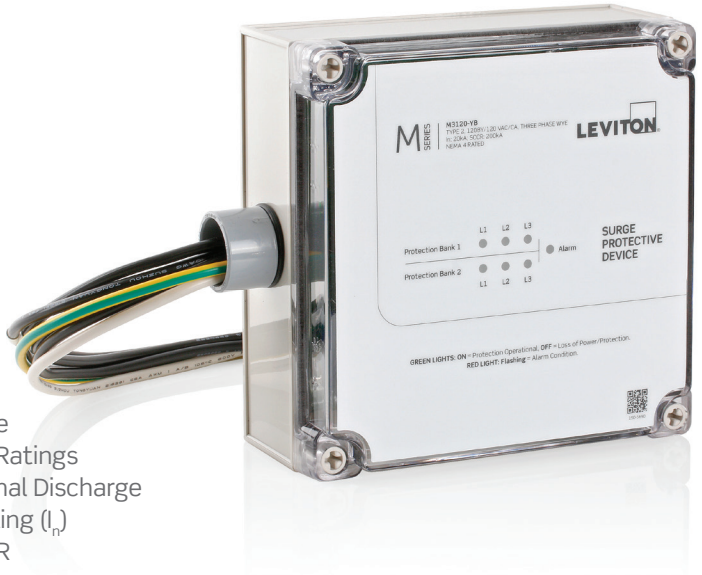
M Series

Surge Protective Device

Ideal for **POINT-OF-ENTRY** or **MAIN SERVICE ENTRANCE INSTALLATIONS**, the M series offers greater protection in a wide variety of voltage configurations.



Features

- Maximum Surge Current Rating 130kA per Mode, 260kA per Phase
- UL 1449 Listed
- EMI/RFI Filtering
- NEMA 4
- Low Voltage Protection Ratings
- 20kA Nominal Discharge Current Rating (I_n)
- 200kA SCCR

Product Specifications

General Specifications	
Maximum Surge Current Rating	130kA per Mode, 260kA 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

Design Specifications
Custom MOV design for High Energy Handling in IEEE Category C locations
Thermally Protected MOVs
External Parallel Connected for Mounting next to Electrical Gear
Multi-mode protection

Diagnostic & Status Monitoring Specifications
Phase Loss Monitoring
Audible Alarm
Form C Dry Contacts, 240V, 2A
LED Protection Status Monitoring
GRM (Ground Reference Monitoring), N-G voltage > 20V detected

Enclosure
Polycarbonate
NEMA 4
3/4 inch straight conduit fitting; 3/4 inch conduit to 3/4 inch male NPT adapter fitting included

Filtering
Yes, UL 1283

Physical Specifications	
Humidity Range	0-95% non-condensing
Operating Frequency	50-60Hz
Operating Temperature	-40°F (-40°C) to 185°F (+85°C)
Typical Connection	#10 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	700V	800V	600V	1200V	180V/360V*
208Y/120 VAC/CA 3 PHASE WYE	600V	700V	600V	1000V	150V/300V*
480Y/277 VAC/CA 3 PHASE WYE	1200V	1200V	1000V	2000V	350V/700V*
240 VAC/CA 3 PHASE DELTA	–	900V	–	1800V	275V
600Y/347 VAC/CA, 3 PHASE WYE	1500V	1500V	1500V	2500V	440V/880V*
480 VAC/CA 3 PHASE DELTA	–	1800V	–	1800V	550V
600 VAC/CA 3 PHASE DELTA	–	2000V	–	2000V	680V

*Second voltage refers to L-L rating

Standards Compliance & Certifications
UL 1449 5th Edition: 2021, cULus, (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) Compliance with RoHS, REACH & California Prop 65
100% Quality Tested prior to shipping, Made in Greece

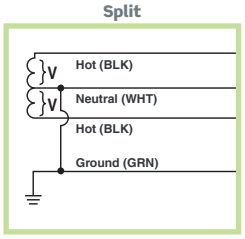
Ordering Information

M2120-B	120/240 VAC/CA, SPLIT PHASE
M3120-YB	208Y/120 VAC/CA, THREE PHASE WYE
M3277-YB	480Y/277 VAC/CA,THREE PHASE WYE
M3240-DB	240 VAC/CA, THREE PHASE DELTA
M3347-YB	600Y/347 VAC/CA,THREE PHASE WYE
M3480-DB	480 VAC/CA, THREE PHASE DELTA
M3600-DB	600 VAC/CA, THREE PHASE DELTA

Wiring Configurations

M2120-B

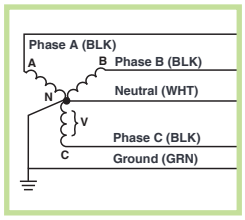
Split



2 Hots, 1Neu, 1 Grnd

M3120-YB
M3277-YB
M3347-YB

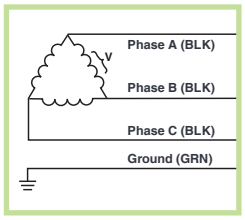
WYE



3 Hots, 1 Neu, 1 Grnd

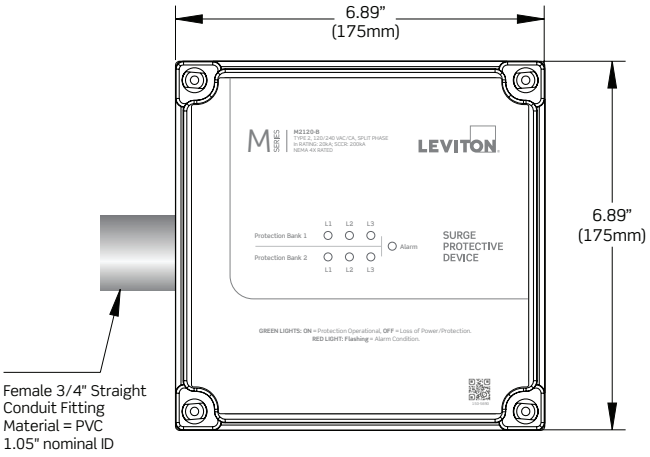
M3240-DB
M3480-DB
M3600-DB

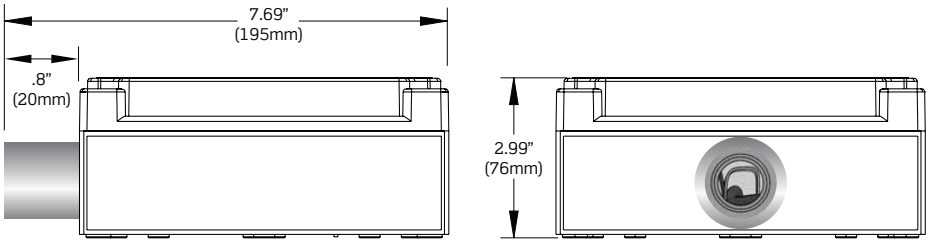
Delta & HRG



3 Hots, 1 Grnd

Architectural Drawings (Dimensions)





Size and Mechanical Specifications	
Dimensions	7.69" x 2.99" x 6.89"
Enclosure Type	Polycarbonate NEMA 4
Installation Type	Indoor / Outdoor

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Q-1506

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