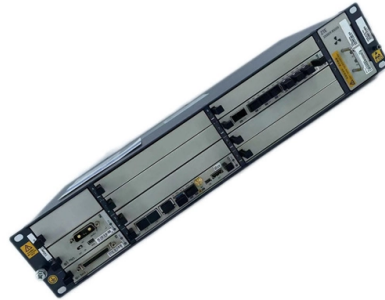


Dedicated switch distribution box



Article Overview

A dedicated switch, often called an isolation switch, provides a safe, visible means to completely disconnect power from a distribution box for maintenance or emergency purposes.

Purpose of a Dedicated Switch

A dedicated switch in a distribution box, also known as an isolation or disconnect switch, is designed to completely de-energize circuits for safe maintenance, inspection, or repair work. Unlike circuit breakers that protect against overloads or short circuits, the dedicated switch ensures a visible and verifiable break in the electrical circuit, guaranteeing that no current flows through the isolated section. This is critical for protecting maintenance personnel from electric shock and preventing accidental energization during work.

Key Features

- **Visible Disconnection:** Provides a physical gap in the circuit that can be visually confirmed.
- **Lockout/Tagout (LOTO) Capability:** Allows the switch to be locked in the open position with warning tags, ensuring compliance with workplace safety regulations.
- **Equipment Protection:** Enables targeted maintenance without shutting down the entire distribution system, protecting sensitive or expensive equipment.
- **Integration with DB Boxes:** Can be installed as part of residential, commercial, or industrial DB boxes, including single-phase or three-phase systems

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