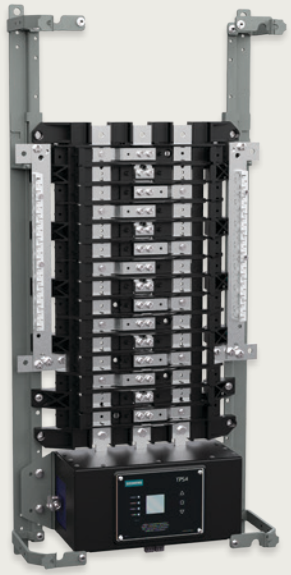


FOR LIGHTING PANELS, BUSWAY AND MCC

TPS4 01/L1 Surge Protection Devices

siemens.ca/powerdistribution

Product specifications

General specifications	
Maximum surge current rating range	Standard - 100kA to 500kA per phase 10 Mode - 150kA to 750kA per phase
UL Type designation	SPD Type 1 and 2
UL 1449 & CSA C22.2 No. 269 I-nominal rating	20kA
UL 1449 & CSA C22.2 No. 269 short circuit current rating	200kA
Repetitive impulse	5,000 hits
Response time	< 1/2 ns

Physical specifications	
Humidity range	0-95% non-condensing
Operating frequency	47-63Hz
Operating temperature	-25°C to +60°C
Dimensions in inches (mm)	9.25" (235) x 4.50" (114.3) x 4.29" (109)
Weight	4.55 lbs (2064 g)
Neutral/ground connection	#8 AWG

Diagnostic monitoring specifications
Green LEDs per phase
Red service LED
Audible alarm with silence switch
Form C dry contact, 240V, 5A
Event counter with time and date stamp

Design specifications
Stacked distribution grade MOV design
Integrated optimized thermal protection
Mounts internal to: RP1, P2, P3 TIASTAR MCC 6" Bucket (M option) STP Series Busplug on SX Series Busway (B option)
Direct bus connection or wired breaker connection (W option)

SIEMENS

Model Number Catalog Logic

TPS4 01 SPD for "RP1", P2, P3 Lighting Panelboards, MCC and Busway General Suppressor Series

Please note: The TPS4 01 series is not suitable for use in the Original P1 Lighting Panels - Only Revised P1 Lighting Panels.

Catalog Number **TPS4 □ 01 □□ X □□□**

Voltage Code

A = 240/120V ,1Ø, 3W (Figure 1)**
B = 240/120V, 3Ø, 4W (Figure 3)
C = 208/120V, 3Ø, 4W (Figure 2)
W = 220/127V, 3Ø, 4W (Figure 2)
D = 240V, 3Ø, 3W (Figure 4)
E = 480/277V, 3Ø, 4W (Figure 2)
F = 480V, 3Ø, 3W (Figure 4)
G = 600V, 3Ø, 3W (Figure 4)*
K = 380/220V, 3Ø, 4W (Figure 2)
L = 600/347V, 3Ø, 4W (Figure 2)
S = 400/230V, 3Ø, 4W (Figure 2)
T = 415/240V, 3Ø, 4W (Figure 2)

**Not avilable in 300, 400 or 500kA versions*
***Can also be used on 208Y/120V, 1∅, 3W System.*

Surge Current Rating

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 (1 Alpha numeric Character)

X = Surge Counter (Standard)

0 = Standard Configuration (Default)
W = Terminal Lug

0 = Standard Configuration (Default)
B = Busway Application
M = MCC Application

2 = Type 2 SPD (Default) Includes UL 1283 EMI/RFI Filters
0 = Type 1 SPD

Example: TPS4C0120X000 =

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.

TPS4 L1 10 Mode SPD for "RP1", P2, P3 Lighting Panelboards, MCC and Busway General Suppressor Series

Please note: The TPS4 L1 series is not suitable for use in the Original P1 Lighting Panels - Only Revised P1 Lighting Panels.

