

Distribution Box Enclosure Dimensions and Specifications Table

Article Overview

Distribution box enclosures vary in size, material, and protection rating, typically ranging from compact plastic units to robust metal cabinets with IP55-IP67 protection.

Dimensions

Distribution boxes come in a wide range of sizes depending on application and series:

- o Plastic enclosures (ABS): Length 200-328 mm, Width 172-174 mm, Height 95 mm for MB-ABC series; other series range up to 415 mm in length, 323 mm in width, and 140 mm in height .
- o Metal enclosures (GI sheet steel): Fabricated from 2 mm galvanized steel, with slanted roofs and overhangs of 50 mm; dimensions are illustrative with +-10% tolerance, allowing customization .
- o Industrial modular enclosures: Sizes can range from 65 x 65 mm up to 361 x 254 mm with multiple cover heights available .

Material and Construction

- o Plastic enclosures: Flame-resistant ABS, impulse-proof, excellent insulation, lightweight, and suitable for indoor applications .
- o Metal enclosures: Galvanized iron (GI) sheet steel, reinforced with channels, corrosion-resistant coatings, and suitable for outdoor use .
- o Durability: Industrial enclosures are designed to withstand harsh environments, vibration, and chemical exposure .

Protection Ratings

- o IP55: Common for outdoor metal distribution boxes, providing protection against dust and water jets .
- o IP67: Found in industrial automation boxes, offering dust-tight and immersion protection, suitable for harsh industrial environments .

Features and Specifications

- o Cable entry: Heavy-duty, double compression cable glands for incoming and outgoing cables; detachable plates for flexible installation .
- o Bus bars and MCCBs: Copper flat bus bars (25x4 mm) with insulation, provision for 4-pole and 3-pole MCCBs, and neutral unbalance protection .
- o Locking and security: Godrej-type 3-position locks, concealed hinges, and optional manual locking

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provisions .

- o Indicators and connectivity: LED indicators for power and function, pre-wired M8/M12 connectors, and support for multiple port configurations .
- o Standards compliance: Conforms to BS EN60439-3, JB/T7121-93, IS 13947, and other relevant electrical standards .

Installation and Customization

- o Mounting: Wall-mounted or floor-standing options with reinforced channels for secure installation .
- o Customization: Options for pre-wired configurations, labeling, phase-colored insulation, and cable lengths from 1 m to 10 m or more .
- o Environmental considerations: Slanted roofs for water runoff, UV-resistant coatings, and oil-resistant materials for industrial applications . Distribution box enclosures are therefore highly versatile, with dimensions, materials, and protection levels tailored to indoor, outdoor, and industrial applications, ensuring safety, durability, and compliance with electrical standards.

Explore the wide range of common electrical enclosure sizes, including small, medium, large, wall-mounted, and

At the same time, KDM machines and fabricates custom enclosure box sizes. You will tell us your specifications, and our technicians

Clear detailed description of each size and easy to select with the ordering codes. Box with four studs and adjustable nuts for easy fit

General Technical Particulars for LT Distribution Boxes : - The L.T. Distribution Boxes should be of the dimensions as per the

8-port ... NPN Wiring diagram shows both PNP and NPN wiring. Actual units use PNP status indicator, NPN status indicator, or

Complete guide to electrical box sizes and dimensions. Includes size charts, depth

ket of low voltage electric insulating switchboards and industrial boxes. No matter how harsh the environment is, there is always a

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

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Explore standard electrical enclosure box sizes, learn how IP ratings and materials affect design, and calculate the

Electrical enclosure sizes are not universal, but most manufacturers follow common size

NEMA Enclosure Types The purpose of this document is to provide general information on the definitions of NEMA Enclosure Types

A distribution board (also known as panelboard, circuit breaker panel, breaker panel, circuit breaker, electric panel, fuse box or DB

Where the new enclosures for automation are the most advanced to be found on the market today, ABB's automation apparatus is

-- General purpose enclosures of ABB are revolutionizing the market of low voltage electric insulating switchboards and industrial

Distribution is an essential function for the electrical panels, as well as for control and circuit protection. As well as purely technical

This report provides a comprehensive analysis of electrical distribution board (DB) box sizes,

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