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BoltShield™ – Residential Surge Protection

Complete Surge Protection Solution for Your Home

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

- LARGE APPLIANCES TURNING ON/OFF
- FAULTY WIRING OR LOOSE CONNECTIONS
- OVERLOADED CIRCUITS, SHORT CIRCUITS, OR GROUND FAULTS
- POWER RECOVERY

External Sources

- LIGHTNING
- DAMAGE TO POWER LINES
- UTILITY POWER GRID SWITCHING

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.

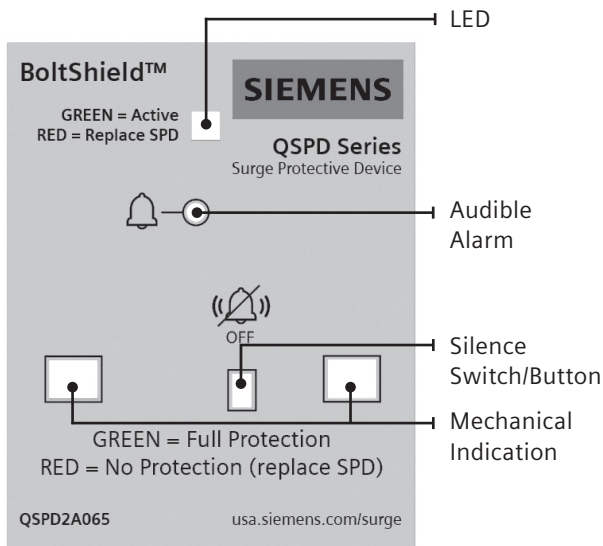
Use **Type 1, 2, and 3 SPDs** for the best level of protection.

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 Features:

- 65kA surge current protection per phase
- Fits into existing Siemens load centers
- 20kA I-nominal ratings
- UL 1449 SPD Type 1*
- 200kA SCCRs
- Stackable design for increased protection vs. competition
- Green/red visual mechanical flag failure indicators
- Audible alarm w/ silence switch/button
- Monolithic distribution grade MOV
- Thermally protected MOV
- 10-year/\$50,000 standard warranty
- Easy to install and available for retrofit in most legacy Siemens Load Centers

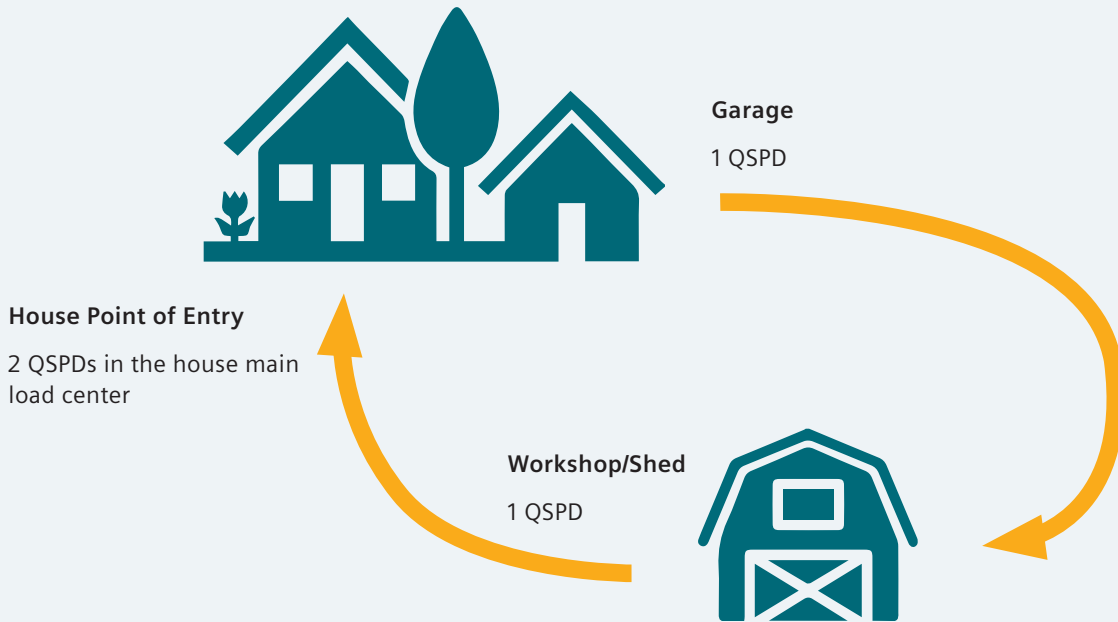
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¹ Electrical Safety Foundation International 2017 surge survey

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	SCCR (system rating)	Surge current rating	Poles	VPR rating L-N/L-G	Other specifications
QSPD2A065P*	120/240V, 1Ø, 3W 208Y/120V, 1Ø, 3W	200kA	65kA	2	600V	<ul style="list-style-type: none"> UL Type Designation: SPD Type 1, also suitable for use in Type 2 applications Nominal Discharge Current (In): 20kA 2-pole and 3-pole plug on configurations in QP footprint Flashing Dual Color LED (Green/Red) Status Indicator Audible Alarm w/ Silence Switch/Button Pre-wired #14 AWG (solid copper stranded)
QSPD3B065	240/120V, 3Ø, 4W	200kA	65kA	3	600V	
QSPD3C065	208Y/120V, 3Ø, 4W	200kA	65kA	3	600V	
QSPD3D065	240V, 3Ø, 3W	200kA	65kA	3	900V	

*QSPD2A065P comes in retail style blister pack packaging.

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 surge arrester with a lower clamping voltage rating.

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



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