



Armada

Surge Protection

The Importance of Surge Protection in Building Safety

1. Why Install a Surge Protector in a Building?

Transient electrical surges, caused by lightning strikes or switching events in the power grid, pose a major risk to the safety of buildings and their systems. These surges can lead to:

Premature degradation or destruction of sensitive electronic equipment (security systems, HVAC controls, IT networks, home automation, etc.).

Critical failures in the operations of industrial, commercial, or institutional buildings.

Fire hazards caused by destructive overvoltages.

- Significant economic losses, including repair costs, service interruptions, and equipment replacements.

2. Compliance with Standards and Requirements

According to Canadian and international standards (CSA C22.2, IEC 61643, UL 1449, NFPA 20), surge protection is strongly recommended—and in many cases mandatory—under the following conditions:

Buildings open to the public

Structures housing sensitive equipment

High-risk facilities (such as hospitals, emergency services, data centers, etc.)

- In addition, several building codes recommend the use of surge protection devices (SPDs) at the main service entrance and sometimes at intermediate distribution levels within the electrical system.





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33. Role of a Surge Protection Device (SPD)

A surge protection device is designed to:

- Divert surge energy safely to ground
- Limit the peak voltage transmitted to connected equipment
- Ensure service continuity in critical facilities (such as hospitals, data centers, factories, etc.)



4. Benefits for Engineers and Designers

Integrating surge protection devices (SPDs) at the design stage offers several strategic advantages:

Reduced service calls after installation due to damage from electrical surges

Improved overall reliability of the electrical system and connected equipment

Added value for your clients through increased durability of electronic and control systems

Simplified compliance with insurance requirements, building codes, and manufacturer recommendations

Active and dynamic protection: Our devices do more than just filter surges — they respond in real time to provide a critical window of reaction that allows the main breaker to safely disconnect in the event of a major surge.

This significantly reduces the risk of damage spreading throughout the system.

Our Solutions – Armada Surge Protection

Patented encapsulated MOV technology

Series designed for critical environments

Continuous monitoring

- Easy installation – wall-mounted or rack-mounted



277/480V - 347/600V



120/208V - 120/240V

