Surge Protection Devices

Catalog
September
06

Class 6671

CONTENTS

Merlin Gerin
Square D
Telemecanique

Schneider Electric
Building a New Electric World

SDSB1175C
UL and C-UL Listed 1449
File #E81066

PRODUCT DESCRIPTION

The Surgebreaker® Plus device, model SDSB1175C, is a UL® Listed 1449, Second Edition 2005 transient voltage surge suppressor (TVSS). This device is also C-UL Listed for use in Canada. It is tested to ANSI/IEEE C62.41 Standards Category B and C for use in service entrance locations. The device provides AC line protection for the whole house and protects up to eight telephone lines and two coaxial lines. It is designed for use on single-phase, three-wire, 120/240 Vac, 50/60 Hz electrical service.

Features

- Design allows for field replacement of components
- AC line protection for the whole house
- Protects up to four telephone lines (eight with optional Telco unit; Cat. No. SDSA4P)
- Protects up to two coaxial lines with Gas Discharge Tube (GDT) technology (Silicon Avalanche Diode (SAD) protection optional; Cat. No. SDSA2VD)
- All modes protected (L–L, L–N, L–G, N–G)
- UL 1449 Second Edition 2005 Listed
- Meets ANSI/IEEE C62.41 standards for Category B and C locations
- LED indicates AC section operational status of each AC line protection
- Flush (Type 1 housing only) or surface mounting installation
- Hybrid technology thermal-fuse metal oxide varistor and gas discharge tube (GDT) design
- Excellent clamping voltage performance
- Fast response time
- Ride-through sustained overvoltage up to 240 Vac

Service Entrance Design

The product is suitable for connection to power systems whose available short-circuit capacity does not exceed 25,000 A symmetrical short-circuit current when protected by the recommended branch circuit protective devices.

Metal Oxide Varistor Technology

Metal oxide varistors (MOVs) provide voltage surges with a low-resistance path line-to-line, line-to-neutral, line-to-ground, or neutral-to-ground, while providing a high resistance path to the 50/60 Hz power source.

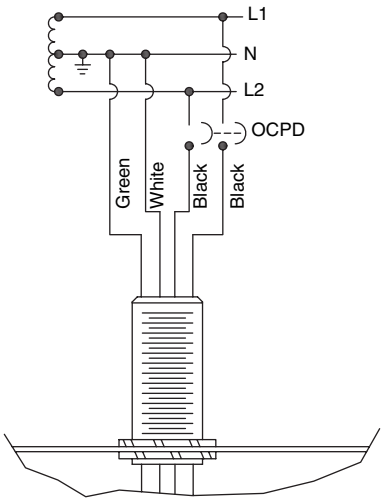
Robust Protection

Each MOV is protected by a combination of fault current fuse and thermal fuse that open in the event of a damaging varistor overload. The MOVs are protected against damage due to sustained overvoltage conditions by gas discharge tubes. Additionally, the varistors are secured in a silica-filled, sealed molded plastic housing contained within the enclosure.

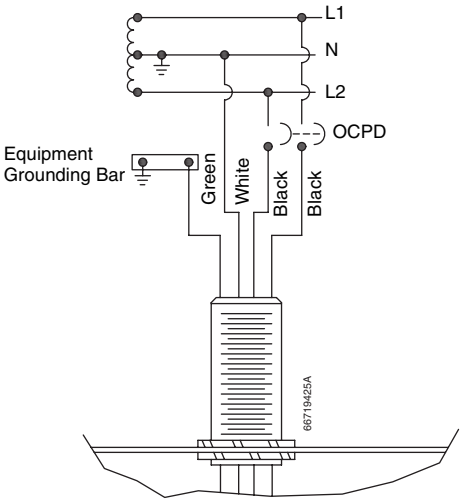
LED Indicators

The LEDs on the face of the AC module indicate the operational status of the AC protection. If the LEDs for each line are on, the device is fully operational. If either of the LEDs go off, the AC module should be replaced.

Product Description and Application Data



Service Entrance
120 / 240 V
1Ø, 3W Circuit



Sub-Panel
120 / 240 V
1Ø, 3W Circuit

APPLICATION DATA

The Surgebreaker® Plus device is tested to ANSI/IEEE C62.41 Standards Category B and C for use in service entrance locations. It is designed for use on single-phase, three-wire, 120/240 Vac, 50/60 Hz electrical service. It provides protection for the AC line, up to four telephone lines (eight optional), and two coaxial video lines.

The Surgebreaker Plus device can be surface or flush (Type 1 only) mounted, depending on the power panel installation. If the power panel enclosure is hidden behind a wall it is flush mounted; if the entire power panel is exposed, it is surface mounted.

