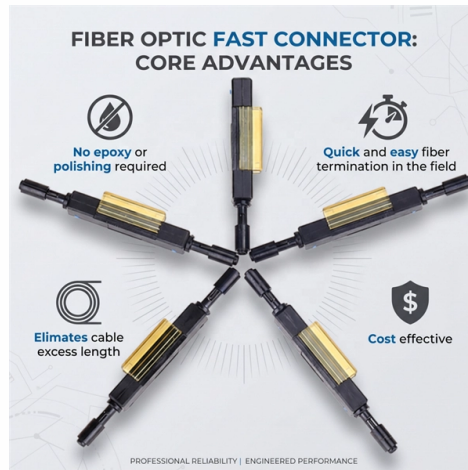


What does the YBM small busbar in the KYN28 cabinet mean



Overview

The KYN28-12 Metal Clad AC Enclosed Switchgear operates in three-phase AC systems at 50Hz and voltages from 3.6 to 40.5kV.

Key Takeaways

The YBM small busbar in a KYN28 cabinet refers to a secondary or branch busbar used to distribute electrical energy within the cabinet, typically housed in the busbar compartment. Function and Placement

In a KYN28 high-voltage switchgear cabinet, the busbar compartment is located in the upper rear section and contains the main busbars and fixed contact boxes, which transmit electrical energy across the system. The YBM small busbar is a smaller, auxiliary busbar that connects to the main busbar and serves to distribute power to individual feeders, circuit breakers, or other internal components. It ensures that each section of the cabinet receives stable and reliable electrical supply.

Structural Context

The KYN28 cabinet is divided into four independent compartments:

- Busbar compartment: Houses main and branch busbars, including the YBM small busbar, fully insulated to prevent arc propagation.
- Circuit breaker compartment: Contains the withdrawable vacuum circuit breaker truck (e.g., VS1 or VD4) and rails for maintenance.

- Cable compartment: Connects outgoing cables, current transformers, and earthing switches .
- Instrument compartment: Contains relays, meters, and protection devices for monitoring and control . The YBM small busbar is typically insulated and mounted in the busbar compartment, allowing safe connection to multiple outgoing circuits without interfering with the main busbar.

Significance

- Safety: By segregating the small busbar from the main busbar, the design reduces the risk of short circuits and arc faults.
- Flexibility: It allows easier connection of multiple feeders or auxiliary circuits without modifying the main busbar.
- Maintenance: The small busbar can be isolated or disconnected independently, facilitating safer maintenance operations. In summary, the YBM small busbar is a branch or auxiliary busbar within the KYN28 cabinet, designed to distribute power from the main busbar to secondary circuits while maintaining safety, modularity, and operational flexibility .

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