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Type I Power Distribution Box Model



Overview

Distribution Box and Selection Guide: Internal Structure, Components. Below is a simplified internal structure diagram for a typical single-phase AC dist.

Key Takeaways

Type I Power Distribution Boxes include single-phase and three-phase models, surface-mounted, flush-mounted, and specialized industrial variants, with representative models from major manufacturers like CHINT and Legrand.Overview of Type I Distribution Boxes

Type I Power Distribution Boxes are designed for general-purpose power distribution in residential, commercial, and light industrial applications. They typically house circuit breakers, fuses, bus bars, and protective devices to ensure safe and reliable power distribution . These boxes are often surface-mounted or flush-mounted, with options for single-phase or three-phase systems .

Common Configurations
• Single-Phase Type I Boxes: Suitable for residential or small commercial loads, typically rated for 63A to 125A.

• Three-Phase Type I Boxes: Designed for industrial or large commercial facilities, supporting higher currents (up to 250A or more).

• Lighting Distribution Boxes: Dedicated to lighting circuits with integrated protection.

• Power Distribution Boxes: Support sockets, equipment, and machinery.

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• Control Distribution Boxes: Include relays, contactors, and timers for automation purposes .
Mounting Styles
• Surface-Mounted: Installed directly on walls, ideal for retrofits and industrial environments.

• Flush-Mounted: Embedded into walls for a clean appearance, common in residential and commercial buildings.

• Pole-Mounted: Designed for outdoor applications such as street lighting or utility distribution .
Representative Models by ManufacturerCHINT

CHINT offers Final Distribution Boxes suitable for Type I applications, including:

• Single-Phase Final Distribution Box: Compact, residential use, with MCB and RCCB protection.

• Three-Phase Final Distribution Box: Industrial and commercial use, modular design for easy upgrades.

• Smart Distribution Boxes: Include energy monitoring and remote control modules .
Legrand

Legrand provides Type I solutions under multiple series:

• Standard Distribution: Basic protection and control for residential and commercial use.

• Optimized Distribution: Enhanced safety and modularity for industrial applications.

• Increased Safety Distribution: High-reliability panels with advanced protection, suitable for critical installations .
Other Manufacturers
• NUOMAK: Offers single-phase, three-phase, lighting, power, and control distribution boxes with certified internal components .

• GEYA: Provides smart DB boxes with surge protection, isolators, and bus bars for Type I applications .
Key Features Across Type I Models
• Circuit Protection: MCBs, RCCBs, fuses, and surge protective devices.

• Safety Components: Grounding bus bars, neutral links, and isolators.

• Enclosures: Thermoplastics (PC, ASA) or powder-coated metal for durability.

• Modularity: Many Type I boxes allow expansion or integration with smart monitoring systems .
Conclusion

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While a fully exhaustive list of Type I Power Distribution Box models varies by manufacturer and region, the main categories include single-phase, three-phase, lighting, power, and control boxes, with mounting options such as surface, flush, or pole-mounted. Representative models are available from CHINT, Legrand, NUOMAK, and GEYA, each offering variations in current rating, protection features, and smart capabilities . For a complete, manufacturer-specific catalog, consulting the official product brochures or websites is recommended.

Article Content

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