

Standard Specifications for Distribution Box Dimensions



Overview

Distribution box catalogue | PDF This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of w.

Key Takeaways

Distribution boxes typically follow standardized dimensions based on type, number of ways, and protection requirements, with tolerances of $\pm 10\%$ for illustrative sizes. General Dimension Guidelines

Distribution boxes are designed according to their capacity, number of ways, and intended installation. Standard dimensions are usually provided in length, width, and height, with tolerances of about 10% over the specified dimensions to allow for manufacturing variations and installation flexibility . Boxes are fabricated from 2 mm GI sheet steel for durability, with reinforced channels for structural stability .

Typical Types and Dimensions

- TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP-PF, TOP-S: These distribution boxes range from 1-way to 36-ways, with dimensions varying according to the number of ways and internal components .



- LT Distribution Boxes (LTDBs): Designed for low-tension supply, these boxes include one busbar arrangement with 4-pole MCCB and outgoing feeder arrangements. Dimensions are illustrative, with internal spacing to accommodate busbars, MCCBs, and cable glands .

Construction and Mounting

- Outdoor boxes: Slightly slanted roofs with a 50 mm overhang to prevent water ingress .

- Locking and security: Godrej-type 3-position locking system or equivalent, with galvanized provisions for manual locks .

- Earthing: Two solid earthing points on either side .

- Protection rating: Typically IP-55, ensuring dust and water resistance .

- Internal clearances: Adequate spacing between busbars and MCCBs, with metallic or heat-resistant insulating barriers to prevent heat transfer during faults .

Busbar and Cable Specifications

- Busbars: Copper or aluminum flats, e.g., 25x4 mm copper for LTDBs, with color-coded insulation for phases .

- Cable glands: Heavy-duty, double compression type, provided for both incoming and outgoing cables .

- Mounting: Boxes are reinforced with channels and provisions for secure wall or pole mounting .

Tolerances and Customization

- Dimensional tolerances: $\pm 10\%$ over the specified dimensions .

- Custom dimensions: Manufacturers may specify their own dimensions based on project requirements, provided they meet internal clearance and protection standards . These specifications ensure that distribution boxes are robust, safe, and compatible with standard electrical components, while allowing flexibility for different installation environments and capacities.

Article Content

Distribution Boxes Technical Data

Summary of Changes
Four-pin, One Signal per Port Cable Connector Distribution Box
Cable Connector Wiring
Cable Connector Four-pin, One Signal per Port Cable with Terminal Block Connector Distribution Box
Mechanical Product Selection
Cable Mechanical (1.3) Additional Resources
Rockwell Automation Support
This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes. See more on literature.rockwellautomation teczhar

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

Distribution Boxes Technical Data

DC Micro Style Distribution Boxes
Four-pin, One Signal per Port Cable Connector
Distribution Box
Eight-port DC Micro Distribution

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

