

EBA Series SPDs

Square D External Panel Surge Protective Devices

Square D™ brand Surgelagic™ external EBA panel Surge Protective Devices (SPDs) deliver specification grade performance for service entrance or critical branch panel applications. This multi-phase surge suppression system provides transient suppression, noise filtration, and sine wave tracking in a durable package.



by Schneider Electric

EBA Series SPDs

Features



EBA series Surge Protective Devices (SPDs) provide superior design and service life for a wide variety of commercial, industrial, or institutional applications. Square D brand Surgelogic SPDs offer unsurpassed performance and surge suppression for demanding service entrance applications or as part of a suppression network. The robust construction minimizes possible down time and helps reduce maintenance costs.

Superior Performance

The EBA Series SPDs product utilizes a high-energy suppression circuit that provides 6-10 modes of suppression from 80,000 to 240,000 peak Amps of surge current rating per phase. These devices feature circuitry that provides not only transient surge suppression, but also noise filtration.

Easy Installation

External panel SPDs mount adjacent to the equipment through a conduit connection and as close to the circuit breaker as possible in order to reduce lead lengths and improve surge suppression.

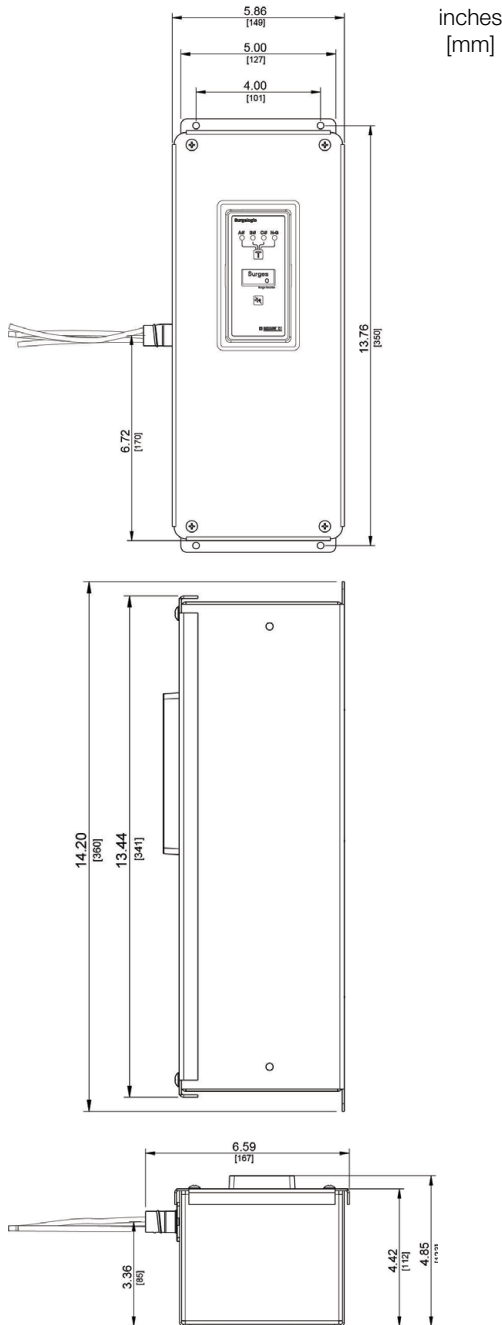
Warranty

Surgelogic EBA series SPDs have a 10-year warranty.

FEATURES	ADVANTAGES	BENEFITS
Type 1 SPD Configuration suitable for use in both UL SPD Type 1 and Type 2 applications	Overcurrent protective devices (OCPD) not required in Type 1 locations	Flexibility to install on line side or load side of service entrance applications
80,000 to 240,000 Amp Capacity (depending on model)	Longer service life and suppression against high-energy lightning strikes	High performance surge suppression even in severe electrical conditions
EMI/RFI Noise Rejection	Increased noise filtering	Improves operating performance of connected equipment
Advanced Diagnostics	Allows for visual indication/testing of the suppressor's functionality	Provides immediate response if suppressor is damaged
Suppression Status Alarms	Allows multiple methods of alarm notification	Provides immediate notification through audible, visual and remote signaling if reduced suppression occurs
Coordinated Fuse Technology	Coordinated fusing allows disconnection methods for thermal and high-current events	Provides premium surge suppression while managing both thermal and high-current end-of-life events

