

What is an SDB distribution box



Summary of Content

An SDB (Sub-Distribution Board) is an electrical panel that receives power from a main distribution board and distributes it to downstream circuits, providing local control, protection, and organization for multiple electrical loads.

Definition and Purpose

A Sub-Distribution Board (SDB), also called a sub-board or secondary distribution board, is a low-voltage electrical panel that takes power from a Main Distribution Board (MDB) and distributes it to specific areas or circuits within a building, such as lighting, sockets, HVAC systems, or EV chargers . Unlike generic junction boxes, SDBs are engineered for organized, code-compliant installations, often including DIN rails for mounting miniature circuit breakers (MCBs) and reinforced panels for durability .

Key Components

Typical SDBs include:

- Miniature Circuit Breakers (MCBs) for overcurrent protection
- Residual Current Devices (RCDs) for earth fault protection
- Busbars and terminals for organized power distribution
- Enclosures with IP-rated protection for safety and dust/water resistance Some SDBs may also integrate surge protection devices (SPDs) or metering equipment depending on the application.

Applications

SDBs are widely used in:

Article Content

What is the function of a distribution board (DB)?

This box is called the distribution board (DB). It is one of the essential components of a home's electrical system. Also known as the

Understanding Power Distribution Hierarchy in Buildings

Power distribution hierarchy in building. detailed explanation of DB, SDB, MDB, RMU, and Switchgear

Distribution board

A distribution board (also known as a panelboard, circuit breaker panel or box, electric panel, fuse box or DB box) is a component of

10 Distribution Board Types Explained [July 2026]

A Sub Distribution Board (SDB) is connected to the MDB and controls power in a specific

Distribution Boxes Types – The Complete Guide

The power distribution boxes deliver electricity from the main electrical main to other circuits.

Distribution Box Guide: Types, Components & Solutions

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

What is a DB Box? Types, Wiring, Selection Guide

Learn everything about DB box (distribution box): what they are, how they work, wiring diagrams, types, and how to choose the right

Overview of DB and SDB in Electrical Systems

DB (Distribution Board) and SDB (Sub-Distribution Board) are critical components in electrical systems. They distribute electrical

Wiring of the Distribution Board From Energy Meter to the Consumer

Wiring of the Distribution Board (Single Phase Supply From Utility Pole & Energy Meter to the Consumer Unit While we have already

Distribution Board Types & SPD Protection: The Ultimate Guide for ...

Sub-Distribution Boards (SDB) handle intermediate protection for specific zones or floors, where Type 2 SPDs

Perfect SDB Box Connection for House Wiring ✂

In this video, I've shown the complete process of perfect SDB (Sub Distribution Board)

SDB-Sub Distribution Board

Applications -SDB series of enclosure are designed to adapt to all kinds of electrical switch gears & control gear assemblies.

SDB distribution box

Shock-resistant – in any position The SDB distribution boxes from OBO Bettermann are tough customers. OBO has only just added

WAZIPOINT Engineering Science & Technology: ELECTRICAL DISTRIBUTION ...

Sub Distribution Board (SDB): The Distribution Board which is supplied from the Main Distribution Board in a building

SDB Signal Distribution Box

The abbreviation SDB stands for Signal Distribution Box. It is commonly used in various contexts. Whether you're

Distribution Board Types & SPD Protection: The Ultimate Guide for ...

Explore distribution board types and features. Find the right one for your needs and see how SPD devices protect

SDB Box – Energypac Electronics Ltd.

The Energypac 12-Way SDB is a high-performance electrical distribution enclosure designed for safety, durability, and modern

Construction & Specification of SMDB, MDB, FDB LV

The prospective fault levels of the various factory built assemblies are indicated in the specific drawings for

Distribution Boards

Distribution boards, often referred to as electrical panels or breaker boxes, serve as the nerve center of any electrical system. Here

Sub-Distribution Board Design and Sizing Guide

Sub-distribution boards (SDBs) are low-voltage switchgear and controlgear assemblies that distribute power from a main distribution

Sub-Distribution Board Design & Standards | IEC 61439 — Power ...

Sub-Distribution Boards (SDBs) are essential components within electrical power distribution systems. They serve as secondary

SDB distribution box

Thanks to the use of high-quality special plastics, the new OBO SDB series can satisfy all the requirements for modern distribution

Distribution Boxes Types - The Complete Guide

Sub Distribution Board (SDB) These boxes are used in various places, such as residential

The Ultimate Guide to SDB Box for Modern Electrical Installations

SDB box refers to Switch Distribution Boxes equipped with DIN rails and robust structures, offering efficient, neat, and code

Sub-distribution board (SDB)

A sub-distribution board (SDB) is an electrical distribution panel that receives power from a main distribution point (such as a main

How to wire a DB - Distribution Board Wiring - Mechatrofice

Through the MCB phase lines are distributed to electrical wiring for lighting, fixed devices, and power distribution

Distribution board vs. distribution box: what's the difference?

Distribution board vs. distribution box: what's the difference? In the world of electrical systems and power distribution,

What is electrical SDB? | Electrical Systems - Sivo

Electrical SDB stands for Sub Distribution Board. It's a crucial component of an electrical distribution system within a

Distribution Boards (DB / SMDB / MDB) - Aralelectric

Distribution Boards (DB),The electrical wiring is carried out to distribute current from a single source of supply to various circuits,

Contact Us

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