



SIEMENS

Ingenuity for life

TPS3 L12

True 10 Mode Protection

Type 1 / Type 2 Surge Protective Device (SPD) For Line Side or Load Side Applications

Features:

- 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
- Mounts external to electrical distribution equipment
 - Recommended for line side or load side applications
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA I_n
- 200 kA SCCR (most models)
- Single TPS1 style replaceable modules
- Provides replaceable module protection for low to high exposure applications
- 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)
 - Individually fused and thermally protected MOVs
- Solid state bi-directional operation
- 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
- Less than 1 nanosecond response time
- Relative humidity range: 0 -95% non-condensing
- Operating frequency: 47-63 Hz
- Operating temperature: -25°C (-15°F) to +60°C (140°F)

- Standard Configuration
 - Standard NEMA 1/12/3R/04 ANSI 61 steel enclosure
 - Wire size: #8 AWG to 1/0
 - Standard size: 12" x 12" x 7" (305 mm x 305 mm x 178 mm) *
 - Standard weight: 20 lb. (9.07 kg) *

*Internal disconnect options and other NEMA ratings may increase enclosure size and weight
- SPD Monitoring
 - LED indicators
 - Audible alarm with silence switch and test button
 - Dry contacts
 - Surge counter
- Options
 - Internal rotary disconnect switch
 - Thru-door disconnect switch



Ordering Information

TPS3 **□** **L12** **□□** **□** **X** **□2**

Voltage Code Surge Current (kA) Enclosure Options

A = 120/240V, 1Ø, 3W (Fig 1) 15 = 150 kA per phase
 B = 120/240V, 3Ø, 4W (Fig 3) 30 = 300 kA per phase
 C = 120/208V, 3Ø, 4W (Fig 2) 45 = 450 kA per phase
 E = 277/480V, 3Ø, 4W (Fig 2)
 K = 380/220V, 3Ø, 4W (Fig 2)
 S = 400/230V, 3Ø, 4W (Fig 2)

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/SWGR❶

2 = Type 2 SPD (Default) Includes UL 1283 EMI/RFI Filters
 0 = Type 1 SPD (Contact factory)
 D = Internal rotary disconnect
 T = Thru-door disconnect
 0 = No disconnect switch

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

**Available Accessories:
 Ordered Separately
 RMSIE - Remote monitor**

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

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

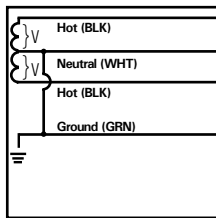


Figure 1
 Split
 2 Hots, 1 Neu, 1 Grnd

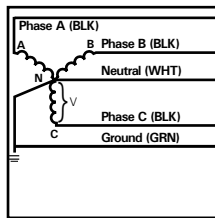


Figure 2
 Wye
 3 Hots, 1 Neu, 1 Grnd

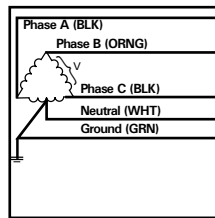


Figure 3
 Hi-Leg Delta (B High)
 3 Hots, (B High),
 1 Neu, 1 Grnd

Siemens Canada Limited
 1577 North Service Road East
 Oakville, ON L6H 0H6

888-333-3545
info@purgethesurge.com

Order No. EM-LP-1556
 Printed in Canada
 All Rights Reserved.

©2020 Siemens Canada Limited

The technical data presented in this document is based on an actual case or on as-designed parameters, and therefore should not be relied upon for any specific application and does not constitute a performance guarantee for any projects. Actual results are dependent on variable conditions. Accordingly, Siemens does not make representations, warranties, or assurances as to the accuracy, currency or completeness of the content contained herein. If requested, we will provide specific technical data or specifications with respect to any customer's particular applications. Our company is constantly involved in engineering and development. For that reason, we reserve the right to modify, at any time, the technology and product specifications contained herein.

Notes:

- ❶ For line side mounting in SWBD/SWGR
- ❷ VPR may decrease for 450kA per phase