

What is a SP distribution box



Article Overview

An SP distribution box, or SPN distribution board, is a single-phase electrical panel that safely distributes power to multiple circuits while providing protection against overloads and faults.

Definition and Purpose

An SP distribution box, also called an SPN (Single Phase with Neutral) distribution board, is an enclosure that receives incoming electrical power from the main supply and distributes it to various branch circuits within a building . It is commonly used in residential and small commercial applications where a single-phase supply is sufficient . Its main purposes include:

- **Power Distribution:** Delivers electricity systematically to lighting, outlets, and appliances.
- **Protection:** Houses circuit breakers (MCBs), residual current devices (RCDs), and surge protection devices (SPDs) to prevent overloads, short circuits, and electrical shocks .
- **Isolation:** Allows individual circuits to be switched off for maintenance without affecting the entire system.

Components

A typical SP distribution box contains:

- **Busbars:** Conduct and distribute power to multiple outgoing circuits....

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