AC Wiring

Connecting the AC portion of the Surgebreaker Plus device to a power panel requires a 30 A or less 2-pole circuit breaker for fusible overcurrent protective device (OCPD).

Circuit breakers (30 A or less) recently manufactured by Schneider Electric are UL Listed for one or two wires per terminal. If the Surgebreaker Plus device is to be connected to another brand of power panel, a UL Listed circuit breaker or OCPD may need to be installed. Current limiting fuses should not be used when installing a fusible OCPD.

The current consumption of the device during normal operation is negligible. However, at the end of serviceable life, the device may cause the circuit breaker on which it is connected to trip and prevent resetting, until the surge device is replaced. Do not connect the Surgebreaker Plus device on the same branch circuit as critical appliances that require uninterrupted power. When the AC wiring is complete, the AC portion of the Surgebreaker Plus device should be connected according to one of the wiring diagrams.

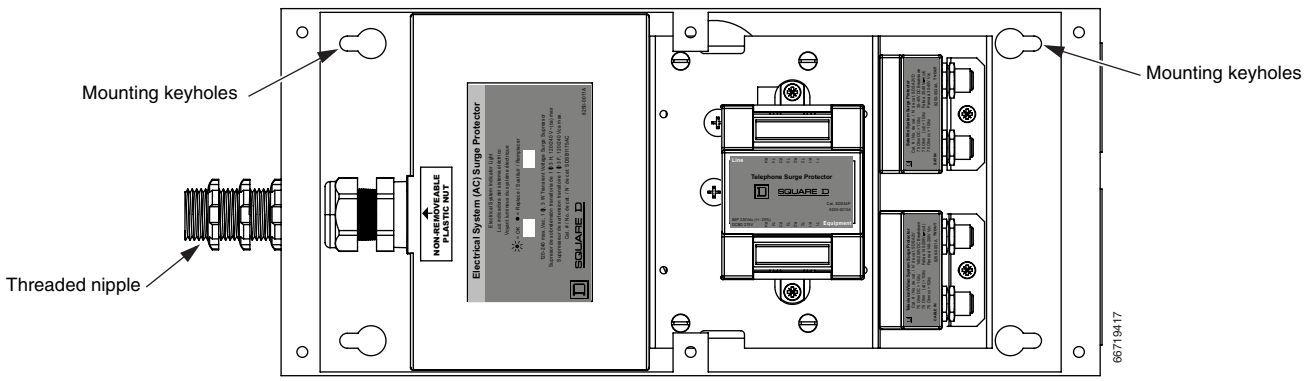
Telephone Surge Protector Wiring

Up to four (eight optional) analog telephone lines, four Digital Subscriber Lines (DSL), or any combination totaling four lines, can be connected to the Surgebreaker Plus device. Two wires (one pair) are required for each telephone line to function. Most phone cables provide two or more pairs of wires to allow the service to be easily expanded.

Coaxial (Television) Surge Modules

- Protection for two coaxial connections from CATV or master antenna
- Either coaxial module is suitable for use with any CATV service
- Suitable for use on all state-of-the-art television and hybrid fiber/coaxial systems

Surgebreaker® Plus Whole House Surge Protector (shown without cover)



