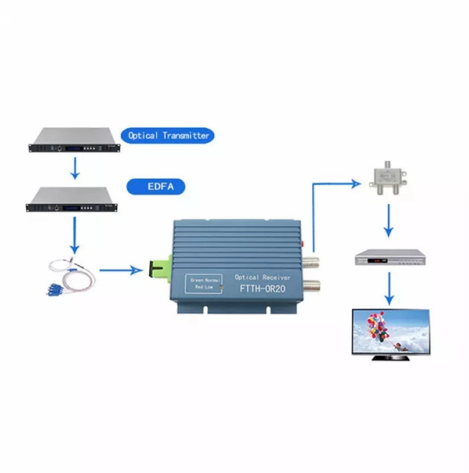
Meaning of Distribution Box Model Number



Overview

In a U.S.-style board, breaker positions are numbered left-to-right, along each row from top to bottom.

Key Takeaways

A distribution box model number identifies the specific type, configuration, and capacity of the box, including its rated current, number of circuits, and intended application.What a Model Number Represents

The model number of a distribution box serves as a unique identifier for the product and conveys key technical and functional information. It typically includes details such as:

• Rated current and short-circuit capacity: Indicates the maximum current the box and its protective devices can safely handle, helping ensure compatibility with the electrical load .

• Number of outgoing circuits (ways): Shows how many branch circuits the box can accommodate, including spare slots for future expansion .

• Type of protective devices: Specifies whether the box is designed for MCBs, RCDs, RCBOs, fuses, or other devices .

• Application or environment: Indicates whether the box is intended for residential, commercial, industrial, outdoor, or specialized uses like solar or machinery .

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• Compliance with standards: Reflects adherence to regional or international standards such as IEC 61439, IEC 60898, UL/NEC, or BS 7671, ensuring safety and regulatory compliance .

• Internal layout and features: May include information about busbar type, neutral and earth bar arrangement, DIN rail space, cable entry points, and heat dissipation design .
Practical Use of the Model Number

Manufacturers and electricians use the model number to:

• Select the correct box for a specific installation based on load, protection, and space requirements .

• Identify replacement or spare parts and ensure compatibility with existing systems .

• Access manuals, installation guides, and technical support efficiently, as the model number links to detailed product specifications .

• Verify safety and compliance with local electrical codes and standards . In essence, the model number is more than just a label—it is a concise summary of the box's electrical capacity, configuration, and intended use, allowing safe and efficient selection, installation, and maintenance of electrical distribution systems.

Article Content

Distribution Box Guide: Types, Components & Solutions

What is a Distribution Box? A distribution box, or DB box, is a circuit breaker enclosure. It is a vital part and central

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Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars,

How to Read and Interpret Your Distribution Box Labels

Understand your distribution box labels to identify circuits, improve safety, and troubleshoot electrical

Distribution Boxes Technical Data

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Distribution board

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Basic Composition Of Distribution Box System Diagram

The Distribution box system diagram mainly includes the following parts: Electrical parameter

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Distribution Box A distribution board (also known as panelboard, breaker panel, electric panel, DB board or DB box) is a component

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A distribution board controls and protects multiple circuits, while a distribution box usually houses local wiring or

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