

Malawi Level 3 Distribution Box Dimensions



Overview

Distribution box catalogue | PDF Dimensions included are length, width, and height. - Download as a PDF or view online for free. Malawi Bureau of Standards.

Key Takeaways

Malawi Level 3 Distribution Boxes are typically outdoor LT cabinets fabricated from 2 mm GI sheet steel, with IP-55 protection, reinforced structure, and configurable busbar and MCCB arrangements.

Level 3 distribution boxes in Malawi are generally outdoor-type cabinets made from 2 mm galvanized iron (GI) sheet steel with reinforced channels for structural stability . The roof is slightly slanting with a 50 mm overhang to prevent water ingress. Doors are equipped with Godrej-type 3-position locking systems, and hinges are concealed to enhance security. The boxes include solid earthing points on either side and are designed to withstand environmental exposure while maintaining IP-55 protection .

Dimensions

The exact dimensions may vary depending on the manufacturer and capacity, but typical illustrative dimensions for LT distribution boxes are provided with a tolerance of $\pm 10\%$. Standard boxes accommodate 1-way to 36-way configurations, with length, width, and height specified according to the number of outgoing feeders and MCCB arrangements . Internal space is sufficient to allow busbar placement, cable entry, and clearance for heat dissipation.

Electrical Specifications

- Busbars: EC grade aluminum or copper flat strips, typically 25x4 mm for phase connections, with heat-shrinkable or color-coded insulation (Red, Yellow, Blue, Black) between phases .
- MCCBs: One 4-pole MCCB for incoming supply and 1 outgoing feeder arrangement with 2 sets of 3-pole MCCBs. MCCBs conform to IS:13947 standards with magnetic trip release and manual resetting .
- Isolators: Switch disconnectors with 80 kA breaking capacity, arc-chutes with minimum 12 strips, and handles of minimum 3 cm length on cable connection side .
- Cable Entry: Heavy-duty, double-compression brass cable glands for incoming and outgoing cables, with detachable plates for fixing .

Additional Features

- Phase sequence: RYB maintained throughout the box.
- Porcelain cutouts: Provided in higher capacity boxes (160 KVA / 315 KVA) for outgoing circuit protection .
- Identification: Non-detachable nameplates and punch marks for purchaser identification.
- Lighting provision: Some boxes include internal lighting for maintenance . These specifications ensure that Malawi Level 3 distribution boxes meet safety, operational, and durability standards suitable for low-tension (LT) distribution networks. Manufacturers may provide detailed drawings and exact dimensions based on the number of ways and KVA rating required.

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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

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GSDB-4030 400x300x190 3 Phase Service Connection Distribution Box/ ABC Distribution Box 11.

TECHNICAL SPECIFICATION I.R.O. 63,100,160 & 315 KVA

3. SYSTEM DETAILS: Distribution Boxes are meant for control and protection of Distribution Transformers with relevant parameters

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