

TPS3 03

Type 1 Surge Protective Device (SPD) Mounts External to Electrical Distribution Equipment

Features:

- UL 1449 3rd Edition – 2009, cUL
 - Type 1 SPD (Type 1 cUL)
 - Mounts external to electrical distribution equipment
 - Recommended for Line Side or Load Side Applications
 - Bracket included for multiple mounting options
 - 20kA I_n (most models)
 - 200kA SCCR (most models)
 - 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
50kA	50kA
 - 100% monitoring – Every MOV is monitored
 - Individually fused and thermally protected MOV's
 - Solid state bi-directional operation
 - 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 4X polycarbonate enclosure (UL 746C (f1), UL 94-5VA)
 - Wire size: Prewired with 3' (91.4cm) of #10 AWG
 - Standard size: 3.25" x 3.25" x 3.3" (82.6mm x 82.6mm x 83.8mm)
 - Standard weight: 2 lbs. (0.9 kg)



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

SPD Features

- Large-block 34mm square MOV's
- 2 year warranty

SPD Monitoring

- LED indicators

Available Options

- Dry contacts & audible alarm

Key Bid Specifications

- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD
- Protection modes on L-N/L-G, L-L
- I_n Rating – 20kA
- Short Circuit Current Rating – 200kA
- Surge Current Rating – 50kA per phase

Ordering Information

Catalog #

TPS3 03

Voltage Code

- A = 120/240V, 1Ø, 3W (Fig 1)
- B = 120/240V, 3Ø, 4W (Fig 3)
- C = 120/208V, 3Ø, 4W (Fig 2)
- D = 240V, 3Ø, 3W (Fig 4)
- E = 277/480V, 3Ø, 4W (Fig 2)
- F = 480V, 3Ø, 3W (Fig 4)
- G = 600V, 3Ø, 3W (Fig 4)
- K = 380/220V, 3Ø, 4W (Fig 2)
- L = 600/347V, 3Ø, 4W (Fig 2)

Surge Current (kA)

05 = 50kA per phase

Options

D = Dry contact & audible alarm

- Example: TPS3C0305D = Type 1 SPD for a 208/120V application with a surge current capacity of 50kA per phase, in a standard NEMA 4X enclosure with dry contacts and audible alarm option
- When an option is not selected, include a zero (0) in the field

Available accessories: Must be 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	L-L	Type*	I_n	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	600	1000	Type 1	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	600 / 1200	1000 / 1500	Type 1	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	600	1000	Type 1	20kA	200kA	150
D	240V, 3Ø, 3W (Fig 4)	1200	1500	Type 1	20kA	200kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	2000	Type 1	20kA	200kA	320
F	480V, 3Ø, 3W (Fig 4)	1800	3000	Type 1	10kA	200kA	552
G	600V, 3Ø, 3W (Fig 4)	2500	2500	Type 1	20kA	200kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	2000	Type 1	20kA	200kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	2500	Type 1	20kA	200kA	420

* Type 2 cUL

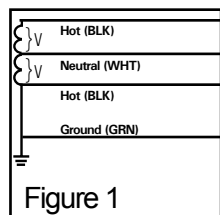


Figure 1

Split
2 Hots, 1 Neu, 1 Grnd

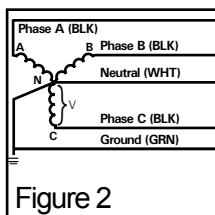


Figure 2

Wye
3 Hots, 1 Neu, 1 Grnd

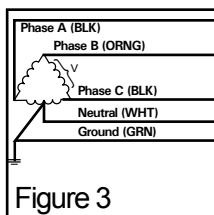


Figure 3

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

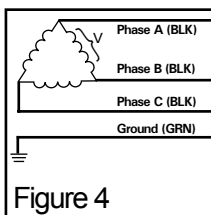


Figure 4

Delta & HRG Wye
3 Hots, 1 Grnd

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

TPS3 09

Type 1 Surge Protective Device (SPD)

Mounts External to Electrical Distribution Equipment or Internal to P1, P2 Lighting Panelboards, P3 Power Panelboards and Busway Systems

Features:

- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD (Type 2 cUL)
- Mounts external to electrical distribution equipment
 - Weatherproof hub included
- Mounts internal to P1 panelboards & busway
 - P1 - Field retrofit or factory install
 - P2 and P3 - Factory install only
 - Consult factory for field retrofit*
- Large block, individually fused, thermally protected, 50kA MOV's
- 20kA I_n (most models)
- 200kA SCCR (most models)
- 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
100kA	50kA	50kA	50kA

 - 100% monitoring – Every MOV is monitored, incl. N-G
 - Individually fused and thermally protected MOV's
 - Solid state bi-directional operation
 - 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 4X polycarbonate enclosure (UL 746C (f1), UL 94-5VA)
 - Wire size: Prewired with 3' (91.4cm) of #10 AWG
 - Standard size: 8" x 3" x 3" (203mm x 76mm x 76mm)
 - Standard weight: 3 lbs. (1.4 kg)



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

SPD Features

- Large block, individually fused, thermally protected, 50kA MOV's
- 10 year warranty

SPD Monitoring

- LED indicators

Available Options

- Dry contacts & audible alarm

Key Bid Specifications

- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD (Type 2 cUL)
- 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 09

Voltage Code

- A = 120/240V, 1Ø, 3W (Fig 1)
- B = 120/240V, 3Ø, 4W (Fig 3)
- C = 120/208V, 3Ø, 4W (Fig 2)
- D = 240V, 3Ø, 3W (Fig 4)
- E = 277/480V, 3Ø, 4W (Fig 2)
- F = 480V, 3Ø, 3W (Fig 4)
- G = 600V, 3Ø, 3W, (Fig 2)
- K = 380/220V, 3Ø, 4W (Fig 2)
- L = 600/347V, 3Ø, 4W (Fig 2)
- S = 400/230V, 3Ø, 4W (Fig 2)

Surge Current (kA)

- 10 = 100kA per phase

Options

- E = Extended indicator light
- I = Internal mounting in P1, P2 panels*
- D = Dry contact & audible alarm

*Requires TPS9IKITP1 or TPS9IKITP2 mounting bracket accessory, see below

- Example: TPS3C0910D00 = SPD for a 208/120V panelboard with a surge current capacity of 100kA per phase with standard NEMA 4X enclosure, dry contacts and audible alarm option.