Catalog Number **TPS4 □ L1 □□ X □□□**

Voltage Code

A = 240/120V ,1Ø, 3W (Figure 1)**
B = 240/120V, 3Ø, 4W (Figure 3)
C = 208/120V, 3Ø, 4W (Figure 2)
W = 220/127V, 3Ø, 4W (Figure 2)
E = 480/277V, 3Ø, 4W (Figure 2)
K = 380/220V, 3Ø, 4W (Figure 2)
L = 600/347V, 3Ø, 4W (Figure 2)*
S = 400/230V, 3Ø, 4W (Figure 2)
T = 415/240V, 3Ø, 4W (Figure 2)

**Not available in 450, 550 or 750kA versions*
***Can also be used on 208Y/120V, 1∅, 3W System.*

Surge Current Rating

15 = 150kA per phase
30 = 300kA per phase
45 = 450kA per phase
55 = 550kA per phase
75 = 750kA per phase

Options (1 Alpha numeric Character)

X = Surge Counter (Standard)

0 = Standard Configuration (Default)
W = Terminal Lug

0 = Standard Configuration (Default)
B = Busway Application
M = MCC Application

2 = Type 2 SPD (Default) Includes UL 1283 EMI/RFI Filters
0 = Type 1 SPD

Example: TPS4CL120X000 =

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.

Figure 1

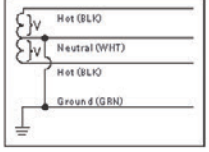


Figure 1: SPLIT
2 Hots, 1 Neu, 1 Grnd

Figure 2

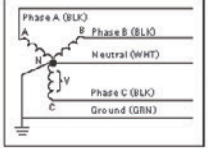


Figure 2: WYE
3 Hots, 1 Neu, 1 Grnd

Figure 3

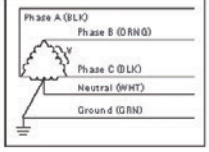


Figure 3: HI-LEG DELTA (B High)
3 Hots, (B HIGH), 1 Neu, 1 Grnd

Figure 4

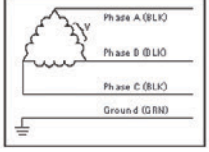


Figure 4: DELTA & HRG WYE
3 Hots, 1 Grnd

Voltage Code	System Voltage	L-N	L-G	L-L	N-G	MCOV
A	120/240V, 1Ø, 3W*	600	500	1200	500	150
B	240/120V, 3Ø, 4W	600/800	600/800	1200	500	150/320
C	208Y/120V, 3Ø, 4W	500	500	1000	500	150
W	220/127V, 3Ø, 4W	600	500	1200	500	150
D	240V, 3Ø, 3W	-	800	800	-	320
E	480Y/277V, 3Ø, 4W	1000	1000	2000	900	320
F	480V, 3Ø, 3W	-	1800	1800	-	550
G	600V, 3Ø, 3W	-	1800	1800	-	690
K	380Y/220V, 3Ø, 4W	900	900	1800	800	320
L	600Y/347V, 3Ø, 4W	1500	1200	2500	1200	420
S	400Y/230V, 3Ø, 4W	900	900	1800	800	320
T	415Y/240V, 3Ø, 4W	900	900	1800	800	320

**Can also be used on 208Y/120V, 1∅, 3W System.*

Modes of Protection

Standard TPS4 01	True 10-Mode (or discrete 10-mode) TPS4 L1*
• Includes 7 discrete modes of protection (L-N x3, L-G x3, N-G) and 3 indirect modes (L-L through N or G) • For WYE and Hi-leg delta systems only • Delta systems do not have as many possible modes	• Includes directly connected discrete protection elements between all possible modes providing true 10 mode protection. • MOVs are placed directly in the L-L mode as well as all other modes. • This full 10-mode protection is only achievable in Wye configurations (For 120/240 single phase TPS4 L1 provides all modes with 6-mode protection)

Discrete protection - There are directly connected MOVs in that mode of protection

Indirect protection - Protection through 2 MOVs (L-N-L or L-G-L)

