



**Features:**

- UL 1449 Fourth Edition Listed
- 160kA per phase rating
- UL required OCP included inside
  - Type 2 SPDs for use on Load Side of Main Disconnect
- 10kA Inominal
- 65kA SCCR
- Voltage Specific Design – Highly configurable
- 5 year limited 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

**330** Model 330 Product Line

**□□□□** Voltage Codes

**P** Per Phase kA Rating System

**16** kA Rating Per Phase

**A** Modes of Protection

**W** Connection Type

**R** Monitoring Options

**D** Enclosure

**2** UL 1449 Type 1/Type 2

**□** Post Part Number Accessory/Option(s)

**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

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

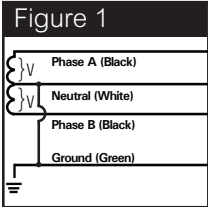
R = LEDs, Dry Contact Relay

W = Wire Leads 10 AWG

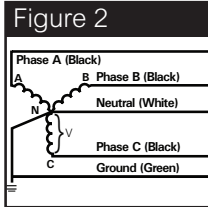
D = NEMA 1 Steel

2 = Type 2 (Includes cUL Marking for Canada)

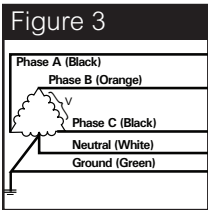
0 = No Trailing Accessory/Option  
 X = Yes, Trailing Accessory/Option



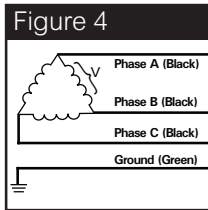
**Figure 1**  
 SPLIT  
 2 Phases, 1 Neutral,  
 1 Ground



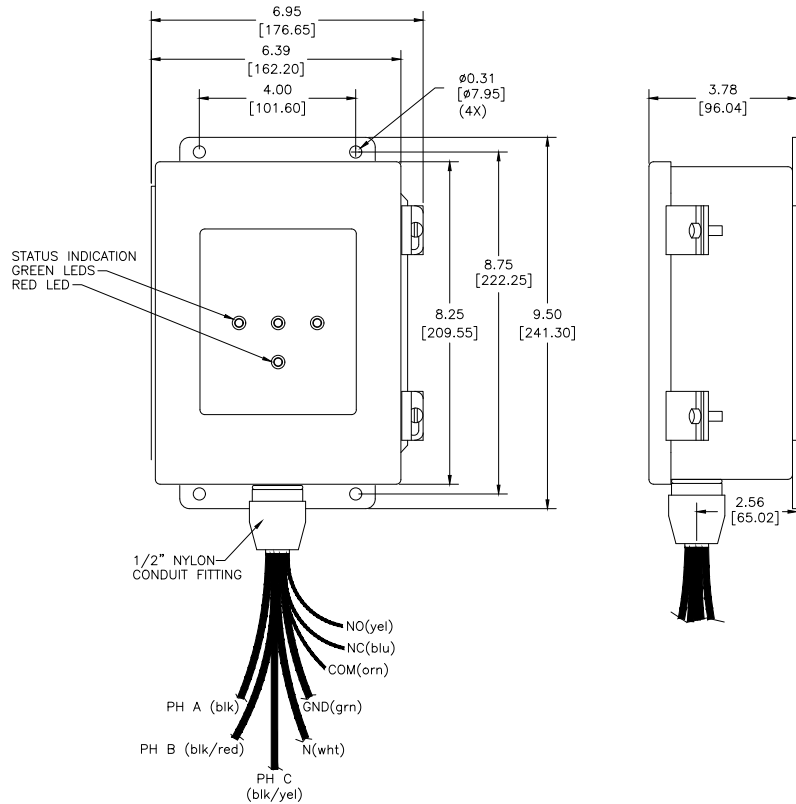
**Figure 2**  
 WYE  
 3 Phases, 1  
 Neutral,  
 1 Ground



**Figure 3**  
 HIGH LEG DELTA  
 (B High) 3 Phases,  
 (B High), 1 Neutral,  
 1 Ground



**Figure 4**  
 DELTA & HRG WYE  
 3 Phases, 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	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