- Available for field retrofit in P1 panels

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

Available accessories: Must be ordered separately

- RMSIE = Remote monitor
- FMKITC = Flush mount plate
- TPS9IKITP1 = Mounting bracket for installation in P1 panels
- TPS9IKITP2 = Mounting bracket for installation in P2 panels

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)	600	700	500	1000	Type 1	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	600 / 1200	700 / 1200	500	1000/ 1000	Type 1	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	600	700	500	1000	Type 1	20kA	200kA	150
D	240V, 3Ø, 3W (Fig 4)		1200		1200	Type 1	20kA	200kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1000	1800	Type 1	20kA	200kA	320
F	480V, 3Ø, 3W (Fig 4)		1800		1800	Type 1	10kA	200kA	552
G	600V, 3Ø, 3W (Fig 2)		2500		2500	Type 1	10kA	200kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1000	1800	Type 1	20kA	200kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	Type 1	10kA	200kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1000	1800	Type 1	20kA	200kA	320

* Type 2 cUL

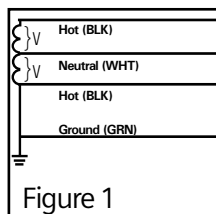


Figure 1
Split
2 Hots, 1 Neu, 1 Grnd

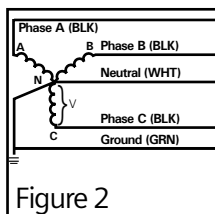


Figure 2
Wye
3 Hots, 1 Neu, 1 Grnd

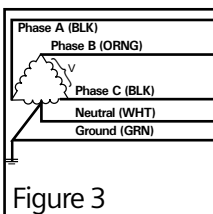


Figure 3
Hi-Leg Delta (B High)
3 Hots, (B High),
1 Neu, 1 Grnd

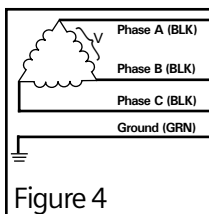


Figure 4
Delta & HRG Wye
3 Hots, 1 Grnd

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

TPS3 11

Type 1 Surge Protective Device (SPD) Mounts External to Electrical Distribution Equipment

Features:

- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD (Type 2 cUL)
- Mounts external to electrical distribution equipment
- Large block, individually fused, thermally protected, 50kA MOV's
- 20kA I_n (most models)
- 200kA SCCR (most models)
- 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 |
|-----------|-------|-------|-------|
| 100kA | 50kA | 50kA | 50kA |
| 150kA | 100kA | 50kA | 50kA |
| 200kA | 100kA | 100kA | 100kA |
- 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 4X polycarbonate enclosure (UL 746C (f1), UL 94-5VA)
- Wire size: #8 AWG to #10 AWG
- Standard size: 6" x 6" x 4" (152mm x 152mm x 102mm)
- Standard weight: 5 lbs. (2.27kg)



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

SPD Features

- Large block, individually fused, thermally protected, 50kA MOV's
- 10 year warranty

SPD Monitoring

- LED indicators

Available Options

- Dry contacts & audible alarm

Key Bid Specifications

- UL 1449 3rd Edition – 2009, cUL
- UL 1283
- Type 1 SPD
- 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 11

Voltage Code

A = 120/240V, 1Ø, 3W (Fig 1)

B = 120/240V, 3Ø, 4W (Fig 3)

C = 120/208V, 3Ø, 4W (Fig 2)

D = 240V, 3Ø, 3W (Fig 4)

E = 277/480V, 3Ø, 4W (Fig 2)

F = 480V, 3Ø, 3W (Fig 4)

G = 600V, 3Ø, 3W (Fig 4)*

K = 380/220V, 3Ø, 4W (Fig 2)

L = 600/347V, 3Ø, 4W (Fig 2)

S = 400/230V, 3Ø, 4W (Fig 2)

Surge Current (kA)

10 = 100kA per phase

15 = 150kA per phase

20 = 200kA per phase

Options

D = Dry contacts & audible alarm

- Example: TPS3C1110D = Type 1 SPD for a 208/120V application with a surge current capacity of 100kA per phase, in a standard NEMA 4X enclosure with dry contacts and audible alarm option

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

- *Available in 100kA per phase only

Available Accessories: Must be ordered separately

- RMSIE = Remote monitor
- KITFMXF = Flush mount plate

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	600	1000	Type 1	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	700 / 1200	700 / 1200	600	1000	Type 1	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	600	1000	Type 1	20kA	200kA	150
D	240V, 3Ø, 3W (Fig 4)		1200		2000	Type 1	20kA	200kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 1	20kA	200kA	320
F	480V, 3Ø, 3W (Fig 4)		1800		2000	Type 1	10kA	200kA	552
G	600V, 3Ø, 3W (Fig 4)		2500		2500	Type 1	10kA	200kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 1	20kA	200kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	Type 1	10kA	200kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 1	20kA	200kA	320

