

Article Overview

An XL distribution box with seven circuits is a modular electrical cabinet designed for medium to high-power distribution, offering protection, control, and flexible installation for industrial or commercial applications.

Overview

XL distribution boxes, such as the XL-21 series, are professional electrical cabinets used for centralized power distribution and control in industrial environments . They are designed to accommodate multiple circuits, including seven-circuit configurations, and integrate components like main circuit breakers, contactors, thermal relays, and protection devices . These cabinets comply with international standards such as IEC 60439-1 and GB 7251.1, ensuring safety, reliability, and compatibility with industrial power systems .

Key Features

- o **Rated Current and Voltage:** Typically support three-phase 380V systems with rated currents ranging from 250A to 1600A, suitable for medium and large-scale power distribution .
- o **Protection:** Provide overload, short-circuit, and phase-failure protection for connected circuits .
- o **Construction:** Made of metal enclosures with strong load-bearing capacity, excellent sealing, and modular design for easy maintenance and component installation .
- o **Modularity:** Supports pluggable installation and flexible configuration, allowing easy addition or replacement of circuit breakers and other components .
- o **Safety Features:** Includes insulated earth options, terminal shields, and safety interlocks to prevent accidental contact and ensure operational safety .
- o **Environmental Suitability:** Some XL cabinets are explosion-proof for hazardous environments, using flame-retardant materials and IP66 protection .

Applications

- o **Industrial Facilities:** Factories, workshops, logistics parks, and chemical plants .
- o **Commercial Buildings:** Medium to large commercial installations requiring centralized power management .
- o **Smart Building Integration:** Can be used in decentralized electrical installations for energy, signal, and data distribution .

Installation and Maintenance

XL distribution boxes are designed for easy assembly and maintenance. Features include detachable doors, reversible panels, pre-cut knockouts for cable entry, and modular fixing kits . The cabinets allow for quick installation of main circuit breakers and provide sufficient space for wiring and labeling, making them suitable

Distribution box with seven circuits XL

for both new installations and retrofits .

Summary

A seven-circuit XL distribution box is a robust, modular, and flexible solution for managing multiple electrical circuits safely and efficiently. It combines high-capacity power distribution, protection, and ease of maintenance, making it ideal for industrial, commercial, and smart building applications .

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XL-21 power distribution cabinet Cabinet front door installed ammeter,voltmeter and the signal lamp,

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