

TPS3 02

Type 1 / 2 Surge Protection Device (SPD) for Revised P1 Lighting Panelboards

Features:

- Mounts internal to:
 - Revised P1 Lighting Panelboards
- Consult factory for field retrofit in Revised P1 Lighting Panelboards
- UL 1449-4 Type 2 SPD, UL 1283 Listed, CSA 22.2 No. 269.2
- Optional UL 1449 4th Edition Recognized Type 1, CSA 22.2 No. 269.1
- Type 1 / Type 2 SPD
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA I_n
- 200 kA SCCR (most models)
- Direct bus connected
- Can be wired to a circuit breaker (consult factory at time of order or see installation manual for retrofit)
- UL96A Lightning Protection Master Label compliant
- 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
- 10 year warranty

SPD Specifications

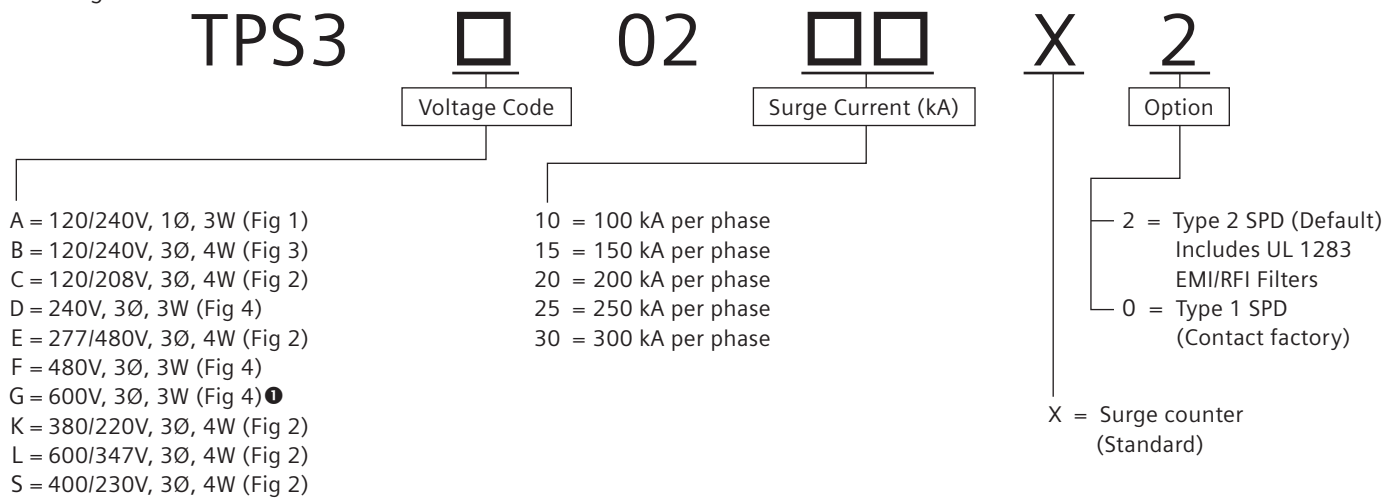
Surge Current Rating Per Phase

Per Phase	L-N	L-G	N-G
100 kA	50 kA	50 kA	50 kA
150 kA	100 kA	50 kA	50 kA
200 kA	100 kA	100 kA	100 kA
250 kA	150 kA	100 kA	100 kA
300 kA	150 kA	150 kA	150 kA

- 100% monitoring (Every MOV is monitored, incl. N-G)
 - 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
 - < 1/2 nanosecond response time
 - Relative humidity range: 1-95% non-condensing
 - Operating frequency: 47-63 Hz
 - Operating temperature: -25°C (-15°F) to +60°C (140°F)
- ### Applications
- Provides main service entrance or downstream protection for sensitive computer and electronic loads
 - Std. redundancy use: 100kA/phase
 - Inc. redundancy use: 200kA/phase
 - Max. redundancy use: 300kA/phase
- ### SPD Monitoring
- LED indicators
 - Audible alarm with silence switch and test button
 - Dry contacts
 - Surge counter



