



Features:

- UL 1449 Fourth Edition listed
- 180kA - 36kA per phase ratings (single & split phase)
- 20kA I-nominal (10kA I_n on 36kA models)
- 100kA SCCR's
- Complies with UL 96A 12th Edition Master Label requirements for Lighting Protection Systems
- Optional sinewave tracking EMI/RFI noise filtering
- Pre-attached 10 AWG leads
- All modes of protection
- 5-year limited warranty
- 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 in nominal (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° F (-40° C) to 185° F (+85° C)
Weight: 3 lbs (1.5kg)
NEMA 4X polycarbonate enclosure: UL 746C(f1) and UL 94-5VA
Dimensions: 8.3 x 3.6 x 3.0 in. (210.8 x 91.4 x 76.2 mm)
3/4 in female threaded hub
Pre-wired with 3 foot (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
– Complies with UL 96A 12th Edition master label requirements for lighting protection systems 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 form C dry contacts (contacts rated 240V, 5A; leads are pre-wired through nipple with 18 AWG)

Quality, Standards and Validation

UL 1449 Fourth Edition Listed and CSA 22.2 No. 269.2
UL file: VZCA.E321351 at www.UL.com
RoHS-compliant
Operational test performed before shipment
ISO 9001:2008 quality management system
ISO 17025:2005 laboratory qualification

Model 360 Number Configurator & Options

360

Model 360 Product Line



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 + ground (Fig 1)
120N = 120V Single Phase (Fig 2)

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

W = Wire leads

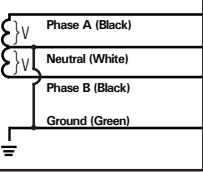
S = LEDs
R = LEDs / relay

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 in.
(210.8 x 91.4 x 76.2 mm)

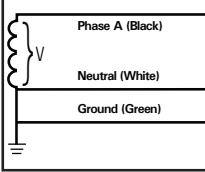
Available Accessories (Order Separately)
XMFMKIT - Flush Mount Kit

Figure 1



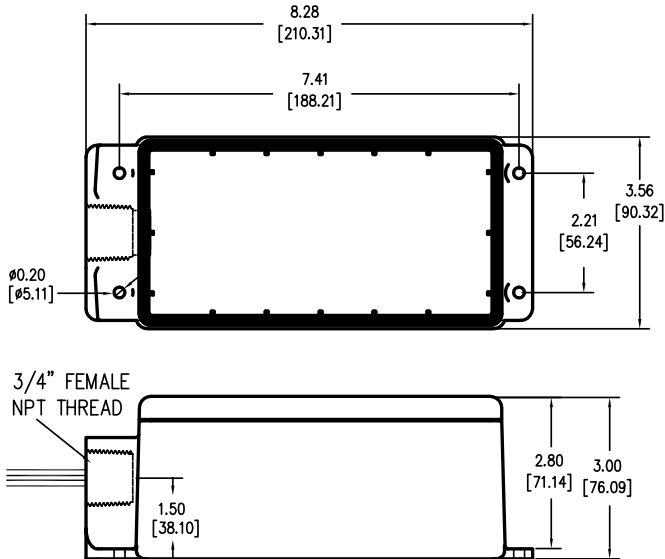
SPLIT
2 Phases, 1 Neutral,
1 Ground

Figure 2



SINGLE POLE
1 Phase, 1 Neutral,
1 Ground

Dimensions (in. / mm)



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