



Features:

- UL 1449 Fourth Edition Listed
- 160kA per phase rating
- All UL required OCP & Safety Coordination included inside
 - Type 2 SPDs intended for Load Side of Main Disconnect
- 10kA Inominal
- 65kA SCCR
- Voltage Specific Design – Highly configurable
- 5 Year Warranty (longer optional)

Performance Specifications

Surge Capacities	L-N	L-G	N-G
160kA Per Phase (80kA Per Mode)	80kA	80kA	80kA
UL 1449 Fourth Edition Listed Type 2			
UL 1449 Fourth Edition tested Inominal (I_n): 10kA			
UL 1449 Fourth Edition tested SCCR: 65kA			
UL 1449 Fourth Edition Voltage Protection Ratings (VPRs):			
– 208Y/120V: as low as 600V			
– 480Y/277V: as low as 1000V (data table on back)			
Less than 1 nanosecond response time			

Physical Specifications

Relative Humidity Range: 0 – 95% non-condensing
Operating Frequency: 47-63Hz
Maximum Operating Temperature: -40°C (104°F) to 60°C (140°F)
Standard NEMA 1 Steel Enclosure (includes Green Phase LEDs plus Red Service LED)
– Size: 6.95" W x 9.5" L x 3.78" D (excluding offset nipple) [176.65mm x 241.30mm x 96.04mm]
– Weight: 14lb [6.3kg]
Standard Flexible Conduit Included
Standard Included 10 AWG Conductors (18")
Typical connection: #10 AWG and 30A breaker

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
High Energy Parallel Design for Category C High Applications
For external Mounting on Electrical Distribution Equipment, Motor Control Centers, Panelboards, etc.
Fused and Thermally Protected Robust 25mm MOVs
Solid State Bidirectional Operation

Diagnostic Monitoring

Green LED Status indicator per phase
Red LED Service indicator
Form C Dry Contacts 250V, 5A, includes 18 AWG pigtails

Quality, Standards & Validation

Type 2 UL 1449 Fourth Edition, cUL for Canada
UL file: VZCA.E324279 at www.UL.com
ISO 9001:2008 Quality Management System
ISO 17025:2005 Laboratory Qualification

Model 330 Number Configurator & Options



Common Systems

- 120S = 240/120V Split Phase - 1Ø, 3W+Grnd, (Fig 1)
- 120Y = 208Y/120V Wye - 3Ø 4W+Grnd, (Fig 2)
- 240H = 240/120V High Leg Delta (B High), (Fig 3)
- 277Y = 480Y/277V Wye - 3Ø 4W+Grnd, (Fig 2)
- 480D = 480V Delta - 3Ø 3W+Grnd, (Fig4) & HRG Wye
- Other Available Systems - Confirmation Encouraged
- 120N = 120V Single Phase (Fig 5)
- 208D = 208V Delta - 3Ø, 3W+Grnd (Fig 4)
- 230Y = 400Y/230V Wye - 3Ø 4W+Grnd (Fig 2)
- 230N = 230V Single Phase (Fig 5)
- 240C = 240V B Corner Grnd Delta, 3Ø 3W+Grnd (Fig 6)
- 240D = 240V Delta - 3Ø 3W+Grnd (Fig 4)
- 277N = 277V Single Phase (Fig 5)
- 277S = 480/240V Split Phase, or Two legs of Wye, (Call)
- 400D = 400V Delta - 3Ø, 3W+Grnd (Fig 4)
- 480C = 480V B Corner Grnd Delta - 3Ø 3W+Grnd (Fig 6)
- 480H = 480/240V High Leg Delta (B High), (Fig 3)

A = All Standard Modes for that Voltage Code Delete Mode Options & Alt. Configurations: Contact Factory

W = Wire Leads 10 AWG

16 = 160kA Per Phase (80kA Per Mode)

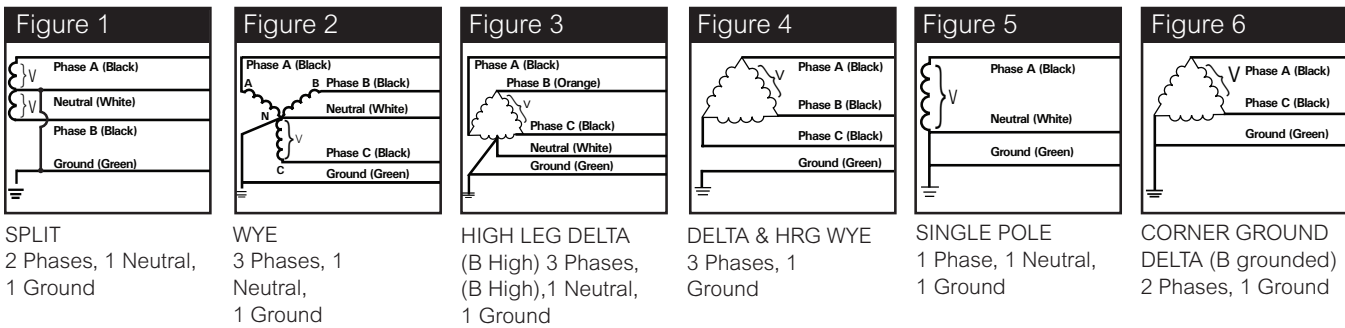
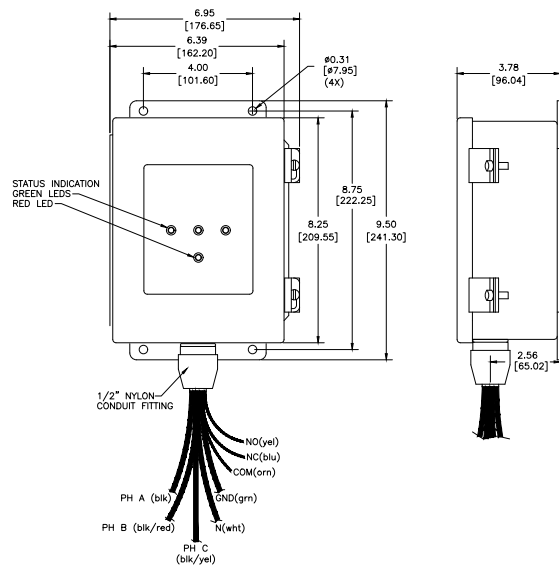
R = LEDs, Dry Contact Relay

D = NEMA 1 Steel

2 = Type 2 (Includes cUL Marking for Canada)

0 = No Trailing Accessory/Option

X = Yes, Trailing Accessory/Option



Performance Data

Common Power Systems		UL 1449 Fourth Edition Test Data						
		Voltage Protection Ratings (VPR - 3kA)				I _n	SCCR	MCOV
		L-N	L-G	N-G	L-L			
120S	= 240/120V Split Phase	600	600	600	900	10kA	65kA	150
120Y	= 208Y/120V 3Ø Wye	600	600	600	900	10kA	65kA	150
240H	= 240/120V B High Leg Delta	600/1000	600/1000	600	900/1500	10kA	65kA	150/320
277Y	= 480Y/277V 3Ø Wye	1000	1000	900	1800	10kA	65kA	320
480D	= 480V 3Ø Delta	-	1800	-	1800	10kA	65kA	640