

What switch should be connected to the distribution box



Article Overview

A double pole MCB (Miniature Circuit Breaker) or main isolator switch is used to connect the distribution box to the incoming power supply.

Main Switch Function

The main switch, also called the main isolator or main breaker, is installed at the entry point of the distribution box. It controls the entire electrical supply to the board, allowing you to safely disconnect all power during maintenance or emergencies . In single-phase residential systems, this is typically a double pole MCB, which simultaneously isolates both the live (phase) and neutral lines . For three-phase systems, a three-pole MCB or isolator is used.

Additional Protective Devices

After the main switch, the power is usually routed through RCCBs (Residual Current Circuit Breakers) or RCDs (Residual Current Devices) to protect against leakage currents and electric shocks . Individual circuits are then protected by single pole MCBs for overcurrent protection, ensuring that each subcircuit can be safely isolated if needed .

Summary of Connections

- Incoming power from the utility or transformer enters the distribution box.
- Main switch (double pole MCB or isolator) connects and disconnects the entire supply.

Article Content

Distribution board

A distribution board (also known as panelboard, circuit breaker panel, breaker panel, circuit breaker, electric panel, fuse box or DB

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

12) During the inspection and maintenance of the distribution box and switch box, the corresponding power switch at the previous

Key Points Of Installation And Collocation Of Distribution Box In ...

The inlets and outlets of the mobile distribution box and switch box shall not be connected with pins Rubber insulated cable must be

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