SIEMENS FSPD100

Siemens Boltshield FSPD100 Whole House Surge Protection Device

User Manual

1. Product Overview

The Siemens Boltshield FSPD100 is a Level 2 Whole House Surge Protection Device designed to safeguard your home's electrical system and connected appliances from damaging power surges. It offers robust protection against both external surges (e.g., lightning strikes, utility grid fluctuations) and internal surges (e.g., from large appliance cycling). This device features diagnostic monitoring and a high 100kA surge current rating to ensure comprehensive protection.

Key Features:

- **Visual Red Flag Indicator and Audible Alarm:** Provides immediate notification when the device requires replacement after a significant surge event.
- **100kA Surge Current Protection:** Offers a high level of protection for your entire home.
- **External Parallel Connection:** Designed for convenient mounting adjacent to your electrical gear.
- **NEMA Type 4 Outdoor Enclosure:** Suitable for both outdoor and indoor installations, including inside the load center.
- **Thermally Protected MOVs:** Enhances safety and device longevity.

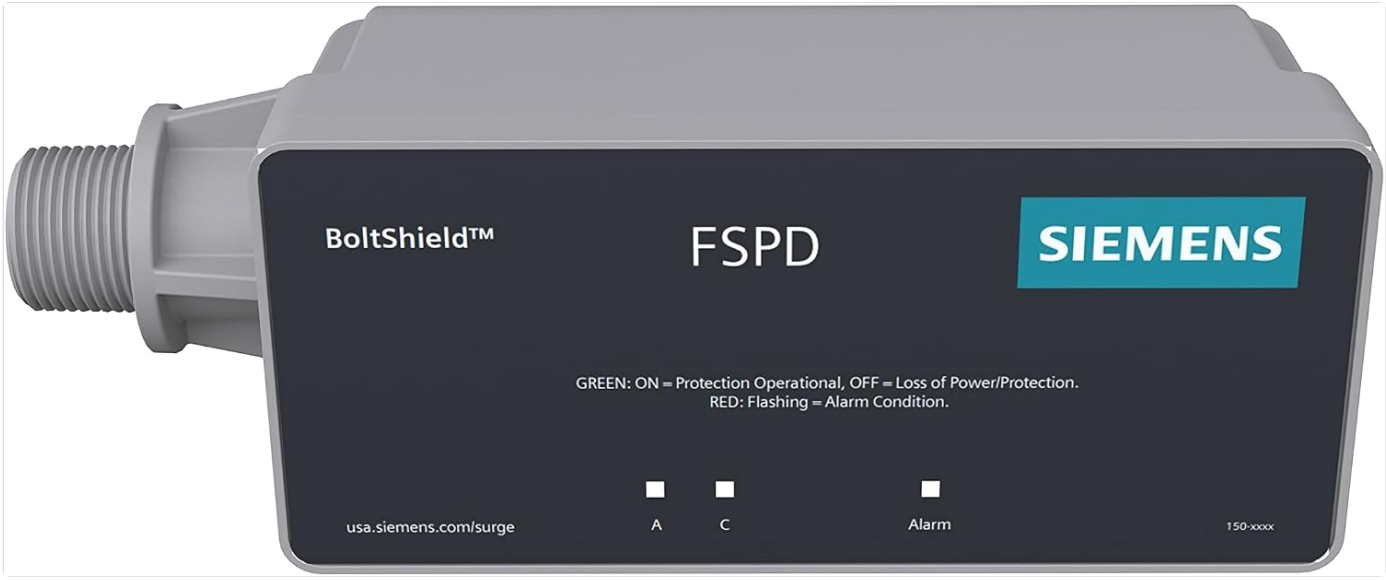


Figure 1: Front view of the Siemens Boltshield FSPD100 Surge Protection Device.

Figure 2: Overview of the Siemens Boltshield FSPD series, showing different models.

2. Safety Information

WARNING: Installation of this device involves working with high voltage electricity, which can be hazardous. Improper installation can result in serious injury, death, or property damage. This product must be installed by a qualified electrician in accordance with all national and local electrical codes.

