

Article Overview

KBOs are typically used in Main Distribution Boards (MDBs) and Sub Distribution Boards (SDBs) to provide overcurrent protection and safe power distribution.

Overview of KBO in Distribution Boxes

A KBO (commonly a type of molded case circuit breaker or MCCB) is used in distribution boxes to protect electrical circuits from overloads and short circuits. It is generally installed in Main Distribution Boards (MDBs), which serve as the central hub for distributing electricity to various sections of a building or facility, and in Sub Distribution Boards (SDBs), which redistribute power locally to specific areas such as floors, garages, or industrial sections .

Main Distribution Board (MDB)

- o Function: Acts as the primary distribution point for electrical power from the utility supply.
- o Components: Includes bus bars, MCCBs (or KBOs), fuses, and other protective devices.
- o Applications: Used in residential complexes, commercial buildings, and industrial units to manage high-capacity loads and ensure safety .
- o KBO Role: Provides main overcurrent protection and can disconnect power in emergencies.

Sub Distribution Board (SDB)

- o Function: Receives power from the MDB and distributes it to localized circuits.
- o Components: May include smaller MCCBs, MCBs, and KBOs depending on load requirements.
- o Applications: Ideal for specific areas like individual floors, workshops, or outdoor installations.
- o KBO Role: Protects branch circuits and ensures safe operation of downstream equipment .

Key Points

- o KBOs are essential for both main and subpanels to prevent electrical hazards.
- o They are integrated into industrial, commercial, and residential distribution boxes depending on the load and safety requirements.
- o Proper selection of a KBO depends on current rating, voltage, and the number of circuits in the distribution box . In summary, distribution boxes that use KBOs are primarily Main Distribution Boards (MDBs) and Sub Distribution Boards (SDBs), where they serve as critical protective devices to manage and safeguard electrical circuits efficiently.

What type of distribution box uses KBO

Compare types and uses of distribution boxes in the distribution box industry, covering residential, commercial, and industrial

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

This article covers the types, features, and advantages of power DB boxes, as well as their manufacturers

A Complete Guide to Distribution Boards Our distribution boards guide explains what they are, their uses and types,

Larger commercial, public, and industrial installations generally use three-phase supplies, with distribution boards which have twin

KBO extraction box are used above low emission cooking appliances located outside the cooking areas covered by ventilated

Learn about the many common types of wall and ceiling electrical boxes for switches, outlets, light fixtures, ceiling

Make sure to distribute the load evenly across the circuit and avoid using too many

A distribution box, also called an electrical distribution box, distributes incoming power to protected circuits. Learn its

Use the table below to quickly identify which distribution box type best matches your application: This type of

Discover everything you need to know about electrical distribution box! Learn about types,

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

Protection: Shields electrical components from environmental hazards. Material: Commonly made from metal or

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

A commonly used distribution box contains doorbells, earth leakage devices, timers, or contact breakers. However, the

The correct choice and installation of distribution boxes are crucial for electrical safety, efficiency, and

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reliability. This guide provides

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