* Type 2 cUL

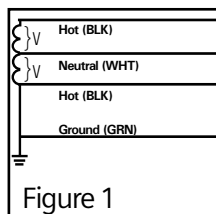


Figure 1
Split
2 Hots, 1 Neu, 1 Grnd

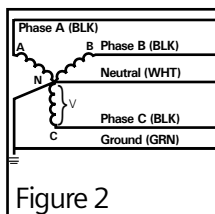


Figure 2
Wye
3 Hots, 1 Neu, 1 Grnd

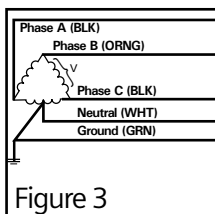


Figure 3
Hi-Leg Delta (B High)
3 Hots, (B High),
1 Neu, 1 Grnd

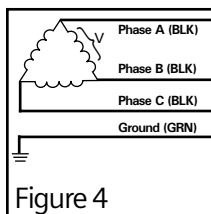


Figure 4
Delta & HRG Wye
3 Hots, 1 Grnd

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

TPS3 12

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

Features:

- 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, 50kA MOV's
- 20kA I_n (most models)
- 200kA SCCR (most models)
- Provides 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
100kA	50kA	50kA	50kA
150kA	100kA	50kA	50kA
200kA	100kA	100kA	100kA
250kA	150kA	100kA	100kA
300kA	150kA	150kA	150kA
400kA	200kA	200kA	200kA
500kA	250kA	250kA	250kA

- 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
- Wire size: #8 AWG to 1/0
- Standard size: 12" x 12" x 7" (305mm x 305mm x 178mm) *
- 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, 50kA MOV's
- 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 display*

*For line side mounting in SWBD/SWGR

Key Bid Specifications

- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD
- 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 12

Voltage Code

A = 120/240V, 1Ø, 3W (Fig 1)
B = 120/240V, 3Ø, 4W (Fig 3)
C = 120/208V, 3Ø, 4W (Fig 2)
D = 240V, 3Ø, 3W (Fig 4)*
E = 277/480V, 3Ø, 4W (Fig 2)
F = 480V, 3Ø, 3W (Fig 4)*
G = 600V, 3Ø, 3W (Fig 4)**
K = 380/220V, 3Ø, 4W (Fig 2)
L = 600/347V, 3Ø, 4W (Fig 2)
S = 400/230V, 3Ø, 4W (Fig 2)

Surge Current (kA)

10 = 100kA per phase
15 = 150kA per phase
20 = 200kA per phase
25 = 250kA per phase
30 = 300kA per phase
40 = 400kA per phase
50 = 500kA per phase

Enclosure

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

Options

D = Internal rotary disconnect
T = Thru-door disconnect
X = Surge counter

- Example: TPS3C12100XD = Type 1 SPD 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

- *Not available in 500kA

- **Available in 100kA, 150kA, 200kA & 250kA only

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

Available accessories: Must be 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*	I _n	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	700	700	700	1200	Type 1	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	700 / 1200	700 / 1200	700	1800/1800	Type 1	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1200	Type 1	20kA	200kA	150
D	240V, 3Ø, 3W (Fig 4)		1200		1200	Type 1	20kA	200kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 1	20kA	200kA	320
F	480V, 3Ø, 3W (Fig 4)		1800		1800	Type 1	10kA	200kA	552
G	600V, 3Ø, 3W (Fig 4)		2500		2500	Type 1	10kA	200kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 1	20kA	200kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	Type 1	10kA	200kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 1	20kA	200kA	320

- VPR may increase when disconnect switch is added

- VPR may decrease for products 400 & 500kA per phase

* Type 2 cUL

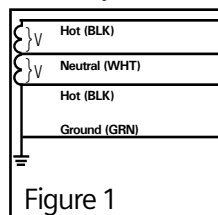


Figure 1

Split
2 Hots, 1 Neu, 1 Grnd

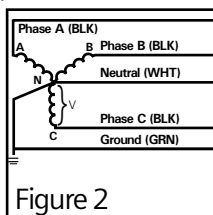


Figure 2

Wye
3 Hots, 1 Neu, 1 Grnd

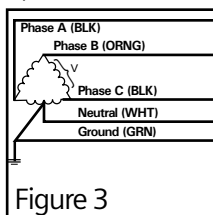


Figure 3

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

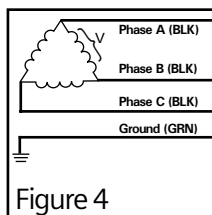


Figure 4

Delta & HRG Wye
3 Hots, 1 Grnd

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

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, 50kA MOV's
- 20kA I_n (most models)
- 200kA 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 (@20kA 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 |
|-----------|-------|-------|-------|-------|
| 150kA | 50kA | 50kA | 50kA | 50kA |
| 300kA | 100kA | 100kA | 100kA | 100kA |
| 450kA | 150kA | 150kA | 150kA | 150kA |
- 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
- Wire size: #8 AWG to 1/0
- Standard size: 12" x 12" x 7" (305mm x 305mm x 178mm) *
- 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, 50kA MOV's
- 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 display*

*For line side mounting in SWBD/SWGR

Key Bid Specifications

- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD
- 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 + L-L
150kA 50kA 50kA 50kA

ORDERING INFORMATION

Catalog # TPS3  L12     

Voltage Code	Surge Current (kA)	Enclosure	Options
A = 120/240V, 1Ø, 3W (Fig 1)	15 = 150kA per phase	0 = Standard NEMA 1/12/3R/4 steel	D = UL98 internal rotary disconnect
B = 120/240V, 3Ø, 4W (Fig 3)	30 = 300kA per phase	V = NEMA 4X non-metallic	T = UL98 thru-door disconnect
C = 120/208V, 3Ø, 4W (Fig 2)	45 = 450kA 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: TPS3CL12150XD = 10 Mode, Type 1 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

