



TPS3-12 AND TPS4-12

TPS Surge Protection Device Comparison

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SIEMENS

Features/Specifications	TPS3-12	TPS4-12
SCCR	200kA (most models)	200kA
I-nominal	20kA (most models)	20kA
UL & CSA	1449 listed	UL 1449 listed & CSA C22.2 No. 269
Modes of Protection	TPS3 12 Modes of Protection – L-N, L-G, N-G, and L-L	TPS4 12 includes 7 discrete modes of protection (L-N x3, L-G, X3, N-G)
	TPS3 L12 Modes of Protection – L-N, L-G, N-G, and L-L (directly connected L-L elements)	TPS4 L12 includes directly connected discrete protection elements between all possible modes providing true 10 mode
Suppression Architecture	–	Stacked distribution grade MOV design
EMI/RFI Filtering	Yes, Type 2	Yes, Type 2
SPD Type	Type 1 and 2	Type 1 and 2
Audible Alarms	Yes, with silence switch and test button	Yes, with silence switch
Visual Indicators	LED indicators	Green LEDs per phase, Red service LED
Dry Contacts	Yes	Yes
Warranty	10 year product warranty	10 year product warranty
Surge Current Rating	TPS3 12: 100 - 500kA per phase TPS3 L12: 150, 300, 450kA per phase	TPS4 12: 100-500kA per phase TPS4 L12: 150-750kA per phase
Monitoring	Surge counter	Event counter with time and date stamp
Mounting	Mounts external to electrical distribution equipment	External parallel connected for mounting next to electrical distribution equipment
Enclosure	Standard NEMA 1/12/3R/04 ANSI 61 steel enclosure	NEMA 4 Metallic, NEMA 4X Stainless Steel or non-metallic
System Voltages		
A	120/240 V, 1Ø, 3W	120/240 V, 1Ø, 3W
B	120/240 V, 3Ø, 4W	120/240 V, 3Ø, 4W
C	120/208 V, 3Ø, 4W	120/208 V, 3Ø, 4W
W	–	220/127 V, 3Ø, 4W
D	240 V, 3Ø, 3W*	240 V, 3Ø, 3W**
E	277/480 V, 3Ø, 4W	277/480 V, 3Ø, 4W
F	480 V, 3Ø, 3W*	480 V, 3Ø, 3W**
G	600 V, 3Ø, 3W*	600 V, 3Ø, 3W**
K	380/220 V, 3Ø, 4W	380/220 V, 3Ø, 4W
L	600/347 V, 3Ø, 4W*	600/347 V, 3Ø, 4W
S	400/230 V, 3Ø, 4W	400/230 V, 3Ø, 4W
T	–	415/240 V, 3Ø, 4W

* System voltage not available with TPS3 L12

** System voltage not available with TPS4 L12



TPS3 Surge Protection Device

Catalog No. TPS3 ☐ 12 ☐ ☐ ☐ ☐ ☐ ☐

Voltage Code

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

Surge Current (kA)

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

2 = Type 2 SPD (Default) Includes UL 1283 EMI/RFI Filters
 0 = Type 1 SD (Consult Factory Prior to Ordering)
 D = Internal rotary disconnect
 T = Thru-door disconnect
 X = Surge Counter (Standard)

Example: TPS3C12100XD2 = Type 2 SPD (Default) 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.

When option X, T, or D are NOT selected, include a zero (0) in the field.

Available Accessories: Ordered Separately

RMSIE = Remote monitor

① Not available in 500 kA

② Available in 100 kA, 150 kA, 200 kA & 250 kA only



TPS4 Surge Protection Device

Catalog No. TPS4 ☐ 12 ☐ ☐ ☐ 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)

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)

0 = Standard NEMA 4 Metallic
 S = NEMA 4X Stainless Steel
 V = NEMA 4X non-metallic
 X = Surge Counter (Standard)
 D = Integral Disconnect (Default)
 T = Thru-door disconnect
 2 = Type 2 SPD (Default) Includes UL 1283 EMI/RFI Filters
 0 = Type 1 SPD

Example: TPS4C12200XD2 =

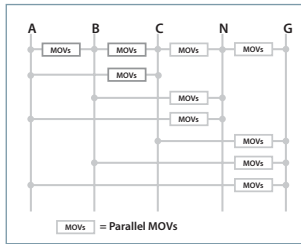
SPD for a 208/120V with a surge current capacity of 200kA per phase and a surge counter and integral disconnect.

