

Surgelogic®

Surge Protection Device

EMA, EBA, and HWA Series

Class 1310

Catalog
1310CT0202R5/07
2007



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Surgeloc[®] Surge Protection Device

Product Descriptions

Product Descriptions

Description—EMA Series



The Surgeloc[®] EMA Series surge protective device is a modular parallel transient voltage surge suppressor (TVSS). The EMA device has multi-stage suppression circuits consisting of field-proven, fast-acting metal oxide varistors (MOVs).

A surge suppression path is provided for each mode, line-to-neutral (L–N), line-to-line (L–L), line-to-ground (L–G), and neutral-to-ground (N–G). Each surge suppression mode is individually fused and uses circuitry with thermal cutouts to isolate the TVSS and ensure shutdown in the event of MOV damage during severe overvoltages, even when operated on high-fault current power systems.

The suppression elements are encapsulated in a UL[®] Recognized potting material, another performance element that provides additional protection. A filter provides EMI / RFI noise attenuation. On-line diagnostics continuously monitor the device status, and LEDs signal a loss of a suppression circuit. An audible alarm with an enable / disable feature and dry contacts are included in the standard diagnostic package.



EMA Design Features

- External mounting next to panelboards, switchboards, switchgear, or motor control centers (MCCs)
- Individually fused suppression modes
- Thermal cutout
- Copper bus bar construction
- Solid state bi-directional
- Push-to-test on-line diagnostic display
- Front panel alarm with enable / disable switch
- LED indicators indicate loss of protection, or fully operational circuit
- High-energy parallel design for ANSI / IEEE C62.41 and C62.45 category B and C3 applications.
- Duty cycle tested (ANSI C62.41 C3, 10 kA 20 kV) minimum 5000 impulses
- Short circuit current rating: 200 kA
- EMI / RFI filtering up to -30 dB (100 kHz to 100 MHz)
- 5-year warranty
- UL 1449 Listed
- UL 1283 Listed



EMA Performance Features

Surge Capacity	L–N	L–G	N–G	(120 V Units)
120 kA / phase	60 kA	60 kA	120 kA	(90 kA)
160 kA / phase	80 kA	80 kA	120 kA	(90 kA)
240 kA / phase	120 kA	120 kA	120 kA	(90 kA)
320 kA / phase	160 kA	160 kA	240 kA	(180 kA)
480 kA / phase	240 kA	240 kA	240 kA	(180 kA)



EMA Series Voltage Specifications		UL Suppression Voltage Rating (SVR)				
Catalog Number	Service Voltage	L–N	L–G	N–G	L–L	MCOV ¹
TVS1EMA . . .	120 / 240 V, 1-phase	400 V	400 V	400 V	800 V	150 V
TVS2EMA . . .	208Y / 120 V, 3-phase or 3- or 4-wire	400 V	400 V	400 V	800 V	150 V
TVS3EMA . . .	240 / 120 V, 3-phase high-leg delta	800 / 400 V	400 V	400 V	1500 / 800 V	275 / 150 V
TVS4EMA . . .	480Y / 277 V, 3-phase, 3- or 4-wire	800 V	800 V	800 V	1500 V	320 V
TVS7EMA . . .	380Y / 220 V, 3-phase, 3- or 4-wire	800 V	800 V	800 V	1500 V	320 V
TVS8EMA . . .	600Y / 347 V, 3-phase, 3- or 4-wire	1200 V	1200 V	1200 V	2000 V	420 V

¹ MCOV = Maximum Continuous Operating Voltage

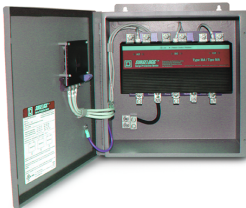
Description—EBA series



The SurgeLogic® EBA series surge protective device is a non-modular parallel transient voltage surge suppressor (TVSS). The EBA device has multi-stage suppression circuits consisting of field-proven, fast-acting metal oxide varistors (MOVs).

A surge suppression path is provided for each mode, line-to-neutral (L–N), line-to-line (L–L), line-to-ground (L–G), and neutral-to-ground (N–G). Each surge suppression mode is individually fused and uses circuitry with thermal cutouts to isolate the TVSS and ensure shutdown in the event of MOV damage during severe overvoltages, even when operated on high-fault current power systems.

The suppression elements are encapsulated in a UL® Recognized potting material, another performance element that provides additional protection. A filter provides EMI/RFI noise attenuation. On-line diagnostics continuously monitor the device status, and LEDs signal a loss of a suppression circuit. An audible alarm with an enable/disable feature and dry contacts are included in the standard diagnostic package.



EBA Design Features

- External mounting next to panelboards, switchboards, switchgear, or motor control centers (MCCs)
- Individually fused suppression modes
- Thermal cutout
- Solid state bi-directional
- Push-to-test on-line diagnostic display
- Front panel alarm with enable/disable switch
- LED indicators indicate loss of protection or fully operational circuit
- High-energy parallel design for ANSI/IEEE C62.41 and C62.45 category B and C3 applications
- Duty cycle tested (ANSI C62.41 C3, 10 kA 20kV) minimum 5000 impulses
- Short circuit current rating: 200 kA
- EMI/RFI filtering up to -30 dB (100 kHz to 100 MHz)
- 5-year warranty
- UL 1449 Listed
- UL 1283 Listed

EBA Performance Features

Surge Capacity	L–N	L–G	N–G	(120 V Units)
120 kA / phase	60 kA	60 kA	120 kA	(90 kA)
160 kA / phase	80 kA	80 kA	120 kA	(90 kA)
240 kA / phase	120 kA	120 kA	120 kA	(90 kA)

EBA Series Voltage Specifications		UL Suppression Voltage Rating (SVR)				
Catalog Number	Service Voltage	L–N	L–G	N–G	L–L	MCOV ¹ ▲
TVS1EBA...	120/240 V, 1-phase	400 V	400 V	400 V	800 V	150 V
TVS2EBA...	208Y/120 V, 3-phase, 3- or 4-wire	400 V	400 V	400 V	800 V	150 V
TVS3EBA...	240/120 V, 3-phase, high-leg delta	800/400 V	400 V	400 V	1500/800 V	275/150 V
TVS4EBA...	480Y/277 V, 3-phase, 3- or 4-wire	800 V	800 V	800 V	1500 V	320 V
TVS7EBA...	380Y/220 V, 3-phase, 3- or 4-wire	800 V	800 V	800 V	1500 V	320 V
TVS8EBA...	600Y/347 V, 3-phase, 3- or 4-wire	1200 V	1200 V	1200 V	2000 V	420 V

¹ MCOV = Maximum Continuous Operating Voltage

Surgelogic® Surge Protection Device

Product Descriptions

Description—HWA Series



The Surgelogic® HWA series surge protective device is a non-modular, nipple mounted parallel transient voltage surge suppressor (TVSS). The HWA device has multi-stage suppression circuits consisting of field-proven, fast-acting metal oxide varistors (MOVs).

