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TPS3 12

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)
- 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 (@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

Surge Current Rating Per Phase

Per Phase	L-N	L-G	N-G
100 kA	50 kA	50 kA	50 kA
150 kA	100 kA	50 kA	50 kA
200 kA	100 kA	100 kA	100 kA
250 kA	150 kA	100 kA	100 kA
300 kA	150 kA	150 kA	150 kA
400 kA	200 kA	200 kA	200 kA
500 kA	250 kA	250 kA	250 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
 - Internal rotary disconnect switch
 - 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 **□** **12** **□□** **□** **X** **□2**

Voltage Code Surge Current (kA) Enclosure Options

A = 120/240V, 1Ø, 3W (Fig 1) 10 = 100 kA per phase
 B = 120/240V, 3Ø, 4W (Fig 3) 15 = 150 kA per phase
 C = 120/208V, 3Ø, 4W (Fig 2) 20 = 200 kA per phase
 D = 240V, 3Ø, 3W (Fig 4) ② 25 = 250 kA per phase
 E = 277/480V, 3Ø, 4W (Fig 2) 30 = 300 kA per phase
 F = 480V, 3Ø, 3W (Fig 4) ② 40 = 400 kA per phase
 G = 600V, 3Ø, 3W (Fig 4) ③ 50 = 500 kA per phase
 K = 380/220V, 3Ø, 4W (Fig 2)
 L = 600/347V, 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: TPS3C12100XD2 = Type 2 SPD (Default) for a 208/120V application with a surge current capacity of 100kA 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 option "X", "T", or "D" are NOT selected, include a zero (0) in the field.

UL 1449 Fourth Edition - Test Data
 Voltage Protection Rating (VPR - 6 kV, 3 kA) ⑤

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	1200	20 kA	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	700/1200	700/1200	700	1800/1800	20 kA	200 kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1200	20 kA	200 kA	150
D	240V, 3Ø, 3W (Fig 4)	—	1200	—	1200	20 kA	200 kA	320
E ④	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	200 kA	320
F	480V, 3Ø, 3W (Fig 4)	—	1800	—	1800	20 kA	200 kA	552
G	600V, 3Ø, 3W (Fig 4)	—	2500	—	2500	10 kA	200 kA	690
K ④	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

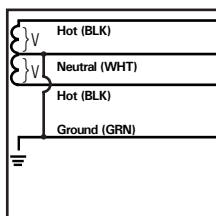


Figure 1
 Split
 2 Hots, 1 Neu, 1 Grnd

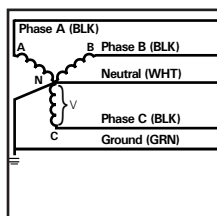


Figure 2
 Wye
 3 Hots, 1 Neu, 1 Grnd

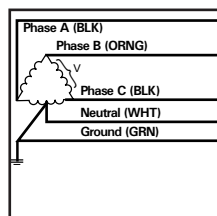


Figure 3
 Hi-Leg Delta (B High)
 3 Hots, (B High),
 1 Neu, 1 Grnd

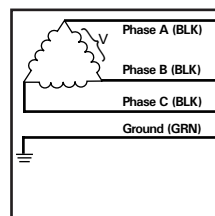


Figure 4
 Delta & HRG Wye
 3 Hots, 1 Grnd

Notes:

- ① For line side mounting in SWBD/SWGR
- ② Available in G voltage code only
- ③ Available in 600 kA & 800 kA only
- ④ Available in 400 kA & 500 kA only

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