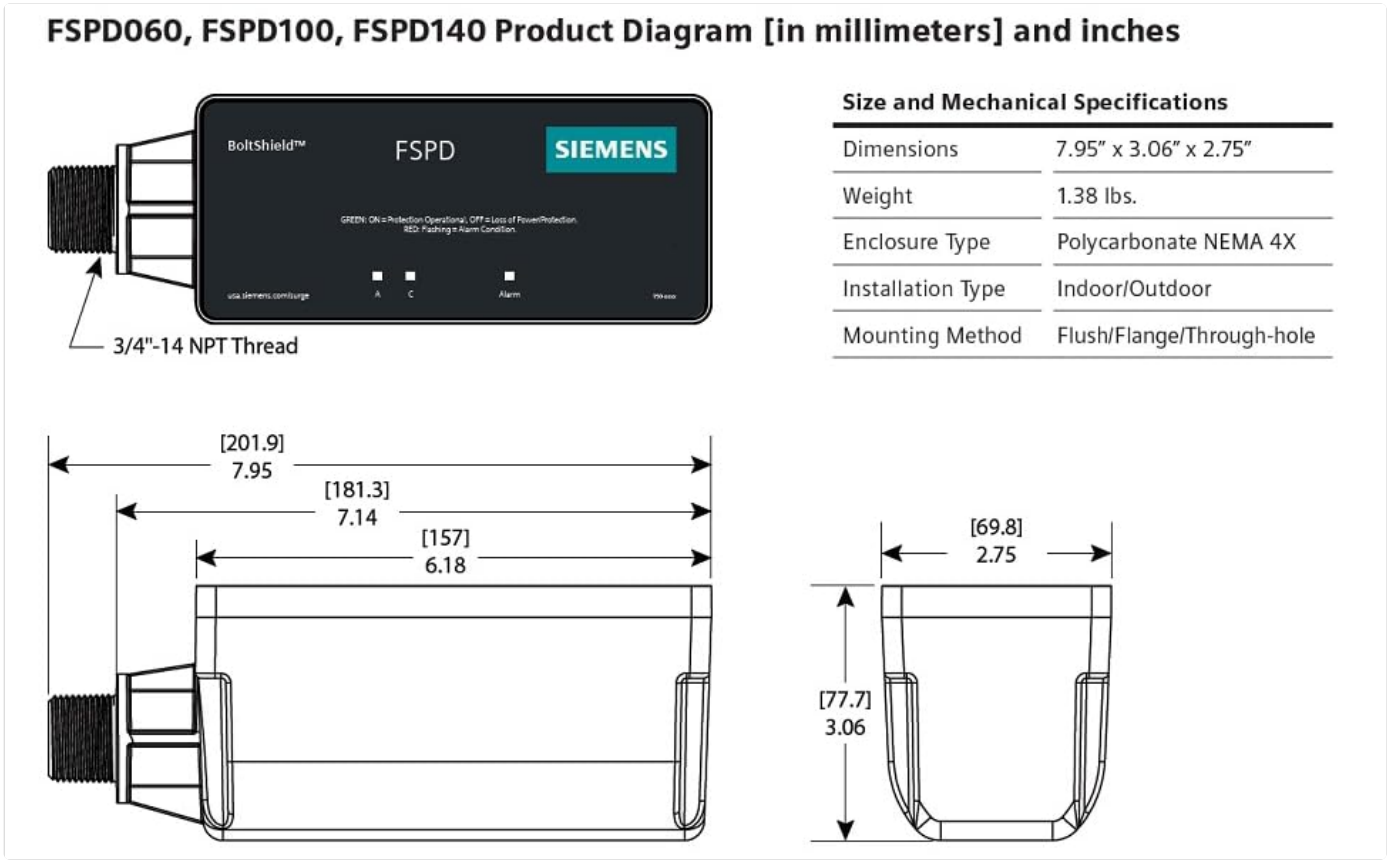
- Always disconnect power at the main service panel before attempting any installation or maintenance.
- Ensure all wiring connections are secure and properly insulated.
- Do not operate the device if it appears damaged.
- Keep children and unauthorized personnel away from electrical equipment.