A surge suppression path is provided for each mode, line-to-neutral (L–N), line-to-line (L–L), line-to-ground (L–G), and neutral-to-ground (N–G). Each surge suppression mode is individually fused and uses circuitry with thermal cutouts to isolate the TVSS and ensure shutdown in the event of MOV damage during severe overvoltages, even when operated on high-fault current power systems.

The suppression elements are encapsulated in a UL® Recognized potting material, another performance element that provides additional protection. A filter provides EMI/RFI noise attenuation. On-line diagnostics continuously monitor the device status, and LEDs signal a loss of a suppression circuit. An audible alarm and dry contacts are included in the standard diagnostic package.

HWA Design Features

- External mounting to panelboards
- Individually fused suppression modes
- Thermal cutout
- Solid state bi-directional
- LED indicators indicate loss of protection or fully operational circuit
- High-energy parallel design for ANSI/IEEE C62.41 and C62.45 category A, B, and C3 applications
- Short circuit current rating: 200 kA
- EMI/RFI filtering up to -30 dB (100 kHz to 100 MHz)
- UL 1449 Listed
- UL 1283 Listed

HWA Performance Features

Surge Capacity	L–N	L–G	N–G
50 kA / phase	25 kA	25 kA	25 kA
80 kA / phase	40 kA	40 kA	40 kA
120 kA / phase	60 kA	60 kA	40 kA

HWA Series Voltage Specifications		UL Suppression Voltage Rating (SVR)				
Catalog Number	Service Voltage	L–N	L–G	N–G	L–L	MCOV ¹
TVS1HWA...	120/240 V, 1-phase	400 V	400 V	400 V	800 V	150 V
TVS2HWA...	208Y/120 V, 3-phase, 3- or 4-wire	400 V	400 V	400 V	800 V	150 V
TVS3HWA...	240/120 V, 3-phase, high-leg delta	800/400 V	400 V	400 V	1500/800 V	275/150 V
TVS4HWA...	480Y/277 V, 3-phase, 3- or 4-wire	800 V	800 V	800 V	1600 V	320 V
TVS7HWA...	380Y/220 V, 3-phase, 3- or 4-wire	800 V	800 V	800 V	1600 V	320 V
TVS8HWA...	600Y/347 V, 3-phase, 3- or 4-wire	1200 V	1200 V	1200 V	2000 V	420 V

¹ MCOV = Maximum Continuous Operating Voltage

Application Information

The effects of lightning and the damage caused by lightning-generated transients are well known. The failure of sensitive electronic equipment in a facility located in a high lightning area can easily be attributed directly to lightning-generated transients. Transient protection can be installed on the power distribution system to protect this equipment from these externally generated transients. Lower magnitude transients generated within a facility and their effect on microprocessor-based equipment are less obvious than the transients induced by lightning. Transient voltages generated from inductive motors, pumps, electric welders, etc., may not be large enough to cause immediate damage, but they can cause sensitive equipment to malfunction.

A damaging transient voltage can enter a facility from several locations. The highest level of protection should be provided at the service entrance. A second level of protection should be provided at distribution points serving critical areas, for example, computer rooms, accounting areas, and laboratories. Other facility entry points that should be protected include panels serving outdoor lights or outdoor equipment, such as motors. Protection should also be provided for critical areas with sensitive equipment essential to the company.

Square D® brand TVSS products offered by Schneider Electric provide protection at every level of the electrical distribution system.

Typical applications include:

- Banking
- Education
- Government
- Petrochemical
- Military
- Publishing
- Transportation
- Wastewater/Sanitation
- Medical
- Financial
- Telecommunications
- Automated Manufacturing
- Retail
- Utility
- Insurance
- Data Processing

NOTE: Refer to the product-specific catalog for information about internally mounted TVSS devices.

Selection and Specifications

EMA Series

Service Voltage	Peak Surge Current Rating Per Phase	Catalog Number ¹
120/240 V, 1-phase, 3-wire	120 kA	TVS1EMA12*_ _
	160 kA	TVS1EMA16*_ _
	240 kA	TVS1EMA24*_ _
	320 kA	TVS1EMA32*_ _
	480 kA	TVS1EMA48*_ _
208Y/120 V, 3-phase, 3- or 4-wire	120 kA	TVS2EMA12*_ _
	160 kA	TVS2EMA16*_ _
	240 kA	TVS2EMA24*_ _
	320 kA	TVS2EMA32*_ _
	480 kA	TVS2EMA48*_ _
240/120 V, 3-phase, 4-wire, high-leg delta	120 kA	TVS3EMA12*_ _
	160 kA	TVS3EMA16*_ _
	240 kA	TVS3EMA24*_ _
	320 kA	TVS3EMA32*_ _
	480 kA	TVS3EMA48*_ _
480Y/277 V, 3-phase, 3- or 4-wire	120 kA	TVS4EMA12*_ _
	160 kA	TVS4EMA16*_ _
	240 kA	TVS4EMA24*_ _
	320 kA	TVS4EMA32*_ _
	480 kA	TVS4EMA48*_ _
380Y/220 V, 3-phase, 3- or 4-wire	120 kA	TVS7EMA12*_ _
	160 kA	TVS7EMA16*_ _
	240 kA	TVS7EMA24*_ _
	320 kA	TVS7EMA32*_ _
	480 kA	TVS7EMA48*_ _
600Y/347 V, 3-phase, 3- or 4-wire	120 kA	TVS8EMA12*_ _
	160 kA	TVS8EMA16*_ _
	240 kA	TVS8EMA24*_ _
	320 kA	TVS8EMA32*_ _
	480 kA	TVS8EMA48*_ _

¹ * = enclosure option, _ = any other options

Surgeologic® Surge Protection Device Selection and Specifications

EBA Series

Service Voltage	Peak Surge Current Rating Per Phase	Catalog Number ¹
120/240 V, 1-phase, 3-wire	120 kA	TVS1EBA12*_ _
	160 kA	TVS1EBA16*_ _
	240 kA	TVS1EBA24*_ _
208Y/120 V, 3-phase, 3- or 4-wire	120 kA	TVS2EBA12*_ _
	160 kA	TVS2EBA16*_ _
	240 kA	TVS2EBA24*_ _
240/120 V, 3-phase, 4-wire, high-leg delta	120 kA	TVS3EBA12*_ _
	160 kA	TVS3EBA16*_ _
	240 kA	TVS3EBA24*_ _
480Y/277 V, 3-phase, 3- or 4-wire	120 kA	TVS4EBA12*_ _
	160 kA	TVS4EBA16*_ _
	240 kA	TVS4EBA24*_ _
380Y/220 V, 3-phase, 3- or 4-wire	120 kA	TVS7EBA12*_ _
	160 kA	TVS7EBA16*_ _
	240 kA	TVS7EBA24*_ _
600Y/347 V, 3-phase, 3- or 4-wire	120 kA	TVS8EBA12*_ _
	160 kA	TVS8EBA16*_ _
	240 kA	TVS8EBA24*_ _

