

FOR EXTERNAL MOUNTING

TPS4 15/L15 Surge Protection Devices

siemens.ca/powerdistribution

Product specifications

General specifications	
Maximum surge current rating range	Standard -600kA to 1000kA per phase 10 Mode - 600kA to 900kA 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)	12" (305) x 12" (305) x 8.5" (216)
Weight	24.5 lbs (11,113 g)
Typical connection	#8 AWG up to 1/0 AWG via the disconnect
Enclsoure	NEMA 4 Metallic (other available)

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
External parallel connected for mounting next to electrical gear
Designed for high energy handling in up to Category C locations
Flush kits available as accessory

SIEMENS

Model Number Catalog Logic

TPS4 15 SPD for External Mounting
General Suppressor Series

Catalog Number TPS4 □ 15 □□ □ 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)

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

Surge Current Rating

60 = 600kA per phase
80 = 800kA per phase
1K = 1000kA per phase

Options (1 Alpha numeric Character)

0 = Standard NEMA 4 Metallic
S = NEMA 4X Stainless Steel
V = NEMA 4X non-metallic

X = Surge Counter (Standard)

T = Thru-door disconnect (Default)

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

Example: TPS4C15800XT2 =

SPD for a 208/120V with a surge current capacity of 800kA per phase and a surge counter and thru-door disconnect.

TPS4 L15 10 Mode SPD External Mounting
General Suppressor Series

Catalog Number TPS4 □ L15 □□ □ 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)

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

Surge Current Rating

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

Options (1 Alpha numeric Character)

0 = Standard NEMA 4 Metallic
S = NEMA 4X Stainless Steel
V = NEMA 4X non-metallic

X = Surge Counter (Standard)

T = Thru-door disconnect (Default)

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

Example: TPS4CL15900XT2 =

SPD for a 208/120V panelboard with a surge current capacity of 900kA per phase and a surge counter and thru-door disconnect.

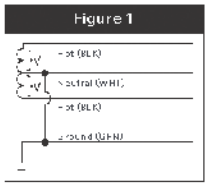


Figure 1: SPLIT
2 Hots, 1 Neu, 1 Grnd

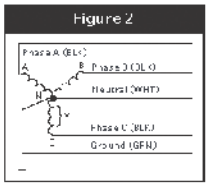


Figure 2: WYE
3 Hots, 1 Neu, 1 Grnd

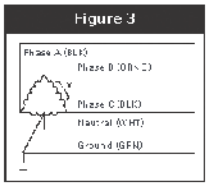


Figure 3: HI-LEG DELTA (B High)
3 Hots, (B HIGH), 1 Neu, 1 Grnd

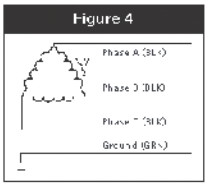


Figure 4: DELTA & HRG WYE
3 Hots, 1 Grnd

Voltage Code	System Voltage	L-N	L-G	L-L	N-G	MCOV
A	120/240V, 1Ø, 3W*	800	700	1200	700	180
B	240/120V, 3Ø, 4W	700/900	700/900	1200	700	150/275
C	208Y/120V, 3Ø, 4W	700	600	1000	600	150
W	220/127V, 3Ø, 4W	700	700	1200	700	180
D	240V, 3Ø, 3W	–	900	900	–	275
E	480Y/277V, 3Ø, 4W	1200	1200	2000	1000	350
F	480V, 3Ø, 3W	–	1800	1800	–	550
G	600V, 3Ø, 3W	–	1800	2000	–	680
K	380Y/220V, 3Ø, 4W	1200	1200	2000	1000	320
L	600Y/347V, 3Ø, 4W	1500	1500	2500	1200	440
S	400Y/230V, 3Ø, 4W	1200	1200	2000	1000	320
T	415Y/240V, 3Ø, 4W	1200	1200	2000	1000	320