3. Installation (Setup)

The Siemens Boltshield FSPD100 is designed for external parallel connection, typically mounted next to the main electrical service panel or load center. It is suitable for both indoor and outdoor environments due to its NEMA 4X rated enclosure.

Installation Steps:

1. **Power Disconnection:** Turn off the main circuit breaker at your electrical service panel to completely de-energize the system. Verify power is off using a voltage tester.
2. **Mounting Location:** Select a suitable mounting location near the service panel. The device can be flush-mounted, flange-mounted, or through-hole mounted. Ensure adequate space for wiring and future access.
3. **Secure Mounting:** Securely attach the FSPD100 device to the chosen surface using appropriate hardware.
4. **Wiring Connections:** Connect the device's leads to the appropriate terminals within the service panel. Follow local electrical codes for proper wiring practices. The FSPD100 typically connects to two hot phases and a neutral/ground.
5. **Conduit Connection:** The device features a 3/4"-14 NPT thread for conduit connection, ensuring a weather-tight seal for outdoor installations.
6. **Power Restoration:** Once all connections are secure and verified, restore power by turning on the main circuit breaker.



Size and Mechanical Specifications	
Dimensions	7.95" x 3.06" x 2.75"
Weight	1.38 lbs.
Enclosure Type	Polycarbonate NEMA 4X
Installation Type	Indoor/Outdoor
Mounting Method	Flush/Flange/Through-hole

Figure 3: Product diagram showing dimensions and mechanical specifications for FSPD60, FSPD100, and FSPD140 models.

4. Operating Instructions

The Siemens Boltshield FSPD100 operates automatically to protect your electrical system from surges. There are no user-adjustable settings. The device's operational status is indicated by its front-panel lights.

Indicator Lights:

- **GREEN (ON):** Indicates that the surge protection is operational and the device is functioning correctly.
- **OFF (No Light):** Indicates a loss of power to the device or that the surge protection is no longer operational.
- **RED (FLASHING):** Indicates an alarm condition, meaning the device has absorbed a significant surge and requires replacement.

Regularly check the indicator lights to ensure continuous protection.

5. Maintenance

The Siemens Boltshield FSPD100 is a low-maintenance device. The primary maintenance task is to periodically check the status indicator lights.

Maintenance Schedule:

- **Monthly Visual Inspection:** Check the indicator lights on the front of the device.
- **After Severe Weather:** Inspect the device after any significant electrical storms or power fluctuations.

Replacement:

If the indicator lights are OFF or FLASHING RED, the device has likely absorbed a surge and is no longer providing full protection. In this event, the device needs to be replaced. Contact a qualified electrician for replacement.

6. Troubleshooting

Symptom	Possible Cause	Action
No indicator lights are ON.	No power to the device or device has failed.	Verify power to the service panel. If power is present, the device may need replacement. Consult a qualified electrician.
Red light is FLASHING.	Device has absorbed a significant surge and is no longer fully operational.	The device requires replacement. Contact a qualified electrician.
Green light is ON.	Normal operation.	No action required. The device is providing protection.

7. Technical Specifications

Specification	Value
Brand	SIEMENS
Model Number	FSPD100
Current Rating	100 Amps (100kA Surge Current Rating)
Voltage	120/240 Volts

Specification	Value
Number Of Poles	3
Mounting Type	External Parallel (Flush/Flange/Through-hole)
Enclosure Type	Polycarbonate NEMA 4X
Installation Type	Indoor/Outdoor
Item Weight	1.6 pounds
Package Dimensions	9.41 x 4.65 x 3.23 inches
Included Components	Surge Protection Device
UPC / GTIN	195125378438

8. Warranty and Support

Warranty Information:

For detailed warranty information regarding your Siemens Boltshield FSPD100 Surge Protection Device, please refer to the warranty card included with your product or visit the official Siemens website. Keep your proof of purchase for warranty claims.

Customer Support:

If you have questions about the installation, operation, or troubleshooting of your Siemens Boltshield FSPD100, please contact Siemens customer support. You can find contact information on the official Siemens website or through the documentation provided with your device.

For technical assistance or to arrange for professional installation/replacement, it is recommended to consult a qualified and licensed electrician.

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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.

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