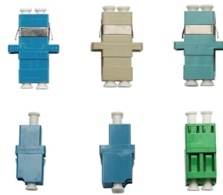


What is the purpose of the small busbar in a high-voltage switchgear



AI Overview

The small busbar in high-voltage switchgear serves as a conductor that distributes electrical power from the main busbar to individual circuits or devices, ensuring safe and efficient energy transfer.

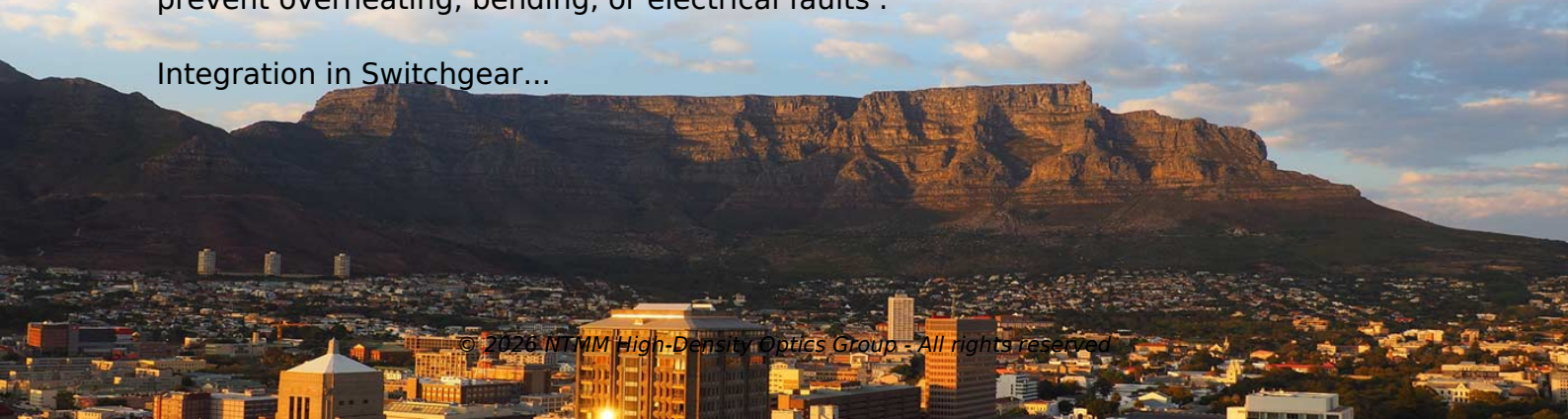
Role and Purpose

In high-voltage switchgear, small busbars act as secondary or auxiliary conductors that connect the main busbar to circuit breakers, transformers, or other equipment. They function as distribution points, allowing power to be tapped off from the main busbar to supply multiple loads while maintaining electrical continuity and system stability. This enables selective isolation of circuits for maintenance or fault management without interrupting the entire system.

Design Considerations

Small busbars are typically made of copper or aluminum, chosen for their conductivity, mechanical strength, and thermal performance. They are designed to handle lower currents than the main busbar but must still withstand short-circuit forces and thermal stresses. Proper sizing, spacing, and support are critical to prevent overheating, bending, or electrical faults.

Integration in Switchgear...



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