*Not available in 300, 400 or 500kA versions

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

Voltage Protection Rating (how much surge gets passed the SPD to the load; lower is better)

TPS3-12						TPS4-12					
Voltage Code	System Voltage	L-N	L-G	L-L	N-G	Voltage Code	System Voltage	L-N	L-G	L-L	N-G
A	120/240V, 1Ø, 3W	700	700	1200	700	A	120/240V, 1Ø, 3W	800	700	1200	700
B	120/240V, 3Ø, 4W	700/1200	700/1200	1800/1800	700	B	120/240V, 3Ø, 4W	800/1000	700/900	1200/1500	700
C	120/208V, 3Ø, 4W	700	700	1200	700	C	120/208V, 3Ø, 4W	700	700	1200	700
–	–	–	–	–	–	W	220/127V, 3Ø, 4W	800	700	1200	700
D	240V, 3Ø, 3W	–	1200	1200	–	D	240V, 3Ø, 3W	–	900	1000	–
E	277/480V, 3Ø, 4W	1200	1200	2000	1200	E	277/480V, 3Ø, 4W	1200	1200	2000	1200
F	480V, 3Ø, 3W	–	1800	1800	–	F	480V, 3Ø, 3W	–	1800	1800	–
G	600V, 3Ø, 3W	–	2500	2500	–	G	600V, 3Ø, 3W	–	2000	2000	–
K	380/220V, 3Ø, 4W	1200	1200	2000	1200	K	380/220V, 3Ø, 4W	1200	1200	2000	1200
L	600/347V, 3Ø, 4W	1500	1500	2500	1500	L	600/347V, 3Ø, 4W	1500	1500	2500	1500
S	400/230V, 3Ø, 4W	1200	1200	2000	1200	S	400/230V, 3Ø, 4W	1500	1500	2500	1500
						T	415/240V, 3Ø, 4W	1200	1200	2000	1200



TPS3 Surge Protection Device

"True" or "Discrete"
10-Mode SPD

Catalog No. TPS3 ☐ 12 ☐ ☐ ☐ ☐ ☐ ☐

Voltage Code

A = 120/240 V, 1Ø, 3W
B = 120/240 V, 3Ø, 4W
C = 120/208 V, 3Ø, 4W
E = 277/480 V, 3Ø, 4W
K = 380/220 V, 3Ø, 4W
S = 400/230 V, 3Ø, 4W

Surge Current (kA)

15 = 150 kA per phase
30 = 300 kA per phase
45 = 450 kA 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

2 = Type 2 SPD
(Default)
Includes
UL 1283 EMI/
RFI Filters
0 = Type 1 SD
(Consult Factory
Prior to Ordering)

D = Internal rotary
disconnect
T = Thru-door
disconnect

X = Surge
Counter
(Standard)

Example: TPS3CL12150XD2 = 10 Mode, Type 2 SPD (Default) 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: Ordered Separately

RMSIE = Remote monitor

③ Internal disconnect options and other NEMA ratings may increase enclosure size and weight



TPS4 Surge Protection Device

Catalog No. TPS4 ☐ L12 ☐ ☐ ☐ 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)

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)

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

X = Surge Counter (Standard)

D = Integral Disconnect (Default)

T = Thru-door disconnect

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

Example: TPS4CL12300XT2 =

*Not available in 450, 550 or 750kA versions

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

SPD for a 208/120V panelboard with a surge current capacity of 300kA per phase and a surge counter and thru-door disconnect.

Voltage Protection Rating (how much surge gets passed the SPD to the load; lower is better)

TPS3-L12 "True" or Discrete" 10-Mode SPD						TPS4-L12 "True" or Discrete" 10-Mode SPD					
Voltage Code	System Voltage	L-N	L-G	L-L	N-G	Voltage Code	System Voltage	L-N	L-G	L-L	N-G
A	120/240V, 1Ø, 3W	700	700	1000	700	A	120/240V, 1Ø, 3W	800	700	1200	700
B	120/240V, 3Ø, 4W	800/1500	700/1200	1800/1800	700	B	120/240V, 3Ø, 4W	800/1000	700/900	1000/1500	700
C	120/208V, 3Ø, 4W	UL iQ values not listed	UL iQ values not listed	UL iQ values not listed	UL iQ values not listed	C	120/208V, 3Ø, 4W	700	700	900	700
–	–	–	–	–	–	W	220/127V, 3Ø, 4W	800	700	1200	700
E	277/480V, 3Ø, 4W	1200	1200	1800	1200	E	277/480V, 3Ø, 4W	1200	1200	1800	1200
K	380/220V, 3Ø, 4W	1200	1200	1800	1200	K	380/220V, 3Ø, 4W	1200	1200	2000	1200
–	–	–	–	–	–	L	600/347V, 3Ø, 4W	No UL iQ data	No UL iQ data	No UL iQ data	No UL iQ data
S	400/230V, 3Ø, 4W	1200	1200	1800	1200	S	400/230V, 3Ø, 4W	1200	1200	2000	1200
–	–	–	–	–	–	T	415/240V, 3Ø, 4W	1200	1200	1800	1200

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