Available accessories: Must be 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	I_n	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	700	700	700	1000	Type 1	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	800 / 1500	700 / 1200	700	1800/1800	Type 1	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1000	Type 1	20kA	200kA	150
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 1	20kA	200kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 1	20kA	200kA	320
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 1	20kA	200kA	320

- VPR may increase when disconnect switch is added
- VPR may decrease for products 450kA per phase

* Type 2 cUL

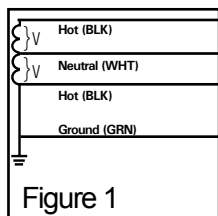


Figure 1

Split
2 Hots, 1 Neu, 1 Grnd

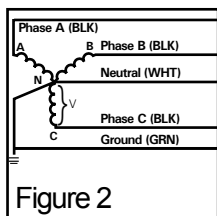


Figure 2

Wye
3 Hots, 1 Neu, 1 Grnd

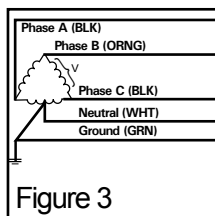


Figure 3

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

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

TPS3 15

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

Features:

- 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
- 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

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, 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 display*
 - *For line side mounting in SWBD/SWGR

Key Bid Specifications

- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD
- 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

- A = 120/240V, 1Ø, 3W (Fig 1)
- B = 120/240V, 3Ø, 4W (Fig 3)
- C = 120/208V, 3Ø, 4W (Fig 2)
- D = 240V, 3Ø, 3W (Fig 4)**
- E = 277/480V, 3Ø, 4W (Fig 2)
- F = 480V, 3Ø, 3W (Fig 4)**
- G = 600V, 3Ø, 3W (Fig 4)***
- K = 380/220V, 3Ø, 4W (Fig 2)
- L = 600/347V, 3Ø, 4W (Fig 2)
- S = 400/230V, 3Ø, 4W (Fig 2)

Surge Current (kA)

- 40 = 400kA per phase*
- 50 = 500kA per phase*
- 60 = 600kA per phase
- 80 = 800kA per phase
- 1K = 1000kA per phase

Enclosure

- 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 5ft cable for line side mounting in SWBD/SWGR

Options

- T = Thru-door disconnect
- X = Surge counter

- 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

- *Available in G voltage code only

- **Available in 600k & 800k only

- ***Available in 400k & 500k only

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

Available accessories: Must be 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)	600	600	700	1000	Type 1	20kA	200kA	150
B	120/240V, 3Ø, 4W (Fig 3)	600 / 1000	600 / 1000	700	1000	Type 1	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	600	600	700	1000	Type 1	20kA	200kA	150
D	240V, 3Ø, 3W (Fig 4)		1000		1800	Type 1	20kA	200kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1100	1000	1000	1800	Type 1	20kA	200kA	320
F	480V, 3Ø, 3W (Fig 4)		1800		1800	Type 1	20kA	200kA	550
G	600V, 3Ø, 3W (Fig 4)		2500		2500	Type 1	20kA	200kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1100	1000	1000	1800	Type 1	20kA	200kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	Type 1	20kA	200kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1100	1000	1000	1800	Type 1	20kA	200kA	320

* Type 2 cUL

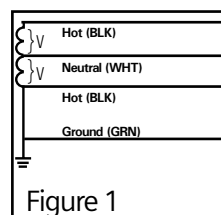


Figure 1

Split
2 Hots, 1 Neu, 1 Grnd

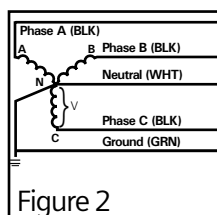


Figure 2

Wye
3 Hots, 1 Neu, 1 Grnd

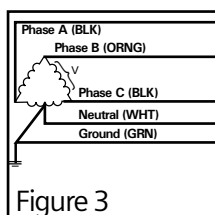


Figure 3

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

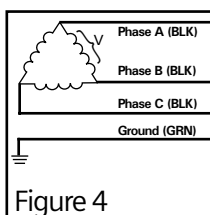


Figure 4

Delta & HRG Wye
3 Hots, 1 Grnd

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

TPS3 L15

True 10 Mode Protection

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

Features:

- 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
- 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)
- Single TPS6 style replaceable modules
- Provides redundant replaceable module protection for medium to high exposure applications
- Internal rotary disconnect switch included
- All UL-required OCP & safety coordination included
- UL96A Lightning Protection Master Label compliant (@20kA In)
- 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
600kA	300kA	300kA	300kA	300kA
900kA	450kA	450kA	450kA	450kA
 - 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

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, 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 display*

*For line side mounting in SWBD/SWGR

Key Bid Specifications

- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD
- 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 + L-L
600kA 200kA 200kA 200kA

Ordering Information

Catalog #

TPS3  L15  

Voltage Code

- A = 120/240V, 1Ø, 3W (Fig 1)
- 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)

Surge Current (kA)

- 60 = 600kA per phase
- 90 = 900kA per phase

Enclosure

- 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 6 ft cable for line side mounting in SWBD/SWGR

Options

- T = Thru-door disconnect
- X = Surge counter

- Example: TPS3CL15600X0 = 10 Mode, Type 1 SPD for a 208/120V application with a surge current capacity of 600kA per phase, in a standard NEMA 1/12/3R/4 enclosure with a surge counter option
- When an option is not selected, include a zero (0) in the field

