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TPS3 03

Type 1 Surge Protective Device (SPD) Mounts External to Electrical Distribution Equipment

Features:

- UL 1449 4th Edition Listed Type 1, CSA 22.2 No. 269.1
- Type 1 SPD
- Mounts external to electrical distribution equipment
 - Recommended for Line Side or Load Side Applications
- Bracket included for multiple mounting options
- Large-block 34 mm square MOVs
- 20 kA I_n
- 200 kA SCCR (most models)
- All UL required OCP & safety coordination included
 - Type 1 SPDs intended for Line or Load side of Main Disconnect
- 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
 - 1992/2000 NEMA LS-1
 - NEC Article 285
 - IEC 61643, CE
- 5 year warranty

- SPD Specifications
 - Surge Current Rating Per Phase

Per Phase	L-N (L-G: Delta)
50 kA	50 kA
 - 100% monitoring (Every MOV is monitored)
 - Individually fused and thermally protected MOVs
 - Solid state bi-directional operation
 - Repetitive impulse: 5000 - 3kA - 8 x 20 μ s; 1000 - 10kA - 8 x 20 μ s
 - Less than 1 nanosecond response time
 - Relative humidity range: 0-95% non-condensing
 - Operating frequency: 47-63 Hz
 - Peak Operating temperature: +85°C (185°F)
 - Operating temperature: -40°C (-40°F) to +60°C (140°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: 3.25" x 3.25" x 3.3" (82.6 mm x 82.6 mm x 83.8 mm)
 - Standard weight: 2 lb. (0.9 kg)
- SPD Monitoring
 - LED indicators
- Options
 - N-G protection
 - Dry Contact & Audible Alarm (Dry Contact connection leads exit through nipple via #18 AWG)



Ordering Information

TPS3 □ **03** □□ □□

Voltage Code

Surge Current (kA)

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)
 H = 240/480V, 1Ø, 3W (Fig 1)
 J = 240V, 1Ø, 2W (Fig 5)
 K = 380/220V, 3Ø, 4W (Fig 2)
 L = 600/347V, 3Ø, 4W (Fig 2)

05 = 50 kA per phase

**Available Accessories:
 Ordered Separately**
 RMSIE = Remote monitor

N = Adds N-G Protection
 0 = No N-G Protection (Default)

D = Dry contact & audible alarm
 0 = No Dry contact & audible alarm (Default)

Example: TPS3C0305D0 = Type 1 SPD for a 208/120V application with a surge current capacity of 50 kA per phase, in a standard NEMA 4X enclosure with dry contacts and audible alarm option

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	1200*	600*	1200	20 kA	200 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	700/1200	1200/1500*	600*	1200/1500	20 kA	200 kA	150/320
C	120/208V, 3Ø, 4W (Fig 2)	700	1200*	600*	1200	20 kA	200 kA	150
D	240V, 3Ø, 3W (Fig 4)	—	1200	—	1500	20 kA	200 kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1800*	1000*	2000	20 kA	200 kA	320
F	480V, 3Ø, 3W (Fig 4)	—	1800	—	3000	20 kA	200 kA	550
G	600V, 3Ø, 3W (Fig 4)	—	1200	—	1500	20 kA	200 kA	690
H	240/480V, 1Ø, 3W (Fig 1)	1200	1200	1200	2000	20 kA	200 kA	320
J	240V, 1Ø, 2W (Fig 5)	1200	1200	1200	—	20 kA	200 kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1200	1800*	1000*	2000	20 kA	200 kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	2500*	1200*	2500	20 kA	200 kA	420

*with optional N-G protection

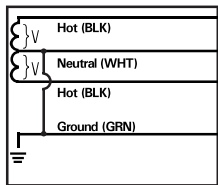


Figure 1
 Split
 2 Hots, 1 Neu, 1 Grnd

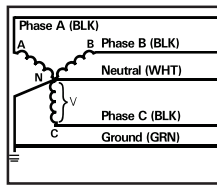


Figure 2
 Wye
 3 Hots, 1 Neu, 1 Grnd

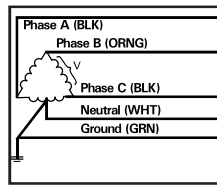


Figure 3
 Hi-Leg Delta (B High)
 3 Hots, (B High),
 1 Neu, 1 Grnd

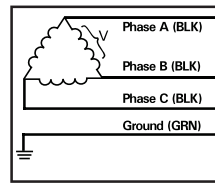


Figure 4
 Delta & HRG Wye
 3 Hots, 1 Grnd

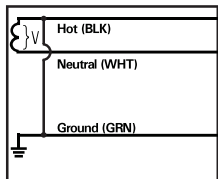


Figure 5
 Split
 1 Hot, 1 Neu, 1 Grnd

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Order No. RPFL-S303C-0621
 Printed in USA

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