Size of the secondary distribution box



Overview

The SDB can be fitted with terminal blocks for custom wiring. Custom circuitry and port configurations are available The Secondary Distribution Box (SDB) is provided in powder coated black finish.

Key Takeaways

Secondary distribution boxes typically range from 200–415 mm in length, 105–323 mm in width, and 75–140 mm in height, depending on the series and application.

Typical Dimensions

Secondary distribution boxes (SDBs) come in various sizes to accommodate different numbers of circuits and devices. For example, plastic modular distribution boxes often have dimensions such as: Length: 200–328 mmWidth: 172–174 mmHeight: 95–140 mm These sizes correspond to common series like MB-ABC, MB-AF, and MB-LF, which are designed for residential, commercial, and light industrial applications.

Factors Affecting Size Selection

Number of Circuits: Single-gang boxes are suitable for one device, double-gang for two, and multi-gang for multiple devices. Mounting Type: Surface-mounted boxes may require slightly larger dimensions for accessibility, while flush-mounted boxes are embedded into walls for a cleaner appearance. Material and Safety Standards: Boxes are often made of flame-resistant ABS plastic or powder-coated metal to meet safety standards.

Future Expansion: Choosing a slightly larger box can accommodate additional circuits or upgrades without overcrowding.

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Common Applications

Residential: Single-phase SDBs for home circuits, lighting, and small appliances. Commercial: Multi-phase boxes for offices, shops, or small industrial setups. Industrial: Larger three-phase boxes with higher capacity for machinery and heavy equipment.

Summary

While there is no single "standard" size, most secondary distribution boxes fall within the 200–415 mm length, 105–323 mm width, and 75–140 mm height range, with the exact size chosen based on the number of circuits, mounting type, and application requirements. Proper sizing ensures safety, compliance with electrical codes, and room for future expansion.

Article Content

Technical Requirements for Secondary Distribution Boxes

Thanks to the use of SF6 insulation, compact dimensions. The metal distribution box is designed for a wide range of low-voltage applications in residential buildings, commercial complexes, offi ces, and

Secondary Distribution Box

The SDB can be fitted with terminal blocks for custom wiring. Custom circuitry and port configurations are available The Secondary Distribution Box (SDB) is provided in powder coated black finish. The

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During wall construction, the reserved hole shall be about 20mm larger than the length and width of the distribution box. The reserved depth is the thickness of

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How to determine the size of distribution box

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Of course, the size of the electrical box is not finalized. Consider the actual installation, see the actual wiring diagram and consider how to arrange the

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