

Switches for main distribution box and sub-distribution boxes



Article Overview

Main distribution boxes (MDBs) distribute power from the main supply to sub-distribution boards (SDBs), which then supply specific areas, while switches control and protect individual circuits.

Main Distribution Box (MDB)

The Main Distribution Box is the central hub of an electrical system. It receives high-voltage, high-amperage power from the utility or main transformer and distributes it to sub-distribution boards and major electrical loads. Key components include main circuit breakers, busbars, outgoing feeders, and sometimes metering devices. MDBs are typically used in large commercial buildings, industrial plants, high-rise residential complexes, and power plants. They are designed to handle high fault currents and provide centralized control and protection for the entire facility .

Sub-Distribution Box (SDB)

A Sub-Distribution Box is a secondary panel that receives power from the MDB and distributes it to specific areas, floors, or departments. SDBs allow localized control and protection, making it easier to isolate and troubleshoot issues without affecting the entire system. They are smaller than MDBs and typically include miniature circuit breakers (MCBs), residual current devices (RCDs), and busbars. SDBs are commonly used in multi-story buildings, factories, hospitals, and shopping centers

Article Content

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Distribution Box Guide: Types, Components & Solutions

With devices like DB circuit breakers, variable frequency drives (VFD), and automatic transfer switches (ATS), these

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Clipsal Electrical Switchboard Enclosures.

RCD/MCB-ready electrical switchboard enclosures with generous space, versatile mounting, & material choices.

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metal switch boxes | Electric main switch box

Electric main switch box, also known as power control box, is a kind of distribution box. Distribution box is divided into power

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Explore Power Distribution Box Types and Functions

To put it bluntly, the distribution box is the control and distribution center of electricity. Distribution boxes vary in shape

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Difference between Distribution board main switch and mains

Distribution box (aka distribution board, breaker panel, electric panel, breakerboard) is the the enclosure where the

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What Is The Function Of Main Distribution Board?

Key functions include power distribution, safety and protection through circuit breakers, control and management of

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Power Distribution Box Essentials: Functions, Types

i) Main Distribution Box: This box is used in homes, industrial buildings, and commercial

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Distribution switchboards

Distribution switchboards, including the Main LV Switchboard (MLVS), are critical to the dependability of an electrical

Jul 14, 2026

Learn the difference between a distribution board and a switchboard

Electrical systems appear complex, making it difficult to understand what the difference is between the switchboard and distribution

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Distribution Box: Types and Functions | Axis-Electricals

A distribution box ensures that electrical supply is distributed in the building, also known as a distribution board, panel board, breaker

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Main Panel vs Sub Panel: Key Differences Explained

Understand the difference between main and sub panels, how they work together, and when to use each for safe and

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Understanding Distribution Boxes:A Comprehensive Guide

Understanding its significance, this article covers what a distribution box is, how it functions,

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Differences Between Distribution Boxes, Switchgear, Control Boxes,

This article provides an in-depth breakdown of the technical boundaries between distribution boxes, switchgear, control boxes, and

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Distribution Board vs Box: Which Do You Need?

A distribution board controls and protects multiple circuits, while a distribution box usually

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Ultimate Guide To Distribution Boxes Db Boxes Types

This ultimate guide explains what a distribution box does, its internal components, common types, real

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What Is a Distribution Box? Types, Uses & How to Choose

Distribution box What Is a Distribution Box Used For A distribution box is used to receive

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A Definitive Guide To Distribution Boxes

When there is a major upstream breaker, they are typically utilized as a distribution box. Line wires are attached to

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The Ultimate Guide to Distribution Box Types

They typically include a main switch, a series of circuit breakers (MCBs or RCBOs), and often a Residual

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Panelboards and Distribution Panels: What They Are and How They

Introduction Navigating the world of electrical distribution can be confusing, with terms like panelboard, switchboard,

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Electrical Distribution Boxes -ZHENGKAI

Distribution boxes (DB), also known as distribution boards, are essential for safely

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Distribution Box and Selection Guide: Internal Structure, Components ...

Below is a simplified internal structure diagram for a typical single-phase AC distribution box using an incoming main

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Main Switch Specifications for DB Design | PDF

The document discusses specifications for electrical distribution boards and main switches. It states that main switches come in

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Understanding Distribution Boxes: Your Guide to Power

Understanding distribution boxes: Your guide to power distribution. Learn about power

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What is the difference between a distribution box and a switch box ...

Protection Components: A distribution box usually contains protection components such as fuses, automatic switches

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10 Distribution Board Types Explained [July 2026]

Discover 10 types of distribution boards, from Main Distribution Boards to Fuse Boxes. Learn

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ABB | Sub distribution boards

Depending on your specific application, our range of sub distribution boards includes solutions with mounting plates and DIN-rails

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Distribution Boxes Types – The Complete Guide

Also, its main components are primary switches, fuses, and circuits. Meanwhile, they use RCDs, residential current

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Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

Contact Us

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