



Benefits:

- UL 1449 Fourth Edition Listed
- 180kA - 36kA Per Phase ratings (single & split phase)
- 20kA I-nominal (10kA In on 36kA models)
- 100kA SCCRs
- UL 96A Lightning Protection Master Label compliant (@20kA)
- Optional Sinewave Tracking EMI/RFI Noise Filtering
- Pre-attached 10 AWG Leads
- All Modes of Protection
- 5 year warranty (longer optional)
- Data table on back

Performance Specifications

Surge Capacities	L-N	L-G	N-G
180kA Per Phase	90kA	90kA	90kA
144kA Per Phase	72kA	72kA	72kA
108kA Per Phase	54kA	54kA	54kA
72kA Per Phase	36kA	36kA	36kA
36kA Per Phase (10kA I _n)	18kA	18kA	18kA
UL 1449 Fourth Edition Listed and CSA 22.2 No. 269.2			
UL 1449 Fourth Edition tested Inominal (I _n): 20kA			
UL 1449 Fourth Edition tested SCCR: 100kA – as low as 700V, including circuit breaker			
Optional AC Sinewave Tracking Filter with EMI/RFI Filtering up to -50dB from 10kHz to 100MHz			
Repetitive Impulse: 5,000 hits			
Less than 1 nanosecond response time			

Physical Specifications

Relative Humidity Range: 0 - 95% non-condensing
Operating Frequency: 40 - 500Hz
Operating Temperature: -40°C (-40°F) to +85°C (185°F)
Weight: 3lbs (1.5kg)
NEMA 4X Polycarbonate enclosure: UL 746C(f1) & UL 94-5VA
Dimensions: 8.3" x 3.6" x 3.0"
3/4" female threaded hub
Pre-wired with 3' (1m) of 10 AWG conductor
Typical connection: 10 AWG and 20 - 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
– UL 96A and NFPA 780 Lightning Protection
– IEC 61643, CE
High Energy Parallel Design for Category C-High applications
For External Mounting next to Electrical Distribution Equipment, Switchgear, Motor Controls Centers, Panelboards, etc.
Robust 25mm Thermally Protected MOVs
Solid State Bidirectional Operation

Diagnostic Monitoring

LED indicator monitoring:
– Separate L-N and L-G LEDs for each phase
LEDs extinguish upon Phase Loss
Optional on Split & Single Phase: Form C Dry Contacts (Contacts rated 240V, 5A; leads are pre-wired through nipple with 18 AWG)

Quality, Standards & Validation

UL 1449 Fourth Edition Listed and CSA 22.2 No. 269.2
UL file: VZCA.E321351 at www.UL.com
RoHS-compliant
Burn-In tested prior to shipment
ISO 9001:2008 Quality Management System
ISO 17025:2005 Laboratory Qualification

Model 360 Number Configurator & Options

360

Model 360 Product Line

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Voltage Codes

P

Per Phase kA Rating System

□□

kA Rating Per Phase

A

Modes of Protection (Default)

W

Connection Type

□

Monitoring Options

J

Enclosure

2

UL 1449 Type

□

Accessory/Option(s)

Common Systems

120S = 240/120V Split Phase - 1Ø, 3W+Grnd, (Fig 1)
 120N = 120V Single Phase (Fig 2)

18 = 180kA
 14 = 144kA
 10 = 108kA
 07 = 72kA
 03 = 36kA

W = Wire Leads

S = LEDs
 R = LEDs / Relay

2 = UL 1449 Type 2

0 = No Trailing Accessory/Option
 X = Yes Trailing Accessory/Option
 XADDF1 = EMI/RFI Filtering

J = NEMA 4X Non-Metallic (Polycarbonate)
 Size - 8.3" x 3.6" x 3.0"

Available Accessories (Order Separately)
 XMFMKIT - Flush Mount Kit

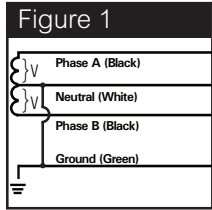


Figure 1
 SPLIT
 2 Phases, 1 Neutral,
 1 Ground

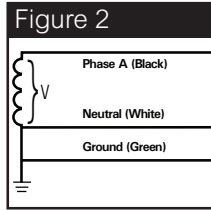
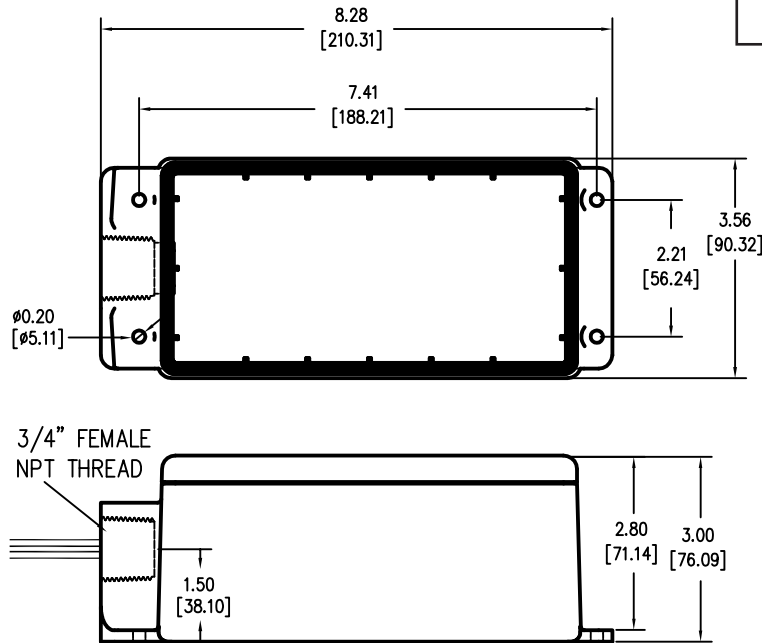


Figure 2
 SINGLE POLE
 1 Phase, 1 Neutral,
 1 Ground



Performance Data

Common Power Systems		UL 1449 Fourth Edition Test Data							
		Voltage Protection Ratings (VPR - 3kA)				Type	I _n	SCCR	MCOV
		L-N	L-G	N-G	L-L				
120S	= 240/120V Split Phase	700	700	700	1200	Type 2	20kA	100kA	150
120N	= 120 Single Phase	700	700	700	-	Type 2	20kA	100kA	150