

TPS3 L5

True 10 Mode Protection

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

Features:

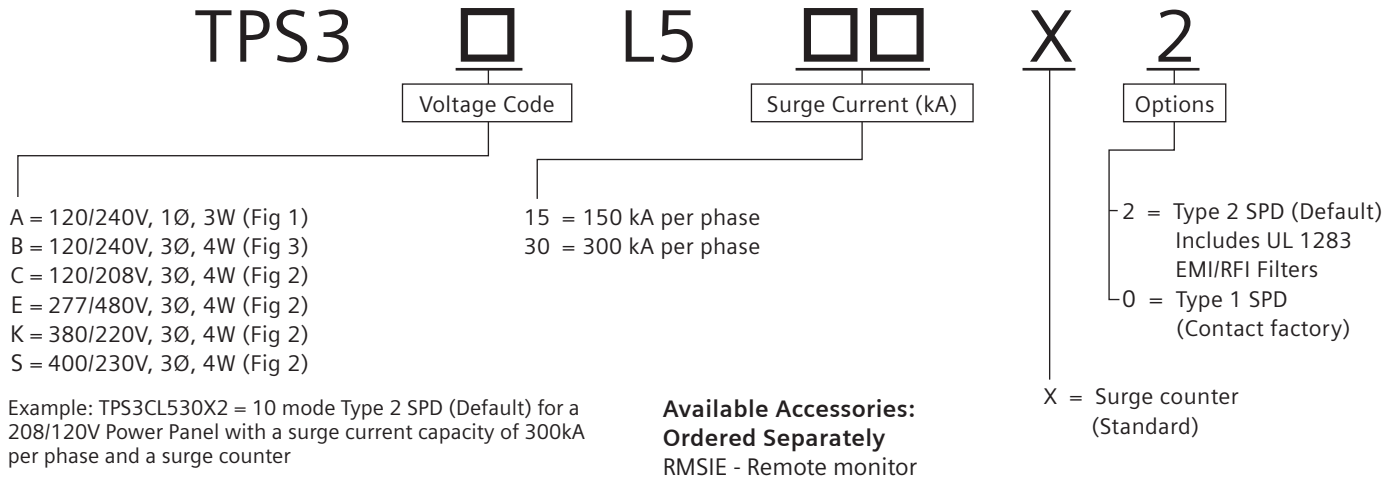
- Mounts internal to:
 - P4 & P5 panelboards and distribution switchboards
- UL 1449-4 Type 2 SPD, UL 1283 Listed, CSA 22.2 No. 269.2
- Optional UL 1449 4th Edition Recognized Type 1, CSA 22.2 No. 269.1
- Type 1 / Type 2 SPD
- Large block, individually fused, thermally protected, 50 kA MOVs
- Direct 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 _n | 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 |

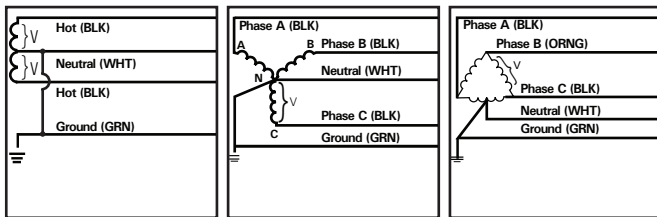


Figure 1
 Split
 2 Hots, 1 Neu, 1 Grnd

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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Order No. RPFL-S3L5C-0218

Printed in USA

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