

## TR SERIES

The Next Generation SPD designed for UL 1449 3rd Edition; 4th Edition Compliant; IEC & CE Listed



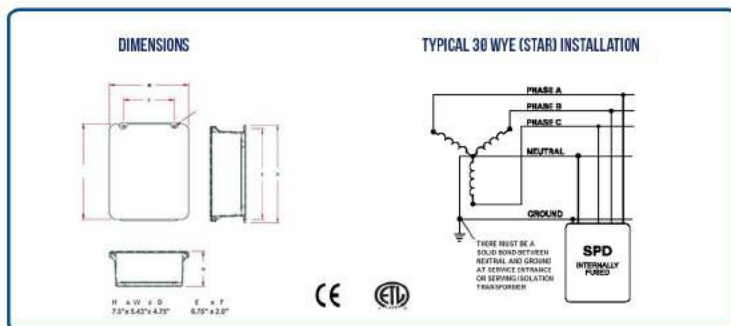
### DESIGN FEATURES

- 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, and branch panels
- High energy MOV-based fail-safe parallel hybrid design with component thermal level fusing
- Solid-state bi-directional protection
- Silica encapsulated for increased safety

### 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 1 & Type 2 SPD; CE Marked; 4th Edition Compliant; Tested to UL1283
- All mode protection: L-G, L-N, N-G, L-L
- LED Indicators per phase
- 200kAIC fault current rating
- Life Cycle Tested: 5,000 Cat. C3 20KV/10KA High Exposure Impulses
- Operating frequency: 47-400Hz;
- Operating temperature: -40C to +65C
- Non condensing humidity: 5% to 95%
- EMI Filter frequency range: 1000 Hz to 1 Meg Hz -40dB or greater
- Enclosure: NEMA 4X (IP66); UL94-5V; Fiberglass reinforced polyester
- Size: 7.5 x 5.5 x 4.75 (19 x14x12cn); Weight: 10lbs/4.5kg
- Warranty: 25 Years FREE REPLACEMENT

### INSTALLATION DIAGRAM



### UL 1449 3RD EDITION 6KV/3KA VPL (VOLTAGE PROTECTION LEVEL)

Model Number	System Configuration	MCOV Uc	UL Voltage Protection Ratings			
			L - N	N - G	L - G	L - L
GS-TRXXX-1P240	1Ø, 240v, 2W+G	320V	1000	1000	1000	1800
GS-TRXXX-1S240	1Ø, 120/240v, 3W+G	150V	700	700	700	1000
GS-TRXXX-3Y208	3Ø 120/208v wye; 4W+G	150V	700	700	700	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	N/A	1000	1800
GS-TRXXX-240H	3Ø 240V Delta High Leg	150V L-G 275V H-G	700 1000	700 1000	1000	1000 1800
GS-TRXXX-380D	3Ø 380v Delta	550V	N/A	N/A	1800	3000
GS-TRXXX-480D	3Ø 480v Delta	550V	N/A	N/A	1800	3000

### MODEL SELECTION GUIDE

Surge Current	Voltage Code	Option
060	1P240 (Single phase 240)	R - Dry relay contacts
080	1S240 (Split phase 240)	F - Tracking filter
100	3Y208 (120/208Y)	M - Metal enclosure
120	3Y380 (220/380Y)	
160	3Y415 (240/415Y)	
200	3Y480 (277/480Y)	
	240D (240Δ Delta)	
	380D (380Δ Delta)	
	480D (480Δ Delta)	
	240H (240Δ High-Leg)	
	Part Number Example: GS-TR160-3Y380-R-F	

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