

# Surge Protection Device (SPD) for Service Entrance Applications - SB1, SB2, SB3, RCS Switchboards and Type WL Low Voltage Switchgear

## TPS 15i

Transient Protection System for Critical Service Entrance Applications, Internally 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

### SWITCHBOARD FEATURES

- Copper or aluminum bus
- Meets EUSERC utility requirements
- UL 891, NEMA PB-2, CSA
- Utility metering hot and cold
- All standard options are available

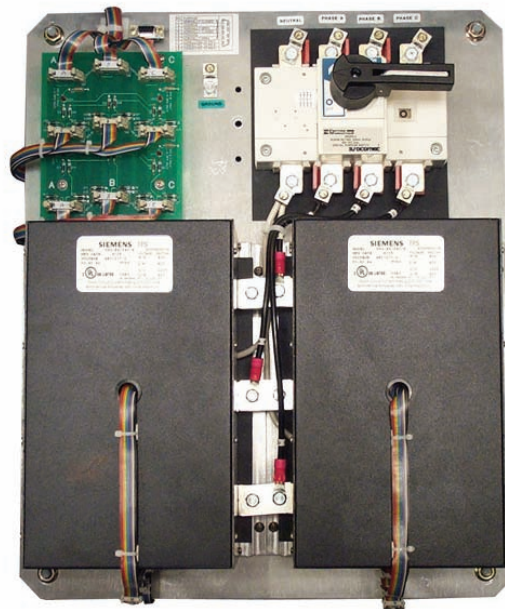
### SWITCHGEAR FEATURES

- Standard widths 22" and 32" with 60" and 70" standard depths
- Four high stacking
- Bolted copper main bus
- CSA, UL Listing available UL 1558, cUL
- Closed door racking
- Industry leading footprint
- Advanced power monitoring, control and analysis

### APPLICATIONS

- Provides main service entrance or downstream protection for sensitive computer and electronic loads:

High redundancy use           **480kA**  
Critically high redundancy use   **640kA**  
Maximum high redundancy use   **800kA**



### SPD 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 AIR, surge rated fuses
- 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

### STANDARD MONITORING

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

### AVAILABLE OPTIONS

- Surge Counter
- Remote Monitor

### KEY BID SPECIFICATION ITEMS

#### Switchboard

UL 891  
NEMA PB-2  
EEMAC G8.2  
CSA 22.2.31

#### Switchgear

UL 1558  
ANSI C37.20  
EEMAC G8-3.1  
CSA

#### SPD

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

**Voltage Code**                      **Surge Current (kA)**                      **Options\***

A = 120/240V 1Ø 3W                      480                      R = Remote Monitor

B = 240/120V 3Ø 4W                      640                      X = Surge Counter

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/230V 3Ø 4W

Example: **TPSC15640X0i** = TVSS for, 208Y/120V Switchboard with a surge capacity of 640kA/Phase and a surge counter.

\* 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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