Installation of the main power distribution box for each floor

Overview

Next, let''s introduce the wiring mode, installation method and size determination of the distribution box, For your reference.

Key Takeaways

Install each floor's power distribution box in a dry, accessible location with proper grounding, circuit protection, and compliance with local electrical codes.Choosing the Location

Select a location that is easily accessible for maintenance and close to the main power supply. Avoid areas near water, flammable, or corrosive substances. For indoor installations, ensure good ventilation and a height of approximately 1.5 meters for residential setups; industrial or commercial floors may require adjustments based on surrounding equipment and space . Outdoor installations should use enclosures with higher IP or NEMA ratings to protect against moisture and dust .

Selecting the Distribution Box

Choose a box based on load capacity, environment, and durability. Residential boxes are smaller for lighter loads, while industrial boxes handle higher capacities. Ensure the box includes circuit breakers, busbars, terminal blocks, and DIN rails for neat wiring and future expansion . Use UL or CE-certified components to comply with safety standards.

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Installation Steps
• Mounting the Box: Secure the distribution box to a stable surface using expansion bolts or screws. Ensure it is level and firmly fixed .

• Wire Preparation: Strip insulation from wires to the appropriate length, maintaining proper color coding for line, neutral, and ground connections .

• Circuit Breaker Installation: Install individual breakers for each circuit according to the floor's electrical load requirements .

• Termination: Connect input and output wires to the corresponding terminals, ensuring tight and secure connections. Use cable ties to organize wires and leave space for heat dissipation .

• Labeling: Clearly label each circuit for easy identification during maintenance or troubleshooting .
Testing and Safety Checks

Before powering on, perform visual inspections and use a multimeter or insulation resistance tester to verify proper connections and insulation integrity . Ensure all protective devices, such as fuses, breakers, and surge protectors, are correctly installed.

Maintenance

Schedule regular inspections to check for loose connections, dust accumulation, or signs of overheating. Modular designs can simplify future upgrades or expansions . By following these steps, each floor's power distribution box will be safely installed, compliant with standards, and ready for reliable operation.

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Distribution Inside Large Buildings

The vertical supply system (rising mains). The horizontal supply (distribution at each floor level).

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