

Elevator electrical distribution box



Overview

Elevator Power Supply Box (Distribution Panel) Series An OEM-configurable power supply box, pre-assembled to your machine-room layout. Simplex (single-row).

Key Takeaways

An elevator electrical distribution box supplies and manages power for all elevator components, ensuring safe and reliable operation. Function and Purpose

An elevator distribution box is a critical component in elevator systems, responsible for distributing electrical power to the elevator engine, control board, cabin equipment, and machine room devices. It ensures that all parts receive the correct voltage and current, protecting the system from overloads and electrical faults. Proper functioning of this box is essential for the safe operation of elevators, as power interruptions or poor distribution can halt elevator service.

Components

Typical elevator distribution boxes include:

- Power supply and control modules to manage incoming electricity.
- Switch devices, measuring instruments, protective electrical appliances, and auxiliary devices assembled in a metal cabinet.
- Busbars and terminals for neutral, earth, and phase connections, especially in three-phase systems.

- Cooling and dustproof mechanisms, such as air inlets, fans, and dust filters, to maintain heat dissipation and prevent dust accumulation .

Types

- Single-phase elevator boxes: Usually for home or low-capacity elevators, providing 220V power with a simpler wiring setup .
- Three-phase elevator boxes: Common in commercial or high-capacity elevators, supplying power to all elevator components with enhanced safety and efficiency . These boxes include three-phase terminals and are installed at a height of 120–140 cm in the machine room, secured with bolts and rawlplugs .

Installation Considerations

- Must be installed near the machine room or elevator control panel for easy access .
- Requires proper electrical wiring and initial elevator launch before installation .
- Cooling and dustproof features are important to maintain performance and prevent overheating .
- Installation should be performed by qualified technicians to ensure safety and compliance with electrical standards .

Advantages

Elevator distribution boxes are designed for compact size, high space utilization, stable operation, and environmental protection . They allow for reliable power distribution, easy maintenance, and integration with safety systems, making them essential for both residential and commercial elevator applications . By selecting the appropriate type and ensuring proper installation, an elevator distribution box can enhance the safety, efficiency, and longevity of the elevator system.

Article Content

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