

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

## TPS 15

Transient Protection System for Critical Service  
Entrance Applications, Externally Mounted,  
Utilizing Dual TPS6 Style Field-Replaceable  
Modules, up to 800kA

UL 1449 2<sup>nd</sup> Edition Revision (Feb 2007)  
(UL 1449 Rev 2.5)  
200kA SCCR  
UL 1283

### APPLICATIONS

- Service entrance extremely high exposure protection for externally generated surges
- **480kA** is used for high redundancy and is applicable for service entrance distribution panel, and specialized loads.
- **640kA** is used for critically high redundancy and is applicable for service entrance distribution panel, and specialized loads.
- **800kA** is used for maximum high redundancy and is applicable for service entrance distribution panel and specialized loads.

### SPECIFICATIONS

- Modes of Protection

Model	L-N	L-G	N-G
480kA	240kA	240kA	240kA
640kA	320kA	320kA	320kA
800kA	400kA	400kA	400kA

- EMI/RFI filtering: Active tracking 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 fuses
- UL 1449 2<sup>nd</sup> Edition listed for 200kA SCCR applications or below. In compliance with NEC Article 285.6



Shown with optional disconnect switch

- Dual TPS6 Style Replaceable Modules
- Fast acting 40mm MOV's
- Relative humidity range: 0 - 95% non-condensing
- Operating frequency: 47 - 63Hz
- Operating temperature: -40°C to +65°C

# 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 40mm MOV's
- 5 Year Warranty

**SPD FEATURES**

- NEMA 12 Standard Enclosure:
  - Standard 24.0" x 20.0" x 7.0"
  - W/Disconnect 24.0" x 20.0" x 7.0"
  - Flushmount 24.0" x 18.0" x 7.0"
- Weight: 64 lbs.

**STANDARD MONITORING**

- LED Indicators
- Audible Alarm with Silence and Test Buttons
- Dry Contacts

**AVAILABLE OPTIONS**

- Surge Counter
- Flush Mount
- Remote Monitor
- Internal Disconnect
- NEMA3R, 4, and 4X (may increase enclosure size)

**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	N-G
480kA	240kA	240kA	240kA
640kA	320kA	320kA	320kA
800kA	400kA	400kA	400kA

Category C High Tested

**ORDERING INFORMATION**

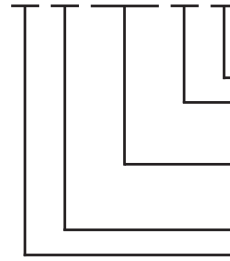
Catalog# **TPS 15**

**Voltage Code**

- A = 120/240V 1Ø 3W
- B = 240/120V 3Ø 4W
- C = 208Y/120V 3Ø 4W
- D = 240V 3Ø 3W
- E = 480Y/277V 3Ø 4W
- F = 480V 3Ø 3W
- G = 600V 3Ø 3W
- K = 380Y/220V 3Ø 4W
- L = 600Y/347V 3Ø 4W
- S = 400Y/320V 3Ø 4W

**Surge Current (kA)**

- 480
- 640
- 800



**Options (\*)**

- R = Remote Monitor
- D = Disconnect
- 00 = NEMA 12
- 03 = NEMA 3R
- 04 = NEMA 4
- 4X = NEMA 4X
- F = Flush Mount
- S = Surge Counter

Example: TPSC15640S000R = 120/208 TVSS with surge capacity of 640kA/Phase, surge counter and remote monitor.

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

Service Voltage and UL 1449 Rev. 2.5 Suppression Ratings

VOLTAGE CODE	SERVICE VOLTAGE	L-N	L-G	N-G	L-L	MCOV
A	120/240V 1Ø 3W	400	400	400	800	150
B	240/120V 3Ø 4W	400/800	400/800	400	800/1000	150/275
C	208Y/120V 3Ø 4W	330	330	330	600	150
D	240V 3Ø 3W		600		700	275
E	480Y/277V 3Ø 4W	600	600	600	1200	320
F	480V 3Ø 3W		1500		1200	640
G	600V 3Ø 3W		1800		1800	840
K	380Y/220V 3Ø 4W	600	600	600	1500	320
L	600Y/347V 3Ø 4W	1000	1000	1000	1800	420
S	400Y/230V 3Ø 4W	600	600	600	1200	320

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