

# SDSA 3-Phase SPDs

## Square D Type 1

## Surge Protective Devices

Square D™ brand Surgeloc™ SDSA 3-Phase products are compact and affordable Surge Protective Devices (SPDs) available in Wye and Delta configurations. SDSA 3-Phase SPDs offer a simple means to bring down initial surges to manageable levels and can offer additional value in a cascaded SPD system. Their compact design allows surge suppression to be installed adjacent to power panels or directly on sensitive equipment.



# SDSA 3-Phase SPDs Features

## Superior Performance

Square D brand SurgeLogic SDSA 3-Phase SPDs utilize high-energy suppression circuitry that can be located at any point in the electrical system. They have the flexibility to be used with or without an Overcurrent Protective Device (OCPD).

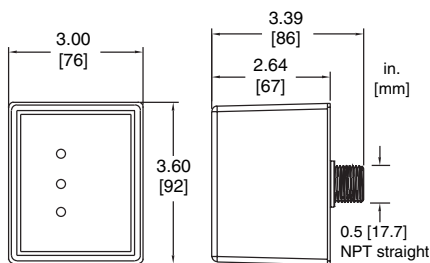
SDSA 3-Phase SPDs provide surge suppression for equipment from severe transient activity. Each metal oxide varistor (MOV) is individually fused and the products carry a NEMA Type 4X rating suitable for installing indoors, outdoors, or in other harsh environments.

## Easy Installation

SurgeLogic SDSA 3-Phase SPDs are some of the most versatile, yet compact devices available on the market today. This compact package can be mounted on an electrical panel, meter socket, or inside electrical control cabinets.

## Warranty

The SDSA 3-Phase SPD warranty is 2 years.



## SDSA 3-Phase SPDs



### Performance

Surge Current Rating per Phase	40kA
Short Circuit Current Rating	200kA
Modes of Protection	6
Fusing	Individually fused MOVs
Thermal Fusing	Yes
Overcurrent Fusing	Yes
Operating Frequency	50/60 Hz

### Mechanical Description

Enclosure	Non-Metallic
NEMA Rating	NEMA Type 4X
Connection Method	#12 AWG
Weight	1.63 lbs (0.738 kg)
Mounting Method	Close Nippled, Back Mounted
Operating Altitude	Sea Level-12,000' (3,658 m)
Storage Temperature	-31° F to +176° F (-35° C to +80° C)
Operating Temperature	-31° F to +176° F (-35° C to +80° C)
Operating Humidity	0 to 95% non-condensing

### Diagnostics

Green status LED

### Listings and Performance

cULus Listed per UL 1449 4th Edition Type 1 SPD, CSA C22.2 No. 269.1-14

The SDSA2040, SDSA4040, and SDSA3650 is a four-wire surge suppressor designed for use on solidly grounded systems. The SDSA2040D, SDSA4040D, and SDSA3650D is a three-wire surge suppressor designed for delta applications.

Voltage	Surge Current per Phase	Modes of Protection	Configuration	Model Number	MCOV	SCCR	I <sub>n</sub>	VPR			
								L-N	L-G	L-L	N-G
208Y/120V <sup>1</sup>	40kA	6	3 Ø, 4-wire	SDSA2040	180V L-N 360V L-L	200kA	10kA	700V	N/A	1200V	N/A
240V Delta <sup>2</sup>	40kA	3	3 Ø, 3-wire	SDSA2040D	360V L-L	200kA	10kA	N/A	N/A	1200V	N/A
480Y/277V <sup>3</sup>	40kA	6	3 Ø, 4-wire	SDSA4040	420V L-N 840V L-L	200kA	10kA	1500V	N/A	2500V	N/A
480V Delta	40kA	3	3 Ø, 3-wire	SDSA4040D	840V L-L	200kA	10kA	N/A	N/A	2500V	N/A
600Y/347V	40kA	6	3 Ø, 4-wire	SDSA3650	510V L-N 1020V L-L	200kA	10kA	1800V	N/A	3000V	N/A
600V Delta	40kA	3	3 Ø, 3-wire	SDSA3650D	1020V L-L	200kA	10kA	N/A	N/A	3000V	N/A

<sup>1</sup> Applicable voltages: 220Y/127V, 208Y/120V

<sup>2</sup> Applicable voltages: 240V Delta, 240/120V High-Leg Delta

<sup>3</sup> Applicable voltages: 480Y/277V, 415Y/240V, 400Y/230V, 380Y/220V