



**Benefits:**

- SAD/MOV Hybrid
- UL 1449 Fourth Edition Listed
- 250kA – 750kA per phase ratings (125kA-375kA per mode)
- All UL required OCP & Safety Coordination included inside
  - Type 1 SPDs intended for Line or Load Side of Main Disconnect
  - Type 2 SPDs intended for Load Side of Main Disconnect
- 20kA Inominal
- 200kA SCCR
- UL 96A Lightning Protection Master Label compliant
- Redundant Replaceable Module Design
- Optional Rotary Disconnect Switch
- Voltage Specific Design – Highly configurable
- All SAD and MOV suppression elements monitored
- All Modes of Protection
- 10 Year Parts, 5 Year Labor Warranty (longer optional)

**Performance Specifications**

Surge Capacities	L-N	L-G	N-G
250kA Per Phase (125kA Per Mode)	125kA	125kA	125kA
320kA Per Phase (160kA Per Mode)	160kA	160kA	160kA
400kA Per Phase (200kA Per Mode)	200kA	200kA	200kA
500kA Per Phase (250kA Per Mode)	250kA	250kA	250kA
750kA Per Phase (375kA Per Mode)	375kA	375kA	375kA
UL 1449 Fourth Edition Listed Type 1 or Type 2			
UL 1449 Fourth Edition tested Inominal (I <sub>n</sub> ): 20kA			
UL 1449 Fourth Edition tested SCCR: 200kA			
UL 1449 Fourth Edition Voltage Protection Ratings (VPRs):			
– 208Y/120V: as low as 700V			
– 480Y/277V: as low as 1000V (data table on back)			
EMI/RFI Filtering Noise Rejection:			
– 63dB Maximum – UL 1449 Type 2 SPD (UL 1283)			
– 25dB Maximum – UL 1449 Type 1 SPD			
Less than 1 nanosecond response time			

**Third Party Testing**

Single Impulse Tested - Third Party Verified (former NEMA LS-1 style). To Each Mode's Rating Up To Surge Generator Limit Of 200kA	
Life Cycle Surge Testing (Repetitive Impulse Testing):	
250kA	15,000 IEEE C High 20kV, 10kA impulses Per Mode 30,000 IEEE C High 20kV, 10kA impulses Per Phase
320kA-500kA	30,000 IEEE C High 20kV, 10kA impulses Per Mode 60,000 IEEE C High 20kV, 10kA impulses Per Phase
750kA-1000kA	45,000 IEEE C High 20kV, 10kA impulses Per Mode 90,000 IEEE C High 20kV, 10kA impulses Per Phase

**Quality, Standards & Validation**

Type 1 UL 1449 Fourth Edition
Type 2 (Opt.) UL 1449 Fourth Edition, UL 1283, cUL for Canada
UL file: VZCA.E324279
Burn-in tested prior to shipment
ISO 9001:2008 Quality Management System
ISO 17025:2005 Laboratory Qualification

**Design Attributes**

Designed, Manufactured & Tested consistent with:
– ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, C62.62-2010, C62.72-2016, IEEE SA 1100-2005 (Emerald Book)
– NEC® Article 285
– NEC® Articles 620.51(E), 645.18, 670.6, 695.15, 700.8 & 708 requiring SPDs
– UL 96A and NFPA 780 Lightning Protection
High Energy Parallel Design for Category C High applications
For External Mounting on Electrical Distribution Equipment, Switchgear, Switchboards, Motor Control Centers, Panelboards, Transfer Switches, etc.
Individually Fused & Thermally Protected SADs and MOVs
Robust 25mm round Phenolic Coated MOV Construction
Heavy-Duty Axial-leaded Silicon Avalanche Diodes (SADs) With Precision Inductive Transitioning Circuitry
Solid State Bidirectional SADs and MOVs

**Diagnostic Monitoring**

100% monitoring – Every SAD & MOV is monitored, including N-G
Green LED Status indicator per phase (Redundant LEDs on modules)
Red LED service indicator
Built-in Automated Test Function, Audible Alarm with Silence Switch
Form C Dry Contacts, Two Sets, 250V, 5A
Optional Surge Counter & Dual Surge Counters; 6 digit, w/test & reset
Available Active Surge Monitor (ASM), see pub. DS-70137 & SL-70109

**Physical Specifications**

Relative Humidity Range: 0 – 95% non-condensing
Operating Frequency: 47-63Hz
Maximum Operating Temperature: 85°C (185°F)
Standard NEMA 1/12/3R/4 Steel Enclosure
Size/Weight vary by Surge Capacity & Disconnect Switch:
– Min: 16" x 12" x 9" (406mm x 305m x 229mm), 35lbs (16kg)
– Max: 20" x 20" x 9" (508mm x 508mm x 229mm), 85lbs (39kg)
Lug size: #14 - #1/0 AWG (Optional Disconnect: #8 - #1/0 AWG)
Typical connection: #4 AWG and 30-70A circuit breaker

