

Specifications and dimensions of empty Level 2 distribution box

Article Overview

A typical empty Level 2 distribution box is made of high-strength steel, offers IP30 protection, IK08 impact resistance, and comes in various dimensions depending on the number of ways and mounting requirements.

Material and Construction

Level 2 distribution boxes are generally constructed from high-strength Q195 cold-rolled steel, providing excellent rigidity and resistance to deformation under load or during cable overheating . The boxes feature full metal construction with anti-corrosion treatment and reinforced inner folding and crimping technology for enhanced durability and safety . Some models, like the OPOLE empty distribution box, have an impact resistance rating of IK08, corresponding to 5J of impact energy, and are tested for operation at temperatures as low as -25°C .

Protection and Safety

- o Protection Class: IP30, suitable for indoor installations .
- o Impact Resistance: IK08, ensuring durability against mechanical impacts .
- o Safety Compliance: Designed according to IEC 60439-3 standards for low-voltage switchgear and controlgear assemblies .

Dimensions

The dimensions of Level 2 distribution boxes vary depending on the number of ways (1-way to 36-ways) and model type. Typical specifications include :

- o Length: Ranges from approximately 300 mm to 1200 mm depending on the number of ways.
- o Width: Usually between 200 mm and 400 mm.
- o Height: Typically 150 mm to 400 mm. These dimensions allow for flexible installation in residential, commercial, or industrial settings while accommodating standard circuit breakers and busbar arrangements.

Mounting and Installation

- o Indoor Use: Designed for indoor power distribution applications.
- o Mounting Options: Can be wall-mounted or installed in electrical rooms with proper clearance.
- o Fastening: Equipped with hinges and locking mechanisms; doors often overlap the base by 10 mm with rubber gaskets to prevent dust and water ingress .
- o Cable Management: Internal layout supports organized routing of incoming and outgoing cables, with

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provisions for busbars and droppers as per electrical load requirements .

Additional Features

- o Anti-Corrosion Treatment: Ensures long-term durability and resistance to environmental factors .
- o Impact and Temperature Testing: Ensures safe operation under mechanical stress and low temperatures .
- o Compliance and Safety: Only qualified personnel should handle installation and maintenance, following national safety regulations and manufacturer guidelines . These specifications make Level 2 distribution boxes suitable for reliable circuit management, protection, and long-term operational safety in low-voltage electrical systems.

For temperature rise test, a distribution box with all assembly of Isolator / Porcelain cutouts shall be kept in an enclosure such that

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Distribution Box Distribution Box A distribution box is an essential component in electrical systems, serving

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Technical Specification for Distribution Box (DB)- Accessory for LT AB Cables 1. SCOPE 1.1 This Distribution Box (DB) should be

Metal Distribution Box Features Continuously welded seams Foam-in-place seamless gasket 120-degree opening heavy-duty

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

Specification DDS-2 Revision 14, February 2023 ONCOR ELECTRIC DELIVERY COMPANY
SPECIFICATIONS FOR ELECTRICAL

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