

# Surge Protection Device (SPD) for Siemens TIASTAR Motor Control Center

## TPS MCC

### MCC FEATURES

- UL 845 and NEMA ICS-18
- Tin plated or silver plated copper bus
- NEMA Type 1, 1A, 2, 12, and 3R enclosures available
- Unique design for plug-in units
- All standard options are available
- 6 inch bucket standard

### APPLICATIONS

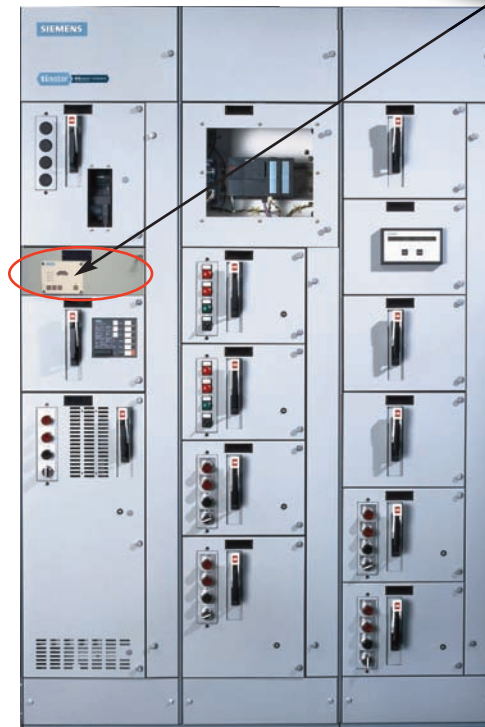
- Provides main service entrance or downstream protection for sensitive computer and electronic loads:

Standard redundancy use **160kA**  
Maximum redundancy use **240kA**

### SPD SPECIFICATIONS

- Modes of Protection

Model	L-N	L-G	N-G
160kA	80kA	80kA	80kA
240kA	120kA	120kA	120kA
- 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



cUL/UL 1449 Rev. 2.5, February 9, 2007 Recognized

# 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
- Racking lever disconnect

**AVAILABLE OPTIONS**

- Surge Counter
- Remote Monitor
- Circuit Breaker - adds through door circuit breaker in 18" bucket

**KEY BID SPECIFICATION ITEMS**

**MCC**

CSA, UL 845, and UL 508  
 NEC  
 NEMA ICS-18  
 IEEE STD-693-1997

**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 =	<u>L-N</u>	+	<u>L-G</u>
160kA	80kA		80kA
240kA	120kA		120kA

Category C High Tested

**ORDERING INFORMATION**

Catalog# **TPSMCC**

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
- M = 240V 3Ø Corner Grounded Delta

Surge Current (kA)

- 160
- 240

Options

- CB = Circuit Breaker
- RM = Remote Monitor
- SC = Surge Counter

Example: **TPSMCCC240SCRM** = SPD for, 208Y/120V MCC with a surge capacity of 240kA/Phase with surge counter and remote monitor options.

Service Voltage and UL 2<sup>nd</sup> Edition Suppression Ratings

VOLTAGE CODE	SERVICE VOLTAGE	L-N	L-G	N-G	L-L	MCOV
A	120/240V 1Ø 3W	330	330	330	600	150
B	240/120V 3Ø 4W	330/800	330/800	330	800/1500	150/275
C	208Y/120V 3Ø 4W	330	330	330	600	150
D	240V 3Ø 3W		800		800	275
E	480Y/277V 3Ø 4W	600	600	600	1200	320
F	480V 3Ø 3W		1500		1500	640
G	600V 3Ø 3W		1500		1800	840
K	380Y/220V 3Ø 4W	600	600	600	1200	320
L	600Y/347V 3Ø 4W	1000	1000	900	1800	420
M	240V 3Ø Corner Grd		700		700	275

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