

# 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
- 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  $I_n$
- 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
- Designed, manufactured and tested consistent with:
  - ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, C62.62-2010, C62.72-2016 & CSA C22.2 No. 269.1
  - 1992/2000 NEMA LS-1
  - NEC Article 285
  - IEC 61643, CE
- 5 year warranty

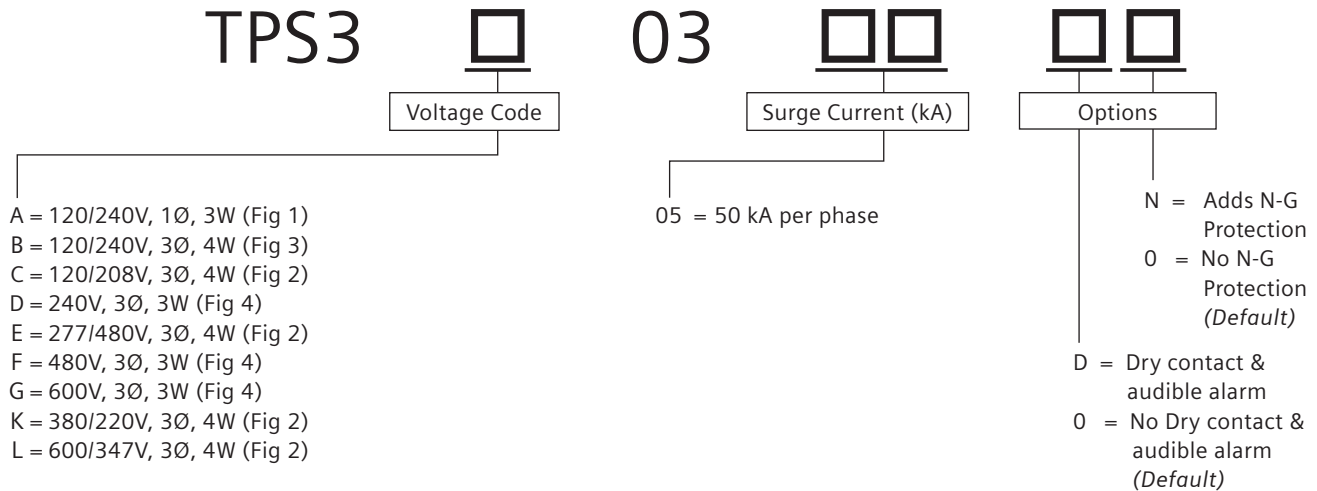
- SPD Specifications
  - Surge Current Rating Per Phase


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
- Options
  - N-G protection
  - Dry Contact & Audible Alarm (Dry Contact connection leads exit through nipple via #18 AWG)



## Ordering Information



Example: TPS3C0305D0 = Type 1 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

### 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*	1000	20 kA	200 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	600/1200	1000/1500*	600*	1000/1500	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	20 kA	200 kA	550
G	600V, 3Ø, 3W (Fig 4)	—	1200	—	1500	20 kA	200 kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1800*	1000*	2000	20 kA	200 kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	2500*	1200*	2500	20 kA	200 kA	420

