

Distribution box linkage switch



Article Overview

A distribution box linkage switch, often the main switch or isolator, connects the incoming power supply to the internal busbars, enabling safe distribution to all outgoing circuits.

Function of the Linkage Switch

The linkage switch in a distribution box serves as the primary control point for incoming electricity. It allows the entire distribution system to be safely disconnected for maintenance or in case of an emergency. In single-phase domestic installations, this is typically a double-pole MCB rated around 63A, which connects the phase and neutral lines to the internal busbars. In larger or three-phase systems, a main isolator or switch may be used to link all phases simultaneously.

Internal Connection

Once the incoming supply passes through the linkage switch:

- Phase busbar: Distributes live current to individual MCBs or RCBOs for each circuit.
- Neutral bar: Connects all neutral wires from outgoing circuits.
- Earth bar: Provides grounding for safety.
- Protective devices: RCCBs or RCBOs are connected downstream to protect against leakage currents and electrical faults. The output of the main switch feeds the RCCB, which then supplies power to the individual MCBs controlling specific loads. This ensures that all circuits are protected and can be isolated independently if needed

Article Content

Summary of key points for construction and installation of distribution ...

The construction and installation points of distribution boxes and switch boxes are summarized as follows: 1. Select qualified

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