

## Article Overview

Install the Dongya distribution box by securely mounting the enclosure, attaching the DIN rails, and wiring circuits according to safety standards.

## Preparation and Tools

Before installation, gather the necessary tools and materials:

- o Tools: Electric drill, screwdriver, wire stripper, multimeter, insulation resistance tester, cable ties, and marking pen.
- o Materials: Distribution box enclosure, DIN rails, expansion bolts, screws, terminal blocks, qualified wires, insulating tape.
- o Safety Gear: Insulating gloves, cut-resistant gloves, safety glasses, FR clothing, and slip-resistant shoes .

## Mounting the Distribution Box

- o Select Location: Choose a dry, accessible area with good ventilation, typically at a height of ~1.5 meters. Ensure the wall or surface can support the box weight .
- o Mark and Drill: Use a marking pen to indicate the positions for expansion bolts. Drill holes of appropriate size and insert expansion bolts .
- o Attach the Box: Align the distribution box with the drilled holes and secure it using screws. Ensure the box is level and stable, without any tilt or looseness .

## Installing the DIN Rails

- o Position Rails: Place the DIN rails inside the enclosure according to the layout plan. Ensure they are aligned and spaced to accommodate circuit breakers and terminal blocks.
- o Secure Rails: Fix the rails using screws or brackets provided, ensuring they are firmly attached to prevent movement during operation .

## Wiring and Circuit Installation

- o Wire Preparation: Strip insulation from wires, leaving an appropriate length of exposed conductor. Follow color coding standards for line (L), neutral (N), and ground (PE) wires .
- o Install Circuit Breakers: Mount independent circuit breakers on the DIN rails according to your load requirements.
- o Terminate Wires: Connect each conductor to its designated terminal: line to line, neutral to neutral, and ground to ground. Tighten screws securely and ensure no loose connections .
- o Cable Management: Route wires neatly, secure with cable ties, and leave space for heat dissipation. Avoid tangling or contact with sharp edges .

## Final Checks and Testing

- o Label Circuits: Clearly mark each circuit for future maintenance and troubleshooting .
- o Insulation Resistance Test: Use a qualified tester to measure resistance between wiring and the box, ensuring it meets required standards .
- o Power On: After confirming all connections are correct and secure, reconnect the power supply and verify proper operation .

## Maintenance Tips

- o Schedule regular inspections to ensure long-term reliability.
- o Keep the enclosure clean and free from moisture or dust.
- o Consider modular designs for easier future upgrades . By following these steps, the Dongya professional distribution box will be securely mounted, properly wired, and ready for safe operation in residential, commercial, or industrial settings.

## DOITool 2 Way Distribution Protection Box - IP65 Waterproof Electrical Enclosure - Surface Mounted DIN Rail Circuit Breaker Box

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