¹ * = enclosure option, _ = any other options

HWA Series

Service Voltage	Peak Surge Current Rating Per Phase	Catalog Number
120/240 V, 1-phase, 3-wire	50 kA	TVS1HWA50X
	80 kA	TVS1HWA80X
	120 kA	TVS1HWA12X
208Y/120 V, 3-phase, 3- or 4-wire	50 kA	TVS2HWA50X
	80 kA	TVS2HWA80X
	120 kA	TVS2HWA12X
240/120 V, 3-phase, 4-wire, high-leg delta	50 kA	TVS3HWA50X
	80 kA	TVS3HWA80X
	120 kA	TVS3HWA12X
480Y/277 V, 3-phase, 3- or 4-wire	50 kA	TVS4HWA50X
	80 kA	TVS4HWA80X
	120 kA	TVS4HWA12X
380Y/220 V, 3-phase, 3- or 4-wire	50 kA	TVS7HWA50X
	80 kA	TVS7HWA80X
	120 kA	TVS7HWA12X
600Y/347 V, 3-phase, 3- or 4-wire	50 kA	TVS8HWA50X
	80 kA	TVS8HWA80X
	120 kA	TVS8HWA12X

Specifications

Relative Humidity	0 to 95% non-condensing
Operating Frequency	47–63 Hz
Storage Temperature	-40 to +65 °C (-40 to +149 °F)
Operating Temperature	EMA, EBA: 0° to +50 °C (+32° to +122 °F)
	HWA: -25° to +60 °C (-13° to +140 °F)
Standards	CUL, UL 1449 Second Edition, UL1283
Fusing	Individually fused suppression modes (200 kAIR)

SurgeLogic® Surge Protection Device Selection and Specifications

Enclosure Options

Enclosure Type	Environment	Provides Protection Against	Available on Series	Catalog Option Number
NEMA 1	Indoor	Contact with the enclosed equipment.	EMA, EBA	A
NEMA 12	Indoor	Circulating dust, falling dirt, dripping liquids.	EMA, EBA	A
NEMA 3R	Outdoor	Falling rain, sleet. Undamaged by ice.	EMA, EBA	A
NEMA 4X Stainless	Indoor/Outdoor	Windblown dust and rain, splashing water, hose-directed water. Resists corrosion (120 kA–240 kA units only).	EMA, EBA	S
NEMA 4X Plastic	Indoor/Outdoor	Windblown dust and rain, splashing water, hose-directed water. Resists corrosion.	HWA only	None (standard)

Other Options

Option	Description	Available on Series	Catalog Option Number
Audible Alarm	The audible alarm provides sound if an inoperative condition occurs.	All	None (standard)
Dry Contacts	Provides available Form C type contacts.	All	None (standard)
Integral Disconnect	Provides a mechanical means to electrically disconnect the entire surge suppressor to facilitate the servicing of the unit's components.	EMA, EBA	I
Surge Counter	Displays the combined total number of transient voltage surges detected from L–G, L–L, L–N, and N–G since the counter was last reset.	EMA, EBA	C
Remote Monitor	Displays the alarm status of the surge protective device up to 1,000 ft (305 m) away from the unit. This option uses the dry contacts.	All	TVS12RMU
Flush-Mount Collar	Provides a mechanical means to install the surge protective device flush to the surface of a wall (120 kA–240 kA units only).	EMA, EBA	TVS12FMK (12 in.)
			TVS20FMK (20 in.)

EMA Module Replacements

System Voltage ¹	Peak Surge Current Rating	Catalog Number		
		Phase A	Phase B	Phase C
120/240 V, 1-phase, 3-wire	120 kA	MA11MA12	empty	MA11MA12
	160 kA	MA11MA16	empty	MA11MA16
	240 kA	MA11MA24	empty	MA11MA24
208Y/120 V, 3-phase, 3- or 4-wire	120 kA	MA11MA12	MA11MA12	MA11MA12
	160 kA	MA11MA16	MA11MA16	MA11MA16
	240 kA	MA11MA24	MA11MA24	MA11MA24
240/120 V, 3-phase, 4-wire, high-leg delta ²	120 kA	MA11MA12	MA31MA12	MA11MA12
	160 kA	MA11MA16	MA31MA16	MA11MA16
	240 kA	MA11MA24	MA31MA24	MA11MA24
480Y/277 V, 3-phase, 3- or 4-wire	120 kA	MA41MA12	MA41MA12	MA41MA12
	160 kA	MA41MA16	MA41MA16	MA41MA16
	240 kA	MA41MA24	MA41MA24	MA41MA24
380Y/220 V, 3-phase, 3- or 4-wire	120 kA	MA71MA12	MA71MA12	MA71MA12
	160 kA	MA71MA16	MA71MA16	MA71MA16
	240 kA	MA71MA24	MA71MA24	MA71MA24
600Y/347 V, 3-phase, 3- or 4-wire	120 kA	MA81MA12	MA81MA12	MA81MA12
	160 kA	MA81MA16	MA81MA16	MA81MA16
	240 kA	MA81MA24	MA81MA24	MA81MA24

¹ With all system voltages, TVSS devices must be grounded in accordance with all applicable standards.

² Phase B modules are different than Phase A and Phase C modules.

