

Article Overview

The XL-21 distribution box is a low-voltage, modular power distribution cabinet designed for industrial, commercial, and residential applications, with rated voltages up to 660V and currents up to 800A.

General Overview

The XL-21 series is a versatile low-voltage power distribution box used for power distribution, conversion, transmission, and control in low-voltage systems. It is widely applied in power plants, substations, industrial enterprises, commercial buildings, and high-rise structures. The series supports three-phase three-wire, four-wire, and five-wire configurations and is suitable for both power and lighting distribution systems .

Electrical Ratings

- o Rated Voltage: 400V or 660V AC, 50Hz
- o Rated Current: 630A to 800A depending on model
- o Protection Level: IP54 for dust and water splash protection
- o Short-Circuit Testing: Passed internal short-circuit tests ensuring safety and reliability
- o Compliance: IEC60439-1:1992, GB7251.1-2013, GB7251.12-2013, GB7251.3-2006

Construction and Materials

- o Cabinet Frame: 8FM open-profile or C-profile steel sections
- o Panel Surface: Cold-rolled steel with electrostatic spray or epoxy resin coating
- o Door Design: Beveled doors with patented latches for pressure release and safety
- o Hinges: Precision-cast adjustable hinges allowing doors to open beyond 135°
- o Dimensions: Width 400-1000mm, Height 1600-2200mm, Depth 400-800mm
- o Mounting: Floor-standing or wall-mounted, with top and bottom entry/exit options for cables

Features and Modularity

- o Internal Components: Supports circuit breakers, contactors, relays, measurement instruments, and rotary load isolation switches
- o Motor Control: Can control squirrel-cage and wound-type motors in low-voltage systems
- o Auxiliary Circuits: Supports local/remote control with automatic switching between modes
- o Modular Design: Allows flexible combinations and easy integration into larger systems
- o Maintenance: Top and bottom doors for easy access; wiring channels designed for convenience

Environmental and Safety Considerations



Specifications of the XL distribution box

- o Operating Temperature: -5°C to +45°C
- o Ingress Protection: Sealed joints and gaskets prevent dust and moisture ingress
- o Applications: Suitable for factories, construction sites, marine installations, hospitals, data centers, and residential complexes
- o Safety Features: Overload, short-circuit, under-voltage, phase-failure, and optional earth leakage protection

Summary

The XL-21 distribution box is a robust, standardized, and modular solution for low-voltage power distribution. Its combination of high-quality materials, safety features, modularity, and compliance with international standards makes it suitable for a wide range of industrial, commercial, and residential applications. When selecting an XL-21 box, it is important to verify the IP rating, NEMA classification, and current/voltage requirements to ensure compatibility with the intended environment .

Designed for AC frequency of 50Hz, this electrical distribution switchgear operates at rated voltages of 400V or 660V with a rated

Compact design with multifunctional protection, suitable for 400V/630A power distribution systems for

The Fullerto XL-21 series is an indoor, floor-standing power distribution cabinet

Our distribution boxes are perfect for industrial environments, catering to automation, robotics, and processing facilities. They provide

Product introduction XL-21 low-voltage power distribution cabinet is suitable for power distribution of three-phase four-wire or three

XL-21 Low Voltage Power Distribution Panel supports 630A current, certified to IEC60439 & GB standards. Ideal for industrial power

In flammable and explosive environments, explosion-proof distribution boxes should be selected and explosion-proof

The XL-21 power distribution box is widely used in power plants and industrial enterprises. It is suitable for three-phase power or

The Power of Eaton Eaton's power distribution systems are designed to be as compact and energy efficient as possible while easy

Specifications of the XL distribution box

Discover efficient xl distribution box solutions designed for optimal power distribution. Enhance your operations with reliable, durable

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

Summary The XL-21 low voltage power distribution cabinet (box) is applicable to the

Discover the essentials of the XL-21 Low-Voltage Power Distribution Cabinet in our comprehensive guide. Explore

Retrofitting Distribution Boxes E-Abel's broad range of multitasking distribution boxes offer a variety of sizes, cutouts and optional

Flush-mounting distribution boards 1: For XL3-N 250 distribution boards only

XL distribution box XL series power distribution box is designed by our company combined with different control equipment.

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