\*with optional N-G protection

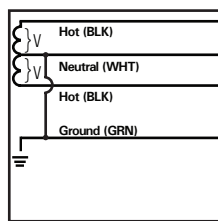


Figure 1

Split  
 2 Hots, 1 Neu, 1 Grnd

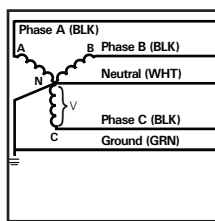


Figure 2

Wye  
 3 Hots, 1 Neu, 1 Grnd

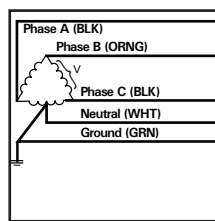


Figure 3

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

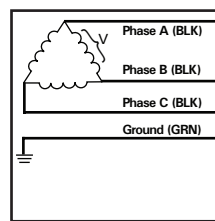


Figure 4

Delta & HRG Wye  
 3 Hots, 1 Grnd

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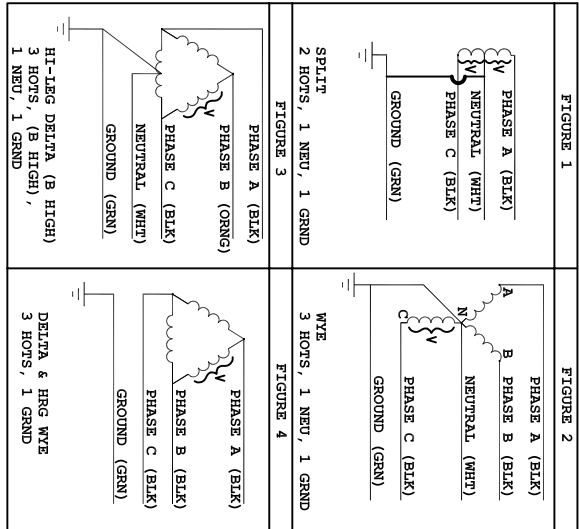
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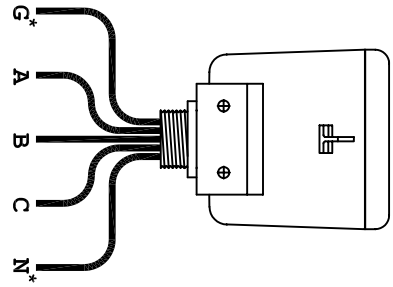
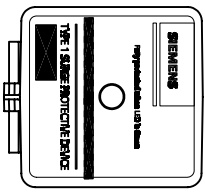
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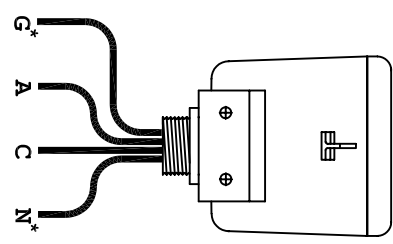
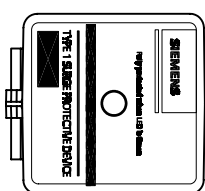


