

TPS3 01

Surge Protection Device (SPD)

for P1, P2 Lighting Panelboards and P3 Power Distribution Panelboards, Motor Control Centers and Busway Systems

Features:

- Mounts internal to:
 - P1, P2 and P3 panels
 - TIASTAR motor control centers - standard 6" bucket
 - STP series busplug on SX series busway
- Consult factory for field retrofit in P1 panels
- UL 1449 3rd Edition Recognized – 2009
- UL 1283
- Type 4 SPD intended for use in Type 1 applications (Type 2, cUL)
- UL Type 1 tested with all internal OCP and safety coordination features included
- Large block, individually fused, thermally protected, 50kA MOV's
- 20kA I_n (most models)
- 200kA SCCR (most models)

■ Applications

- Provides main service or downstream protection for sensitive computer and electronic loads
 - Standard redundancy use: 100kA per phase
 - Increased redundancy use: 200kA per phase
 - Maximum redundancy use: 300kA per phase

■ SPD Specification

- Surge Current Rating Per Phase

Per Phase	L-N	L-G	N-G
100kA	50kA	50kA	50kA
150kA	100kA	50kA	50kA
200kA	100kA	100kA	100kA
250kA	150kA	100kA	100kA
300kA	150kA	150kA	150kA

- 100% monitoring – Every MOV is monitored, incl. N-G
- EMI/RFI filtering: Active tracking up to -50db from 10kHz to 100MHz
- Repetitive impulse: 5,000 hits
- Less than ½ nanosecond response time
- Relative humidity range: 1-95% non-condensing
- Operating frequency: 47-63Hz
- 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, 50kA MOV's

- SPD Features
- Direct bus connected or can be wired to a circuit breaker (include W option)
- 10 year warranty
- Standard Monitoring
- LED indicators
- Audible alarm with silence switch and test button
- Dry contacts
- Available Options
- Surge counter
- Terminal lug for circuit breaker connection

- Key Bid Specifications
 - UL 1449 3rd Edition Recognized - 2009
 - UL 1283
 - 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 - 20kA
 - Short Circuit Current Rating - 200kA
 - Surge Current Rating
- | | | | | |
|-----------|---|------|---|------|
| Per Phase | = | L-N | + | L-G |
| 100kA | | 50kA | | 50kA |

Ordering Information

Catalog # TPS3 01

<p><u>Voltage Code</u></p> <p>A = 120/240V, 1Ø, 3W (Fig 1)</p> <p>B = 120/240V, 3Ø, 4W (Fig 3)</p> <p>C = 120/208V, 3Ø, 4W (Fig 2)</p> <p>D = 240V, 3Ø, 3W (Fig 4)</p> <p>E = 277/480V, 3Ø, 4W (Fig 2)</p> <p>F = 480V, 3Ø, 3W (Fig 4)</p> <p>G = 600V, 3Ø, 3W (Fig 4) ❶</p> <p>K = 380/220V, 3Ø, 4W (Fig 2)</p> <p>L = 600/347V, 3Ø, 4W (Fig 2)</p> <p>S = 400/230V, 3Ø, 4W (Fig 2)</p>	<p><u>Surge Current (kA)</u></p> <p>10 = 100kA per phase</p> <p>15 = 150kA per phase</p> <p>20 = 200kA per phase</p> <p>25 = 250kA per phase</p> <p>30 = 300kA per phase</p>	<p><u>Options</u></p> <p>B = Busway application</p> <p>M = MCC application</p> <p>W = Terminal lug</p> <p>X = Surge counter</p>
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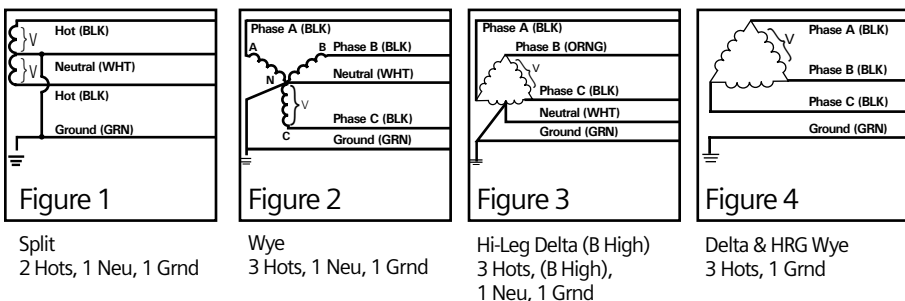
- Example: TPS3C0120X00 = SPD for a 208/120V panelboard with a surge current capacity of 200kA per phase and a surge counter option

- 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	In	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	700	700	700	1200	Type 4	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	700 / 1200	700 / 1200	700	1800 / 1800	Type 4	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1200	Type 4	20kA	200kA	150
D	240V, 3Ø, 3W (Fig 4)		1200		1200	Type 4	10kA	200kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 4	20kA	200kA	320
F	480V, 3Ø, 3W (Fig 4)		1800		1800	Type 4	10kA	200kA	550
G	600V, 3Ø, 3W (Fig 4)		2500		2500	Type 4	10kA	200kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 4	20kA	200kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	Type 4	10kA	200kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 4	20kA	200kA	320



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Notes:
 ❶ Available 100kA & 150kA only