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› Siemens QSA1515SPD Whole House Surge Protection with Two 15-Amp Circuit Breakers User Manual

SIEMENS QSA1515SPD

Siemens QSA1515SPD Whole House Surge Protection with Two 15-Amp Circuit Breakers User Manual

Model: QSA1515SPD

1. INTRODUCTION

The Siemens QSA1515SPD is a Circuit Breaker and Surge Protective Device (SPD) designed for whole-house surge protection. This device integrates a highly effective Transient Voltage Surge Suppressor (TVSS) with two 1-pole circuit breakers. It is engineered to provide robust protection against electrical surges for all circuits connected to the panelboard. A key feature includes two green LED indicator lights that confirm active surge protection. Should the surge protection capability be compromised, the device is designed to notify the user by tripping one or both of the integrated circuit breakers, indicating a loss of protection.

The SPD module utilizes Siemens-built 150V AC, 40mm Metal Oxide Varistors (MOVs) and has a maximum impulse rating of 40kA. The integrated circuit breakers have a standard interrupting rating of 10kAIC and are SWD and HACR rated. This plug-on style device is rated for 120/240V AC and is calibrated for maximum ambient applications at 40 degrees Celsius.

2. SETUP AND INSTALLATION

The Siemens QSA1515SPD is designed for use exclusively in Siemens Load Centers and meter combinations. This unit occupies the space of two standard single-pole circuit breakers but includes two 15-Amp single-pole breakers, ensuring no loss of panel space.



