



Surge Protection Device

TR SERIES

The Next Generation SPD designed for UL 1449 3rd Edition; IEC; CE Listed



Design Features:

- ANSI/IEEE C62.41 Location C, B, & A.
- SPD according to IEC 61643-11 Type 2
- SPD according to IEC 61643-1 Class I, II, III
- Ideal for mounting next to switchgear, MCC, Distribution panels, branch panels and critical loads
- High energy fail-safe parallel hybrid design with component level fusing
- Solid-state bi-directional protection technology

Performance:

- Surge currents per phase (Imax): 60, 80, 100, 120, 160, 200kA
- Nominal discharge surge current In: 30, 40, 50, 60, 80, 100kA
- Regulatory Listings: UL 3rd Edition Certified, Type 2 SPD; CE Marked
- All mode protection L-G, L-N, N-G, L-L
- LED Indicators per phase
- Response time: Less than .5 nanoseconds
- Life Cycle Tested: 5,000 Cat. C3 High Exposure Impulses with $\leq 10\%$ degradation
- Operating frequency: 47-400Hz; Operating temperature: -40C to +70C
- EMI Filter frequency range: 1000 Hz to 1 Meg Hz -40dB or greater
- Enclosure: NEMA 4X (IP56); UL94-5V; Fiberglass reinforced polyester; Non-corrosive; Water resistant; Dust tight; Impact resistance
- Pre-wired with #10AWG leads
- Size: 7.5 x 5.5 x 4.75 (19 x14x12cn); Weight: 10lbs/4.5kg
- Warranty: 25 Years FREE REPLACEMENT

MODEL NUMBER SELECTION GUIDE

GS-	TR-	XXX	XXXX	X-X-XX
	Surge	Current/Phase	Voltage Code	Options
		060	1P240 (Single phase 240)	C- Dry relay contacts
		080	1S240 (Split phase 240)	F- Tracking filter
		100	3Y208 (120/208Y)	TT- TT earth system
		120	3Y380 (220/380Y)	TF- Top fed wiring
		160	3Y480 (277/480Y)	BF- Bottom fed wiring
		200	240D (240 Δ Delta)	RF- Right fed wiring
			380D (380 Δ Delta)	LF- Left fed wiring
			480D (480 Δ Delta)	

Part Number Example: GS-TR-100-1P240-C-F-TF



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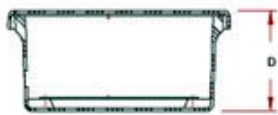
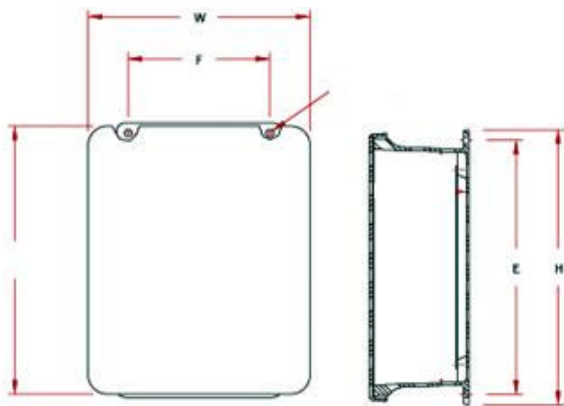
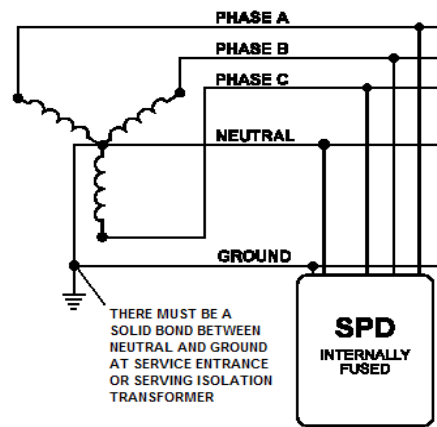
Surge Protection Device

UL 1449 3rd Edition 6KV/3KA VPL (Voltage Protection Level)

Model Number	System Configuration	MCOV U _c	UL Voltage Protection Ratings			
			L-N	L-G	N-G	L-L
GS-TRXXX-1P240	1Ø, 240v; 2W+G	320V	1000	1000	1000	1800
GS-TRXXX-1S240	1Ø, 120/240v; 3W+G	150V	600	600	600	1000
GS-TRXXX-3Y208	3Ø 120/208v wye; 4W+G	150V	600	600	600	1000
GS-TRXXX-3Y380	3Ø 220/380v wye; 4W+G	320V	1000	1000	1000	1800
GS-TRXXX-3Y480	3Ø 277/480v wye; 4W+G	320V	1000	1000	1000	1800
GS-TRXXX-240D	3Ø 240v Delta	320V	N/A	1000	N/A	1800
GS-TRXXX-380D	3Ø 380v Delta	550V	N/A	1800	N/A	2500
GS-TRXXX-480D	3Ø 480v Delta	550V	N/A	1800	N/A	2500

Typical 3Ø wye (star) Installation

INSTALLATION DIAGRAM



H x W x D
7.5" x 5.43" x 4.75"

E x F
6.75" x 2.0"



We are constantly seeking to improve our products and specifications are subject to change at any time.



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