Ordering Information



Example: TPS3C0220X2 = Type 2 SPD (Default) for a 208/120V panelboard with a surge current capacity of 200 kA per phase and a surge counter

Available Accessories: Ordered Separately
 RMSIE - Remote monitor

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

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	1200	20 kA	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	700 /1200	700 /1200	700	1800/1800	20 kA	200 kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1200	20 kA	200 kA	150
D	240V, 3Ø, 3W (Fig 4)	—	1200	—	1200	20 kA	200 kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	200 kA	320
F	480V, 3Ø, 3W (Fig 4)	—	1800	—	1800	20 kA	200 kA	550
G	600V, 3Ø, 3W (Fig 4)	—	2500	—	2500	20 kA	200 kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	200 kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	20 kA	200 kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	200 kA	320

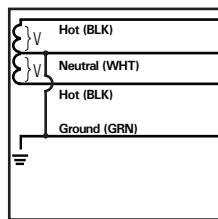


Figure 1
 Split
 2 Hots, 1 Neu, 1 Grnd

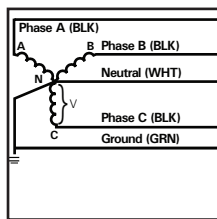


Figure 2
 Wye
 3 Hots, 1 Neu, 1 Grnd

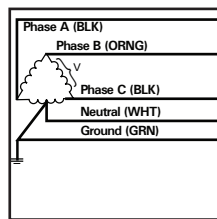


Figure 3
 Hi-Leg Delta (B High)
 3 Hots, (B High),
 1 Neu, 1 Grnd

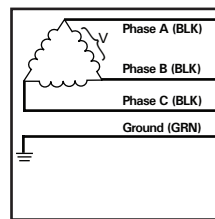


Figure 4
 Delta & HRG Wye
 3 Hots, 1 Grnd

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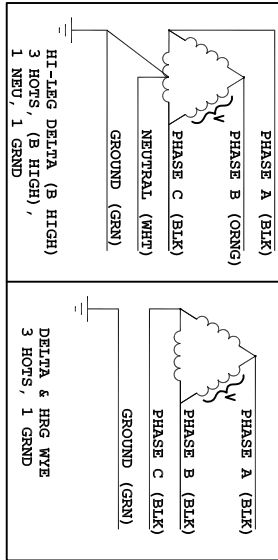
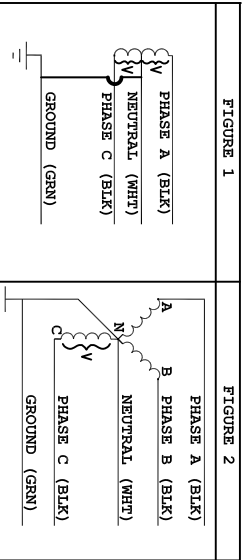
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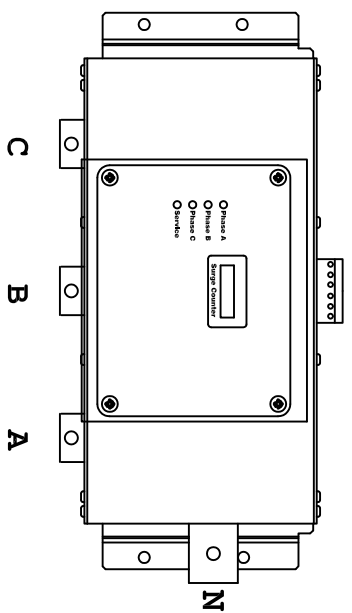
Notes:

