SIEMENS
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TPS3 L6

True 10 Mode Protection

Type 1 / 2 Surge Protection Device (SPD) for Service Entrance Applications – FC1, FC2 Switchboards, Type WL Low Voltage Switchgear, Motor Control Centers and Busway Systems

Features:

- Mounts internal to:
  - SB1, SB2, SB3 & Type RCS switchboards
  - Type WL low voltage switchgear
  - TIASTAR motor control centers - standard 12" bucket
  - STP series busplug on SX series busway
- UL 1449-4 Type 2 SPD, UL 1283 Listed, CSA 22.2 No. 269.2
- Optional UL 1449 4th Edition Listed Type 1, CSA 22.2 No. 269.1
- Type 1 / Type 2 SPD
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA I_n
- 200 kA SCCR (most models)
- Rotary disconnect switch included
- Designed, manufactured and tested consistent with:
  - ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, C62.62-2010, C62.72-2016 & CSA C22.2 No. 269.1 and .2
  - 1992/2000 NEMA LS-1
  - NEC Article 285
  - IEC 61643, CE
- All UL required OCP & safety coordination included
  - Type 1 SPDs intended for Line or Load side of Main Disconnect
  - Type 2 SPDs intended for Load side of Main Disconnect
- UL96A Lightning Protection Master Label compliant
- 10 year warranty

- SPD Specifications
  - Directly connected discrete protection elements between all possible modes providing true 10 mode protection
  - Surge Current Rating Per Phase

Per Phase	L-N	L-G	L-L	N-G
150 kA	50 kA	50 kA	50 kA	50 kA
300 kA	100 kA	100 kA	100 kA	100 kA
450 kA	150 kA	150 kA	150 kA	150 kA

  - 100% monitoring (Every MOV is monitored, incl. N-G)
  - EMI/RFI filtering: Active tracking up to -50 db from 10 kHz to 100 MHz (Type 2 option only, includes UL 1283 Listing)
  - Repetitive impulse: 5,000 hits
  - <½ nanosecond response time
  - Relative humidity range: 1-95% non-condensing
  - Operating frequency: 47-63 Hz
  - Operating temperature: -25°C (-15°F) to +60°C (140°F)

- Applications
  - Provides main service entrance or downstream protection for sensitive computer and electronic loads
  - Std. redundancy use: 300kA/phase
  - Max. redundancy use: 450kA/phase

- SPD Monitoring
  - LED indicators
  - Audible alarm with silence switch and test button
  - Dry contacts
  - Surge counter
  - Rotary disconnect switch

Ordering Information

TPS3 □ L6 □□ X □2

Voltage Code

A = 120/240V, 1Ø, 3W (Fig 1)
B = 120/240V, 3Ø, 4W (Fig 3)
C = 120/208V, 3Ø, 4W (Fig 2)
E = 277/480V, 3Ø, 4W (Fig 2)
K = 380/220V, 3Ø, 4W (Fig 2)
S = 400/230V, 3Ø, 4W (Fig 2)

Surge Current (kA)

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

X = Surge counter (Standard)

Options

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

0 = Standard config. (Defualt)
B = Busway application
M = MCC application

Example: TPS3CL645X02 = 10 mode Type 2 SPD (Default) for a 208/120V switchboard with a surge current capacity of 450 kA per phase and a surge counter

Available Accessories: Ordered Separately
RMSIE - Remote monitor

UL 1449 Fourth Edition - Test Data
Voltage Protection Rating (VPR - 6 kV, 3 kA) ❶

Voltage Code	Service Voltage	L-N	L-G	N-G	L-L	I_n	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	700	700	700	1000	20 kA	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	700 /1500	700 /1200	700	1000/1800	20 kA	200 kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1000	20 kA	200 kA	150
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	20 kA	200 kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	20 kA	200 kA	320
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	20 kA	200 kA	320

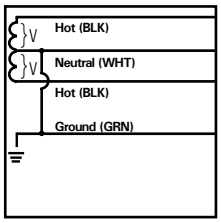

Figure 1
Split
2 Hots, 1 Neu, 1 Grnd

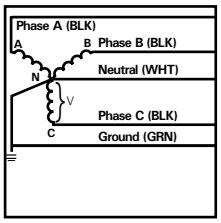

Figure 2
Wye
3 Hots, 1 Neu, 1 Grnd

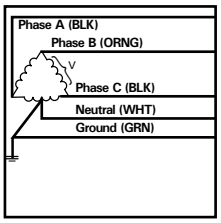

Figure 3
Hi-Leg Delta (B High)
3 Hots, (B High),
1 Neu, 1 Grnd

Notes:

❶ VPR may increase when disconnect switch is added
VPR may decrease for 450 kA per phase

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