

# TPS3 L5

## True 10 Mode Protection

### Type 1 / 2 Surge Protection Device (SPD) for P4 & P5 Panelboards and Distribution Switchboards

**Features:**

- Mounts internal to:
  - P4 & P5 panelboards and distribution switchboards
- 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
- Direct bus connected or can be wired to a circuit breaker (include W option)
- 20 kA  $I_n$
- 200 kA SCCR (most models)
- 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
- 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
- 10 year warranty
- Panelboard Features
  - Copper or aluminum bus
  - MB or MLO
- SPD Specifications
  - Directly connected discrete protection elements between all possible modes providing true 10 mode protection
  - Surge Current Rating Per Phase
 

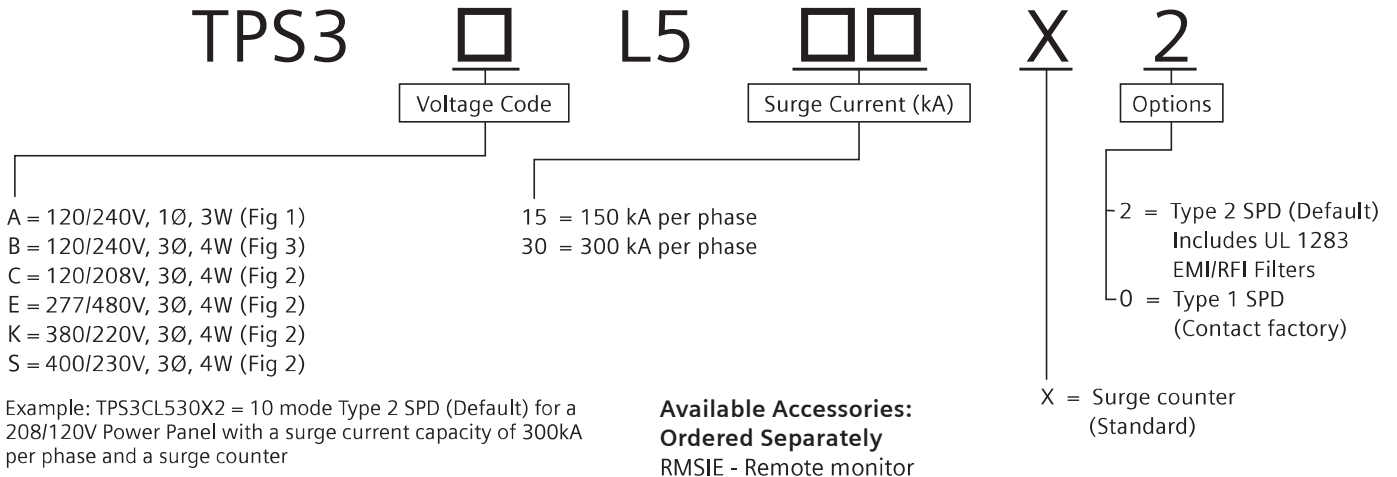
Per Phase	L-N	L-G	L-L	N-G
150 kA	50 kA	50 kA	50 kA	50 kA
300 kA	100 kA	100 kA	100 kA	100 kA
  - 100% monitoring (Every MOV is monitored, incl. N-G)
  - EMI/RFI filtering: Active tracking up to -50 db from 10 kHz to 100 MHz (Type 2 option only, includes UL 1283 Listing)
  - Repetitive impulse: 5,000 hits
  - 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)

- Switchboard Features
  - Copper or aluminum bus
  - 200% rated neutral bus for harmonic-rich applications
  - CSA, UL 891, UL 67 and NEMA PB-2



- Applications
  - Provides main service entrance or downstream protection for sensitive computer and electronic loads
  - Std. redundancy use: 150kA/phase
  - Max. redundancy use: 300kA/phase
- SPD Monitoring
  - LED indicators
  - Audible alarm with silence switch and test button
  - Dry contacts
  - Surge counter
  - Rotary disconnect switch

Ordering Information



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)	700 /1500	700 /1200	700	1000/1800	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

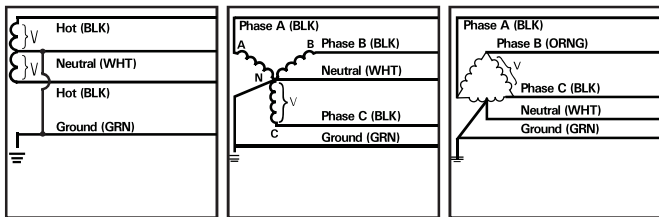


Figure 1 Split  
2 Hots, 1 Neu, 1 Grnd

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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