SurgeLogic® Surge Protection Device Selection and Specifications

EBA Module Replacements

System Voltage ¹	Peak Surge Current Rating	Catalog Number
120/240 V, 1-phase, 3-wire	120	MA1IBA12
	160	MA1IBA16
	240	MA1IBA24
208Y/120 V, 3-phase, 3- or 4-wire	120	MA2IBA12
	160	MA2IBA16
	240	MA2IBA24
240/120 V, 3-phase, 4-wire, high-lag delta	120	MA3IBA12
	160	MA3IBA16
	240	MA3IBA24
480Y/277 V, 3-phase, 3- or 4-wire	120	MA4IBA12
	160	MA4IBA16
	240	MA4IBA24
380Y/220 V, 3-phase, 3- or 4-wire	120	MA7IBA12
	160	MA7IBA16
	240	MA7IBA24
600Y/347 V, 3-phase, 3- or 4-wire	120	MA8IBA12
	160	MA8IBA16
	240	MA8IBA24

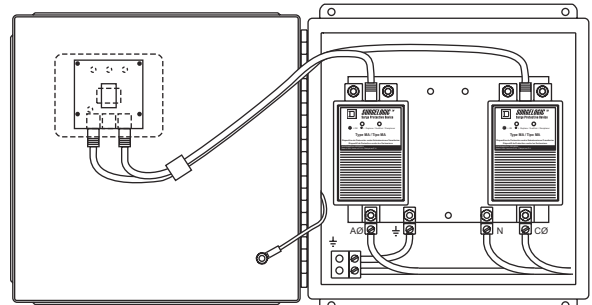
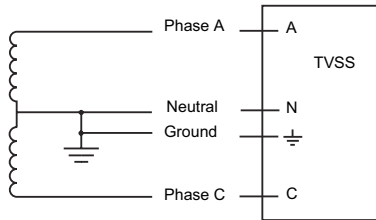
¹ With all system voltages, TVSS devices must be grounded in accordance with all applicable standards.

**Surgeloc[®] Surge Protection Device
Wiring Diagrams**

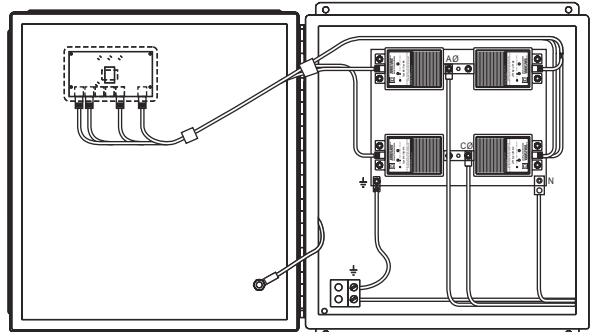
Wiring Diagrams

EMA Series

EMA 1-Phase, 3-Wire, Grounded Installation

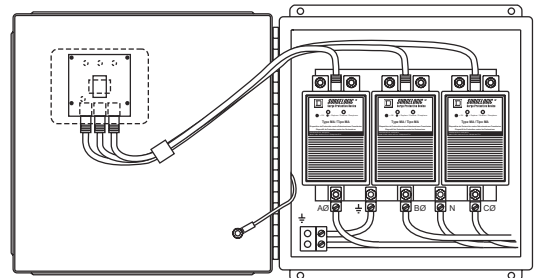
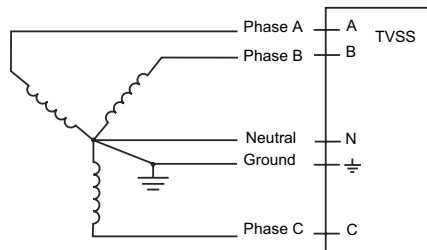


Customer Connections 120 kA–240kA

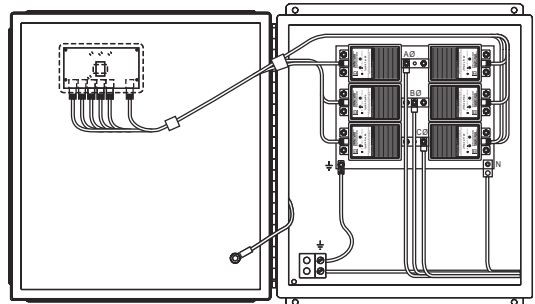


Customer Connections 320 kA–480kA

EMA 3-Phase, 4-Wire, Grounded Wye Installation



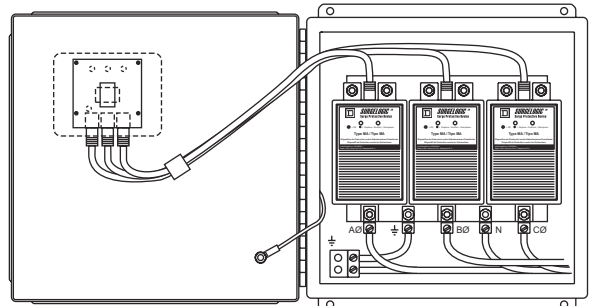
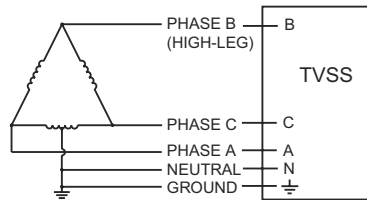
Customer Connections 120 kA–240kA



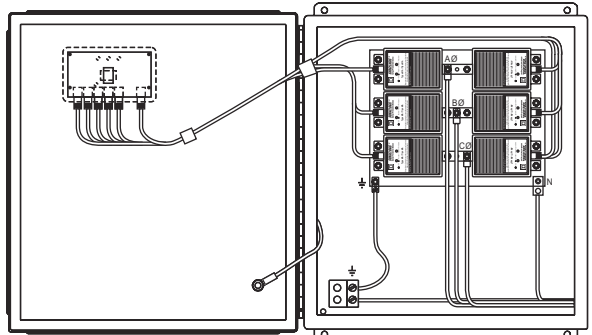
Customer Connections 320 kA–480kA

SurgeLogic® Surge Protection Device Wiring Diagrams

EMA 3-Phase, 4-Wire, High-Leg Delta Installation

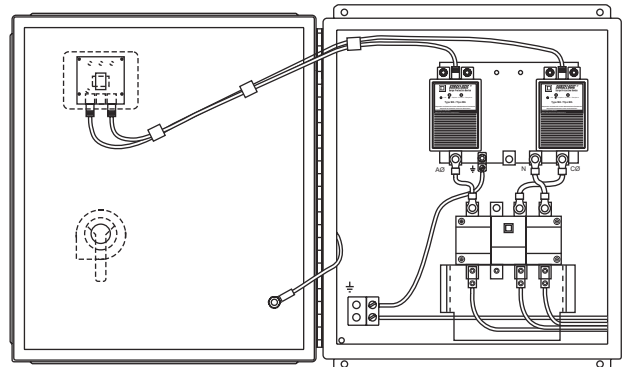
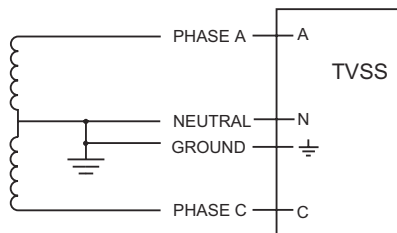