Specifications

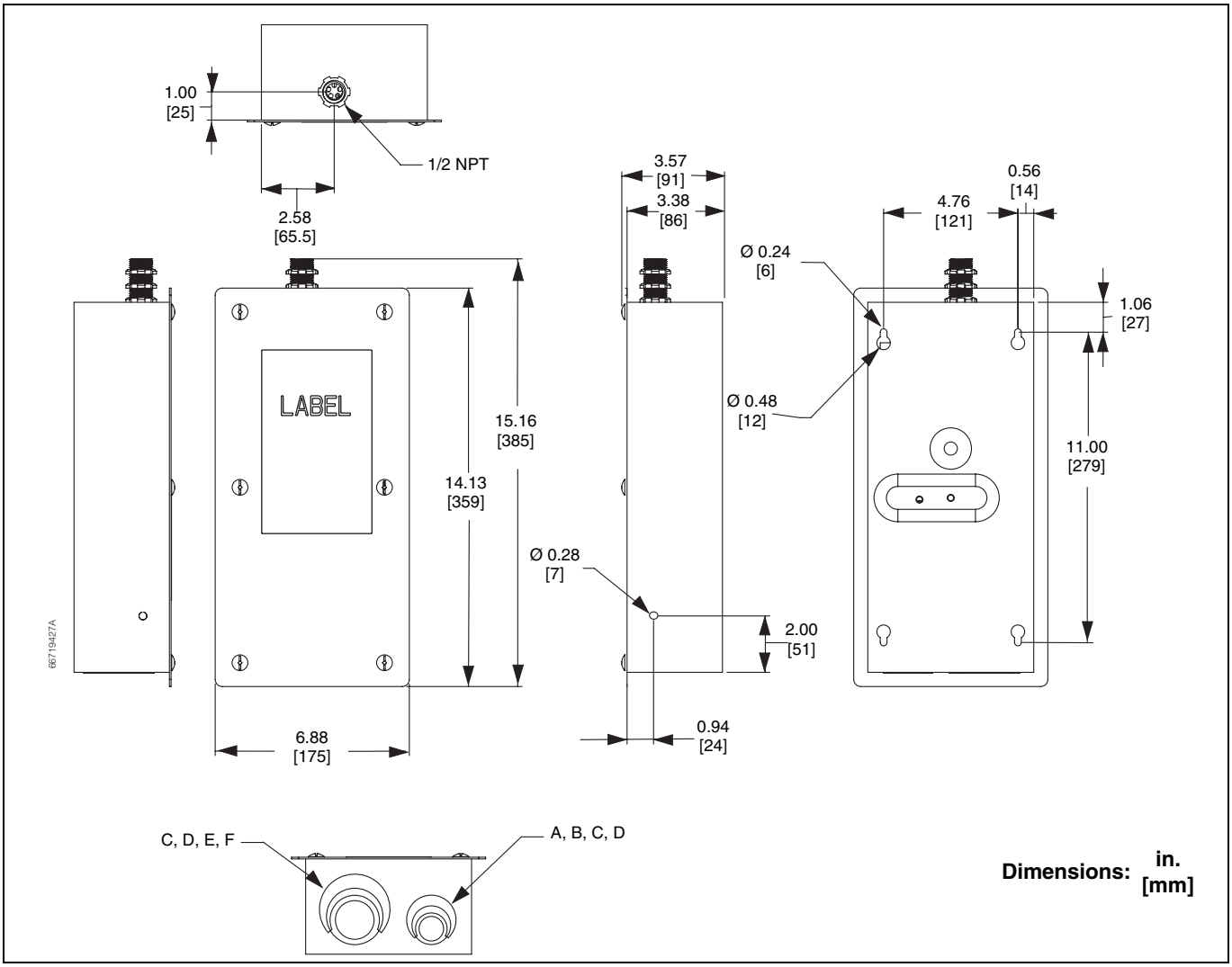
Physical	
Environmental Rating	Type 1
Operating Conditions	-25 to +55 °C (-13 to +131 °F), 0–95% humidity
Enclosure Style	Steel enclosure with integral field wiring compartments for telephone and cable connections
Separation of Circuits	AC mains protection is completely barriered and isolated from the telephone and cable by means of a sand-filled, hard plastic package
Dimensions (length x width x depth)	15.14 x 6.88 x 3.58 in. (length dimension includes nipple)
Weight	Type 1: 9.66 lbs
Mounting	Mounting hardpoints provided for anchoring to studs or wall 0.5 in. NPT metallic nipple provided for connection to a load center
Warranty	5 year, up to $50,000 limited warranty (see Warranty on page 13)
Technology	
AC Mains Protection	Hybrid protection utilizing Metal Oxide Varistor with Thermal-fuse, Gas Discharge Tube (GDT)
Telephone and Cable Protection	Gas Discharge Tube (GDT), Silicon Avalanche Diode (SADs), SiBod™ Technology
AC Protection	
Operating Frequency	50/60 Hz
Modes Protected	L1-N, L1-G, L2-N, L2-G, N-G; L1-L2
Nominal Input Voltage	120/240 Vac, 1ϕ3W, 50–60 Hz
Short Circuit Current Rating	25,000 A rms symmetrical
Suppressed Voltage Rating	400 V Line-to-Neutral, Line-to-Ground 400 V Neutral-to-Ground
Varistor Surge Current Rating Per Phase	80 kA
Connection Method	Four 36 in. #12 AWG stranded wire leads for ground, neutral, L1, and L2
Maximum Single Impulse Surge Current Withstand Rating Per Phase	25 kA
Alarms and Indicators	
Protection status indication	TVSS operation status LEDs (for each AC line)
Approvals and Test Standards	
Overall product (including AC protection)	UL 1449, Second Edition, 2005 Revision; C-UL per CSA C22.2 No. 8-M1986, ECN 516/TIL A-24 and TIL I-11B
Telephone/cable protection	Evaluated to UL 497A (telephone) and UL497B (coaxial)
Surge category	ANSI/IEEE C62.41-1991—all categories through C3
Telephone	
Type	Secondary protector (tip and ring to ground, tip to ring)
Shunt overvoltage protection	3-element SiBod thyristor protector for balanced voltage limiting
DC breakdown voltage	270 Vdc
Impulse voltage	330 Vdc
Series overcurrent protection	Positive Temperature Coefficient *(PTC)* thermistor, self-resetting *NOTE: The series overcurrent protection and SiBod thyristor protector are coordinated to withstand the surge current remnant from a Network Interface Device (NID) whose primary telephone protector is rated for not more than an 8/20 kA current surge.*
Maximum line current	100 mA
Connection method	IDC Connector (tool-less termination)
Coaxial Surge Modules	
Type	Secondary protector (center conductor to shield)
Peak surge current	1 operation @ 20 kA (8x20 µs); 10 operations @ 5 kA (8x20µs)
Protection mode	Line to shield (ground)
Technology	GDT protection for CATV module; SAD protection for optional satellite module (SAD protection optional)
DC breakdown	140-200 Vdc for CATV module; 30-49 Vdc for SAD protectionVdc for GDT protection; 29 Vdc for SAD protection
Connection method	Coaxial F-connectors
Bandwidth	DC to greater than 1 GHz dedicated protection modules for satellite and cable TV (digital TV)

