

TPS3 15

Type 1 Surge Protective Device (SPD) For Line Side or Load Side Applications

Features:

- UL 1449 3rd Edition – 2009, cUL
- UL 1283
- Type 1 SPD (Type 2 cUL)
- Mounts external to electrical distribution equipment
 - Recommended for line side or load side applications
- When "P" option is selected, TPS3 15, Type 1 SPD mounts internal to: SB1, SB3 and Type RCS switchboards, Type WL low voltage switchgear and TIASTAR motor control centers
- Large block, individually fused, thermally protected, 50kA MOV's
- 20kA I_n (most models)
- 200kA SCCR (most models)
- Provides redundant replaceable module protection for low to high exposure applications
- All UL-required OCP & safety coordination included
- UL96A Lightning Protection Master Label compliant (@20kA In)

■ SPD Specifications

- Surge Current Rating Per Phase
- | Per Phase | L-N | L-G | N-G |
|-----------|-------|-------|-------|
| 600kA | 300kA | 300kA | 300kA |
| 800kA | 400kA | 400kA | 400kA |
| 1000kA | 500kA | 500kA | 500kA |
- 100% monitoring – every MOV is monitored, incl. N-G
 - Individually fused and thermally protected MOV's
 - Solid state bi-directional operation
 - EMI/RFI filtering: active tracking up to -50db from 10kHz to 100MHz
 - Repetitive impulse: 5,000 hits
 - Less than 1 nanosecond response time
 - Relative humidity range: 0 -95% non-condensing
 - Operating frequency: 47-63Hz
 - 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: 20" x 20" x 7" (508mm x 508mm x 178mm) *
- Standard weight: 64 lbs. (29kg) *

*Other NEMA ratings may increase enclosure size and weight



UL 1449 3rd Edition SPD

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- SPD Features
 - UL 1449 3rd Edition effective September 2009
 - Designed, manufactured and tested consistent with:
 - ANSI/IEEE C62.41.1-2002, c62.41.2-2002, C62.45-2002,
 - 1992/2000 NEMA LS-1
 - NEC Article 285
 - IEC 61643, CE
 - Large block, individually fused, thermally protected, 50kA MOV's
 - Internal rotary disconnect switch
 - 10 year warranty

- SPD Monitoring
 - LED indicators
 - Audible alarm with silence switch and test button
 - Dry contacts
- Available Options
 - Surge counter
 - Thru-door disconnect switch
 - NEMA 4X non-metallic enclosure
 - NEMA 4X stainless steel enclosure
 - Flush mount enclosure
 - NEMA 1 enclosure with extended display²

- Key Bid Specifications
 - UL 1449 3rd Edition – 2009, cUL
 - UL 1283
 - Type 1 SPD¹
 - Protection modes on L-N, L-G, L-L, N-G
 - I_n Rating – 20kA
 - Short Circuit Current Rating – 200kA
 - Surge Current Rating

Per Phase	=	L-N	+	L-G
600kA				300kA
				300kA

Ordering Information

Catalog # **TPS3** **15**

Voltage Code	Surge Current (kA)	Enclosure	Options
A = 120/240V, 1Ø, 3W (Fig 1)	40 = 400kA per phase ⁵	0 = Standard NEMA 1/12/3R/4 steel	T = Thru-door disconnect
B = 120/240V, 3Ø, 4W (Fig 3)	50 = 500kA per phase ⁵	V = NEMA 4X Non-metallic	X = Surge counter
C = 120/208V, 3Ø, 4W (Fig 2)	60 = 600kA per phase	S = NEMA 4X Stainless steel	
D = 240V, 3Ø, 3W (Fig 4) ⁴	80 = 800kA per phase	F = NEMA 1 Flush mount	
E = 277/480V, 3Ø, 4W (Fig 2)	1K = 1000kA per phase	P = NEMA 1 Screwcover pullbox with extended display on 5ft cable for line side mounting in SWBD/SWGR	
F = 480V, 3Ø, 3W (Fig 4) ⁴			
G = 600V, 3Ø, 3W (Fig 4) ⁵			
K = 380/220V, 3Ø, 4W (Fig 2)			
L = 600/347V, 3Ø, 4W (Fig 2)			
S = 400/230V, 3Ø, 4W (Fig 2)			

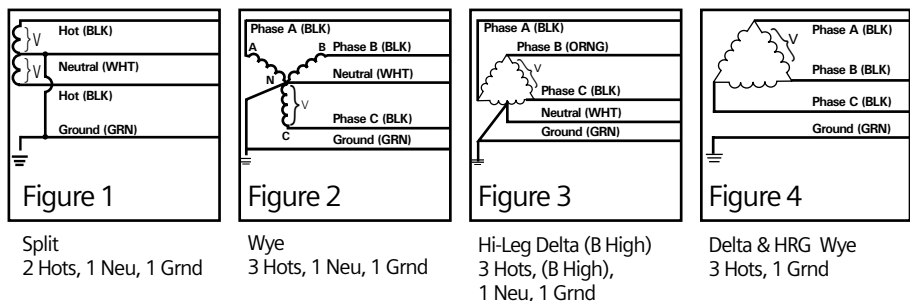
- Example: TPS3C1560SX0 = Type 1 SPD for a 208/120V application with a surge current capacity of 600kA per phase, in a NEMA 4X stainless steel enclosure with a surge counter option and standard disconnect switch

- When an option is not selected, include a zero (0) in the field

Available Accessories: Ordered Separately

- RMSIE - Remote monitor

UL 1449 3rd Edition - 2009 Test Data Summary									
Voltage Protection Rating (VPR - 6kV, 3kA)									
Voltage Code	Service Voltage	L-N	L-G	N-G	L-L	Type ¹	In	SCCR	MCOV
A	240/120V Split Phase (Fig 1)	700	700	700	1000	Type 1	20kA	100kA	150
B	240/120V B High Leg Delta (Fig 3)	700 /1200	700 /1200	700/1000	1000/1800	Type 1	20kA	200kA	150 / 320
C	208Y/120V 3Ø Wye (Fig 2)	700	700	700	1000	Type 1	20kA	200kA	150
D	(Fig 4)								
E	480Y/277V 3Ø Wye (Fig 2)	1200	1200	1200	1800	Type 1	20kA	200kA	320
F	480V 3Ø Delta (Fig 4)	—	1800	—	1800	Type 1	20kA	200kA	550
G	(Fig 4)								
K	(Fig 2)								
L	600Y/347V 3Ø Wye (Fig 2)	1500	1500	1500	2500	Type 1	20kA	200kA	420
S	(Fig 2)								



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- Notes:
- ¹ Type 2 cUL
 - ² For line side mounting in SWBD/SWGR
 - ³ Available in G voltage code only
 - ⁴ Available in 600k & 800k only
 - ⁵ Available in 400k & 500k only

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