Square D™ brand Surgelogic™ 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
cULlus 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.

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

1 Applicable voltages: 220Y/127V, 208Y/120V
2 Applicable voltages: 240V Delta, 240/120V High-Leg Delta

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