Replacement Parts

Description	Part Number
TVSS for AC line protection	SDSA1AC
Four-line telephone protector	SDSA4P
Coaxial surge module	GDT Protection—SDSA2V; SAD protection—SDSA2VD

Knockouts

Symbol	Conduit Size		Diameter	
	in.	mm	in.	mm
A	0.50	13	0.88	22
B	0.75	19	1.13	29
C	1.00	25	1.38	35
D	1.25	32	1.75	44
E	1.50	38	2.00	51
F	2.00	51	2.50	64



Surgebreaker® Plus Device, SDSB1175C, Type 1

PRODUCT DESCRIPTION

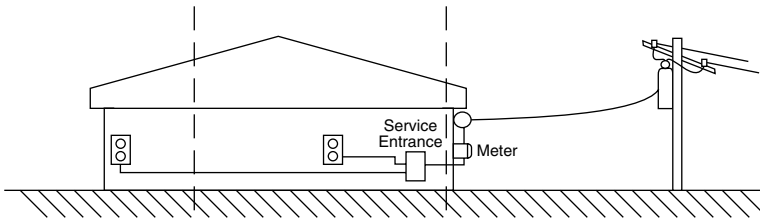
Electrical surges are brief, unpredictable, transient overvoltage anomalies with a duration of less than one-half an AC cycle, and an amplitude that exceeds two times the nominal peak voltage of the electrical system. These high energy electrical spikes can damage a home's electrical system, electrical appliances and electronic equipment. An electrical surge can break down the insulation on the wiring in your electrical system and the connected equipment, leaving your system and equipment susceptible to failure. This damage can happen all at once or over a period of time, depending on the surge frequency and magnitude. Typically, lightning, inductive switching, or power switching cause surges, which can damage the insulation in building wiring, electrical appliances, or electronic equipment. At service entrance locations, voltage surges can also produce high currents, requiring the installation of rugged surge arresters.

Secondary surge arresters from Square D® use a technology that can handle these high transient currents. When a surge causes the voltage to exceed its normal value, the surge arrester holds or "clamps" the voltage. At the same time, the surge arrester dissipates and diverts the transient current until the surge passes. After the surge, no parts need to be replaced or reset on the surge arrester. Surge arresters provide excellent clamping voltage performance. The lower the clamping voltage of the surge arrester, the better the protection.

APPLICATION DATA

Secondary surge arresters will protect most secondary distribution wiring against surge-related damage and are suitable for use in Category C locations, as shown in the figure below. The overvoltage risk at these locations is defined in ANSI/IEEE Standard C62.41-1991 as a 20,000 Vac potential and a 10,000 A current. However, secondary surge arresters *may not protect solid-state or electronic equipment from all lightning-induced or other high voltage surges*. When combined with transient voltage surge suppressors (TVSS), secondary surge arresters can help protect sensitive electronic equipment, as long as the suppressors are installed in Category A or B locations. Electronic equipment may need additional protection by installing plug-in TVSS devices at the point of use.

ANSI/IEEE C62.41-1991 Location Categories



A	B	C
Outlets and long branch circuits: • All outlets at more than 10m (30 ft.) from Category B • All outlets at more than 20m (60 ft.) from Category C	• Feeders and short branch circuits • Distribution panel devices • Heavy appliance outlets with short connections to service entrance	• Outside and service entrance • Service drop from pole to building • Run between meter and panel • Overhead line to detached building

Note; Demarcation between Location Categories B and C is arbitrarily taken to be at the meter or at the mains disconnect (ANSI/NFPA 70-1990 [2], Article 230-70) for low-voltage service, or at the secondary of the service transformer if the service is provided to the user at a higher voltage.

