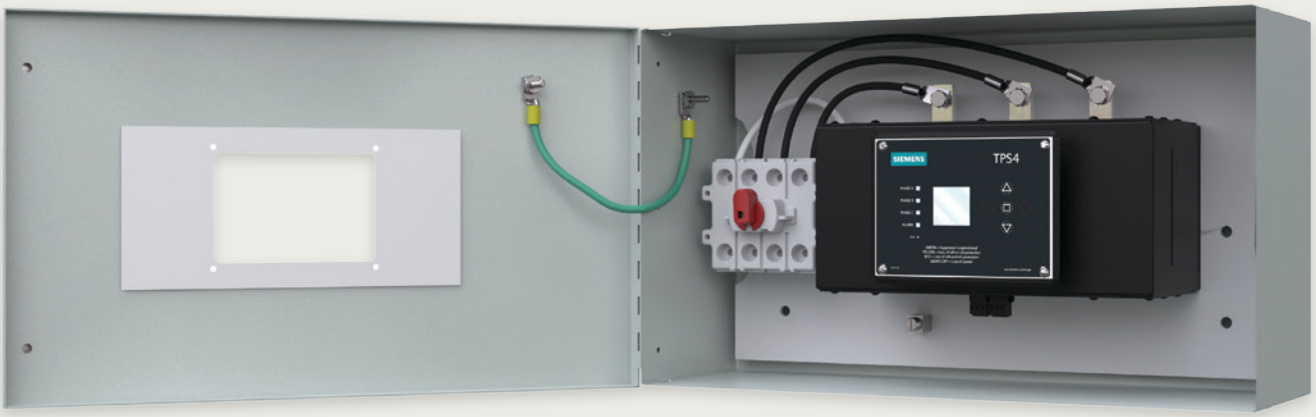


FOR POWER PANELS AND SWITCHBOARD DISTRIBUTION

TPS4 05/L5 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)	17.08" (433.8) x 9.99" (253.8) x 6.06" (153.9)
Weight	22 lbs (9979 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: Power Panels (S5, F2) Switchboard Distribution

SIEMENS

Model Number Catalog Logic

TPS4 05 SPD for S5, F2 Power Panelboards and Distribution Switchboards
General Suppressor Series

Catalog Number **TPS4** ☐ **05** ☐☐ **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*

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)

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

Example: TPS4C0520X2 =

SPD for a 208/120V panelboard with a surge current capacity of 200kA per phase and Type 2 SPD.

TPS4 L5 10 Mode SPD for P4, P5 Power Panelboards and Distribution Switchboards
General Suppressor Series

Catalog Number **TPS4** ☐ **L5** ☐☐ **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 avilable in 450, 550 or 750kA versions*

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)

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

Example: TPS4CL520X2 =

SPD for a 208/120V panelboard with a surge current capacity of 200kA per phase and Type 2 SPD.

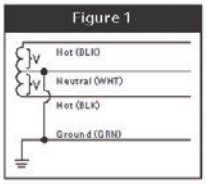


Figure 1: SPLIT
2 Hots, 1 Neu, 1 Grnd

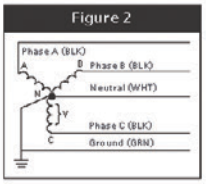


Figure 2: WYE
3 Hots, 1 Neu, 1 Grnd

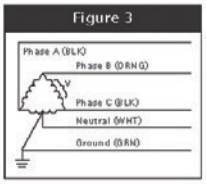


Figure 3: HI-LEG DELTA (B High)
3 Hots, (B HIGH),
1 Neu, 1 Grnd

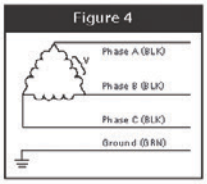


Figure 4: DELTA & HRG WYE
3 Hots, 1 Grnd

Voltage Code	System Voltage	L-N	L-G	L-L	N-G	MCOV
A	120/240V, 1Ø, 3W*	700	600	1000	600	150
B	240/120V, 3Ø, 4W	700/900	600/800	1200/1200	600	150/320
C	208Y/120V, 3Ø, 4W	600	500	900	500	150
W	220/127V, 3Ø, 4W	700	600	1000	600	150
D	240V, 3Ø, 3W	–	900	900	–	320
E	480Y/277V, 3Ø, 4W	1200	1000	1800	1000	320
F	480V, 3Ø, 3W	–	1800	1800	–	550
G	600V, 3Ø, 3W	–	1800	1800	–	690
K	380Y/220V, 3Ø, 4W	1000	900	1800	900	320
L	600Y/347V, 3Ø, 4W	1500	1500	2500	1200	420
S	400Y/230V, 3Ø, 4W	1000	900	1800	900	320
T	415Y/240V, 3Ø, 4W	1000	900	1800	900	320

