

TPS3 L12

True 10 Mode Protection

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

- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD (Type 2 cUL)
- 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
- UL96A Lightning Protection Master Label compliant (@ 20 kA I_n)

■ 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
- 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 lbs. (9.07 kg) *

*Internal disconnect options and other NEMA ratings may increase enclosure size and weight



UL 1449 3rd Edition SPD

SIEMENS

- 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, 50 kA MOVs
 - 10 year warranty
- SPD Monitoring
 - LED indicators
 - Audible alarm with silence switch and test button
 - Dry contacts
- Available Options
 - Surge counter
 - Internal rotary disconnect switch
 - Thru-door disconnect switch
 - NEMA 4X non-metallic enclosure
 - NEMA 4X stainless steel enclosure
 - Flush mount enclosure
 - NEMA 1 enclosure with extended display❷
- Available Accessories
 - RMSIE = Remote monitor
- Key Bid Specifications
 - UL 1449 3rd Edition – 2009, cUL
 - Type 2 SPD❶
 - Protection modes on L-N, L-G, L-L, N-G
 - I_n Rating – 20 kA
 - Short Circuit Current Rating – 200 kA
 - Surge Current Rating

Per Phase = L-N	+ L-G	+ L-L	
150 kA	50 kA	50 kA	50 kA

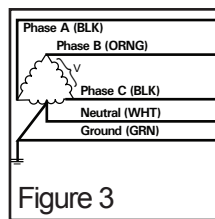
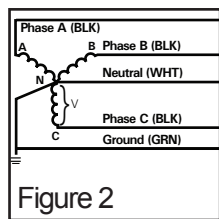
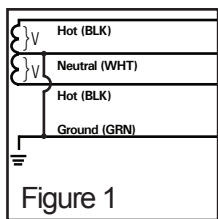
Ordering Information

Catalogue # TPS3 L12 2

Voltage Code	Surge Current (kA)	Enclosure	Options
A = 120/240V, 1Ø, 3W (Fig 1)	15 = 150 kA per phase	0 = Standard NEMA 1/12/3R/4 steel	D = UL98 internal rotary disconnect
B = 120/240V, 3Ø, 4W (Fig 3)	30 = 300 kA per phase	V = NEMA 4X non-metallic	T = UL98 thru-door disconnect
C = 120/208V, 3Ø, 4W (Fig 2)	45 = 450 kA per phase	S = NEMA 4X stainless steel	X = Surge counter
E = 277/480V, 3Ø, 4W (Fig 2)		F = NEMA 1 flush mount	
K = 380/220V, 3Ø, 4W (Fig 2)		P = NEMA 1 screwcover pullbox with extended display on 6 ft cable for line side mounting in SWBD/SWGR	
S = 400/230V, 3Ø, 4W (Fig 2)			

- Example: TPS3CL12150XD2 = 10 Mode, Type 2 SPD 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
- When an option is not selected, include a zero (0) in the field

UL 1449 3rd Edition - 2009 Test Data Summary									
Voltage Protection Rating (VPR - 6kV, 3 kA)❸									
Voltage Code	Service Voltage	L-N	L-G	N-G	L-L	Type❶	I _n	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	700	700	700	1000	Type 2	20 kA	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	800 / 1500	700 / 1200	700	1800/1800	Type 2	20 kA	200 kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1000	Type 2	20 kA	200 kA	150
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 2	20 kA	200 kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 2	20 kA	200 kA	320
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 2	20 kA	200 kA	320



Notes:

- ❶ Type 1 UL
- ❷ For line side mounting in SWBD/SWGR
- ❸ VPR may increase when disconnect switch is added
VPR may decrease for 450 kA per phase

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