QO2175SB
UL and C-UL Listed
File #E81066

HOM2175SB
UL and C-UL Listed
File #E81066

QO2175SB
Installed in a
QO Load Center

PRODUCT DESCRIPTION

The QO2175SB and HOM2175SB are UL and C-UL Listed secondary surge arresters and TVSS. Both are designed for use on single-phase, three-wire 120/240 Vac, 50/60 Hz electrical service. Two QO2175SB secondary surge arresters can be installed to protect 208Y/120 Vac three-phase, four-wire service.

Features

The QO2175SB and the HOM2175SB surge arresters offer the following distinctive features:

- UL and C-UL Listed secondary surge arresters
- UL and C-UL Listed to UL1449, Second Edition as a TVSS
- Meets ANSI/IEEE C62.11-1987
- Suitable for use in Category B and C locations
- LED indicates operational status
- Quick plug-on installation
- Metal oxide varistor (MOV) design
- Excellent clamping voltage performance
- Fast response time
- Maintenance-free, long life

Plug-on Design

The QO2175SB plugs on to the branch circuit spaces of the interior of a QO® Load Center, NQO or NQOD Panelboard, or combination service entrance device (CSED) from Square D®. Installation is completed by the connection of the single white wire of the QO2175SB to the panel's neutral bar. The HOM2175SB is installed similarly in Homeline® load centers and combination service entrance devices.

MOV Technology

MOVs provide voltage surges with a low resistance path line-to-line, line-to-neutral, or line-to-ground while providing a high resistance path to the 50/60 Hz power source. The MOV responds faster and has a lower clamping voltage because it does not have a gap structure.

Fuse Links and Thermal Cut-Offs

Individual non-replaceable internal fuse links and thermal cut-offs protect each MOV and open in the event of a varistor-damaging overload. Silica inside the arrester housing reduces the risk of one fuse damaging another when it opens.

LED Indicator

The LED on the face of the device indicates operational status of the arrester. If the light is on the device is fully operational. When the LED indicator goes off, the device should be replaced.

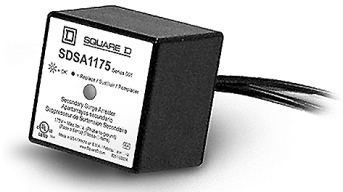
Specifications

Physical	
White wire length	QO2175SB: 18 in. (457 mm) HOM2175SB: 12 in. (305 mm)
Product weight	QO2175SB: 0.54 lbs. HOM2175SB: 0.64 lbs.
Mounting	The QO2175SB and HOM2175SB both require 2 adjacent one-pole panel spaces per device.
Electrical	
Maximum Continuous Operating Voltage (MCOV)	150 Vac maximum phase-to-neutral
Short circuit current rating	22,000 A rms symmetrical, 240 Vac maximum
Joule rating	900 Joules (8/20 µs wave)
Maximum surge current	27,000 A per phase
Typical clamping voltages	For 8/20 µs combination wave surge current for each phase to ground with specified lead length. See table below.
Minimum life	2500 operations (for 1.5 kA 8/20µs wave for each line-to-neutral)
Thermal fusing	Yes
Operating frequency	50/60 Hz
Power consumption per phase	550 milliwatts
Diagnostics	Green status LED
Operating temperature	-20 to +65 °C (-4 to +150 °F)

Typical Clamping Voltages

	1 in. (25 mm) lead	3 in. (76 mm) lead	6 in. (152 mm) lead	12 in. (305 mm) lead	18 in. (457 mm) lead
1500 A surge current	475 Vac	475 Vac	475 Vac	500 Vac	500 Vac
5000 A surge current	500 Vac	600 Vac	625 Vac	700 Vac	775 Vac
10,000 A surge current	600 Vac	800 Vac	850 Vac	1025 Vac	1250 Vac

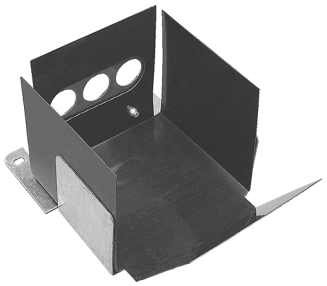
Specifications



SDSA1175
UL and C-UL Listed 58J4 (TVSS)
File #E81066
UL and C-UL Listed 60Y6 (SA)
File # E148456

SDSA3650
UL Listed 58J4 (TVSS)
File #E81066
UL and C-UL Listed 60Y6 (SA)
File # E148456

QOSAMK
Surge Arrester
Mounting Kit



MMSAMK
Surge Arrester
Mounting Kit

PRODUCT DESCRIPTION

The SDSA1175 is UL and C-UL Listed as TVSS and secondary surge arrester. The SDSA3650 is UL Listed as a TVSS and has UL and C-UL Listings as a secondary surge arrester. The SDSA1175 is designed for use on 120/240 Vac, 50/60 Hz electrical services. Two of these devices can be used to protect 208Y/120 Vac three-phase, four-wire services. The SDSA3650 is designed to be used where maximum phase-to-ground system voltage does not exceed 600 Vac. The device may also be used for surge protection of irrigation pumps, oil pumps, and motors operating below 600 Vac.