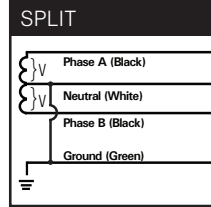
Model 570 Ordering Options						
Connection	Monitoring	kA Rating Per Phase	Catalog Number	Enclosure		
				AxB	C	D
Lugs	Counter, Lights, Alarm, Contacts	250kA	570□□□□P25ACCG□□	16" x 12"	17.25"	9.5"
		320kA	570□□□□P32ACCG□□	16" x 16"	17.25"	10"
		400kA	570□□□□P40ACCG□□			
		500kA	570□□□□P50ACCG□□	20" x 24"	21.25"	10"
	Dual Counter, Lights, Alarm, Contacts	250kA	570□□□□P25ACDG□□	16" x 12"	17.25"	9.5"
		320kA	570□□□□P32ACDG□□	16" x 16"	17.25"	10"
		400kA	570□□□□P40ACDG□□			
		500kA	570□□□□P50ACDG□□	20" x 24"	21.25"	10"
	ASM	250kA	570□□□□P25ACTG□□	16" x 12"	17.25"	9.5"
		320kA	570□□□□P32ACTG□□	16" x 16"	17.25"	10"
		400kA	570□□□□P40ACTG□□			
		500kA	570□□□□P50ACTG□□	20" x 24"	21.25"	10"
Disconnect	Counter, Lights, Alarm, Contacts	250kA	570□□□□P25ATCG□□	16" x 16"	17.25"	10"
		320kA	570□□□□P32ATCG□□	20" x 16"	21.25"	10"
		400kA	570□□□□P40ATCG□□			
		500kA	570□□□□P50ATCG□□	20" x 24"	21.25"	10"
	Dual Counter, Lights, Alarm, Contacts	250kA	570□□□□P25ATDG□□	16" x 16"	17.25"	10"
		320kA	570□□□□P32ATDG□□	20" x 16"	21.25"	10"
		400kA	570□□□□P40ATDG□□			
		500kA	570□□□□P50ATDG□□	20" x 24"	21.25"	10"
	ASM	250kA	570□□□□P25ATTG□□	16" x 16"	17.25"	10"
		320kA	570□□□□P32ATTG□□	20" x 16"	21.25"	10"
		400kA	570□□□□P40ATTG□□			
		500kA	570□□□□P50ATTG□□	20" x 24"	21.25"	10"
750kA	570□□□□P75ATTG□□	20" x 16"	21.25"	18"		

Choose Voltage Code

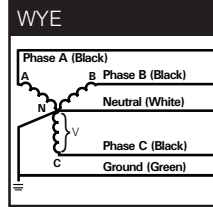
Indicate UL Type 1 or 2

Voltage Code	
120/240V Split Phase	120S
208Y/120V Wye	120Y
240V Delta	240D
120/240V Delta High Leg	240H
480Y/277V Wye	277Y
480V Delta	480D

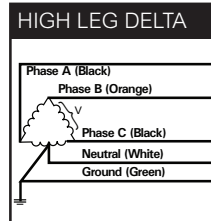
*Note - Additional system voltages are available, please contact factory.*



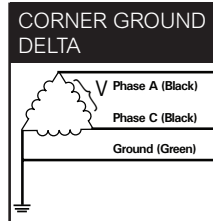
2 Phases, 1 Neutral, 1 Ground



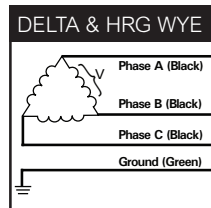
3 Phases, 1 Neutral, 1 Ground



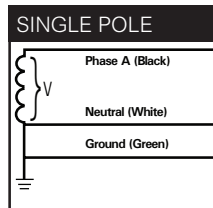
(B High) 3 Phases, (B High) 1 Neutral, 1 Ground



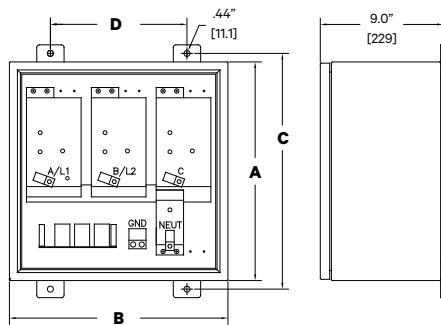
(B grounded) 2 Phases, 1 Ground



3 Phases, 1 Ground



1 Phase, 1 Neutral, 1 Ground



### Performance Data

Common Power Systems	UL 1449 Fourth Edition Test Data							
	Voltage Protection Ratings (VPR - 3kA)				I <sub>n</sub>	SCCR	MCOV	
	L-N	L-G	N-G	L-L				
120S = 240/120V Split Phase	700V	700V	700V	1000V	20kA	200kA	150	
120Y = 208Y/120V 3Ø Wye	700V	700V	700V	1000V	20kA	200kA	150	
240H = 240/120V B High Leg Delta	700/1200V	700/1200V	700V	1000/1500V	20kA	200kA	150 / 320	
277Y = 480Y/277V 3Ø Wye	1000V	1200V	1000V	1800V	20kA	200kA	320	
480D = 480V Delta	—	1800V	—	1800V	20kA	200kA	552	

Optional rotary disconnect switch may increase VPRs