Customer Connections 120 kA-240kA

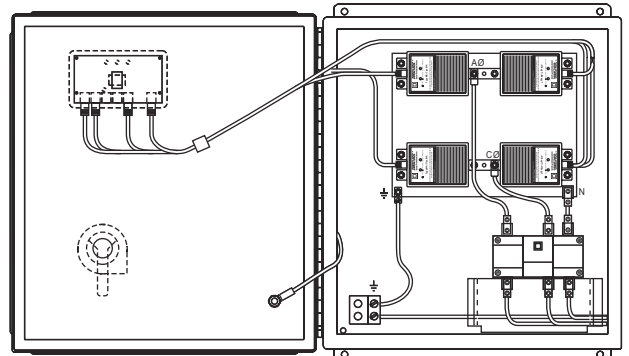


Customer Connections 320 kA-480kA

EMA 1-Phase, 3-Wire, Grounded Installation with Integral Disconnect



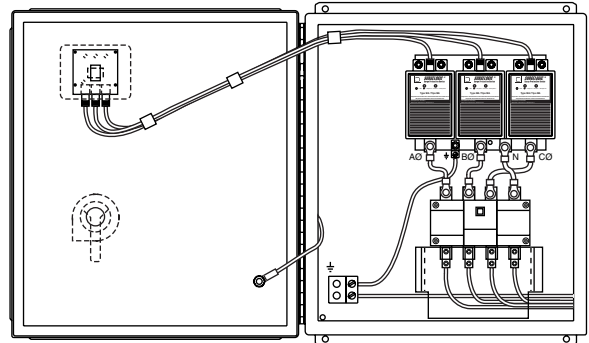
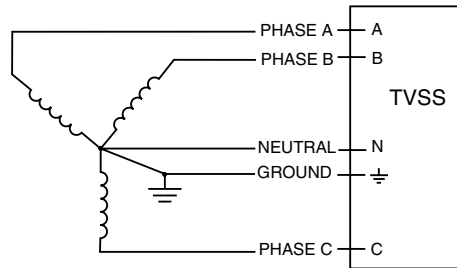
Customer Connections 120 kA-240kA



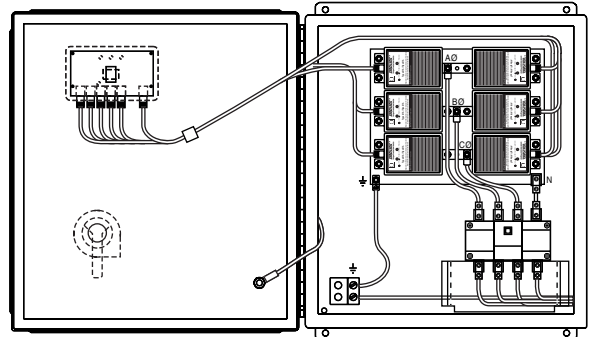
Customer Connections 320 kA-480kA

SurgeLogic® Surge Protection Device Wiring Diagrams

EMA 3-Phase, 4-Wire, Grounded Wye Installation with Integral Disconnect

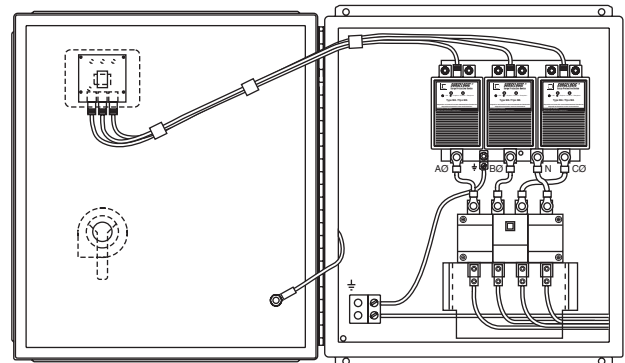
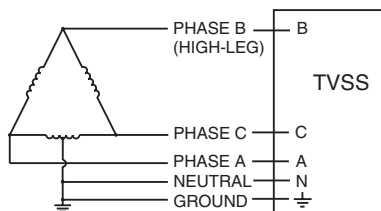


