

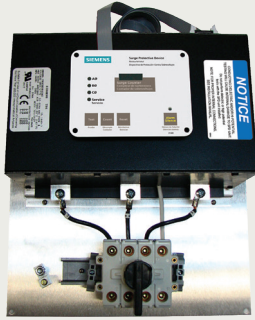


FOR SWITCHBOARDS AND LOW VOLTAGE SWITCHGEAR

TPS Surge Protection Device Comparison

usa.siemens.com/surge

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TPS3 Surge Protection Device

Catalog Number **TPS3** **06**

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[ⓐ]
 E = 277/480 V, 3Ø, 4W
 F = 480 V, 3Ø, 3W[ⓐ]
 G = 600 V, 3Ø, 3W[ⓐ]
 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

Options

X = Surge counter (Standard)

B = Busway application
M = MCC application

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

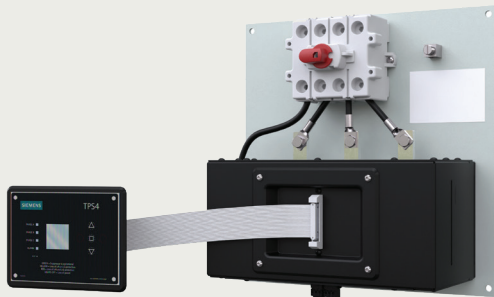
Example: TPS3C0120X002 =

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

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

[ⓐ] G voltage code only available in 200 & 250 kA

[ⓑ] Not available in 500 kA



TPS4 Surge Protection Device

Catalog Number **TPS4** **06** **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 available 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 Filters
0 = Type 1 SPD

Example: TPS4C0620X2 =

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

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| Features/Specifications | TPS3 | TPS4 |
|--------------------------------|---|---|
| SCCR | 200kA | 200kA |
| I-nominal | 20kA | 20kA |
| UL | 1449 recognized /1283 | 1449 listed /1283 |
| Modes of Protection (Standard) | L-N, L-G, N-G, L-L | L-N, L-G, N-G, L-L |
| | 7 discrete modes of protection (L-N x3, L-G x3, N-G) and 3 indirect modes (L-L through N or G) | 7 discrete modes of protection (L-N x3, L-G x3, N-G) and 3 indirect modes (L-L through N or G) |
| Modes of Protection (10 Mode) | L-N, L-G, N-G, L-L | L-N, L-G, N-G, L-L |
| | Directly connected discrete protection elements between all possible modes providing true 10 mode protection. | Directly connected discrete protection elements between all possible modes providing true 10 mode protection. |
| Suppression Architecture | Mersen TPMOV (Thermally Protected MOV) | Thermally Protected MOV Pill Stack |
| EMI/RFI Filtering | Yes, Type 2 Only | Yes, Type 2 Only |
| SPD Type | 1 & 2 | 1 & 2 |
| Audible Alarms | Yes | Yes |
| Visual Indicators | Green LEDs per phase & red service LED | Green LEDs per phase & red service LED |
| Dry Contacts | Yes | Yes |
| Diagnostics | Surge counter | Event counter and description with time & date stamp |
| Warranty | 10 Years | 10 Years |
| Surge Current Rating | Standard - 100kA – 500 kA | Standard - 100kA – 500kA |
| | 10 mode – 150kA – 450 kA | 10 mode – 150kA – 750kA |
| TPS Family | 06 - Switchboards and Low Voltage Switchgear, portion of Busway, portion of MCC | 06 - Switchboards and Low Voltage Switchgear |
| | | All MCC and Busway applications are covered with TPS4 01 |
| System Voltage | 120/240V, 1Ø, 3W | 120/240V, 1Ø, 3W |
| | 240/120V, 3Ø, 4W | 240/120V, 3Ø, 4W |
| | 208Y/120V, 3Ø, 4W | 208Y/120V, 3Ø, 4W |
| | | 220/127V, 3Ø, 4W |
| | 240V, 3Ø, 3W | 240V, 3Ø, 3W |
| | 480Y/277V, 3Ø, 4W | 480Y/277V, 3Ø, 4W |
| | 480V, 3Ø, 3W | 480V, 3Ø, 3W |
| | 600V, 3Ø, 3W | 600V, 3Ø, 3W |
| | 380Y/220V, 3Ø, 4W | 380Y/220V, 3Ø, 4W |
| | 600Y/347V, 3Ø, 4W | 600Y/347V, 3Ø, 4W |
| | 400Y/230V, 3Ø, 4W | 400Y/230V, 3Ø, 4W |
| | 415Y/240V, 3Ø, 4W | |

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

| TPS3 | | | | | | TPS4 | | | | | |
|--------------|-------------------|----------|----------|------|------|--------------|-------------------|---------|---------|-----------|------|
| 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 | 600 | 600 | 1000 | 600 |
| B | 240/120V, 3Ø, 4W | 700/1200 | 700/1200 | 1800 | 700 | B | 240/120V, 3Ø, 4W | 600/900 | 600/800 | 1200/1200 | 600 |
| C | 208Y/120V, 3Ø, 4W | 700 | 700 | 1200 | 700 | C | 208Y/120V, 3Ø, 4W | 600 | 500 | 900 | 600 |
| W | 220/127V, 3Ø, 4W | – | – | – | – | W | 220/127V, 3Ø, 4W | 600 | 600 | 1000 | 600 |
| D | 240V, 3Ø, 3W | – | 1200 | 1200 | – | D | 240V, 3Ø, 3W | – | 800 | 900 | – |
| E | 480Y/277V, 3Ø, 4W | 1200 | 1200 | 2000 | 1200 | E | 480Y/277V, 3Ø, 4W | 1000 | 1000 | 1800 | 1000 |
| F | 480V, 3Ø, 3W | – | 1800 | 1800 | – | F | 480V, 3Ø, 3W | – | 1800 | 1800 | – |
| G | 600V, 3Ø, 3W | – | 2500 | 2500 | – | G | 600V, 3Ø, 3W | – | 1800 | 1800 | – |
| K | 380Y/220V, 3Ø, 4W | 1200 | 1200 | 2000 | 1200 | K | 380Y/220V, 3Ø, 4W | 1000 | 900 | 1800 | 900 |
| L | 600Y/347V, 3Ø, 4W | 1500 | 1500 | 2500 | 1500 | L | 600Y/347V, 3Ø, 4W | 1500 | 1200 | 2500 | 1200 |
| S | 400Y/230V, 3Ø, 4W | 1200 | 1200 | 2000 | 1200 | S | 400Y/230V, 3Ø, 4W | 1000 | 900 | 1800 | 900 |
| T | 415Y/240V, 3Ø, 4W | – | – | – | – | T | 415Y/240V, 3Ø, 4W | 1000 | 900 | 1800 | 900 |

Legal Manufacturer

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