

TPS3 L5

True 10 Mode Protection

Surge Protection Device (SPD)

for S5 & F2 Powerpanels and SMP, FC1, FC2 Distribution Switchboards

Features:

- Mounts internal to:
 - S5 & F2 powerpanels and distribution switchboards
- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD (Type 2 cUL)
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA I_n (most models)
- 200 kA SCCR (most models)
- All UL required OCP & safety coordination included

- Panelboard
 - Copper or aluminum bus
 - MB or MLO

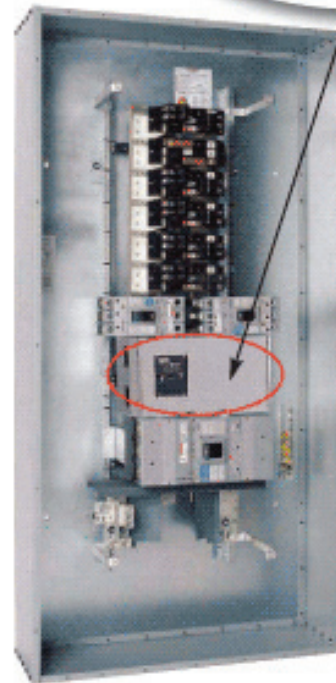
- Switchboard Features
 - Copper or aluminum bus
 - 200% rated neutral bus for harmonic-rich applications
 - CSA, UL 891, UL 67 and NEMA PB-2

- Applications
 - Provides main service or downstream protection for sensitive computer and electronic loads
 - Standard redundancy use: 150 kA per phase
 - Maximum redundancy use: 300 kA per phase

- 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	N-G
150 kA	50 kA	50 kA	50 kA
300 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
 - Repetitive impulse: 5,000 hits
 - Less than ½ 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)



UL 1449 3rd Edition SPD

SIEMENS





- SPD Features
 - UL 1449 3rd Edition effective September 2009
 - Designed, manufactured & tested consistent with:
 - ANSI/IEEE C62.41.1-2002, C62.41.2-2002, and C62.45-2002
 - 1992/2000 NEMA LS-1
 - NEC® Article 285
 - IEC 61643, CE
 - Large block, individually fused, thermally protected, 50 kA MOVs
 - Direct bus connected or can be wired to a circuit breaker (include W option)
 - 10 year warranty

- SPD Monitoring
 - LED indicators
 - Audible alarm with silence switch and test button
 - Dry contacts
 - Internal rotary disconnect switch

- Available Options
 - Surge counter

- Available Accessories
 - RMSIE = Remote monitor
- Key Specifications
 - UL 1449 3rd Edition - 2009, cUL
 - Type 2 SPD❶
 - Audible alarm with silence switch and test button
 - Dry Contacts
 - EMI/RFI Filtering
 - 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

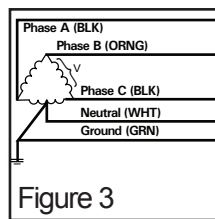
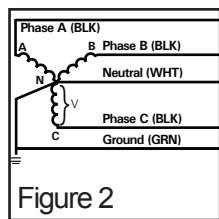
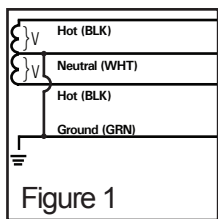
Catalogue # TPS3  L5    2

Voltage Code Surge Current (kA) Options

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

- Example: TPS3CL530X2 = 10 mode, Type 2 SPD for a 208/120V Power Panel with a surge current capacity of 300 kA per phase and a surge counter 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)									
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	1200	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)	1500	1200	1200	1800	Type 2	20 kA	200 kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1500	1200	1200	1800	Type 2	20 kA	200 kA	320
S	400/230V, 3Ø, 4W (Fig 2)	1500	1200	1200	1800	Type 2	20 kA	200 kA	320



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Notes:
 ❶ Type 1 UL