Customer Connections 120 kA - 240 kA

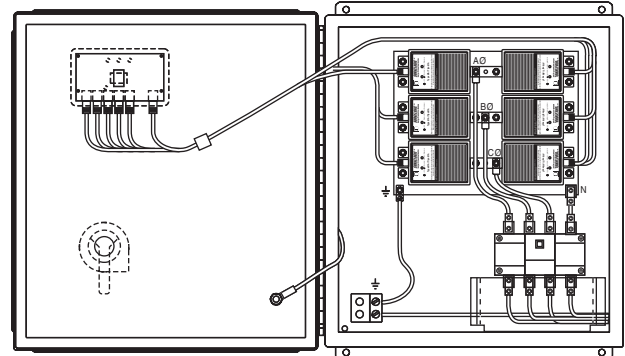


Customer Connections 320 kA - 480 kA

EMA 3-Phase, 4-Wire, High-Leg Delta Installation with Integral Disconnect



Customer Connections 120 kA - 240 kA

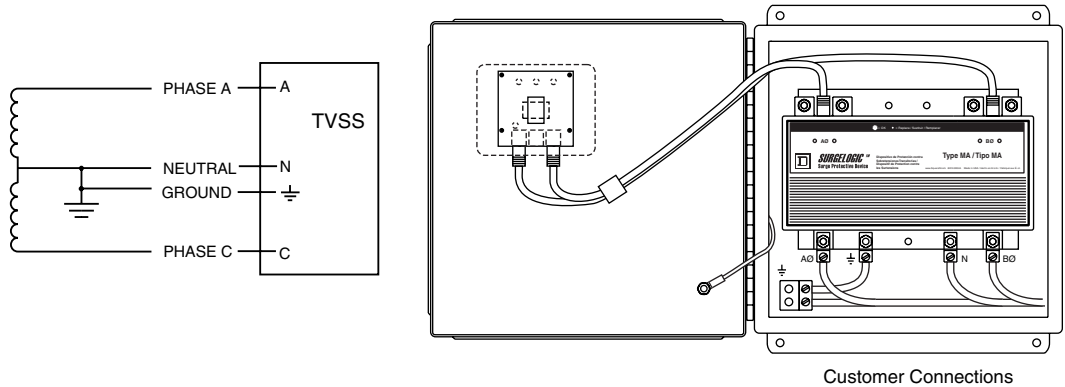


Customer Connections 320 kA - 480 kA

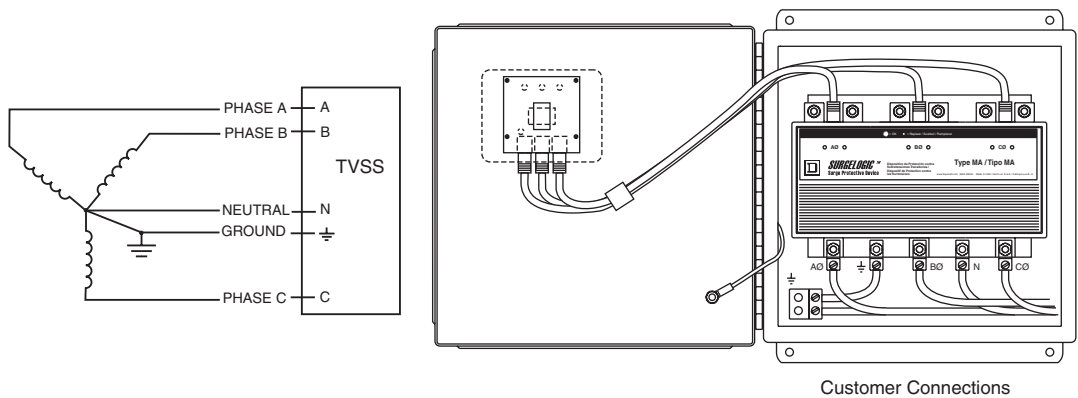
SurgeLogic® Surge Protection Device Wiring Diagrams

EBA Series

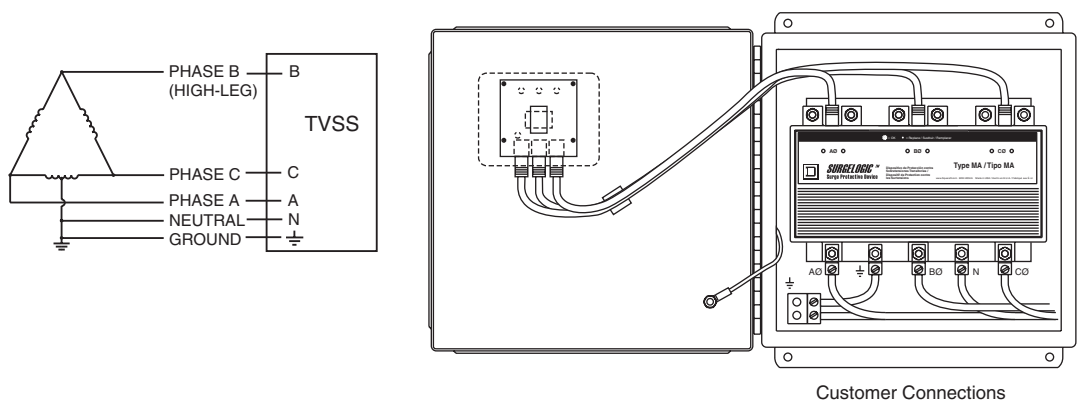
EBA 1-Phase, 3-Wire, Grounded Installation



EBA 3-Phase, 4-Wire, Grounded Wye Installation

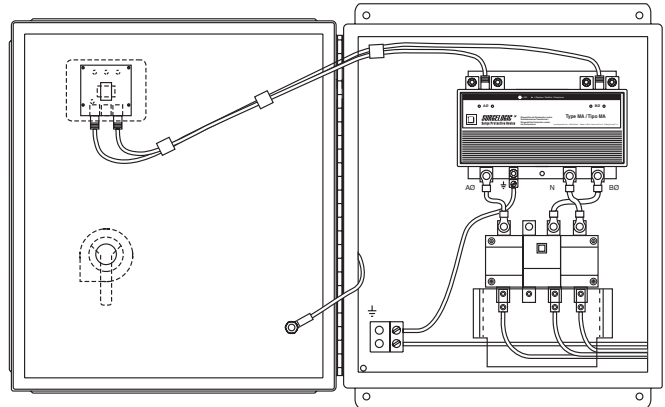
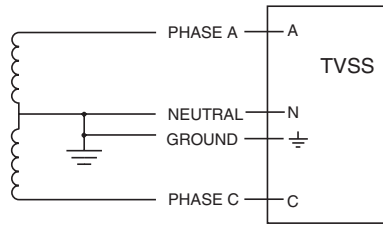


EBA 3-Phase, 4-Wire, High-Leg Delta Installation



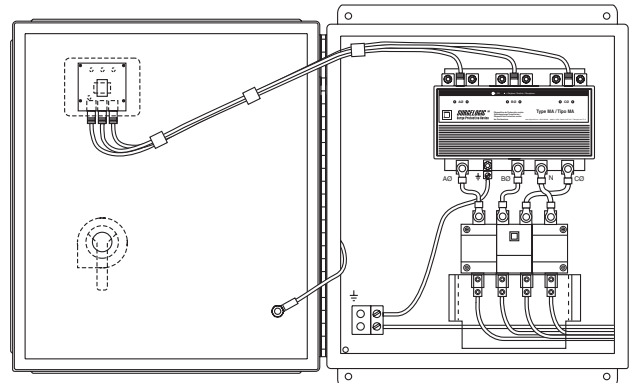
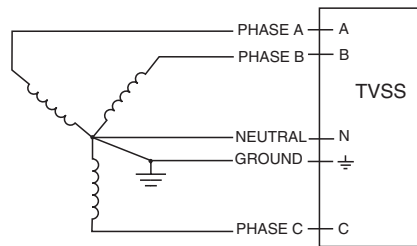
SurgeLogic® Surge Protection Device Wiring Diagrams

EBA 1-Phase, 3-Wire, Grounded Installation with Integral Disconnect



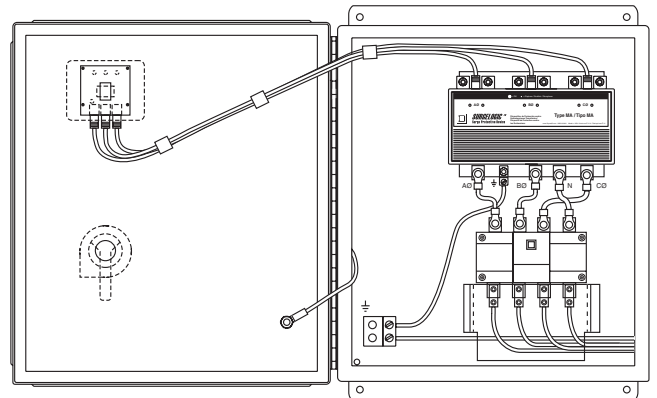
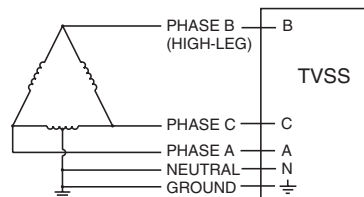
Customer Connections