❶ Available 100 kA & 150 kA only

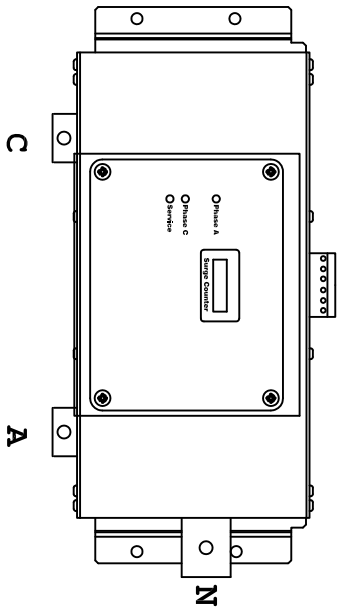


CUSTOMER CONNECTIONS PER FIGURES AT LEFT

THREE POLE



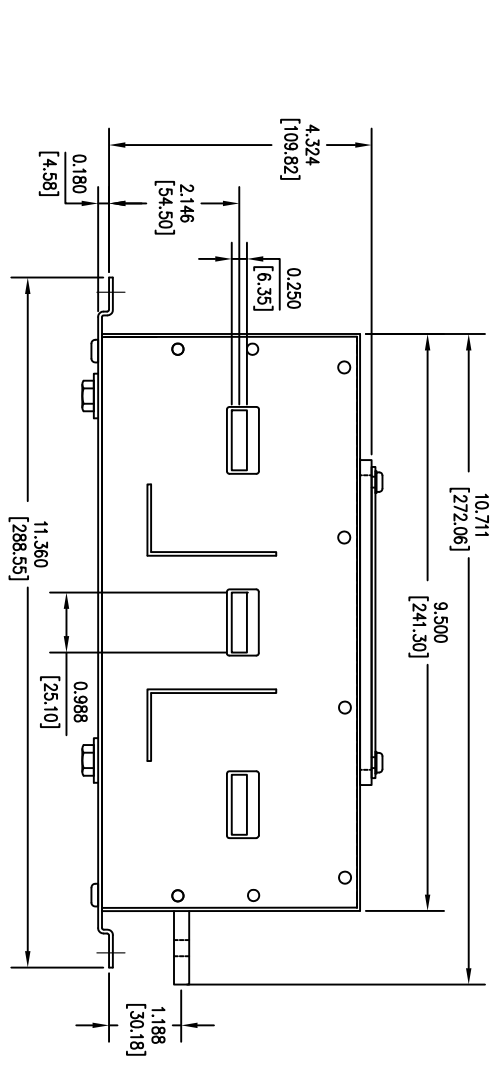
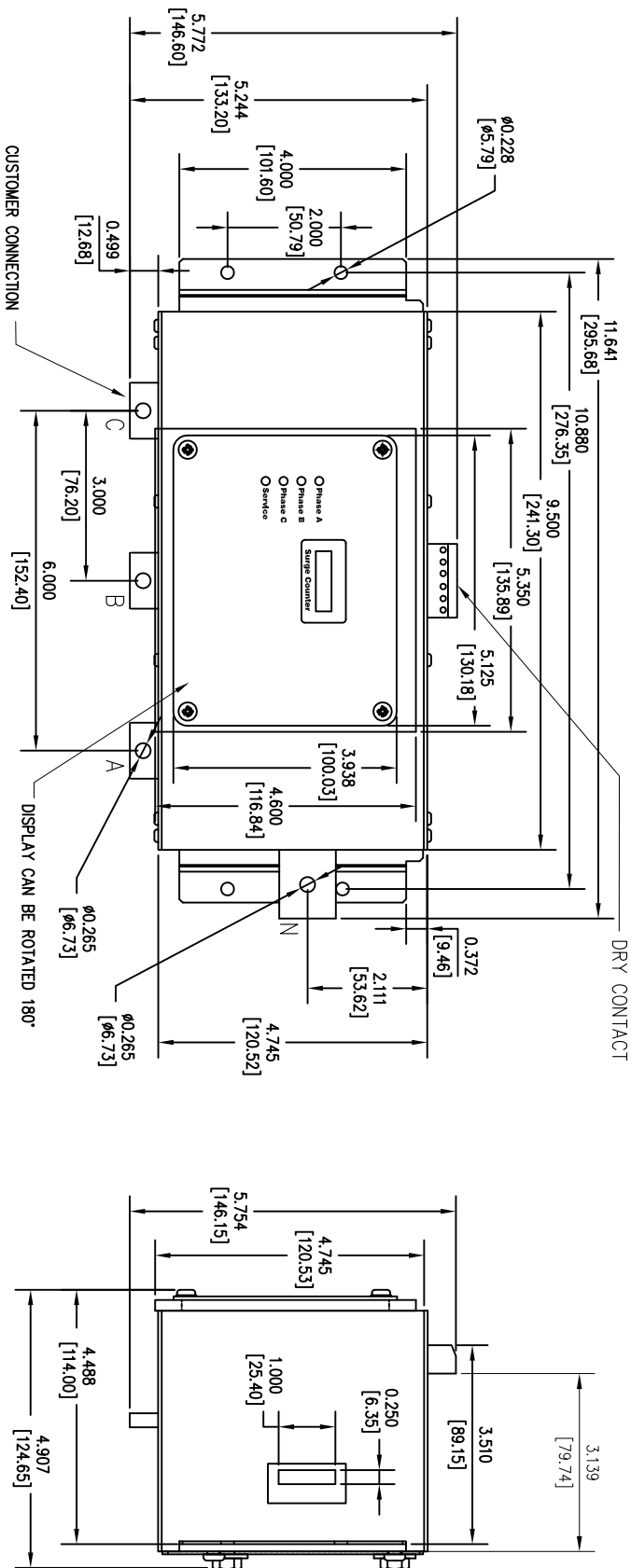
TWO POLE