Available accessories: Must be 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)	600	600	700	1000	Type 1	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	600 / 1100	600 / 1000	700	1000/1800	Type 1	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	600	600	700	1000	Type 1	20kA	200kA	150
E	277/480V, 3Ø, 4W (Fig 2)	1100	1000	1000	1800	Type 1	20kA	200kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1100	1000	1000	1800	Type 1	20kA	200kA	320
S	400/230V, 3Ø, 4W (Fig 2)	1100	1000	1000	1800	Type 1	20kA	200kA	320

* Type 2 cUL

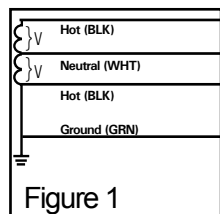


Figure 1

Split
2 Hots, 1 Neu, 1 Grnd

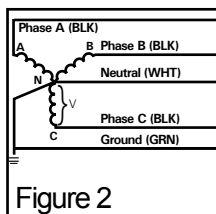


Figure 2

Wye
3 Hots, 1 Neu, 1 Grnd

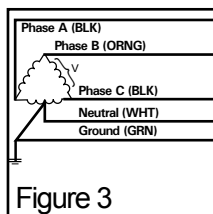


Figure 3

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

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

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 – 2009, cUL
- 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 1/2 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 - 2009, cUL
- 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

Voltage Code

A = 120/240V, 1Ø, 3W (Fig 1)
 B = 120/240V, 3Ø, 4W (Fig 3)
 C = 120/208V, 3Ø, 4W (Fig 2)
 D = 240V, 3Ø, 3W (Fig 4)
 E = 277/480V, 3Ø, 4W (Fig 2)
 F = 480V, 3Ø, 3W (Fig 4)
 G = 600V, 3Ø, 3W (Fig 4)*
 K = 380/220V, 3Ø, 4W (Fig 2)
 L = 600/347V, 3Ø, 4W (Fig 2)
 S = 400/230V, 3Ø, 4W (Fig 2)

Surge Current (kA)

10 = 100kA per phase
 15 = 150kA per phase
 20 = 200kA per phase
 25 = 250kA per phase
 30 = 300kA per phase

Options

B = Busway application
 M = MCC application
 W = Terminal lug
 X = Surge counter

- Example: TPS3C0120X00 = SPD for a 208/120V panelboard with a surge current capacity of 200kA per phase and a surge counter option

- *Available 100kA & 150kA only

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

Available accessories: Must be 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

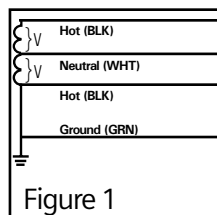


Figure 1

Split
2 Hots, 1 Neu, 1 Grnd

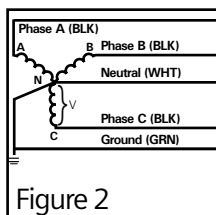


Figure 2

Wye
3 Hots, 1 Neu, 1 Grnd

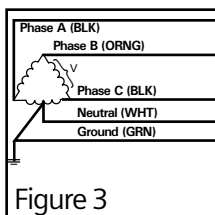


Figure 3

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

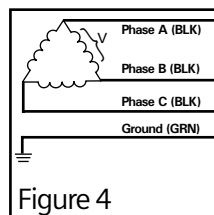


Figure 4

Delta & HRG Wye
3 Hots, 1 Grnd

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

TPS3 L1

True 10 Mode Protection

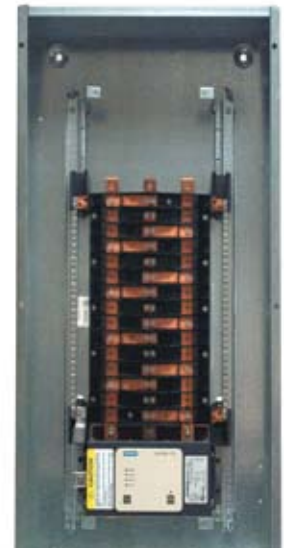
Surge Protection Device (SPD)

for P1, P2 Lighting 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 – 2009, cUL
- 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
- 200kA SCCR (most models)
- Applications
 - Provides main service or downstream protection for sensitive computer and electronic loads
 - Standard redundancy use: 150kA per phase
 - Maximum redundancy use: 300kA 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	L-L	N-G
150kA	50kA	50kA	50kA	50kA
300kA	100kA	100kA	100kA	100kA
 - 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

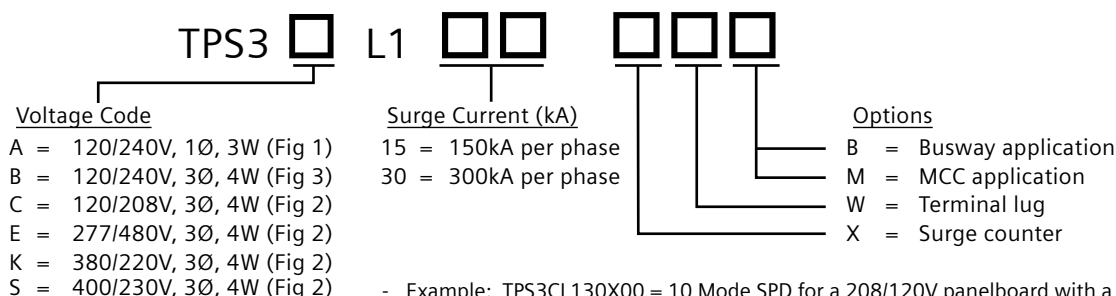
- Direct bus connected or can be wired to a circuit breaker (include W option)
- 10 year warranty
- Standard Monitoring
 - LED indicators
 - Audible alarm with silence switch and test button
 - Dry contacts
- Available Options
 - Surge counter
 - Terminal lug for circuit breaker connection