EBA Series SPDs

Features (continued)



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Performance

Surge Current Rating per Phase	Up to 240kA
Short Circuit Current Rating	200kA
Modes of Protection	6, 10
Fusing	Individually fused MOVs
Thermal Fusing	Yes
Overcurrent Fusing	Yes
Sine Wave Tracking	Yes
EMI/RFI Filtering	Up to -45 dB
Operating Frequency	50/60 Hz

Mechanical Description

Enclosure	Carbon Steel
NEMA Ratings	NEMA 1
Weight	15 lbs
Connection Method	10 AWG, Stranded
Mounting Method/Circuit Type	Parallel
Operating Altitude	Sea Level-12,000' (3,658 m)
Storage Temperature	-40° F (-40° C) to 149° F (65° C)
Operating Temp.	-40° F (-40° C) to 104° F (40° C)
LCD Operating Temp.	32° F (0° C) to 122° F (50° C)
Operating Humidity	0 to 95% non-condensing

Diagnostics

Push to test diagnostic button, red and green status LEDs per phase, dry contacts, audible alarm with disable switch and surge counter.

Options

- Remote monitor

Listings and Performance

Type 1 SPD: UL Listed per UL 1449 4th Edition, and CSA C22.2 No. 8-13 5th Edition. (UL 1283 components used)

Type 2 SPD: cULus Listed per UL 1449 4th Edition, UL 1283 5th Edition, CSA C22.2 No. 269.2-13 1st Edition, and CSA C22.2 No. 8-13 5th Edition.

Complies with UL 96A 12th Edition master Label requirements for Lightning Protection Systems

EBA Series SPDs Specifications

WYE Configured SPD Specifications

Voltage	Surge Current per Phase	Modes of Protection	Configuration	Model Number	MCOV	I _n	VPR			
							L-N	L-G	L-L	N-G
120/240V	80kA	6	1 Ø, 3-wire+G	SSP01EBA08	150V	20kA	700V	700V	1200V	700V
208Y/120V ■	80kA	10	3 Ø, Wye, 4-wire+G	SSP02EBA08	150V	20kA	700V	700V	1200V	700V
120/240V	100kA	6	1 Ø, 3-wire+G	SSP01EBA10	150V	20kA	700V	700V	1200V	700V
208Y/120V ■	100kA	10	3 Ø, Wye, 4-wire+G	SSP02EBA10	150V	20kA	700V	700V	1200V	700V
120/240V	120kA	6	1 Ø, 3-wire+G	SSP01EBA12	150V	20kA	700V	700V	1200V	700V
208Y/120V ■	120kA	10	3 Ø, Wye, 4-wire+G	SSP02EBA12	150V	20kA	700V	700V	1200V	700V
120/240V	160kA	6	1 Ø, 3-wire+G	SSP01EBA16	150V	20kA	700V	700V	1200V	700V
208Y/120V ■	160kA	10	3 Ø, Wye, 4-wire+G	SSP02EBA16	150V	20kA	700V	700V	1200V	700V
120/240V	200kA	6	1 Ø, 3-wire+G	SSP01EBA20	150V	20kA	700V	700V	1200V	700V
208Y/120V ■	200kA	10	3 Ø, Wye, 4-wire+G	SSP02EBA20	150V	20kA	700V	700V	1200V	700V
120/240V	240kA	6	1 Ø, 3-wire+G	SSP01EBA24	150V	20kA	700V	700V	1200V	700V
208Y/120V ■	240kA	10	3 Ø, Wye, 4-wire+G	SSP02EBA24	150V	20kA	700V	700V	1200V	700V

■ 208Y/120 series also applies to the following voltage 220Y/127

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