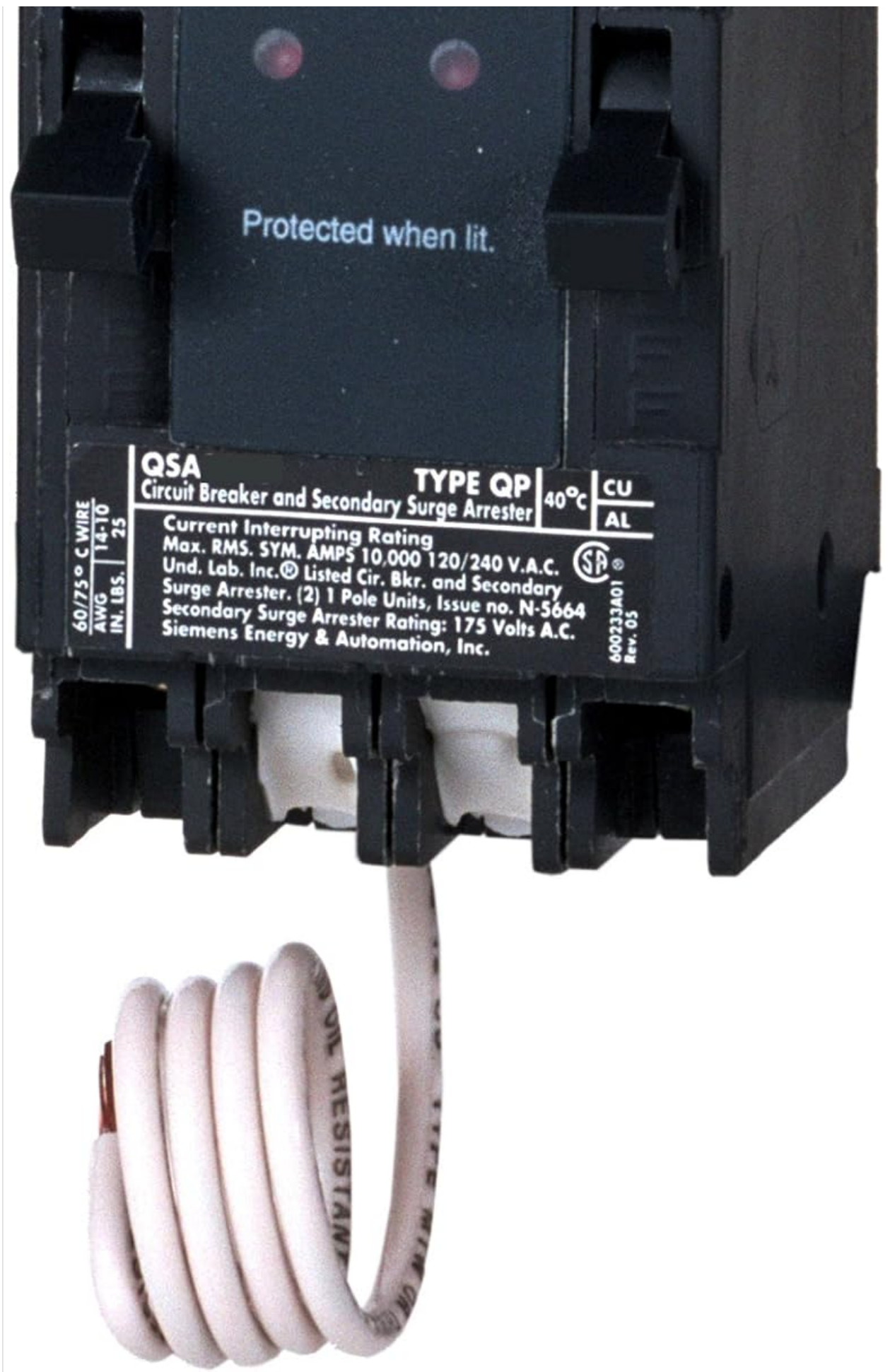


Image: Siemens QSA1515SPD Whole House Surge Protector. This image shows the compact design of the surge protective device integrated with two 15-Amp circuit breakers, ready for installation into a compatible Siemens electrical panel.

Installation Guidelines:

- **Safety First:** Installation involves working with live electrical panels and potentially lethal voltages. It is strongly recommended that installation be performed by a qualified electrician or individuals with extensive experience in electrical work. Ensure the main power supply to the panel is turned off before beginning any installation.
- **Panel Compatibility:** This device is specifically designed for Siemens panels. Verify your electrical panel is a Siemens Load Center before attempting installation.
- **Space Requirement:** The QSA1515SPD requires two consecutive single-pole breaker slots in your panel.
- **Breaker Removal:** Carefully remove the two existing single-pole breakers from the desired installation location.
- **Device Installation:** Insert the QSA1515SPD into the vacant slots, ensuring it is securely seated on the bus bar.
- **Wiring Connections:**
 - Connect the black hot wire(s) to the appropriate terminals on the SPD. Note that the lower breaker lug may require the black hot wire to be slightly longer than what was previously connected.
 - Connect the white neutral wire from the SPD to the neutral bus bar in your panel.
- **Power Restoration:** Once all connections are secure and verified, restore power to the electrical panel.

Warning: Do not attempt installation if you are not comfortable working with electrical systems. Improper installation can lead to serious injury or damage to property.

3. OPERATING INSTRUCTIONS

The Siemens QSA1515SPD operates automatically to protect your home's electrical system from surges. Its operational status is indicated by two green LED lights located on the front of the device.

Status Indicators:

- **Green LED Lights On:** Both green LED indicators illuminated signify that the surge protection function is active and the device is providing protection to your electrical system.
- **Green LED Lights Off:** If one or both green LED indicators are not illuminated, it indicates a loss of surge protection capability. In this event, the device may have absorbed a significant surge and tripped its internal circuit breakers to disconnect from the power supply.

If the LEDs are off, the device needs to be inspected. If the integrated circuit breakers have tripped, reset them by moving the handle fully to the "OFF" position and then to the "ON" position. If the breakers immediately trip again or the LEDs remain off after resetting, the device may need replacement.

4. MAINTENANCE

The Siemens QSA1515SPD is designed for minimal maintenance. The primary maintenance task involves monitoring the status indicator lights.

Routine Checks:

- **LED Status:** Periodically check the green LED indicator lights on the front of the device. Ensure both LEDs are illuminated.
- **Visual Inspection:** Occasionally inspect the device for any visible signs of damage or wear.

There are no user-serviceable parts inside the Siemens QSA1515SPD. Do not attempt to open or repair the device. If the device is not functioning correctly (e.g., LEDs are off, or breakers trip repeatedly), it should be replaced by a qualified professional.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Siemens QSA1515SPD.

Problem	Possible Cause	Solution
Green LED indicator lights are off.	The surge protection function has been compromised, likely due to absorbing a significant electrical surge.	The device needs to be replaced. Contact a qualified electrician for inspection and replacement.
Integrated circuit breaker(s) trip.	Overcurrent condition on the protected circuit. The SPD has absorbed a surge and tripped to indicate loss of protection.	Reset the breaker by moving the handle fully to "OFF" then "ON". If it trips again, investigate the circuit for overloads or short circuits. If LEDs are off after resetting, the SPD needs replacement.
Device does not fit into the panel.	Incompatible panel type or incorrect installation attempt.	Ensure your panel is a Siemens Load Center. This device is designed for Siemens panels only. Do not force installation.