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

Modes of Protection

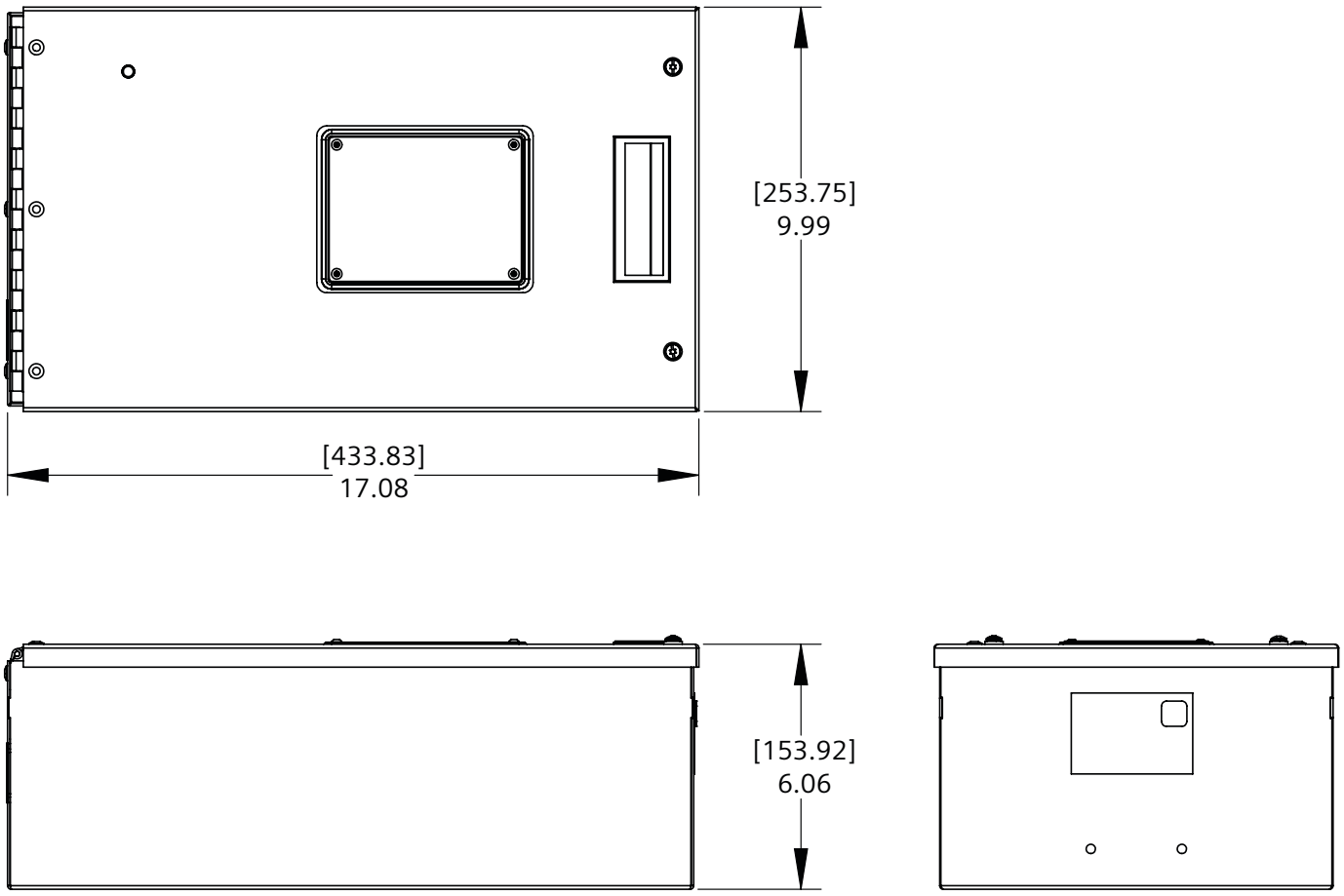
Standard TPS4 05	True 10-Mode (or discrete 10-mode) TPS4 L5*
• Includes 7 discrete modes of protection (L-N x3, L-G x3, N-G) and 3 indirect modes (L-L through N or G) • For WYE and Hi-leg delta systems only • Delta systems do not have as many possible modes	• Includes directly connected discrete protection 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 L5 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)	

** L5 surge protection devices are priced higher.*

Standards compliance and certifications

UL 1449, cUL, UL1283, UL 96A Compliant, CSA C22.2 No 269.1 & .2 ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, NEC Article 285
ISO 9001:2014 Quality Management System, ISO 17025:2007 Laboratory Certification (UL DAP Program), 100% Quality Tested prior to shipping
10-year product warranty

Product Diagram [in millimeters] and inches



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