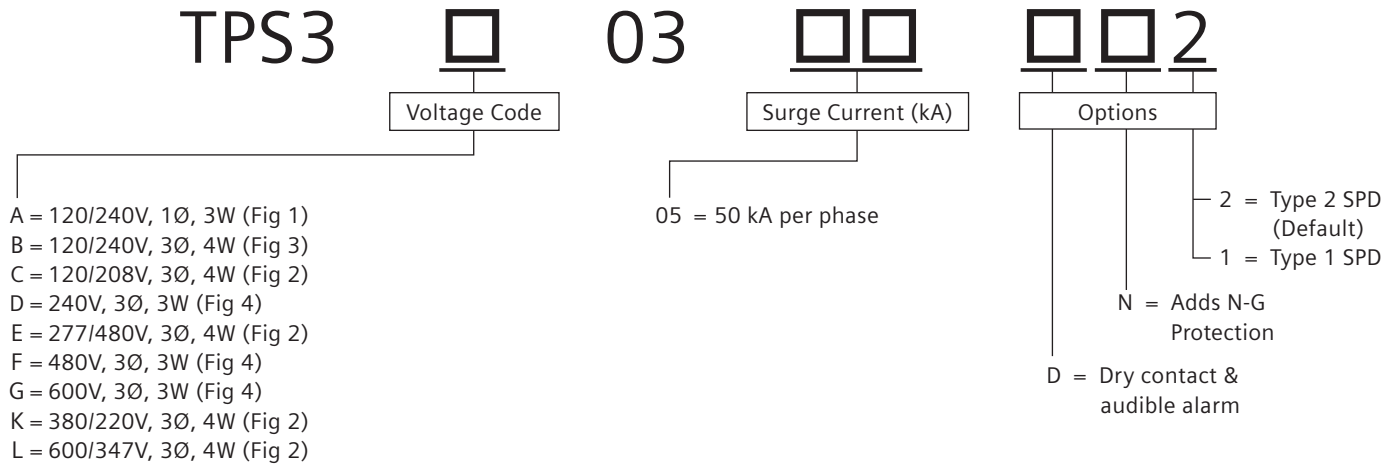
Per Phase	L-N (L-G: Delta)
50 kA	50 kA
- 100% monitoring (Every MOV is monitored)
- Individually fused and thermally protected MOVs
- Solid state bi-directional operation
- Repetitive impulse: 5000 - 3kA - 8 x 20 $\mu$ s; 1000 - 10kA - 8 x 20 $\mu$ s
- Less than 1 nanosecond response time
- Relative humidity range: 0-95% non-condensing
- Operating frequency: 47-63 Hz
- Peak Operating temperature: +85°C (185°F)
- Operating temperature: -40°C (-40°F) to +60°C (140°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: 3.25" x 3.25" x 3.3" (82.6 mm x 82.6 mm x 83.8 mm)
  - Standard weight: 2 lb. (0.9 kg)
- SPD Monitoring
- LED indicators



## Ordering Information



Example: TPS3C0305D02 = Type 2 SPD for a 208/120V application with a surge current capacity of 50 kA per phase, in a standard NEMA 4X enclosure with dry contacts and audible alarm option

**Available Accessories:  
 Ordered Separately**  
 RMSIE = Remote monitor

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

### 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 <sub>n</sub>	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	600	1000*	600*	100	20 kA	200kA	150
B	120/240V, 3Ø, 4W (Fig 3)	600/1200	1000/1500*	600*	100/1500	20 kA	200 kA	150/320
C	120/208V, 3Ø, 4W (Fig 2)	600	1000*	600*	1000	20 kA	200 kA	150
D	240V, 3Ø, 3W (Fig 4)	—	1200*	—	1500	20 kA	200 kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1800*	1000*	2000	20 kA	200 kA	320
F	480V, 3Ø, 3W (Fig 4)	—	1800*	—	3000	10 kA	200kA	550
G	600V, 3Ø, 3W (Fig 4)	—	1200*	—	1500	20 kA	200kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1800*	1000*	2000	20 kA	200kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	2500*	1200*	2500	20 kA	200kA	420

\*with optional N-G protection

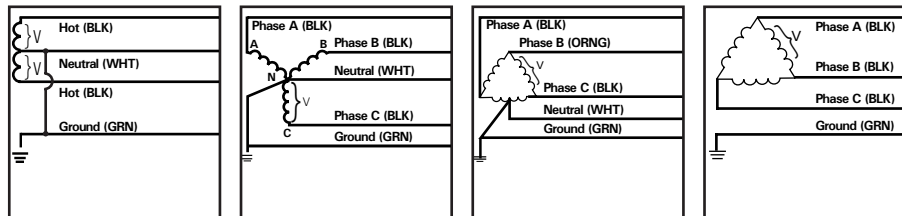


Figure 1

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

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