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TPS3 09

Type 1 Surge Protective Device (SPD) Mounts External to Electrical Distribution Equipment or Internal to P1, P2 Lighting Panelboards, P3 Power Panelboards and Busway Systems

Features:

- UL 1449 4th Edition Listed Type 1, CSA 22.2 No. 269.1
 - Type 1 SPD
 - Mounts external to electrical distribution equipment
 - Weatherproof hub included
 - Mounts internal to P1 panelboards & busway
 - P1 - Field retrofit or factory install
 - P2 and P3 - Factory install only
 - **Consult factory for field retrofit**
 - Large block, individually fused, thermally protected, 50 kA MOVs
 - 20 kA I_n
 - 200 kA SCCR (most models)
 - 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
 - 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
 - 10 year warranty
- UL96A Lightning Protection Master Label compliant
 - SPD Specifications
 - Surge Current Rating Per Phase

Per Phase	L-N	L-G	N-G
100 kA	50 kA	50 kA	50 kA
 - 100% monitoring (Every MOV is monitored, incl. N-G)
 - Individually fused and thermally protected MOVs
 - Solid state bi-directional operation
 - Repetitive impulse: 5,000 hits
 - <1 nanosecond response time
 - Relative humidity range: 0-95% non-condensing
 - Operating frequency: 47-63 Hz
 - Operating temperature: -40°C (-40°F) to +85°C (185°F)
 - Standard Configuration
 - Standard NEMA 4X polycarbonate enclosure (UL 746C (f1), UL 94-5VA)
 - Wire size: Prewired with 3' (91.4 cm) of #10 AWG
 - Standard size: 8.3" x 3.6" x 3.0" (211 mm x 91 mm x 77 mm)
 - Standard weight: 3 lb. (1.4 kg)
 - SPD Monitoring
 - LED indicators
 - Optional dry contact & audible alarm



Ordering Information

TPS3



Voltage Code

09



Surge Current (kA)

10 = 100 kA per phase



Options

- A = 120/240V, 1Ø, 3W (Fig 1)
- B = 120/240V, 3Ø, 4W (Fig 3)
- C = 120/208V, 3Ø, 4W (Fig 2)
- D = 240V, 3Ø, 3W (Fig 4)
- E = 277/480V, 3Ø, 4W (Fig 2)
- F = 480V, 3Ø, 3W (Fig 4)
- G = 600V, 3Ø, 3W (Fig 4)
- K = 380/220V, 3Ø, 4W (Fig 2)
- L = 600/347V, 3Ø, 4W (Fig 2)
- S = 400/230V, 3Ø, 4W (Fig 2)

- 0 = Default
- E = Extended indicator light

- 0 = Default
- I = Internal mounting in P1, P2 panels

- D = Dry contact & audible alarm
- 0 = No Dry contact & audible alarm

Example: TPS3C0910D00 = Type 1 SPD for a 208/120V panelboard with a surge current capacity of 100 kA per phase with standard NEMA 4X enclosure, dry contacts and audible alarm option.

Available for field retrofit in P1 panels

Available Accessories: Ordered Separately

- RMSIE = Remote monitor
- XMFMKIT = Flush mount plate
- TPS9IKITP1 = Mounting bracket for installation in P1 panels
- TPS9IKITP2 = Mounting bracket for installation in P2 panels (factory install only)

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)	600	700	500	1000	20 kA	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	600/1200	700 /1200	500	1000/1000	20 kA	200 kA	150/320
C	120/208V, 3Ø, 4W (Fig 2)	600	700	500	1000	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	1000	1800	20 kA	200 kA	320
F	480V, 3Ø, 3W (Fig 4)	—	1800	—	1800	20 kA	200 kA	552
G	600V, 3Ø, 3W (Fig 4)	—	2500	—	2500	20 kA	200 kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1000	1800	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	1000	1800	20 kA	200 kA	320

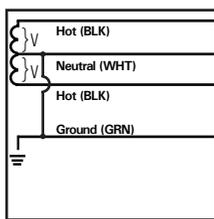


Figure 1
Split
2 Hots, 1 Neu, 1 Grnd

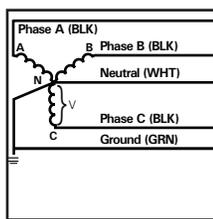


Figure 2
Wye
3 Hots, 1 Neu, 1 Grnd

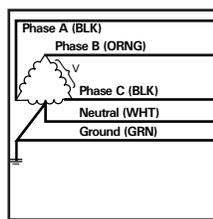


Figure 3
Hi-Leg Delta (B High)
3 Hots, (B High),
1 Neu, 1 Grnd

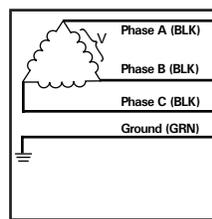


Figure 4
Delta & HRG Wye
3 Hots, 1 Grnd

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Order No. RPFL-S309C-1017

Printed in USA

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Notes:

- ❶ Requires TPS9IKITP1 or TPS9IKITP2 mounting bracket accessory, see available Accessories. Prewired cables are extended from 3 feet to 6 feet.