

# Surge Protection Device (SPD) Externally mounted to Electrical Distribution Equipment

## TPS 16

*Discrete 10-Mode Transient Protection System for Sensitive Electronic loads. Externally mounted to Electrical Distribution Equipment.*

### APPLICATIONS

- Provides protection for externally generated transients at the service entrance
- **120kA** is used for standard redundancy and is applicable for service entrance, distribution panel, and branch panel locations.
- **180kA** is used for increased redundancy and is applicable for service entrance, distribution panel, and branch panel locations.
- **240kA** is used for maximum redundancy and is applicable for service entrance, distribution panel, and branch panel locations.

### SPECIFICATIONS

- Modes of Protection

Model	<u>L-N</u>	<u>L-G</u>	<u>N-G</u>	<u>L-L</u>
120kA	40kA	40kA	40kA	40kA
180kA	60kA	60kA	60kA	60kA
240kA	80kA	80kA	80kA	80kA

- AC Sinewave True Tracking Filter with EMI/RFI Filtering up to -50db from 100kHz to 100MHz
- Less than 1/2 nanosecond response time
- Pulse life of 5,000 Category C impulses
- 200,000 AIC rated fusing
- Relative humidity range: 0 - 95% non-condensing
- Operating frequency: 47 - 63Hz
- Operating temperature: -40°C to +65 C



cUL/UL 1449 Second Edition Revision  
(February 9, 2007, aka Rev 2.5)

# SIEMENS

**SPD FEATURES**

- UL 1449 Second Edition Revision Effective Feb 9, 2007 (aka UL 1449 Rev 2.5)
- Designed and tested in accordance with IEEE C62.41.1, C62.41.2, and C62.45
- Patented TranSafe™ Circuitry Design incorporating thermal cutouts and surge rated fuses
- Multistage protection circuit
- Fast acting 20mm MOV's
- 5 Year Warranty

**SPD FEATURES**

- NEMA 4X Standard Enclosure:  
Standard 10" x 8.5" x 7.25"
- Weight: 15 lbs.

**STANDARD MONITORING**

- LED Indicators

**AVAILABLE OPTIONS**

- Audible Alarm
- Dry Contacts
- Surge Counter
- Remote Monitor

**KEY BID SPECIFICATION ITEMS**

**SPD**

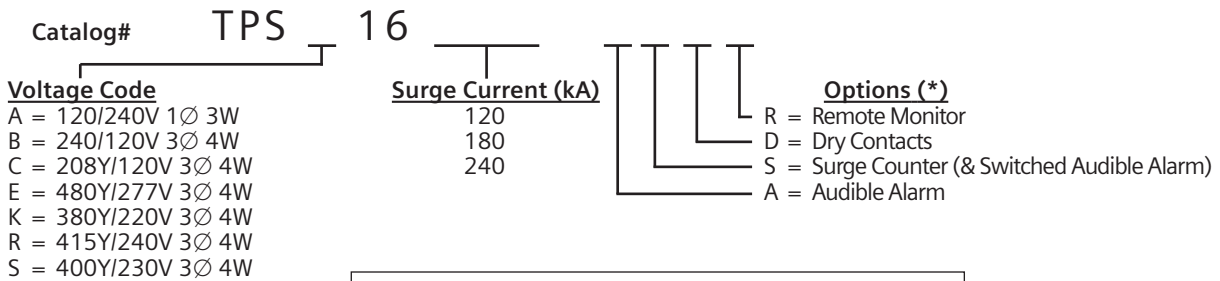
UL 1449 Rev. 2.5, UL 1283, and cUL Listed  
EMI/RFI Filtering  
UL Suppression of 330V/700V  
Modes of Protection L-N, L-G, N-G, and L-L

Surge Capacity:

Per Phase =	L-N	L-G	L-L
120kA	40kA	40kA	40kA
180kA	60kA	60kA	60kA
240kA	80kA	80kA	80kA

Category C High Tested

**ORDERING INFORMATION**



Example: TPSC161800SD0 = 120/208 TVSS with a surge capacity of 180kA/Phase, surge counter and dry contacts.

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

Service Voltage and UL 1449 Rev. 2.5 Suppression Ratings

VOLTAGE CODE	SERVICE VOLTAGE	L-N	L-G	N-G	L-L
A	120/240V 1Ø 3W	330	330	330	700
B	240/120V 3Ø 4W	330/700	330/700	330	700/900
C	208Y/120V 3Ø 4W	330	330	330	600
E	480Y/277V 3Ø 4W	700	700	700	1200
K	380Y/220V 3Ø 4W	800	800	800	1500
R	415Y/240V 3Ø 4W	800	800	800	1500
S	400Y/230V 3Ø 4W	800	800	800	1500

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