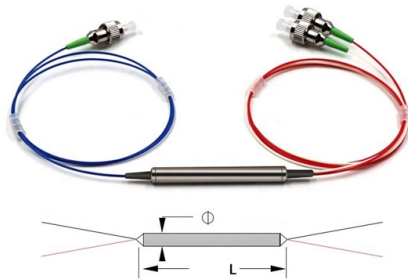


Structure of Low-Voltage Complete Set of Equipment



AI Overview

Low-voltage complete sets of equipment are modular assemblies that integrate protection, switching, and distribution devices within standardized enclosures to ensure safe, efficient, and compact power distribution.

Overview

Low-voltage complete sets of equipment, also known as low-voltage switchgear and controlgear assemblies, are designed to distribute electrical power at voltages typically below 1000 V AC or 1500 V DC. They systematically integrate multiple components—such as circuit breakers, busbars, protective relays, and terminal connections—into a single functional unit, providing both mechanical support and electrical protection for the housed devices .

Structural Components

- **Enclosure (Case):** The outer shell, usually made of metal, provides mechanical protection, environmental isolation, and safety against accidental contact. It supports internal components and can be fully or partially enclosed depending on the application .
- **Internal Electrical Equipment:** Includes busbars, circuit breakers, fuses, contactors, and wiring that form the functional electrical network. These components are arranged to optimize space, facilitate maintenance, and ensure reliable operation .
- **Incoming and Outgoing Terminals:** Designed for connection to the plant or facility, allowing integration with transformers, feeders, and branch circuits

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