MODEL	VOLTAGE CODE	SERVICE VOLTAGE	FIGURE
TPS3A02/I2	A	240/120V 1Ø, 3W Plus Ground	1
TPS3B02/I2	B	240/120V 3Ø, 4W Plus Ground High Leg Delta	3
TPS3C02/I2	C	208Y/120V 3Ø, 4W Plus Ground	2
TPS3D02	D	240V 3Ø, 3W Plus Ground	4
TPS3E02/I2	E	480Y/277V 3Ø, 4W Plus Ground	2
TPS3F02	F	480V 3Ø, 3W Plus Ground	4
TPS3G02	G	600V 3Ø, 3W Plus Ground	4
TPS3K02/I2	K	380Y/220V 3Ø, 4W Plus Ground	2
TPS3L02	L	600Y/347V 3Ø, 4W Plus Ground	2
TPS3S02/I2	S	400Y/230V 3Ø, 4W Plus Ground	2
TPS3W02/I2	W	220Y/127V 3Ø, 4W Plus Ground	2

Rev	C.N.	Date
△	Denotes latest changes.	
□	Critical dimension.	
Technical drawings created in accordance with the standards of the International Electrotechnical Commission (IEC) and the standards of the National Fire Protection Association (NFPA). All dimensions are in millimeters unless otherwise specified. Tolerances are as specified in the applicable standards. The user must verify the part meets drawings.		
DESIGNER	DMP	4/26/14
APPROVER	AND	4/29/14
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TPS3-02 SERIES ELECTRICAL		
DWG NO.	43D-TPS3-02-E	
SCALE	NONE	SHEET 1 of 1

SURGE PROTECTIVE DEVICE (SPD) WEIGHTS & DIMENSIONS



SPECS:
 DESC: TPS3-02 SERIES SPD MODULE
 KA RATING: 100-300
 In RATTING: 20KA
 OVERALL DIM: 11.6" L x 5.7" W x 4.9" D
 MAT: ALUMINUM, 16 GAUGE
 FINISH: BLACK ANNOXIDIZED
 NEMA RATING: 1
 DEVICE WEIGHT: 4.55 LBS. (2.06 KG.)

Rev	C.N.	Date
△		Denotes latest changes.
□		Critical dimension.

DESIGNED BY	DATE	APPROVED BY	DATE
DWP	6/20/14	MJC	6/20/14

CONFIDENTIAL - Property of Siemens Industry, Inc. Building Technologies Division	TPS3-02 SERIES 100-300K SPD MODULE
SCALE: NONE	SHEET: 1 of 1