X Series

Surge Protective Device

With high levels of protection and advanced features including surge counters and performance monitoring, the X Series are **DESIGNED TO PROVIDE THE GREATEST LEVEL OF PROTECTION** where surge damage would lead to excessive loss or downtime on expensive machinery.



Features

- Maximum Surge Current Rating 200kA per Mode, 400kA per Phase
- UL 1449 Listed
- Stacked MOV Design
- Low Voltage Protection Ratings
- 20kA Nominal Discharge Current Rating (I_n)
- 200kA SCCR
- Advanced TOV/Surge Counter w/ time & date stamping
- NEMA 4
- EMI/RFI Filtering

Product Specifications

General Specifications	
Maximum Surge Current Rating	200kA per Mode, 400kA per Phase
UL 1449 Type Designation	Type 2
UL 1449 Nominal Discharge Current Rating (I_n)	20kA
UL 1449 Short Circuit Current Rating (SCCR)	200kA
Repetitive Impulse	10,000 hits per mode
Response Time	<1 ns

Design Specifications
Stacked MOV design for High Energy Handling
Thermally Protected MOVs
External Parallel Connected for Mounting next to Electrical Gear
Multi-mode protection

Diagnostic Monitoring Specifications
2 Tri-Color LEDs per phase
Audible Alarm
Form C Dry Contacts, 240V, 2A
PIC Micro Contoller w/ rotatable Graphics LCD
Surge/TOV Counter w/ Time & Date stamp
Push to Test Function

Filtering
Yes, UL 1283

Enclosure
Aluminum
NEMA 4
Lid screwed and gasketed
3/4 inch NPT Side Mount Nipple

Physical Specifications	
Humidity Range	0-95% non-condensing
Operating Frequency	50-60Hz
Operating Temperature	-31°F (-35°C) to 167°F (+75°C)
Enclosure Type	NEMA 4
Typical Connection	#12 AWG Type TEW

UL 1449 Performance Data

System Voltage	Voltage Protection Rating (VPR)				Maximum Continuous Operating Voltage (MCOV)
	L-N	L-G	N-G	L-L	
120/240 VAC/CA SPLIT PHASE	600V	700V	600V	900V	175V/300V*
208Y/120 VAC/CA 3 PHASE WYE	600V	600V	600V	1000V	150V/300V*
480Y/277 VAC/CA 3 PHASE WYE	1200V	1200V	1200V	2000V	320V/700V*

*Second voltage refers to L-L rating

Standards Compliance & Certifications
UL 1449 5th Edition: 2021, cULus, UL1283 (UL File: VZCA.E317603), UL 96A Compliant, ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, NEC Article 285
ISO 9001:2014 Quality Management System, ISO 17025:2007 Laboratory Certification (UL DAP Program)
100% Quality Tested prior to shipping, Made in the USA

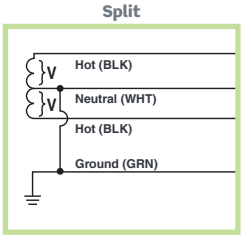
Ordering Information

X2120-C	120/240 VAC/CA, SPLIT PHASE 400kA PER PHASE
X3120-YC	208Y/120 VAC/CA, THREE PHASE WYE 400kA PER PHASE
X3277-YC	480Y/277 VAC/CA, THREE PHASE WYE 400kA PER PHASE

Wiring Configurations

X2120-C

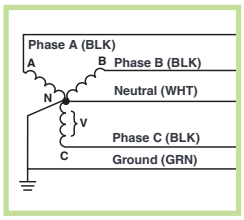
Split



2 Hots, 1Neu, 1 Grnd

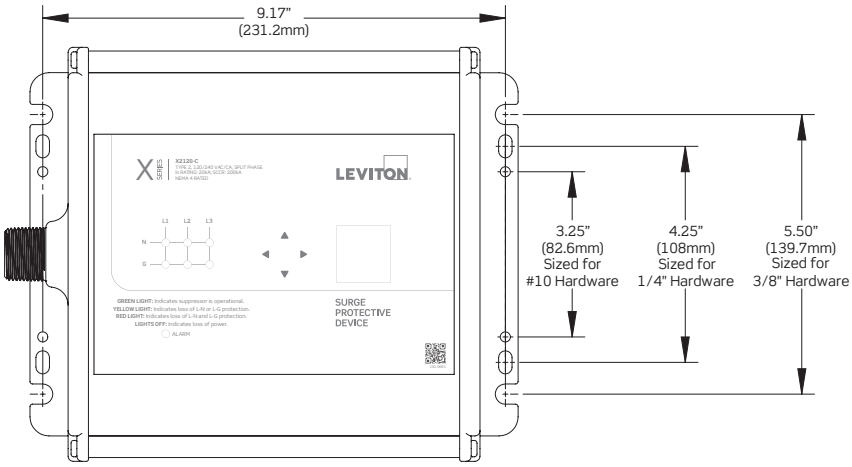
X3120-YC
X3277-YC

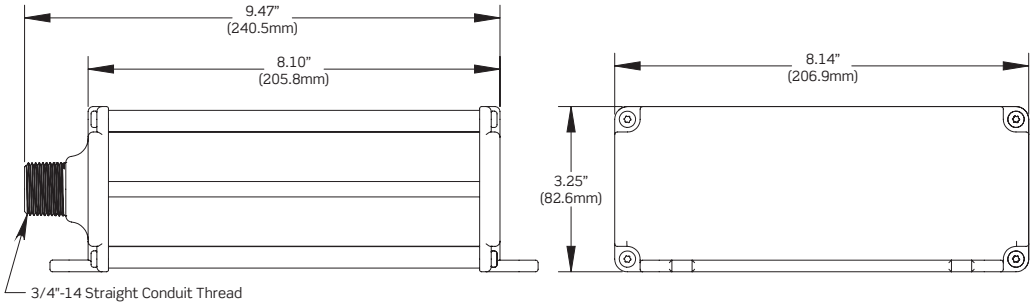
WYE



3 Hots, 1 Neu, 1 Grnd

Architectural Drawings (Dimensions)





Size and Mechanical Specifications	
Dimensions	9.47" x 8.14" x 3.25"
Enclosure Type	NEMA 4
Installation Type	Indoor / Outdoor

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