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TPS3 L12

True 10 Mode Protection

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
 - Large block, individually fused, thermally protected, 50 kA MOVs
 - 20 kA I_n (most models)
 - 200 kA SCCR (most models)
 - Single TPS1 style replaceable modules
 - Provides 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 (@20kA I_n)
- 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
 - 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 |
| 450 kA | 150 kA | 150 kA | 150 kA | 150 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)



- Standard Configuration
 - Standard NEMA 1/12/3R/04 ANSI 61 steel enclosure
 - Wire size: #8 AWG to 1/0
 - Standard size: 12" x 12" x 7" (305 mm x 305 mm x 178 mm) *
 - Standard weight: 20 lb. (9.07 kg) *
- *Internal disconnect options and 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

Ordering Information

TPS3 **□** **L12** **□□** **□** **X** **□2**

Voltage Code Surge Current (kA) Enclosure Options

A = 120/240V, 1Ø, 3W (Fig 1) 15 = 150 kA per phase
 B = 120/240V, 3Ø, 4W (Fig 3) 30 = 300 kA per phase
 C = 120/208V, 3Ø, 4W (Fig 2) 45 = 450 kA per phase
 E = 277/480V, 3Ø, 4W (Fig 2)
 K = 380/220V, 3Ø, 4W (Fig 2)
 S = 400/230V, 3Ø, 4W (Fig 2)

0 = Standard NEMA 1/12/3R/4 Steel
 V = NEMA 4X non-metallic
 S = NEMA 4X stainless steel
 F = NEMA 1 flush mount
 P = NEMA 1 screwcover pullbox with extended display on 6ft cable for line side mounting in SWBD/SWGR

2 = Type 2 SPD (Default) Includes UL 1283 EMI/RFI Filters
 0 = Type 1 SPD
 D = Internal rotary disconnect
 T = Thru-door disconnect
 X = Surge counter (Standard)

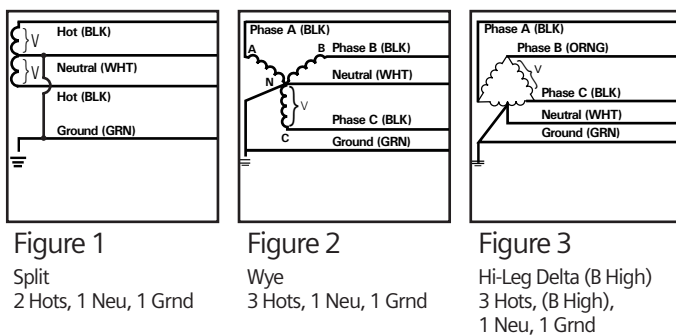
Example: TPS3CL12150XD2 = 10 Mode, Type 2 SPD (Default) for a 208/120V application with a surge current capacity of 150kA per phase, in a standard NEMA 1/12/3R/4 enclosure with a surge counter and internal rotary disconnect option

**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) ①

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



Notes:

- ① VPR may increase when disconnect switch is added
 VPR may decrease for 450 kA per phase

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