■ Key Bid Specifications

- UL 1449 3rd Edition - 2009, cUL
- Audible alarm with silence switch and test button
- Dry contacts
- EMI/RFI filtering
- Protection modes on L-N, L-G, L-L, N-G
- In Rating - 20kA
- Short Circuit Current Rating - 200kA
- Surge Current Rating
 - Per Phase = L-N + L-G + L-L
 - 150kA 50kA 50kA 50kA

Ordering Information

Catalog #



- Example: TPS3CL130X00 = 10 Mode SPD for a 208/120V panelboard with a surge current capacity of 300kA per phase and a surge counter option
- When an option is not selected, include a zero (0) in the field

Available accessories: Must be 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	1000	Type 4	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	800 / 1500	700 / 1200	700	1800 / 1800	Type 4	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1000	Type 4	20kA	200kA	150
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 4	20kA	200kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 4	20kA	200kA	320
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 4	20kA	200kA	320

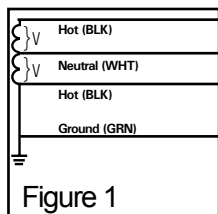


Figure 1

Split
2 Hots, 1 Neu, 1 Grnd

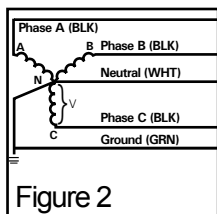


Figure 2

Wye
3 Hots, 1 Neu, 1 Grnd

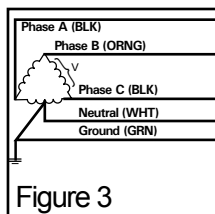


Figure 3

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

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

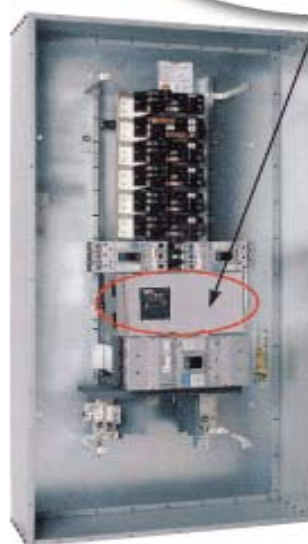
TPS3 05

Surge Protection Device (SPD) for P4 & P5 Panelboards and Distribution Switchboards

Features:

- Mounts internal to:
 - P4 & P5 panelboards and distribution switchboards
 - UL 1449 3rd Edition – 2009, cUL
 - Type 1 SPD (Type 2 cUL)
 - Large block, individually fused, thermally protected, 50kA MOV's
 - 20kA I_n (most models)
 - 200kA SCCR (most models)
 - All UL-required OCP & safety coordination included
-
- Panelboard Features
 - 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: 100kA per phase
 - Increased redundancy use: 200kA per phase
 - Maximum redundancy use: 300kA per phase
 - SPD Specifications
 - 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 / Monitoring

- LED indicators
- Audible alarm with silence switch and test button
- Dry contacts
- Internal rotary disconnect switch
- 10 year warranty

Available Options

- Surge counter

Key Bid Specifications

- UL 1449 3rd Edition - 2009, cUL
- 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 05

Voltage Code

- A = 120/240V, 1Ø, 3W (Fig 1)
- B = 120/240V, 3Ø, 4W (Fig 3)
- C = 120/208V, 3Ø, 4W (Fig 2)
- D = 240V, 3Ø, 3W (Fig 4)
- E = 277/480V, 3Ø, 4W (Fig 2)
- F = 480V, 3Ø, 3W (Fig 4)
- G = 600V, 3Ø, 3W (Fig 4)*
- K = 380/220V, 3Ø, 4W (Fig 2)
- L = 600/347V, 3Ø, 4W (Fig 2)
- S = 400/230V, 3Ø, 4W (Fig 2)

Surge Current (kA)

- 10 = 100kA per phase
- 15 = 150kA per phase
- 20 = 200kA per phase
- 25 = 250kA per phase
- 30 = 300kA per phase

Options

- X = Surge counter

- Example: TPS3C0530X = SPD for a 208/120V power panel with a surge current capacity of 300kA per phase and a surge counter option

- *Available 100kA & 150kA only

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

Available accessories: Must be 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)	800	700	700	1200	Type 1	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	800 / 1500	700 / 1200	700	1800 / 1800	Type 1	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	800	700	700	1200	Type 1	20kA	200kA	150
D	240V, 3Ø, 3W (Fig 4)		1200		1500	Type 1	20kA	200kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1500	1200	1200	2500	Type 1	20kA	200kA	320
F	480V, 3Ø, 3W (Fig 4)		1800		1800	Type 1	10kA	200kA	552
G	600V, 3Ø, 3W (Fig 4)		2500		2500	Type 1	10kA	200kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1500	1200	1200	2500	Type 1	20kA	200kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	Type 1	10kA	200kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1500	1200	1200	2500	Type 1	20kA	200kA	320