NOTE: Do not use either the SDSA1175 or SDSA3650 on ungrounded systems.

Features

The SDSA1175 and the SDSA3650 secondary surge arresters offer the following distinctive features:

- UL and C-UL Listed as TVSS and secondary surge arresters (for SDSA1175 only)
- UL Listed as TVSS; UL and C-UL as secondary surge arrester (for SDSA3650 only)
- Meets ANSI/IEEE C62.11-1987
- Suitable for use in Category B and C locations
- Metal oxide varistor (MOV) design
- LED indicates operational status
- Fast response time
- Maintenance-free, long life

Housing

The arrester housing is made of high temperature thermoplastic. The cover is permanently bonded to the housing by an ultrasonic welding process, and the wire exit is sealed using a potting compound. The arrester can be used for both indoor and outdoor applications.

MOV Technology

MOVs provide voltage surges with a low resistance path line-to-neutral while providing high resistance to the 50/60 Hz power source. Traditional gas tube arresters suffer from slow response time, high clamping voltages, and crowbarring effects (the reduction of voltages during conduction in order to short circuit the load). The MOV responds faster and has a lower clamping voltage because it does not have a gap structure.

Fuse Links and Thermal Cut-offs

Individual non-replaceable internal fuse links and thermal cut-offs protect the MOVs and open in the event of a varistor-damaging overload. Silica inside the arrester housing reduces the risk of one fuse damaging another when it opens.

LED Indicator

The LED on the face of the device indicates operational status of the arrester. If the light is on the device is fully operational. When the LED indicator goes off, the device should be replaced.

Available Mounting Kits

The SDSA1175 can be installed inside a QO or Homeline load center using the QOSAMK surge arrester mounting kit.

The SDSA1175 or SDSA3650 can be installed inside Square D® Series M or later Multi-Metering Equipment (MP Meter-Pak™ or EZ Meter-Pak® Main Devices Series M__) using the MMSAMK surge arrester mounting kit.

Both surge arrester mounting kits are sold separately.

APPLICATION DATA

These secondary surge arresters are suitable for use in Category B and C locations. The threat at these locations is characterized by ANSI/IEEE C62.41-1991 as a 20,000 Vac potential and a 10,000 A current. The device clamps the voltage during surges while diverting transient current. Electronic equipment may need to be additionally protected at the point of use with transient voltage surge suppressors.

Electrical Characteristics

- Voltage rating:
  - — SDSA1175 : 150 Vac maximum phase-to-ground at 50/60 Hz
    NOTE: Do not use on ungrounded systems.
  - — SDSA3650 : 600 Vac maximum phase-to-ground at 50/60 Hz
    NOTE: Do not use on ungrounded systems.
- Typical clamping voltages: For 8/20µs combination wave surge current for each phase-to-ground with specified lead length:

	1 in. (25 mm) lead	3 in. (76 mm) lead	6 in. (152 mm) lead
SDSA1175			
1500 A surge current	500 Vac	550 Vac	575 Vac
5000 A surge current	625 Vac	675 A	725 A
10,000 A surge current	750 Vac	900 Vac	1075 Vac
SDSA3650			
1500 A surge current	1525 Vac	1750 Vac	1775 Vac
5000 A surge current	1700 Vac	2100 Vac	2125 Vac
10,000 A surge current	1925 Vac	2375 Vac	2400 Vac

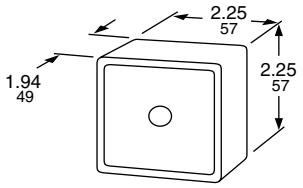
	12 in. (305 mm) lead	18 in. (457 mm) lead
SDSA1175		
1500 A surge current	600 Vac	625 Vac
5000 A surge current	875 Vac	1050 Vac
10,000 A surge current	1250 Vac	1500 Vac
SDSA3650		
1500 A surge current	1800 Vac	1825 Vac
5000 A surge current	2325 Vac	2425 Vac
10,000 A surge current	2700 Vac	3000 Vac

