Dimensions and Specifications of Horizontal Distribution Box



Overview

This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways.

Key Takeaways

Horizontal distribution boxes are designed with standardized dimensions, multiple ways, robust materials, and IP-rated protection for industrial and electrical applications.

General Dimensions

Horizontal distribution boxes vary depending on type and capacity. Typical dimensions for general-purpose enclosures range from 65 x 65 mm up to 361 x 254 mm, with multiple cover heights available. Specific models, such as TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP-PF, and TOP-S, offer 1-way to 36-way configurations, with length, width, and height specified for each variant.

Electrical Specifications

Busbars and Droppers: For L. T. distribution boxes (63/100/160/315 KVA), phase busbars are made of EC grade aluminum with cross-sections of 72x50x8 mm for 63/100 KVA and 120x50x15 mm for 160/315 KVA boxes. Feeders and incomer droppers match these dimensions.

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Isolators: Switch disconnectors conform to IS: 13411 standards, with arc-chutes to extinguish arcs immediately. Handles are designed for easy operation and minimum cable connection length. Cable Lengths: Standard pre-wired cable lengths are 1 m, 2 m, 3 m, 4 m, 5 m, and 10 m, with customization available for longer lengths.

Material and Protection

Enclosure Material: UL-compliant materials, glass-reinforced or heavy-duty industrial-grade plastics/metals. Protection Rating: IP67-rated for dust and water resistance, oil-resistant, and vibration-resistant for harsh industrial environments. Indicators: LED indicators for power and function are available in some models.

Mounting and Installation

Mounting Options: Horizontal distribution boxes can be wall-mounted or panel-mounted, with pre-drilled mounting holes and hinges for easy door operation. Connectivity: Supports M8, M12, or M16 connectors, with single or dual pre-wired ports (4, 6, or 8 ports) for efficient cable management.

Additional Features

Customization: Labels, coding, and pre-wiring with high-flex cables for moving applications are available. Environmental Resistance: Glow wire tested, chemical-resistant, and suitable for industrial automation, robotics, and processing facilities. These specifications ensure that horizontal distribution boxes provide reliable, safe, and flexible solutions for electrical distribution and industrial automation applications.

Article Content

Distribution box catalogue | PDF

This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways. It includes specifications for TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP

Distribution Boxes Technical Data

PDF file

Distribution Boards & Consumer Units - ABB

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This document provides specifications for various types of plastic distribution boxes, including their dimensions and features. It describes HA, HK, and LGD series boxes with dimensions ranging from

TECHNICAL SPECIFICATION FOR LT DISTRIBUTION BOX

General Technical Particulars for LT Distribution Boxes : - The L.T. Distribution Boxes should be of the dimensions as per the drawing & details in the table furnished. approved clearances and technical

Standard specifications for distribution boxes default

This document provides specifications for various types of plastic distribution boxes, including their dimensions and features. It describes HA, HK, and LGD series

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DRAFT SPECIFICATION FOR L. T. DISTRIBUTION BOX OF DISTRIBUTION TRANSFORMER (DTR) OF DIFFERENT RATINGS WITH INCOMING PORCELAIN REWIREABLE FUSE UNIT AND

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Master power distribution panels with our complete guide covering electrical distribution boards, 3 phase consumer units, panel sizing from 100A to 600 amp main distribution panels, and

DISTRIBUTION BOXES

DISTRIBUTION BOX INSTALLATION INSTRUCTIONS AND SPECIFICATIONS: Provide high-density polyethylene drop or distribution box with holes punched suitable to receive locking seals. The box

Electrical Control Panels & Distribution Boxes: Sizes,

Introduction Electrical control panels and distribution boxes are the backbone of modern electrical systems. From powering homes and industrial

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Distribution box flyer

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Distribution Box Specifications And Models

There are many specifications and models of Distribution box. The following are some common specifications and models of distribution boxes and

"Guidelines for Household Distribution Box Specifications and ...

For smaller boxes, wooden blocks can be pre-installed at the corners to facilitate mounting with wood screws. 2. **Concealed Installation**: - If the distribution box is to be embedded

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



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