

Specifications of Nigerian Level 3 Distribution Box



Overview

Carry out inspection, testing and certification of all categories of electrical installation in the Nigerian electricity supply industry and other allied industries/workplaces.

Key Takeaways

A Nigerian Level 3 Distribution Box typically supports three-phase power, multiple ways, and is designed for safe, reliable indoor or outdoor electrical distribution.

General Features

Level 3 distribution boxes in Nigeria are designed to manage and protect three-phase electrical systems efficiently. They are constructed from steel sheets with thicknesses of 1 to 1.5 mm, powder-coated with electrostatic epoxy polyester for durability and corrosion resistance, and comply with IEC 61439-1 & 3 standards for load centers.

Electrical Specifications

Voltage Rating: 110–415 V AC (50/60 Hz) Number of Phases: 3 (three-phase) Busbar Rating: 100–250 A full load capacity Rated Insulation Voltage (Ui): 690 V Ambient Temperature: Up to 50°C Ingress Protection (IP): IP40 for indoor applications, with weatherproof options available for outdoor use.



Configuration and Capacity

Number of Ways: Options typically include 6, 9, 12, 18, 24, 30, 36, 42, 48 ways, allowing flexible circuit distribution. Main Incoming Breaker: MCCB type, with terminal capacities of 50 mm² for 100 A and 120 mm² for 250 A. Branch Breakers: 1, 2, or 3 pole plug-in type.

Neutral Terminal Capacity: Incoming cable lug up to 95 mm²; outgoing terminals up to 25 mm². Earth Terminal Capacity: Incoming cable lug up to 50 mm²; outgoing terminals up to 25 mm².

Design and Safety Features

Mounting Type: Flush or surface-mounted depending on installation requirements. Cable Management: Removable gland plates and ample knockout features for easy cable routing. Busbar Protection: Fully shrouded busbars with phase barriers to prevent accidental contact.

Durability: Powder-coated finish with 70–90 microns thickness for corrosion resistance. Ease of Installation: Optimized size and design for quick installation and maintenance.

Compliance and Standards

Level 3 distribution boxes in Nigeria are designed to meet Nigerian Electricity Supply and Installation Standards Regulations 2015, ensuring proper civil design, equipment layout, and electrical safety. They are suitable for residential, commercial, and light industrial applications, providing reliable protection against overloads and short circuits. These specifications make Level 3 distribution boxes a robust solution for managing medium-capacity electrical distribution in Nigerian installations, ensuring safety, efficiency, and compliance with national and international standards.

Article Content

Technical Standard | Nigerian Electricity Management Services Agency

Carry out inspection, testing and certification of all categories of electrical installation in the Nigerian electricity supply industry and other allied industries/workplaces.

NESIS Regulations for Nigeria's Electricity Standards | PDF | Electric ...

NESIS Regulations for Nigeria's Electricity Standards. This document outlines regulations for electricity supply and installation standards in Nigeria. It covers standards for substation design, equipment,

Distribution Box

The distribution board has the function of delay and instantaneous overload protection. The distribution box is made out of high quality galvanized steel sheet of up to 0.6-1.2mm thickness.

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.

TECHNICAL SPECIFICATIONS FOR DISTRIBUTION BOXES AND

Following a uniform color code makes it easier to assess electrical wiring and ensure safety among licensed professionals and homeowners alike. This document provides specifications for various

Distribution Boards

The ABB range of sheet steel distribution boards are designed for safety, reliability and availability in the electrical building installation. All distribution boards are rated to relevant regulatory permits and

L.T. Distribution Box Specification | PDF | Fuse (Electrical)

Technical Specification of L.T Distribution Kiosk.pdf - Free download as PDF File (.pdf), Text File (.txt) or read online for free. The document provides specifications for low voltage distribution boxes used

D4 Distribution Boards AB T 3phase

A distribution board (also known as electric panel) is a component of an electricity supply system that divides an electrical power feed into subsidiary circuits, while providing a protective fuse or circuit

The Distribution Code – Power Library

The Distribution Code / Regulatory Documents / Codes, Standards and Manuals / Regulatory Documents / The Distribution Code May 16, 2023 admin Codes, Standards and Manuals

THE DISTRIBUTION CODE FOR THE NIGERIA ELECTRICITY DISTRIBUTION

Distribution Operation Code: containing the day-to-day operating procedures and principles governing the development, operation and maintenance of an effective, well co-ordinated and functional

Microsoft Word

1.3 Periodic testing of an electrical installation In many countries, all industrial and commercial-building installations, together with installations in buildings used for public gatherings, must be re-tested

Nigerian Electricity Supply and Installation Standards Regulations 2015

These Regulations include areas on design, construction, and commissioning of the power system in Nigeria through the value chain of electricity generation, transmission, distribution and utilisation not

Distribution Requirements | Nigerian Electricity Management Services

Download Complete Specification BASIC REQUIREMENTS FOR DISTRIBUTION METERS ... METER TYPES: 3PH 4W CT OPERATED STATIC ENERGY METER 3PHASE 4WIRE 10 (100) AMPS

Distribution | | Products | Legrand Nigeria

Distribution Distribution is an essential function for the electrical panels, as well as for control and circuit protection. As well as purely technical factors (intensity, number of outputs, etc.), the choice of a

Audio & Video Distribution in Nigeria

Browse 44 Audio & Video Distribution in Nigeria. Compare prices, check specs and order online with fast delivery. Cash on delivery Easy returns | Jumia Nigeria

NESIS Regulations for Nigeria's Electricity Standards | PDF | Electric ...

This document outlines regulations for electricity supply and installation standards in Nigeria. It covers standards for substation design, equipment, transmission lines, and civil works. The regulations are

Abb Distribution Boards in Nigeria for sale Prices -Me3 Energy

ABB distribution boards are specifically designed for outdoor installations and they come as pre-assembled systems, ready to install. They combine the advantages of the flexible IP-system with

REGULATORY GUIDE

OVERVIEW The Nigerian Electricity Supply and Installation Standards Regulation (the Regulations) was promulgated in 2014 as a compendium of standards for the design, construction, and commissioning

Contact Us

Continue your research online:

Website: <https://ensaa.es>

Technical inquiry: <https://ensaa.es/contact.html>

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

