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# TPS3 15

## 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  $I_n$
- 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, C62.41.2-2002, 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)\*

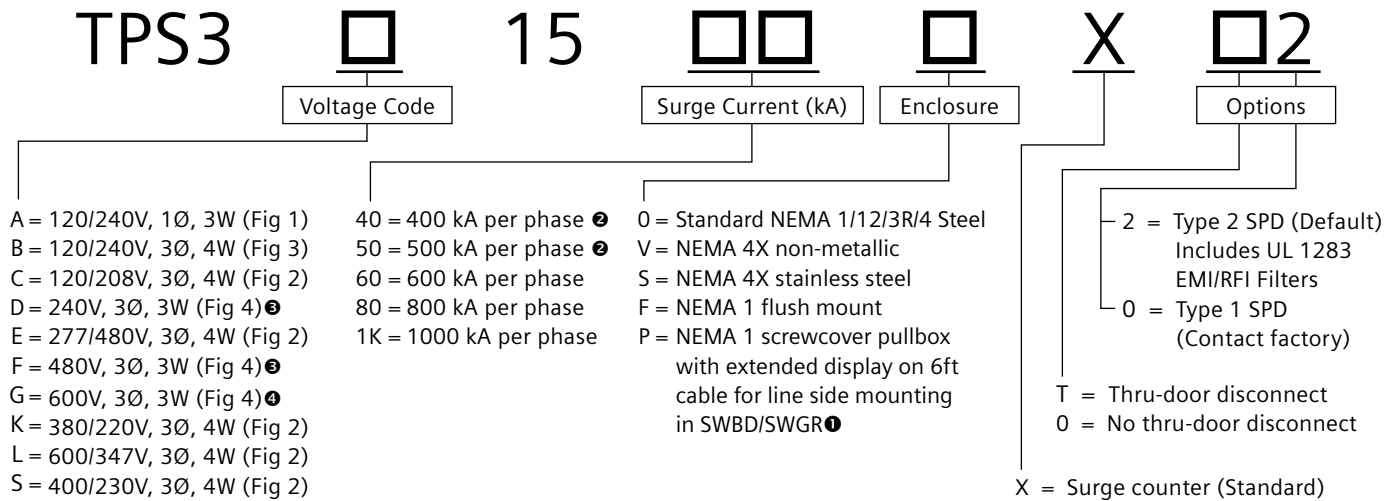
\*Other NEMA ratings may increase enclosure size and weight
- SPD Monitoring
  - LED indicators
  - Audible alarm with silence switch and test button
  - Dry contacts
  - Surge counter
- SPD Specifications


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)



## Ordering Information

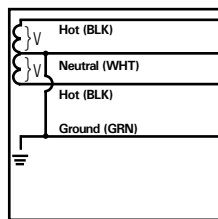


Example: TPS3C1560SX02 = Type 2 SPD (Default) for a 208/120V application with a surge current capacity of 600 kA per phase, in a NEMA 4X stainless steel enclosure with a surge counter and standard disconnect switch

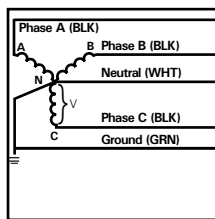
**Available Accessories:  
 Ordered Separately**  
 RMSIE - Remote monitor

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

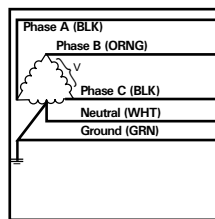
Voltage Code	Service Voltage	L-N	L-G	N-G	L-L	I <sub>n</sub>	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	800	800	700	1200	20 kA	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	800 /1200	800 /1200	700	1200/1800	20 kA	200 kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	800	800	700	1200	20 kA	200 kA	150
D	240V, 3Ø, 3W (Fig 4)	—	1200	—	1200	20 kA	200 kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	20 kA	200 kA	320
F	480V, 3Ø, 3W (Fig 4)	—	1800	—	1800	20 kA	200 kA	550
G	600V, 3Ø, 3W (Fig 4)	—	2500	—	2500	20 kA	200 kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	200 kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	20 kA	200 kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	200 kA	320



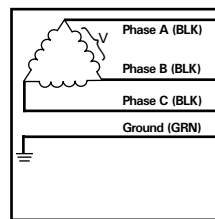
**Figure 1**  
 Split  
 2 Hots, 1 Neu, 1 Grnd



**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

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### Notes:

- ❶ For line side mounting in SWBD/SWGR
- ❷ Available in G voltage code only
- ❸ Available in 600 kA & 800 kA only
- ❹ Available in 400 kA & 500 kA only