

Is an SPD installed in the rooftop equipment room distribution box

Overview

Surge protective devices must fit inside the distribution box. (A) Surge-Protective Device A feeder that supplies any of the following must. Proper placement of Surge Protective Devices (SPDs) is the single most critical factor determining whether your facility withstands a catastrophic electrical event or suffers thousands of dollars in equipment damage. While selecting the correct voltage rating and discharge current capacity is. Under NEC 2023 Article 230. 67, all services supplying dwelling units must have a Type 1 or Type 2 SPD installed. This requirement applies to: The code specifies that the SPD must be an integral part of the service equipment or located immediately adjacent to it. For contractors, this means surge. The 2023 National Electrical Code (NEC) significantly expanded and clarified requirements for surge-protective devices (SPDs).



Article Content

Aug 07, 2025

Best practice for using surge protective devices (SPDs) and RCD

Surge protective devices (SPDs) and RCDs Where the power distribution system incorporates RCDs transient activity

Dec 29, 2025

2023 NEC Surge Protection Requirements: What Electricians Need to

Replacement Rule If the distribution equipment supplied by the feeder is replaced, an SPD must be installed.

Mar 20, 2026

How to Choose the Right Surge Protection Device (SPD) for Your Install

Learn how to choose the correct surge protection device (Type 1, 2, or 3) for domestic, commercial, and EV installs. Covers

Jun 29, 2026

What is A Surge protective device (SPD)? How to install it in an AC ...

A Surge Protective Device (SPD) is a critical component designed to safeguard electrical systems and equipment from voltage

Nov 03, 2025

SPD Installation Requirements: Meeting Code and

This guide details the technical requirements, code mandates, and best practices for SPD

Jul 28, 2025

Where Should You Install SPDs in Your Electrical Panel?

Electrical distribution panel with VIOX Surge Protective Devices installed on DIN rails Understanding SPD Types and

Aug 31, 2025

Surge Protective Devices (SPD)

Surge Protective Devices (SPD) are used to protect the electrical installation, which consists of the consumer unit, wiring and

Feb 20, 2026

Types of Surge Protective Devices (SPDs) and their use in electrical ...

Type 1+2 SPDs are installed close to the intake position, such as at the first distribution board, in buildings which are

Feb 27, 2026

NEC requirements for surge protection

Industry impact: Similar to emergency systems, surge protection is now mandatory for legally required standby systems to ensure

Aug 16, 2025

How to install and maintain surge protective devices□

How Do Surge Protective Devices Work? Surge protective devices function by diverting excessive voltage away from

Jan 04, 2026

NFPA 70, National Electrical Code | Mersen

Type 1 devices are dual rated for Type 2 applications as well, providing the highest ratings available for installation at the service

Jul 31, 2025

Surge protection (SPD) products sidemounted applications

A surge device equipped with filtering should be installed at the main service entrance and key distribution or branch panelboards to

Jul 27, 2025

SPD location and configuration | Information by Electrical ...

Would it be better to install a SPD at the service disconnect and use a 4-wire device or at the inside panel with only 3

Jul 15, 2026

Application Paper AP158002EN Installing surge protective ...

Externally mounted SPD without an OCPD within the power distribution equipment at the point of In order to apply the Feeder Tap

Aug 23, 2025

Code Q& A: SPD Requirements

Per Sec. 230.67 (B): "The SPD shall be an integral part of the service equipment or shall be located immediately

Mar 22, 2026

Where Should You Install SPDs in Your Electrical Panel?

Learn the correct installation locations for Type 1, Type 2, and Type 3 Surge Protective Devices (SPDs). This guide

Feb 09, 2026

Surge Protection Device (SPD) Installation Guide

Installing a Surge Protection Device (SPD) is a proactive way to safeguard your home or

Apr 25, 2026

Is an SPD installed in the rooftop equipment room distribution box ...

This will mean that any distribution board supplying electrical equipment that would fall in to the definition of a safety service, as

Sep 26, 2025

Guidelines for SPD Layout of Building Distribution Boxes

SPD layout in building distribution boxes ensures proper surge protection, safe equipment operation, and compliance

Nov 27, 2025

Ultimate Guide to Surge Protection Devices (SPDs) for

How SPDs Protect Sensitive PV Electronics A properly installed surge protection device for

Dec 16, 2025

Surge protector

Surge protection device (SPD) for installation in a low-voltage distribution system A surge protector, spike suppressor, surge

Nov 07, 2025

Where is the surge protective device installed in the distribution box ...

Where is the surge protective device installed in the distribution box The surge protective device can immediately discharge the

Dec 16, 2025

When is it necessary to install surge protection devices?

When is it necessary to install surge protection devices? aim of this article is to provide guidance on whether surge protection

Dec 07, 2025

Surge Protective Devices (SPD) GUIDE

3. Type 3 SPD Type 3 SPDs are designed to protect against low-energy surges and are installed close to sensitive electronic

Jan 16, 2026

Solar Surge Protection: 3-Layer DC SPD Guide for PV Systems

Solar surge protection is the use of DC Surge Protective Devices (SPDs) installed within a PV system to detect,

Jun 09, 2026

Layout 1

BS EN 62305 refers to the correct application of lightning current and transient overvoltage SPDs as a coordinated set where the

Sep 19, 2025

Microsoft Word

1 SPD is used at the origin of the installation, in some cases a Type 2 can be installed at the main distribution board and, in some

Mar 25, 2026

INSTALLATION GUIDE

This will mean that any distribution board supplying electrical equipment that would fall in to the definition of a safety service, as

Dec 07, 2025

Surge protection for electrical power installations

Surge protection devices should be installed at the distribution board up-stream of any RCDs with protection from phases to neutral.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg,
2196, South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

