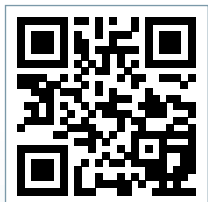


SIEMENS

Ingenuity for life



BoltShield™ – Residential Surge Protection

Complete Surge Protection Solution for Your Home. QSPD-Base model ideal for large projects

usa.siemens.com/surge

SURGE PROTECTIVE DEVICES

Protecting Your Electronics ⚡ Protecting Your Home

The 2020 *National Electrical Code* now requires *Surge Protective Devices* in new or renovated homes. Learn how these devices *protect your home and your electronics*.

What is a Surge?

A power surge is a brief **overvoltage event** that can **damage** electrical devices and is a **common cause** for failure of electrical equipment.

SURGES CAN DAMAGE AND REDUCE THE LIFESPAN OF:



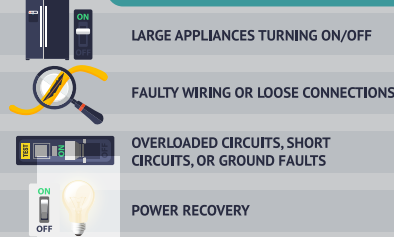
\$15,000
DAMAGED EQUIPMENT

According to the *National Electrical Manufacturers Association*, the average home has \$15,000 worth of equipment that can be damaged by surge.

Common Causes of Surge:

IT IS ESTIMATED THAT **80% OF SURGES** ARE CAUSED BY INTERNAL SOURCES.

Internal Sources



External Sources



NEW 2020 NATIONAL ELECTRICAL CODE REQUIREMENTS

All new and renovated homes are **required** to be protected by Listed and Approved **Type 1** or **Type 2** Surge Protective Devices.

Type 1
Permanently connected Surge Protective Device. Protects against external and internal surges. May be installed **inside or outside** the home

Type 2
Permanently connected Surge Protective Device installed in, or next to, breaker box. Protects against **internal and external** surges.

Extra Protection

Type 3
Point of use Surge Protective Device. **Must be used in conjunction with Type 1 or Type 2 SPD** to meet 2020 code requirements.

Use **Type 1, 2, and 3 SPDs** for the best level of protection.

According to the Electrical Safety Foundation International, only 21% of surges come from lightning, whereas the majority come from powering on/off electrical equipment, faulty, or damaged wiring. 76% of industrial facilities have monthly equipment damage from surges as reported by ESFI. Furthermore, 56% of healthcare facilities have injuries or death that occurred due to surges at least once a year.¹

QSPD - Base features:

- 35kA surge current protection per phase
- Fits into existing Siemens load centers
- 20kA I-nominal ratings
- UL 1449 SPD Type 1*
- 22kA SCCRs
- Stackable design for increased protection vs. competition
- Green/red visual mechanical flag failure indicators
- Monolithic distribution grade MOV
- Thermally protected MOV
- 3-year/\$10,000 standard warranty
- Easy to install and available for retrofit in most legacy Siemens Load Centers

ESFi.org | www.facebook.com/ESFI.org | www.twitter.com/ESFIdotorg | www.youtube.com/ESFIdotorg | SIEMENS

BoltShield™

SIEMENS

QSPD Series
Surge Protective Device

SPD Type: SPD Type 1; SPD Type 2
Rated Line Voltage: 120 VAC; 50/60 Hz
SCCR: 22 kA



GREEN = Full Protection
RED = No Protection (replace SPD)

QSPD2A035B



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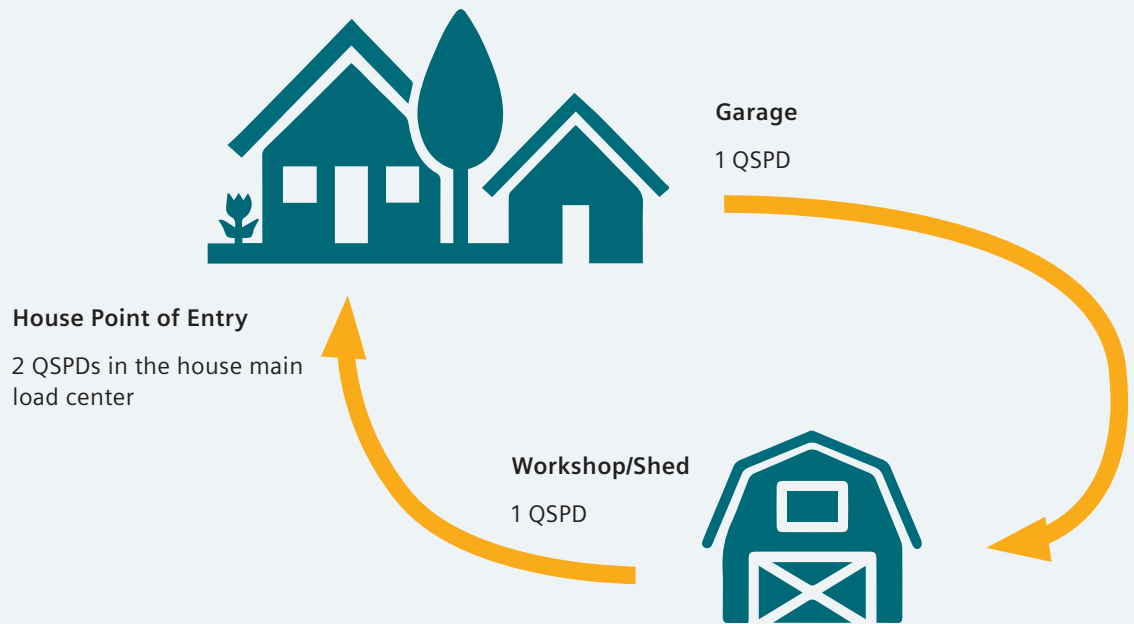
Mechanical
Indication



¹ Electrical Safety Foundation International 2017 surge survey

Surge Protection for Properties with Multiple Dwellings

Many buildings only include one SPD located at the main incoming load center and do not cascade SPDs throughout the building as recommended by IEEE (Institute of Electrical and Electronics Engineers). Adding or cascading QSPDs can increase the modes of protection and the surge capacity for your entire home grid.



By installing 2 QSPDs in the house main load center at the point of entry, 1 unit in the garage, and 1 unit at the workshop or shed would provide overall more surge protection.

Catalog no.	System voltage	Surge current rating	Poles	VPR rating L-N/L-G	Other specifications
QSPD2A035B	120/240V, 1Ø, 3W 208Y/120V, 1Ø, 3W	35kA	2	700V	• UL Type Designation: SPD Type 1, also suitable for use in Type 2 applications • Nominal Discharge Current (In): 20kA • 2-pole plug on configuration in QP footprint • Flashing Dual Color LED (Green/Red) Status Indicator • Pre-wired #14 AWG (solid copper stranded)

The new BoltShield surge protective device can be complimented by a Siemens combination circuit breaker and surge protective device which functions as a secondary circuit breaker.

For more product details, download the data sheet by clicking [here](#)



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