

Portuguese Distribution Box XM Type Configuration



Overview

XM series distribution box equipment XM distribution box The XM(W) distribution box is suitable for single-phase, three-wire, or three-phase five-wire term.

Key Takeaways

The XM series distribution box is a versatile low-voltage distribution solution suitable for single-phase and three-phase systems, offering modular configurations, overload and short-circuit protection, and flexible installation options.

The XM type distribution box is designed for safe and reliable power distribution in residential, commercial, and industrial environments. It supports single-phase two-wire, single-phase three-wire, three-phase four-wire, and three-phase five-wire systems with rated voltages of 230V or 400V and currents up to 400A . The box provides overload protection, short-circuit protection, leakage current protection, and circuit switching functionality, making it suitable for areas accessible to non-professionals .

Construction and Materials

- Enclosure: Made of high-quality cold-rolled or electrolytic steel with epoxy resin electrostatic coating for corrosion resistance and durability .
- Structure: Detachable three-part design consisting of base, mounting bracket, and cover, allowing easy maintenance and installation .

- Terminals: Equipped with neutral (N) and grounding (PE) terminal blocks. Knock-out holes on the top and bottom accommodate incoming cables up to 16 mm² .

Modular Configuration

- Miniature Circuit Breakers (MCBs): XM1~2 series can be fitted with various MCBs and 86-type sockets, each with a modular pitch of 18mm, forming complete distribution units .
- Transparent Cover Option: XM5 series features a transparent cover with an exposed switch handle for easy monitoring of circuit breaker status .
- Flexible Design: Can be configured as lighting distribution boxes, power control boxes, metering boxes, air conditioning control boxes, water pump control boxes, or fire control boxes depending on project requirements .

Installation Methods

- Surface-mounted or concealed-mounted options are available, allowing adaptation to different building structures .
- The guide rail and switch can be adjusted horizontally and vertically to accommodate uneven wall surfaces during concealed installation .

Applications

The XM distribution box is widely used in:

- Residential buildings, high-grade apartments, and office buildings
- Hotels, hospitals, warehouses, ports, railway stations, and airports
- Industrial and mining enterprises It is suitable for indoor lighting and small power control circuits, ensuring safe and reliable electricity supply for both professional and non-professional users .

Environmental and Operational Requirements

- Ambient temperature: -5°C to +40°C
- Humidity: Up to 50% at +40°C; higher humidity acceptable at lower temperatures
- Altitude: Up to 2000 meters above sea level
- Pollution grade: Third grade
- Standards compliance: IEC60349-1, GB7251.1-2005, GB7251.3-2006 This configuration ensures that the XM distribution box is robust, flexible, and suitable for a wide range of low-voltage electrical distribution applications in Portugal or similar environments.

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