* Type 2 cUL

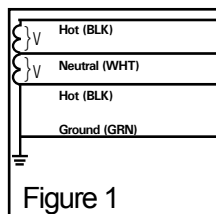


Figure 1

Split
2 Hots, 1 Neu, 1 Gmd

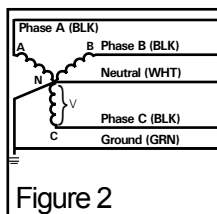


Figure 2

Wye
3 Hots, 1 Neu, 1 Gmd

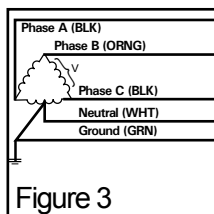


Figure 3

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

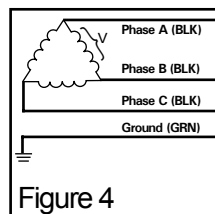


Figure 4

Delta & HRG Wye
3 Hots, 1 Gmd

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

TPS3 L5

True 10 Mode Protection

Surge Protection Device (SPD) for P4 & P5 Panelboards and Distribution Switchboards

Features:

- Mounts internal to:
 - P4 & P5 panelboards and distribution switchboards
- UL 1449 3rd Edition – 2009, cUL
- Type 1 SPD (Type 2 cUL)
- Large block, individually fused, thermally protected, 50kA MOV's
- 20kA I_n (most models)
- 200kA 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: 150kA per phase
 - Maximum redundancy use: 300kA 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
150kA	50kA	50kA	50kA
300kA	100kA	100kA	100kA
- 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
- Direct bus connected or can be wired to a circuit breaker (include W option)
- 10 year warranty

■ SPD Features / Monitoring

- LED indicators
- Audible alarm with silence switch and test button
- Dry contacts
- Internal rotary disconnect switch
- 10 year warranty

■ Available Options

- Surge counter

■ Key Specifications

- UL 1449 3rd Edition - 2009, cUL
- 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	+	L-L
150kA		50kA		50kA		50kA

Ordering Information

Catalog

TPS3 L5

Voltage Code

A = 120/240V, 1Ø, 3W (Fig 1)

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)

Surge Current (kA)

15 = 150kA per phase

30 = 300kA per phase

Options

X = Surge Counter

- Example: TPS3CL530X = 10 mode SPD for a 208/120V Power Panel with a surge current capacity of 300kA per phase and a surge counter option
 - When an option is not selected include, a zero (0) in the field

Available accessories: Must be 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 1	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	800 / 1500	700 / 1200	700	1800/1800	Type 1	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1000	Type 1	20kA	200kA	150
E	277/480V, 3Ø, 4W (Fig 2)	1500	1200	1200	1800	Type 1	20kA	200kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1500	1200	1200	1800	Type 1	20kA	200kA	320
S	400/230V, 3Ø, 4W (Fig 2)	1500	1200	1200	1800	Type 1	20kA	200kA	320

* Type 2 cUL

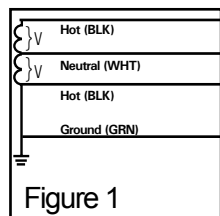


Figure 1

Split
2 Hots, 1 Neu, 1 Grnd

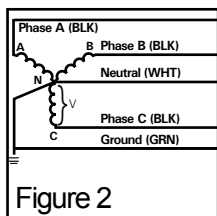


Figure 2

Wye
3 Hots, 1 Neu, 1 Grnd

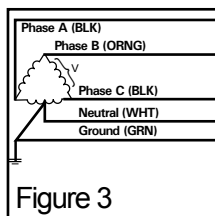


Figure 3

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

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

TPS3 06

Surge Protection Device (SPD)

for Service Entrance Applications – SB1, SB2, SB3, Type RCS Switchboards, Type WL Low Voltage Switchgear, Motor Control Centers and Busway Systems

Features:

- Mounts internal to:
 - SB1, SB2, SB3 & Type RCS switchboards
 - Type WL low voltage switchgear
 - TIASTAR motor control centers - standard 12" bucket
 - STP series busplug on SX series busway
- UL 1449 3rd Edition – 2009, cUL
- 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)
- Rotary disconnect switch included
- All UL-required OCP & safety coordination included
- Applications
 - Provides main service entrance or downstream protection for sensitive computer and electronic loads
 - Standard redundancy use: 300kA per phase
 - Increased redundancy use: 400kA per phase
 - Maximum redundancy use: 500kA per phase

■ SPD Specifications

- 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
400kA	200kA	200kA	200kA
500kA	250kA	250kA	250kA

- 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 / Monitoring

- LED indicators
- Audible alarm with silence switch and test button
- Dry contacts
- Rotary disconnect switch
- 10 year warranty

Available Options

- Surge counter

Key Bid Specifications

- UL 1449 3rd Edition - 2009, cUL
- 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
300kA 150kA 150kA

Ordering Information

Catalog #

TPS3 06

Voltage Code

- A = 120/240V, 1Ø, 3W (Fig 1)
- B = 120/240V, 3Ø, 4W (Fig 3)
- C = 120/208V, 3Ø, 4W (Fig 2)
- D = 240V, 3Ø, 3W (Fig 4) *
- E = 277/480V, 3Ø, 4W (Fig 2)
- F = 480V, 3Ø, 3W (Fig 4) *
- G = 600V, 3Ø, 3W (Fig 4) **
- K = 380/220V, 3Ø, 4W (Fig 2)
- L = 600/347V, 3Ø, 4W (Fig 2)
- S = 400/230V, 3Ø, 4W (Fig 2)

Surge Current (kA)

- 10 = 100kA per phase
- 15 = 150kA per phase
- 20 = 200kA per phase
- 25 = 250kA per phase
- 30 = 300kA per phase
- 40 = 400kA per phase
- 50 = 500kA per phase

Options

- B = Busway application
- M = MCC application
- X = Surge counter

- Example: TPS3C0640X0 = SPD for a 208/120V switchboard with a surge current capacity of 400kA per phase and a surge counter option