EBA 3-Phase, 4-Wire, Grounded Wye Installation with Integral Disconnect



Customer Connections

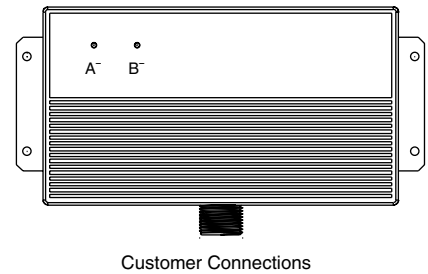
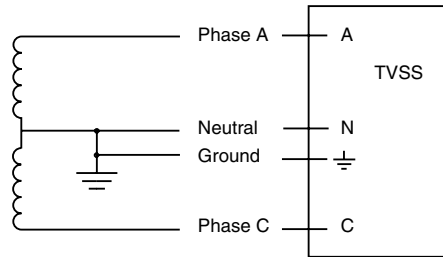
EBA 3-Phase, 4-Wire, High-Leg Delta Installation with Integral Disconnect



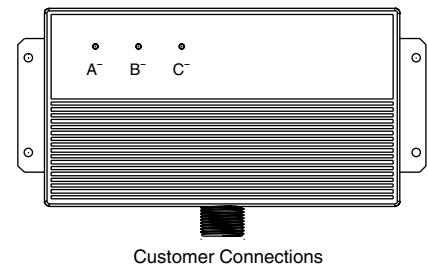
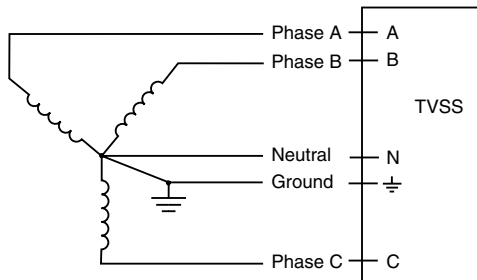
Customer Connections

HWA Series

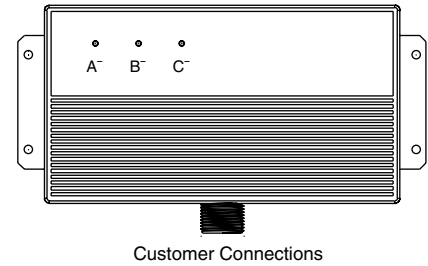
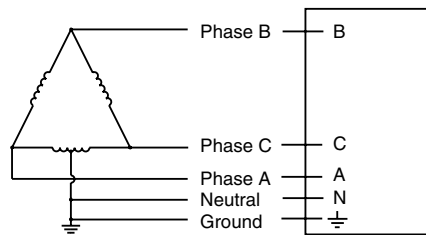
HWA 1-Phase, 3-Wire, Grounded Installation



HWA 3-Phase, 4-Wire, Grounded Wye Installation



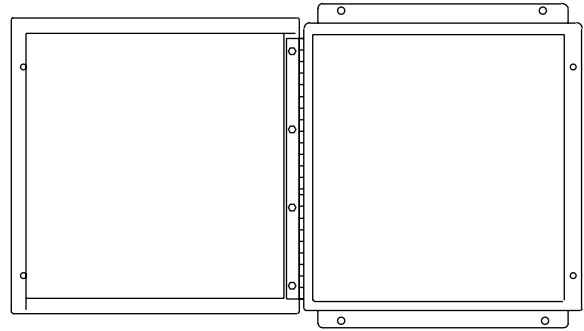
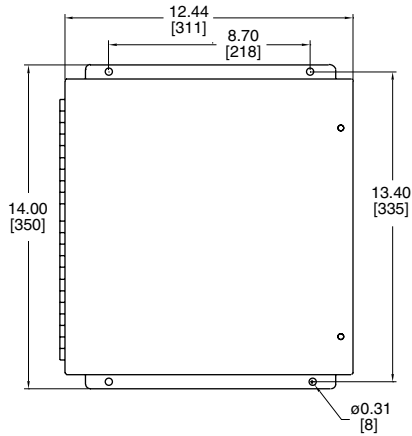
HWA 3-Phase, 4-Wire, High-Leg Delta Installation



Dimensions and Weights

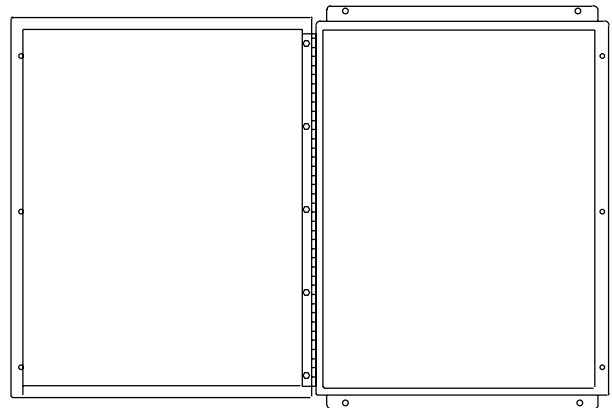
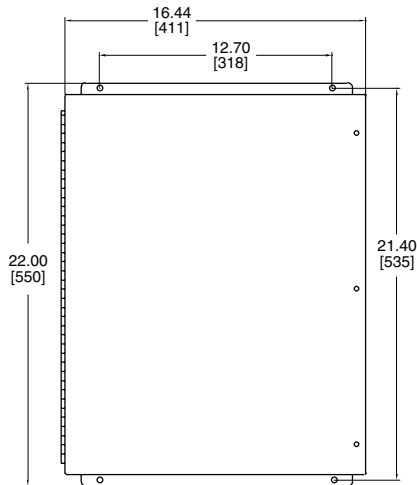
EMA/EBA Series

12 x 12 NEMA 1 / 3R / 12 Enclosures



Dimensions: in.
[mm]

16 x 20 NEMA 1 / 3R / 12 Enclosures with Integral Disconnect, NEMA 4X Stainless Steel Enclosure with or without Integral Disconnect