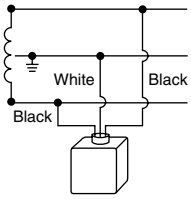
Dimensions and Wiring Diagrams

Specifications

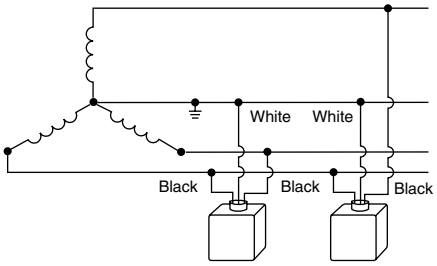
Electrical	
Minimum life	2500 operations (for 1.5 kA 8/20µs wave for each line-to-ground)
Varistor surge current rating per phase	SDSA1175: 36,000 A peak (8/20µs wave) SDSA3650: 40,000 A peak (8/20µs wave)
Power consumption per phase	SDSA1175: Less than 500 milliwatts SDSA3650: Less than 600 milliwatts
Operating temperature range	-40 to +70 °C (-40 to +160 °F)
Surge energy capability per phase	SDSA1175: 560 Joules (8/20µs wave) SDSA3650: 2100 Joules (8/20µs wave)
Short circuit current rating	SDSA1175 - 22 kA SDSA3650 - 200 kA

SDSA1175





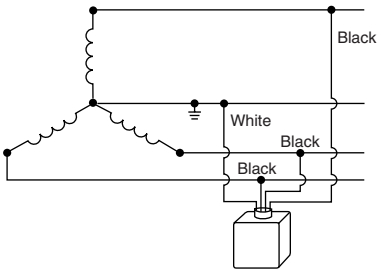
One SDSA1175 on 120/240 Vac Circuit



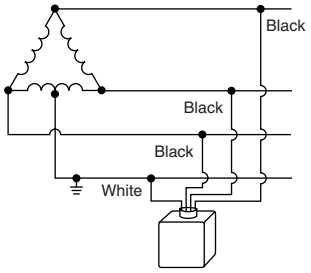
Two SDSA1175s on 208Y/120 Vac Circuit

NOTE: Systems shown must be solidly grounded.
Do not use on ungrounded systems.

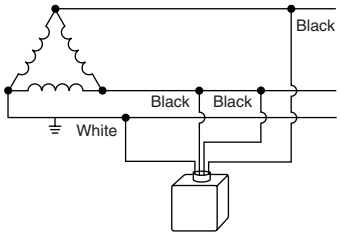
SDSA3650



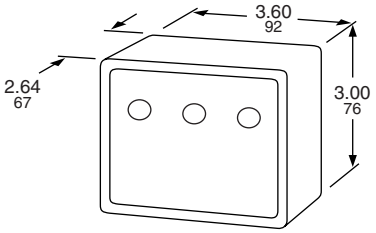
3ϕ4W
208Y/120Vac,
480Y/277Vac
and 600Y/347Vac



3ϕ4W
240/120Vac



3ϕ3W
(Corner Grounded)
240Vac and 480Vac
and 600 Vac



NOTE: Systems shown must be solidly grounded.
Do not use on ungrounded systems.

WARRANTIES

Surgebreaker® Plus Warranty

Protection Limits
With regard to any Surgebreaker Plus device (catalog number SBSB1175C) from Square D® that has been properly installed in a residential home in compliance with the current National Electrical Code (NEC) requirements, Square D warrants to the homeowner at the time of such installation (or the initial homeowner if installed as part of new construction) that Square D shall accept responsibility for any damage to that homeowner's major household connected equipment, as defined below, up to the limits provided herein, to the extent such damage is caused by the failure of such surge protection device to protect against electrical power surges caused by lightning or a utility company (electric, coaxial or telephone). As used herein, "connected household equipment" shall mean major household appliances and electronic devices, including refrigerators, freezers, air conditioners, stoves, oven, microwave oven, clothes washer, clothes dryer, dishwasher, audio and stereo components, video equipment, televisions and computers.

The limit of Square D's liability under this warranty shall be the lesser of $25,000 or the deductible amount of customer's insurance policy covering such connected household equipment, except that when the Surgebreaker Plus device is used in conjunction with both a point of use surge protective device and a Square D QO® or Homeline® Load Center device, then the limit of Square D's liability under this warranty shall be the lesser of $50,000 or the deductible amount of customer's insurance policy covering such major connected household equipment. As used herein, "point of use surge protective device" shall mean a surge protective device that is listed to UL 1449 Listed (with a clamping voltage of 330 volts for solid state devices) and that is located at and connected to the connected household equipment for which a damage claim is made.

Warranty Period
This warranty shall be in effect three (3) years following the date of purchase of the Surgebreaker Plus device, except that when the Surgebreaker Plus device is used in conjunction with both a point of use surge protective device and a Square D QO or Homeline Load Center device, then this warranty shall be in effect for five (5) years following the date of purchase of the Surgebreaker Plus device.

Warranty Not Transferable
This warranty may not be transferred from the homeowner who initially receives this warranty to any other party.