- *Not available in 500k

- **Available in 100k, 150k, 200k & 250k only

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

Available accessories: Must be 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 / 275
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	20kA	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	20kA	200kA	550
G*	600V, 3Ø, 3W (Fig 4)		2500		2500	Type 4	20kA	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	20kA	200kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	Type 4	20kA	200kA	320

- * I_n rating for 100 - 300kA per phase is 10kA

- VPR may increase when disconnect switch is added

- VPR may decrease for products 400 & 500kA per phase

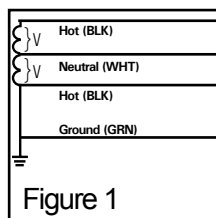


Figure 1

Split
2 Hots, 1 Neu, 1 Gmd

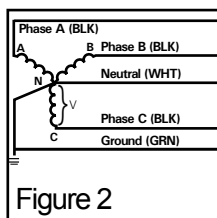


Figure 2

Wye
3 Hots, 1 Neu, 1 Gmd

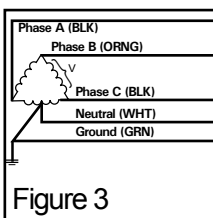


Figure 3

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

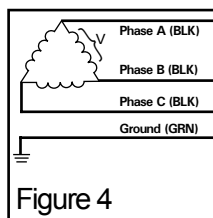


Figure 4

Delta & HRGWye
3 Hots, 1 Gmd

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RPFL-IADT1-0809 (New)

www.usa.siemens.com/spd

TPS3 L6

True 10 Mode Protection

Surge Protection Device (SPD)

for Service Entrance Applications – SB1, SB2, SB3, Type RCS Switchboards, Type WL Low Voltage Switchgear, Motor Control Centers and Busway Systems

Features:

- Mounts internal to:
 - SB1, SB2, SB3 & Type RCS switchboards
 - Type WL low voltage switchgear
 - TIASTAR motor control centers - standard 12" bucket
 - STP series busplug on SX series busway
- UL 1449 3rd Edition – 2009, cUL
- 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
- 200kA SCCR (most models)
- Rotary disconnect switch included
- All UL-required OCP & safety coordination included
- Applications
 - Provides main service entrance or downstream protection for sensitive computer and electronic loads
 - Standard redundancy use: 300kA per phase
 - Maximum redundancy use: 450kA per phase
- SPD Specifications
 - Surge Current Rating Per Phase

Per Phase	L-N	L-G	L-L	N-G
150kA	50kA	50kA	50kA	50kA
300kA	100kA	100kA	100kA	100kA
450kA	150kA	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

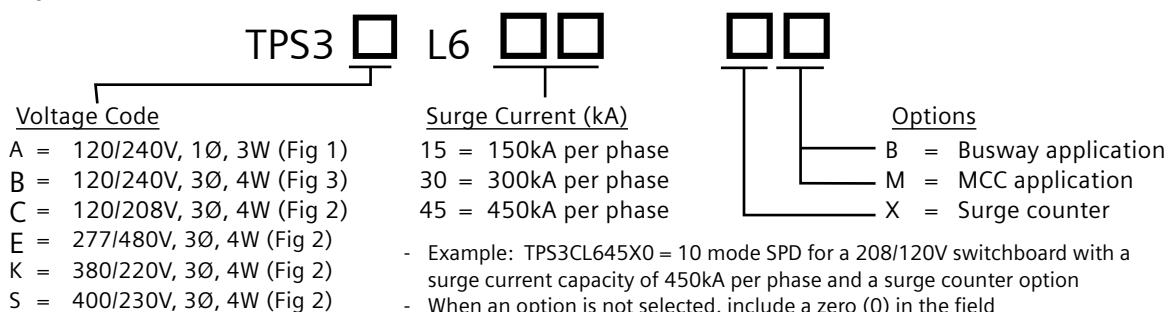
SIEMENS

- 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 / Monitoring
 - LED indicators
 - Audible alarm with silence switch and test button
 - Dry contacts
 - Rotary disconnect switch
 - 10 year warranty
- Available Options
 - Surge counter
- Key Bid Specifications
 - UL 1449 3rd Edition - 2009, cUL
 - 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	+	L-L
300kA	100kA		100kA		100kA

Ordering Information

Catalog #



Available accessories: Must be ordered separately

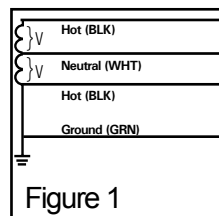
- RMSIE = Remote Monitor

UL 1449 3rd Edition - 2009 Test Data Summary

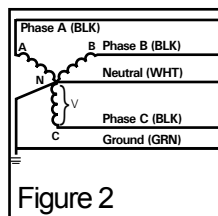
Voltage Protection Rating (VPR - 6kV, 3kA)

VOLTAGE CODE	SERVICE VOLTAGE	L-N	L-L	N-G	L-L	TYPE	I_n	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	700	700	700	1000	Type 4	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	800 / 1500	700 / 1200	700	1800/1800	Type 4	20kA	200kA	150 / 275
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1000	Type 4	20kA	200kA	150
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 4	20kA	200kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 4	20kA	200kA	320
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	Type 4	20kA	200kA	320

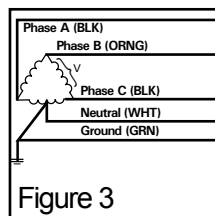
- VPR may increase when disconnect switch is added
- VPR may decrease for products 450kA per phase



Split
2 Hots, 1 Neu, 1 Grnd



Wye
3 Hots, 1 Neu, 1 Grnd



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

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RPFL-IADT1-0809 (New)

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