



**SIEMENS**

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# TPS3 L2

True 10 Mode Protection

## Type 1 / 2 Surge Protection Device (SPD) for Revised P1 Lighting Panelboards

### Features:

- Mounts internal to:
  - Revised P1 Lighting Panelboards
- Consult factory for field retrofit in Revised P1 Lighting Panelboards
- UL 1449-4 Type 2 SPD, UL 1283 Listed, CSA 22.2 No. 269.2
- Optional UL 1449 4th Edition Recognized Type 1, CSA 22.2 No. 269.1
- Type 1 / Type 2 SPD
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA  $I_n$  (most models)
- 200 kA SCCR (most models)
- Direct bus connected
- Can be wired to a circuit breaker (consult factory at time of order or see installation manual for retrofit)
- UL96A Lightning Protection Master Label compliant (@20kA  $I_n$ )
- 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

- 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 and .2
  - 1992/2000 NEMA LS-1
  - NEC Article 285
  - IEC 61643, CE
- 10 year warranty

### SPD Specifications

- Surge Current Rating Per Phase

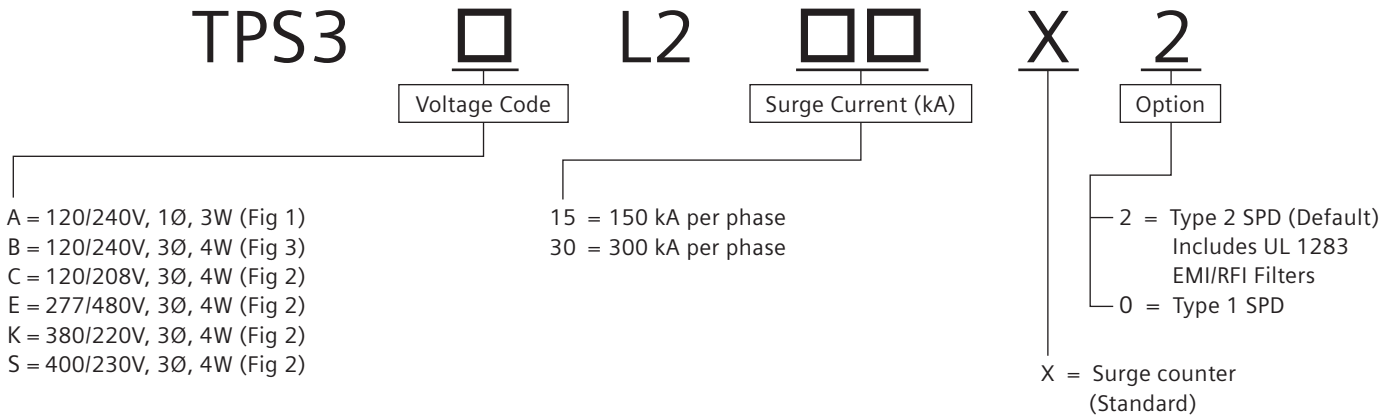
Per Phase	L-N	L-G	N-G
150 kA	100 kA	50 kA	50 kA
300 kA	150 kA	150 kA	150 kA
- 100% monitoring (Every MOV is monitored, incl. N-G)
- EMI/RFI filtering: Active tracking up to -50 db from 10 kHz to 100 MHz (Type 2 option only, includes UL 1283 Listing)

- Repetitive impulse: 5,000 hits
- Less than 1/2 nanosecond response time
- Relative humidity range: 1-95% non-condensing
- Operating frequency: 47-63 Hz
- Operating temperature: -25°C (-15°F) to +60°C (140°F)



- Applications
  - Provides main service or downstream protection for sensitive computer and electronic loads
  - Standard redundancy use: 150 kA per phase
  - Maximum redundancy use: 300 kA per phase
- Standard Monitoring
  - LED indicators
  - Audible alarm with silence switch and test button
  - Dry contacts
  - Surge counter

Ordering Information



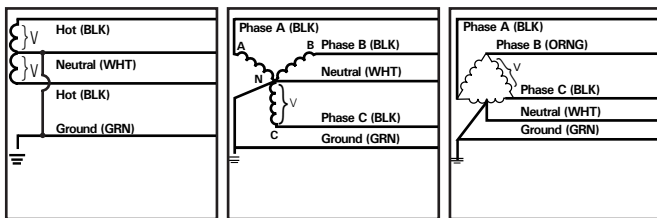
Example: TPS3CL230X2 = 10 Mode Type 2 SPD (Default) for a 208/120V panelboard with a surge current capacity of 300 kA per phase and a surge counter

**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)	700	700	700	1000	20 kA	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	800/1500	700/1200	700	1800/1800	20 kA	200 kA	150/320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1000	20 kA	200 kA	150
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	20 kA	200 kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	20 kA	200 kA	320
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	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

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