



Features:

- UL 1449 Fourth Edition listed
- 72kA per phase ratings (split phase)
- 20kA I-nominal
- 100kA SCCRs
- Complies with UL 96A 12th Ed. Master Label requirements for Lighting Protection Systems
- Pre-attached 10 AWG leads
- All modes of protection
- 10-year limited warranty
- Data table on back

Performance Specifications

Surge capacities	L-N	L-G	N-G
72kA per phase	36kA	36kA	36kA
108kA per phase	54kA	54kA	54kA
144kA per phase	72kA	72kA	72kA
180kA per phase	90kA	90kA	90kA
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)			
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 ft. (1m) of 10 AWG conductor
Typical connection: 10 AWG and 20 - 30A breaker

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

Design Attributes

Designed, manufactured and tested consistent with: <ul style="list-style-type: none"> - 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 and 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, plus categories B and A
Targeted to the residential market
For external mounting on electrical distribution equipment, switchgear, switchboards, motor control centers, panelboards, transfer switches, etc.
Robust 25mm thermally protected MOVs
Solid State Bidirectional Operation

Diagnostic Monitoring

Two green LEDs - one per phase
Red service LED
Audible alarm
Green LEDs extinguish upon phase loss or loss of surge protection
Unique reference to ground monitoring circuit provides notification if excess neutral - ground voltage is present. red LED flashes and audible alarm activates.

Model 335 Number Configurator & Options

335

Model 335
Product Line

120S

Voltage Codes

Common Systems

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

P

Per Phase
kA Rating
System



kA Rating
Per Phase

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

A

Modes of
Protection
(Default)

U = LEDs and audible alarm

W

Connection
Type

W = Wire leads

U

Monitoring
Options

J

Enclosure

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)

2

UL 1449
Type

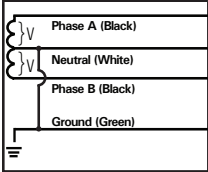
2 = UL 1449 type 2

0

Accessory/
Option(s)

0 = No trailing accessory/option

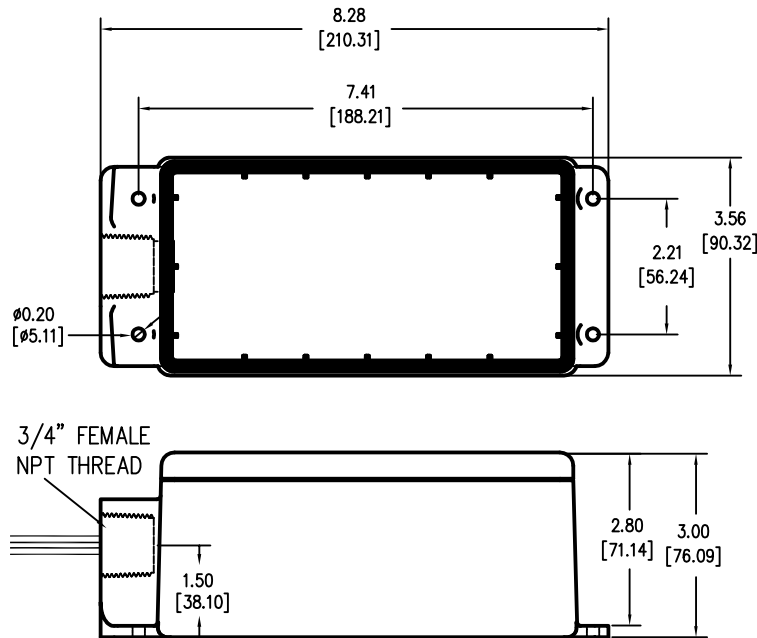
Figure 1



SPLIT
2 Phases, 1 Neutral,
1 Ground

**Available accessories
(order separately)**
XMFMKIT - flush mount kit

Dimensions (in. / mm)



Performance Data (TBD)

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	600	600	600	900	Type 2	20kA	100kA	150