Warranty Limitations
THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

This warranty excludes damage or loss arising from any of the following events or sources: unauthorized product modification or alteration, force major events such as flood or earthquake, war, insurrection, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, defective software and computer virus infection.

Square D shall not be liable for any indirect, incidental, consequential damages.

With respect to products purchased by consumers in the United States for personal use, implied warranties, including but not limited to the warranties of merchantability and fitness for a particular purpose, are not excluded but are limited to the extent allowed by law to the duration of the warranty period set forth above.

No claim under this warranty will be honored unless the homeowner has reported the damage within thirty (30) days after its occurrence in accordance with the claims procedure below.

Claims Procedure
To make a claim under this warranty, please follow these steps:

1. Retain the original dated sales receipts of the Surgebreaker Plus from Square D, and if applicable, the UL 1449 approved secondary surge protector(s).
2. Ask an independent repairman to write a report on the cause of the damage. Retain all related repair receipts.
3. File a claim under homeowner's insurance.
4. File a claim with the manufacturer of the UL 1449 secondary surge device, if applicable.
5. Within thirty (30) days of the occurrence of the damage and prior to repairing the damaged equipment, contact Schneider Electric at (859) 243-8220, Monday through Friday 8:00 a.m. to 4:00 p.m. Eastern Standard Time (EST).
6. Send the purchase receipt, repair receipt, damage report, any homeowner's insurance report and any secondary surge manufacturer's report along with the damaged Surgebreaker Plus component(s) (electrical, telephone and/or coaxial cable) to Schneider Electric, 1601 Mercer Road, Lexington, KY 40511, Attn: Surgebreaker Plus Warranty. (If no claim is filed with the UL 1449 secondary surge device manufacturer, any warranty claim here under will be subject to three (3) year / $25,000 limitations stated here in.)

Surgebreaker Surge Protection Devices

Surgebreaker® Surge Protection Devices Warranty

Protection Limits
With regard to any Surgebreaker surge protection device (catalog numbers QO2175SB and HOM2175SB) from Square D® that has been properly installed in a residential home in compliance with the current National Electrical Code (NEC) requirements, Square D warrants to the homeowner at the time of such installation (or the initial homeowner if installed as part of new construction) that Square D shall accept responsibility for any damage to that homeowner's major household appliances, as defined below, up to the limits provided herein, to the extent such damage is caused by the failure of such surge protection device to protect against electrical power surges caused by lightning or the electric utility. As used herein, "major household appliances" shall mean: refrigerators, freezers, air conditioners, stoves, ovens (except microwave), clothes washers, clothes dryers, and dishwashers.

Major household appliances specifically shall NOT include electronic devices such as: microwave ovens, audio and stereo components, video equipment, televisions, and computers.

The limit of Square D's liability under this warranty shall be $10,000 or the deductible amount of customer's insurance policy covering such major household appliances, whichever is less.

Warranty Period
This warranty shall be in effect until three (3) years following the date of purchase of the Surgebreaker surge protection device, or until two (2) years following the date of installation, whichever occurs earlier.

Warranty Not Transferable
This warranty may not be transferred from the homeowner who initially receives this warranty to any other party.

Warranty Limitations
THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

This warranty excludes damage or loss arising from any of the following events or sources: unauthorized product modification or alteration, force major events such as flood or earthquake, war, insurrection, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, defective software and computer virus infection.

Square D shall not be liable for any indirect, incidental, consequential damages.

With respect to products purchased by consumers in the United States for personal use, implied warranties, including but not limited to the warranties of merchantability and fitness for a particular purpose, are not excluded but are limited to the extent allowed by law to the duration of the warranty period set forth above.

No claim under this warranty will be honored unless the homeowner has reported the damage within thirty (30) days after its occurrence in accordance with the claims procedure below.

Claims Procedure
To make a claim under this warranty, please follow these steps:

1. Retain the original dated sales receipts of the Surgebreaker surge protection device from Square D.
2. Prior to repairing the damaged appliance, contact Square D at (859) 243-8220, Monday through Friday 8:00 a.m. to 4:00 p.m. Eastern Standard Time (EST).
3. Ask the appliance repairer to write a report on the cause of the damage. Retain all related repair receipts.
4. File a claim under homeowner's insurance.
5. Send the purchase receipt, repair receipt, damage report, any homeowners insurance report along with the damaged Surgebreaker surge protection device to Schneider Electric, 1601 Mercer Road, Lexington, KY 40511, Lexington, KY 40503, Attn: Surgebreaker Surge Protection Device Warranty.

Schneider Electric USA
1601 Mercer Road
Lexington, KY 40511 USA
1-888-SquareD
(1-888-778-2733)
www.us.SquareD.com

Schneider Electric Canada
19 Waterman Avenue,
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