Level 3 220 Distribution Box

Overview

Three Phase AC 220V 380V Power Distribution Cabinet XL21 XL-21X LV closed type power panel can be used in AC 500V or lower system of three-phase three-wire.

Key Takeaways

A Level 3 Distribution Box 220 is a tertiary electrical distribution unit that delivers 220V mains electricity to end-user circuits, typically featuring single-phase or three-phase configurations with built-in safety protections.

Overview

A Level 3 distribution box, also known as a tertiary or final distribution box, is the last stage in a three-level power distribution system. It receives power from a secondary distribution box and supplies electricity directly to households, offices, or small industrial units at 220V. Unlike first-level (primary) or second-level (secondary) distribution cabinets, Level 3 boxes are designed for direct use with electrical equipment and appliances.

Key Features

Voltage and Phases: Typically provides 220V single-phase for residential use, but three-phase 220V versions are available for industrial or commercial applications.
Circuit Protection: Equipped with single-phase or three-phase circuit breakers, overload protection, and sometimes leakage protection to ensure safety.
Construction: Can be flush-mounted or surface-mounted, often with a plastic or metal enclosure.

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Many models are weatherproof for outdoor use. Compact and Versatile: Designed for easy installation and management of multiple circuits, making it suitable for homes, offices, factories, and temporary setups like construction sites or events.

Applications

Residential: Distributes power to individual apartments or houses, controlling lighting, outlets, and small appliances. Commercial and Industrial: Powers machinery, lighting, and equipment in offices, factories, or workshops. Three-phase versions provide stable and balanced power for high-demand equipment.

Construction Sites and Temporary Installations: Often used as part of a three-level protection system, ensuring safe and reliable electricity distribution with features like “one machine, one switch, one protection”.

Safety and Maintenance

Level 3 distribution boxes are designed with overcurrent and leakage protection, ensuring that each circuit is independently safeguarded. Proper planning and installation prevent overloads, voltage drops, and hazards, while modular designs allow easy maintenance and expansion.

Summary

A Level 3 Distribution Box 220 is essential for safely delivering mains electricity to end users. Its combination of compact design, circuit protection, and versatility makes it suitable for residential, commercial, and industrial applications, ensuring reliable and efficient power distribution.

Article Content

Three Phase AC 220V 380V Power Distribution Cabinet XL21

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power supply box distribution 220v/380v main

1. Utilities: Electrical distribution boxes are used in the utility industry to distribute power to homes and businesses. 2. Industrial Automation: Electrical distribution

ABB I Sub distribution boards

Starting from compact boards for energy distribution applications up to floor standing energy supplying switchboards for huge sites of manufacturers or office buildings ABB offers a wide range of wall- and

Power Distribution Box Electrical Box 2 Core 220-250V

About this item [Industrial Grade Socket Box] Equipped with 4pcs two core sockets (220 to 250V 16A) and 2pcs five core sockets (380 to 415V 16A, 32A), meeting

Size determination, installation method and wiring mode of distribution ...

The distribution box is the central hub of the home circuit and the general control of our daily power consumption. It is an indispensable electrical equipment. If there are some potential safety hazards,

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