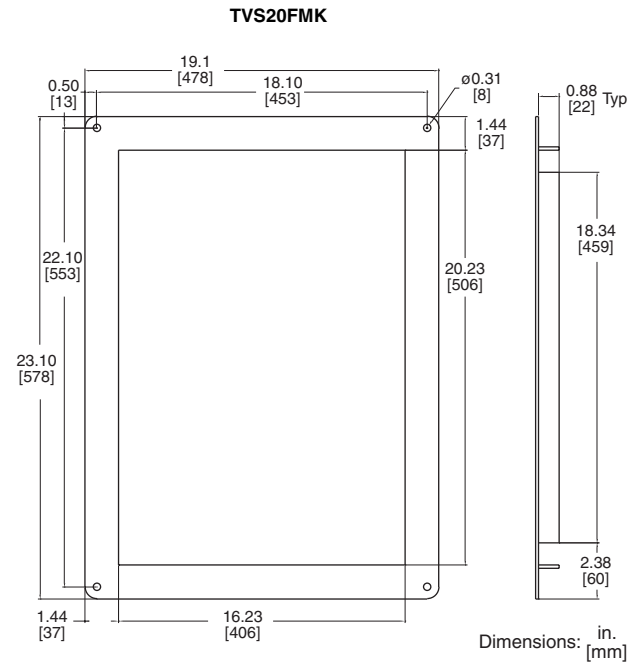
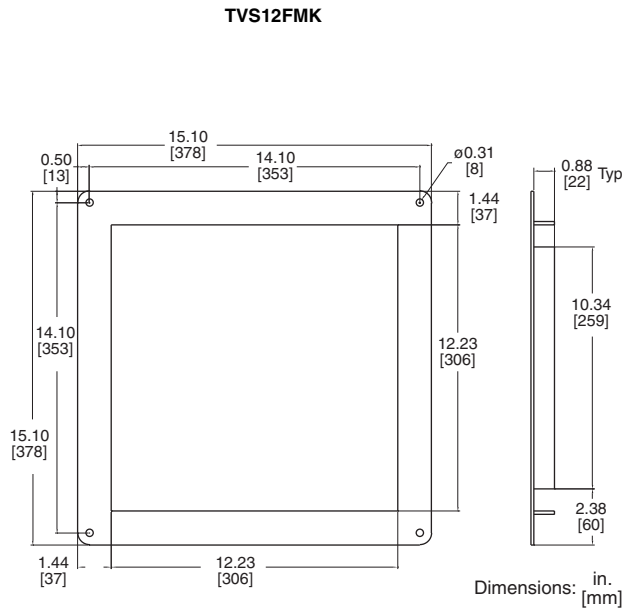


Dimensions: in.
[mm]

Dimensions	Inches [mm]
Approx. Weight	35 lbs (15 kg) maximum
Depth	6 in. (152 mm)

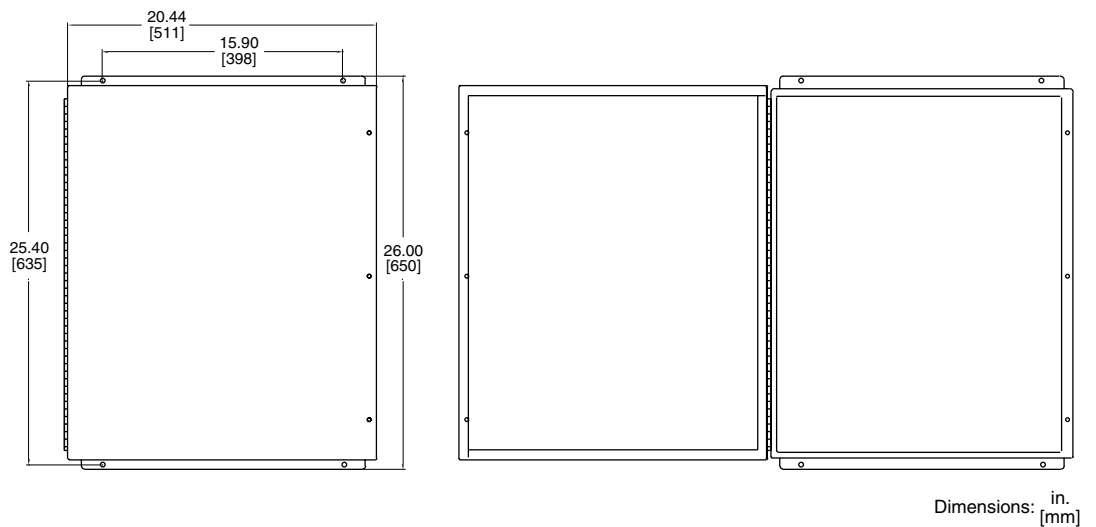
Surgeologic® Surge Protection Device Dimensions and Weights

12 inch (305 mm) and 20 inch (508 mm) Flush-Mount Collars



Dimensions	Inches [mm]
Approx. Weight	5.6 lbs (2.5 kg) maximum
Depth	1.01 in. (26 mm)

20 x 24 NEMA 1 / 3R / 12 Enclosures for 320 kA and 480 kA Units with or without Integral Disconnect (Flush Mount Collar Not Available)



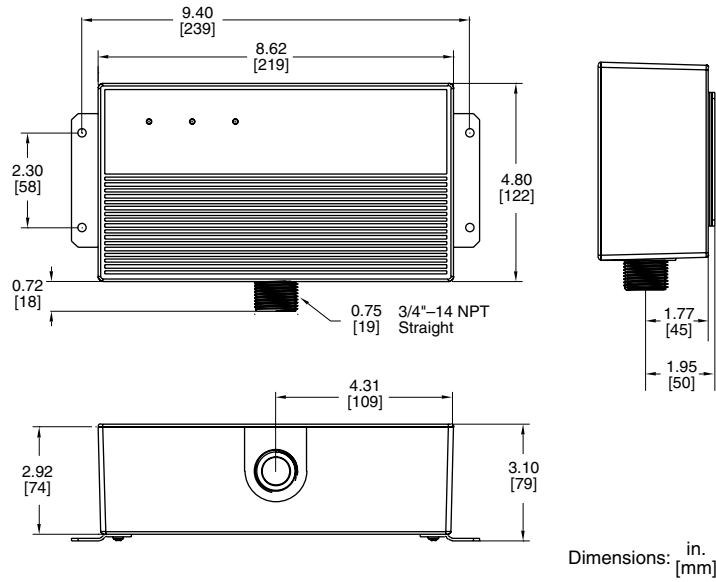
Dimensions	Inches [mm]
Approx. Weight	48 lbs (21 kg) maximum
Depth	6 in. (152 mm)

Surgelogic[®] Surge Protection Device

Dimensions and Weights

HWA

NEMA 4X Plastic Enclosures



Dimensions	Inches [mm]
Approx. Weight	7 lbs (3 kg) maximum
Depth	3.10 in. (79 mm)
Wire Gauge	Power: #10 AWG, Dry Contacts: #22 AWG
Wire Length	24 in. (609.6 mm)

**SurgeLogic® Surge Protection Device
Dimensions and Weights**

Schneider Electric USA

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Lexington, KY 40511 USA
1-888-SquareD
(1-888-778-2733)
www.us.SquareD.com

Schneider Electric Canada

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M4B 1 Y2
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www.schneider-electric.ca

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