If troubleshooting steps do not resolve the issue, or if you are unsure about any electrical procedures, always consult a qualified electrician.

6. SPECIFICATIONS

Below are the technical specifications for the Siemens QSA1515SPD Whole House Surge Protective Device.

Circuit Breaker and Surge Protective Device (SPD)

The Siemens circuit breaker and Surge Protective Device (SPD) is comprised of a highly effective TVSS integrated with (2) 1-pole circuit breakers. This device incorporates the robust features of a secondary circuit breaker surge arrester with a lower clamping voltage ratings.

Two green LED indicator lights are provided to show that surge protection is provided for all circuits connected to the panelboard. As a Siemens exclusive feature, the device notifies the owner of loss of surge protection by tripping one or both of the circuit breakers.

The circuit breaker and SPD utilize Siemens-built 150V AC, 40mm, metal oxide varistors (MOVs). The maximum impulse rating for the SPD module is 40kA. The standard interrupting rating for the circuit breakers is 10k AIC. The circuit breakers are SWD and HACR rated.

All Type QP circuit breakers and SPD are plug-on style, with load terminals provided. The devices are rated for 120/240V AC and are calibrated for 40 degrees C maximum ambient applications.



Features

	Catalog number
15 Amp 20 Amp	QSA1515SPD QSA2020SPD
Amperage	15 or 20 Amp
Number of poles	(2) 1-Pole circuit breakers
Initial clamping level	240 Volts
Transient energy rating	360 Joules, line-to-neutral 720 Joules, line-to-line
Transient suppression	500 Volts peak, line-to-neutral
Voltage rating	1000 Volts peak, line-to-line
Peak current rating (impulse)	40,000 amperes
Discharge voltage characteristic	@ 1,500A, 600 Volts, line-to-neutral @ 5,000A, 800 Volts, line-to-neutral
Discharge current withstand rating	10,000 amperes, line-to-neutral
Circuit breaker interrupting rating	10,000A, 120/240V AC
House wiring system warranty amount	\$20,000
Warranty period	24 months
Listings/certifications	UL, CSA, Meets UL 1449 3rd edition

Data Sheet

www.usa.siemens.com/surge

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Image: Data sheet for Siemens Circuit Breaker and Surge Protective Device (SPD). This document provides a detailed overview of the product's features and technical specifications, including amperage, voltage ratings, and certifications.

Feature	Specification
Model Number	QSA1515SPD

Feature	Specification
Amperage	15 Amp (for QSA1515SPD)
Number of Poles	(2) 1-Pole circuit breakers
Initial Clamping Level	240 Volts
Transient Energy Rating (Line-to-Neutral)	360 Joules
Transient Energy Rating (Line-to-Line)	720 Joules
Transient Suppression (Line-to-Neutral)	500 Volts peak
Transient Suppression (Line-to-Line)	1000 Volts peak
Peak Current Rating (Impulse)	40,000 amperes
Discharge Voltage Characteristic (@1,500A, Line-to-Neutral)	600 Volts
Discharge Voltage Characteristic (@5,000A, Line-to-Neutral)	800 Volts
Discharge Current Withstand Rating (Line-to-Neutral)	10,000 amperes
Circuit Breaker Interrupting Rating	10,000A, 120/240V AC
Voltage Rating	240 Volts
Product Dimensions (D x W x H)	3"D x 2"W x 3"H
Item Weight	8.8 ounces
Mounting Type	Panel Mount

7. WARRANTY AND SUPPORT

Warranty Information:

- **Warranty Period:** The Siemens QSA1515SPD comes with a 24-month warranty.
- **House Wiring System Warranty:** This product includes a house wiring system warranty amount of \$20,000.
- **Important Warranty Note:** Siemens strongly advises against the use of "used" breakers. The installation of used breakers in a Siemens panel will void the warranty on the panel. Siemens does not sell used breakers and has not approved any third-party sellers to do so.

Certifications:

- UL Listed
- CSA Certified
- Meets UL 1449 3rd edition standards

Customer Support:

For further assistance, technical support, or warranty claims, please refer to the official Siemens website or contact their customer service department. Always provide your product model number (QSA1515SPD) when seeking support.

For more information, visit: www.usa.siemens.com/surge

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question