Distribution Box Circuit Breaker Model and Specification Table



Overview

Distribution Box and Selection Guide: Internal Structure, Components. Learn how to choose a distribution box and understand its internal structure, inclu.

Key Takeaways

Distribution boxes use MCBs, RCBOs, RCCBs, and MCCBs with ratings and specifications selected based on load, protection requirements, and standards compliance. Common Circuit Breaker Types in Distribution BoxesMCB (Miniature Circuit Breaker): Protects against overcurrent and short circuits; typically rated 6–63 A for residential and commercial applications, compliant with IEC 60898. RCB/RCCB (Residual Current Circuit Breaker): Provides earth leakage protection; rated 25–63 A with sensitivity 30–300 mA.

RCB

O (Residual Current Breaker with Overcurrent): Combines MCB and RCCB functions; rated 6–63 A, 30 mA sensitivity.

MCC

B (Molded Case Circuit Breaker): Used for higher current and industrial applications; rated 100–1200 A, adjustable trip settings, compliant with IEC 60947.

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Example Specification Table

Model / TypeRated Current (A)Breaking Capacity (kA)PolesApplicationStandardsBahra MCB B161661PResidentialIEC 60898Bahra RCBO C32/303261P+NResidential/CommercialIEC 61009ABB Mini Center MCB10–636–101P/2P/3PResidential/CommercialIEC 60898ABB MCCB HCP-SU100–120025–503P/4PIndustrialIEC 60947Square D I-Line BD100–120025–651–3Commercial/IndustrialUL 489, CSAHager MCB6–6361P/2PResidentialIEC 60898Selection ConsiderationsLoad and Number of Circuits: Choose breakers based on actual load and future expansion. Protection Strategy: Decide between MCB, RCBO, RCCB, or MCCB depending on overcurrent and earth leakage requirements.

Enclosure Type: IP rating, material, and mounting method must match installation environment (indoor, outdoor, weatherproof),. Standards Compliance: Ensure breakers meet IEC, UL, CSA, or local codes. Busbar and Wiring Compatibility: Check DIN rail space, neutral and earth bar arrangement, and cable entry points.

Manufacturer Notes

Bahra: Offers MCBs, RCBOs, and MCCBs with optimized load centers for residential and commercial use.

AB

B: Mini Center Compact boards allow flexible incomers (MCB, MCCB, RCCB) with shrouded busbars for safety. Hager: Provides modular distribution boards with detailed catalogues for current ratings and breaker types.

Square D I-

Line: Panelboards support a wide range of breakers (BD, BG, BJ, etc.) for 400–1200 A systems, suitable for service entrance or branch distribution. This table and guidance provide a comprehensive overview for selecting distribution box circuit breakers based on application, current rating, protection type, and compliance standards.

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Article Content

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

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars, earth bars, RCDs, RCBOs, SPDs, enclosure ratings, and wiring layout.

DISTRIBUTION BOARDS CATALOG

BAHRA Circuit Breakers Enclosure are powered with the best selection of international proven quality of breakers by BAHRA to provide reliable circuit protection against overload and short circuits.

Distribution Boards & Consumer Units

Clear detailed description of each size and easy to select with the ordering codes. Box with four studs and adjustable nuts for easy fit / easy remove of pan assembly. Generous wiring space. Easy fit of

Distribution Board Data Sheet | PDF | Insulator (Electricity ...

This document provides specifications for distribution boards, including environmental conditions, manufacturer requirements, design characteristics, bus bars, circuit breakers, painting, labeling, and

Power Product Catalogue

A loadcentre is a metal enclosed distribution panel containing circuit breakers which distribute, protect and control lighting and power circuits in residential and light commercial applications, including

Distribution Boards

Easy Installation of outgoings The design of the pan assembly facilitates the installation of outgoing devices. Availability of mixing Mixing two different types of outgoing devices can be provided in

LOW-VOLTAGE POWER DISTRIBUTION ALPHA BSII 125 & 250A

The AFDD is specially designed to detect the specific characteristics of these arcing faults, and it reliably disconnects the affected circuit as soon as the limit values are exceeded.

Electrical Distribution Box Design Guide

The document provides details for designing the electrical distribution box and circuits for a residence. It includes specifications for the main circuit breaker such as size, type, and tripping capacity.

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PRL1X/2X/3X panelboard design guide

The PXR electronic trip units provide an enhanced and easy-to-use interface that enables end users and maintenance engineers to more easily change set points, test and configure circuit breakers, and

Square D QO and Homeline Load Centers and Enclosures Catalog

This catalog provides selection information for QO circuit breakers, load centers, and enclosures, as well as QO, QOM2 and Q-Frame enclosed circuit breakers, and Homeline circuit

IP65 ABS Distribution Protection Box,5 Way Waterproof Circuit Breaker ...

Reduce repetitive work from subtle points, improve work efficiency, and maintain daily safety inspections of power distribution motors □Applicable Places□5 Way electrical panel DIN distribution box

Molded Case Circuit Breakers

Schneider Electric India. Explore our range of products in MCCB- Molded Case Circuit Breakers and optimize your electrical distribution design, also gives

EYPINS Circuit Breaker,8 Way Exposed Distribution Box ...

About this item Robust and Durable: Made of flame-retardant material,high-quality ABS+PC material, EYPINS 8 Way Circuit Breaker Exposed distribution box with dustproof performance and good

Elprico 3 Way Distribution Protection Box IP65 Water Proof ...

Elprico 3 Way Distribution Protection Box IP65 Water Proof with Viewing Window and Guide Rails for Outdoor Circuit Breaker Applications

ABB molded case circuit breakers

The power distribution circuit breakers are available, with UL 489 and CSA C22.2 approval, in the fixed, plug-in or draw out, two-pole, three-pole and four-pole versions.

Distribution Boards

Mirage sub-main distribution boards have been designed for easy handling and quick, simple installation

ABB Consumer Units & Distribution Boards

For distribution boards, it covers Mini Center, Protecta, and accessories. Dimensions, technical specifications, and type codes are provided for each product to allow for ordering. The document

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Selection of a circuit-breaker

5 Examples of tables giving the derated/uprated current values according to temperature, for circuit-breakers with uncompensated thermal tripping units 6 Electronic trip units 7 Selection of an

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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