** L1 surge protection devices are priced higher.*

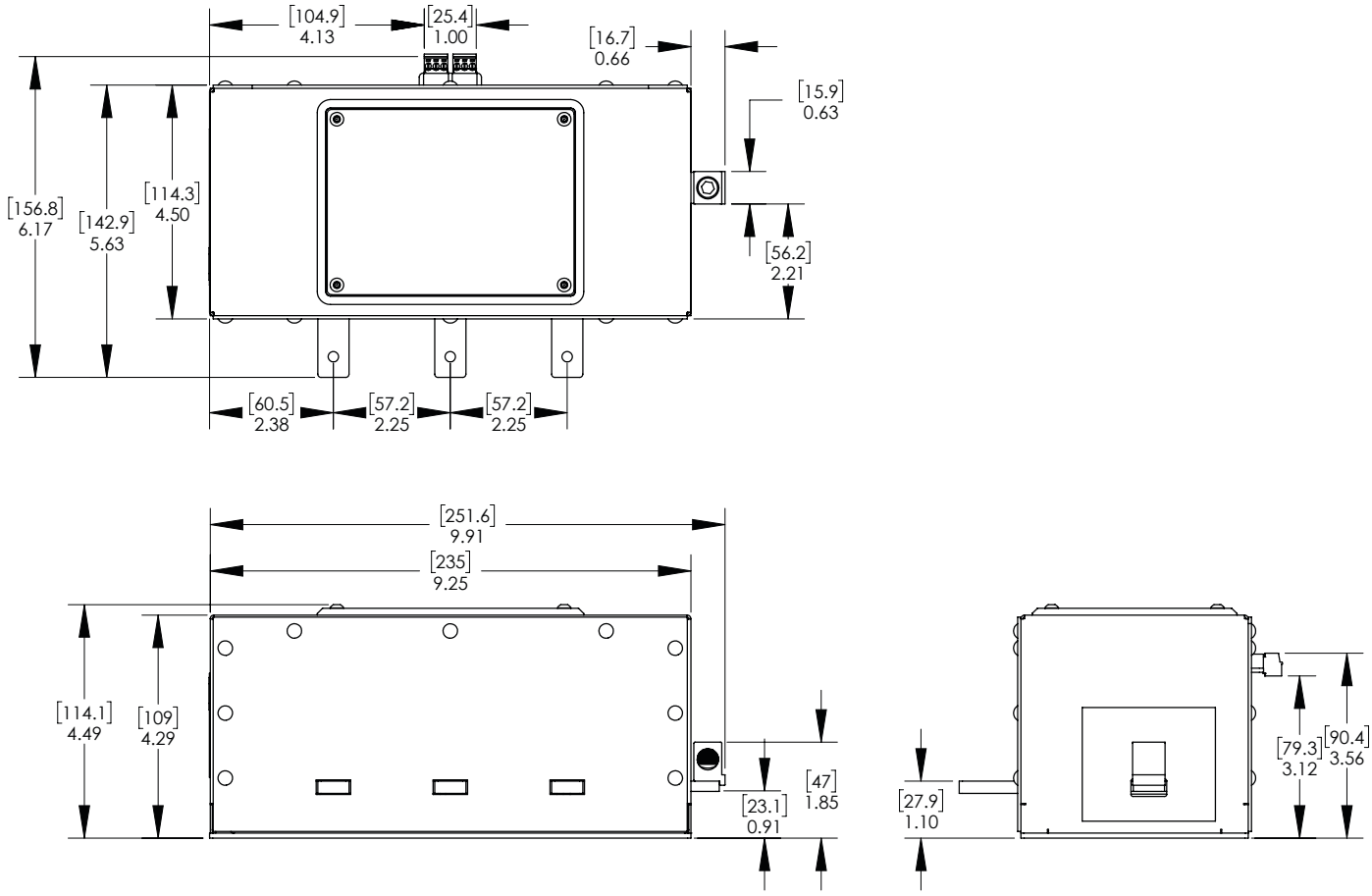
Standards compliance and certifications

UL 1449 4th Edition, cUL, UL1283, CSA22.2 NO 269.1&2 NEC Article 285, UL 96A Compliant, ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002

ISO 9001:2014 Quality Management System, ISO 17025:2007 Laboratory Certification (UL DAP Program), 100% Quality Tested prior to shipping

10-yr product warranty

Product Diagram [in millimeters] and inches



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