CUSTOMER CONNECTIONS PER FIGURES AT LEFT

THREE POLE



TWO POLE

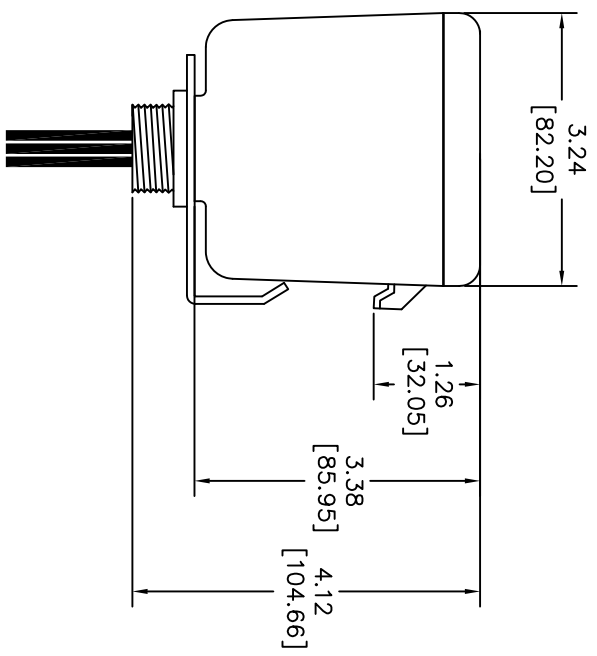
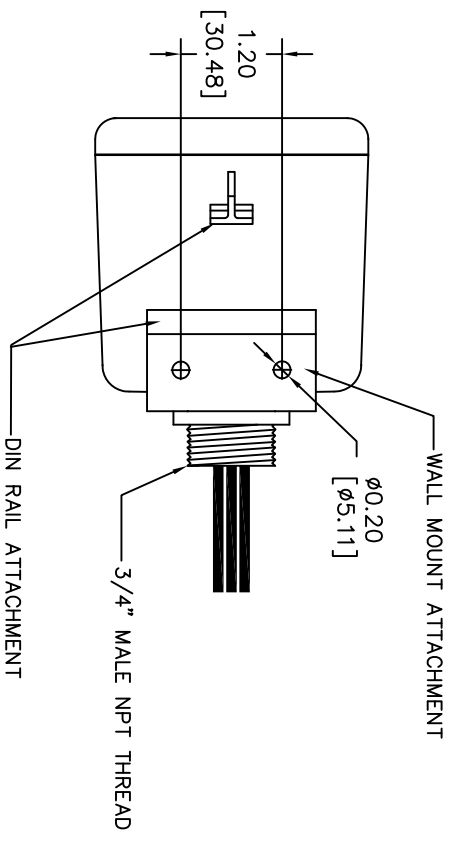
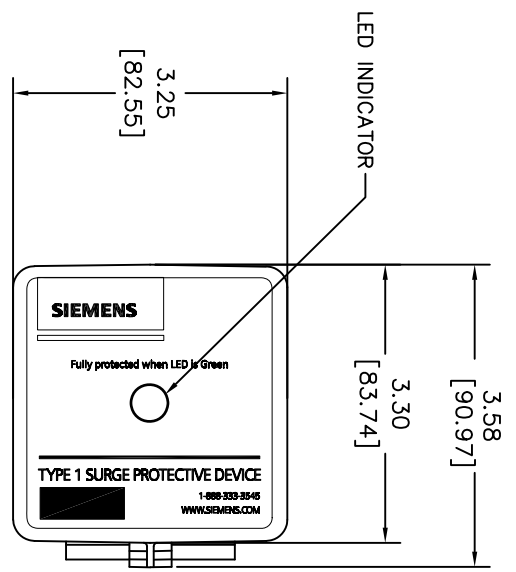


\* GROUND OR NEUTRAL IF EQUIPPED

MODEL	VOLTAGE CODE	SERVICE VOLTAGE	FIGURE
TPS3A03	A	240/120V 1Ø, 3W Plus Ground	1
TPS3B03	B	240/120V 3Ø, 4W Plus Ground High Leg Delta	3
TPS3C03	C	208Y/120V 3Ø, 4W Plus Ground	2
TPS3D03	D	240V 3Ø, 3W Plus Ground	4
TPS3E03	E	480V/277V 3Ø, 4W Plus Ground	2
TPS3F03	F	480V 3Ø, 3W Plus Ground	4
TPS3G03	G	600V/347V 3Ø, 4W Plus Ground	2
TPS3H03	H	380V/220V 3Ø, 4W Plus Ground	2
TPS3I03	I	600V/347V 3Ø, 4W Plus Ground	2
TPS3J03	J	400V/230V 3Ø, 4W Plus Ground	2

<b>B</b>	Add Text	3-10-10
Rev	C.N.	Date
Δ - Denotes latest changes. □ - Critical dimension.		
H. BROCKERS M.S. 4/7/78		
Confidential - Property of Siemens Industry, Inc. TPS3-03 SERIES ELECTRICAL		
SIZE	43D-TPS3-03-E	SHEET 1 of 1

**SURGE PROTECTIVE DEVICE (SPD)  
WEIGHTS & DIMENSIONS  
NEMA RATING: 4X NON METALLIC**



**ENCLOSURE SPECS.:**  
 DESC: NON-METALLIC ENCLOSURE  
 DIM: 3.30"H x 3.25"W x 3.38"D  
 MAT: POLYCARBONATE (V2 & F1)  
 FINISH: GRAY  
 NEMA RATING: 4X  
 DEVICE WEIGHT: 1.6 LBS. (0.72 KG.)

Rev	C.N.	Date
△	-	Denotes latest changes.
□	-	Critical dimension.
H. DRIGGERS 9/17/26 50K NEMA: 4X 43D-TPS3-03-4XM NONE		
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