Modes of Protection

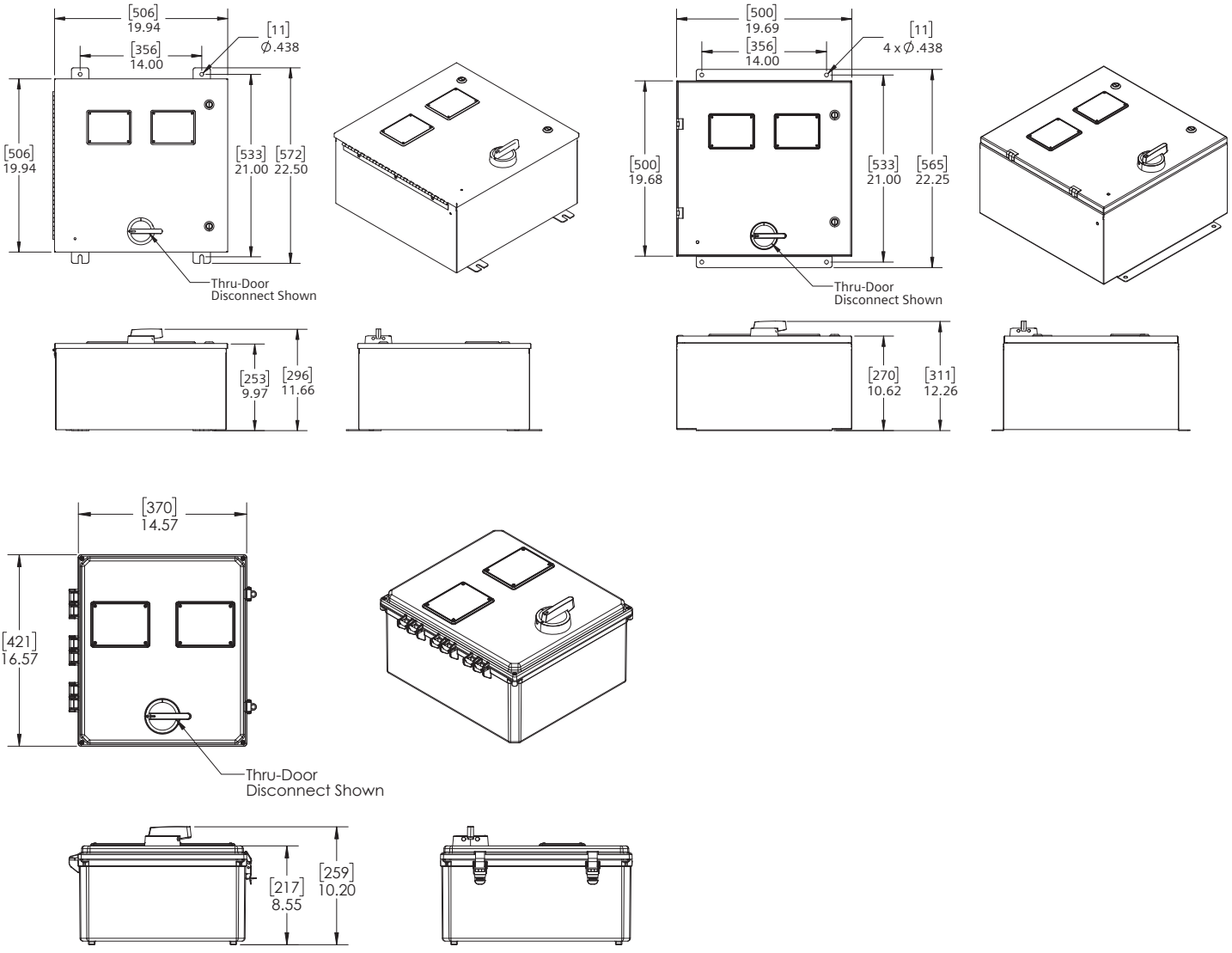
Standard TPS4 15	True 10-Mode (or discrete 10-mode) TPS4 L15*
• Includes 7 discrete modes of protection (L-N x3, L-G x3, N-G) and 3 indirect modes (L-L through N or G) • For WYE and Hi-leg delta systems only • Delta systems do not have as many possible modes	• Includes directly connected discrete protection 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 L15 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)	

** L15 surge protection devices are priced higher.*

Standards compliance and certifications

UL 1449 5th Edition, 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-yr product warranty

Product Diagram [in millimeters] and inches



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