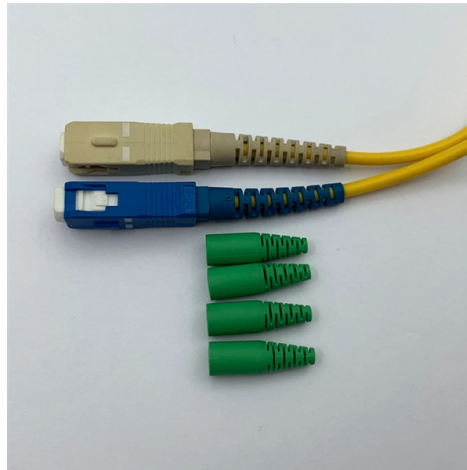


Selection of cross-sectional area of high-voltage busbar



Overview

The cross-sectional area is $A = I / J$, where I is the rated current and J is the current density. For a 2000A copper busbar at 2. This could be achieved with 2 bars of 80mm x 10mm per phase (1600 mm², allowing margin for heating). The maximum current for each tab or termination must be considered to avoid hot spots. INSTRUCTIONS: Choose units and enter the following: Busbar Cross-section Area (A): The cross-section area is returned in. A bus bar is a strip of copper (or) aluminum metal that conducts the electricity in switchboards and also distribution equipment. Proper sizing ensures the safe current conduction without any overheating, minimizes the voltage drop, prevents mechanical stress and guarantees the regulatory. The current rating is calculated from the conductor cross-sectional area, material (copper or aluminium), and maximum temperature rise per IEC 61439-1 (typically 70K above 35 degrees C ambient for bare copper). Short circuit withstand is verified using the adiabatic equation, ensuring the busbar. That is why an undersized busbar can lead to overheating and thus going out of service, while an oversized busbar will simply be costly and occupy more space than needed.



Article Content

Busbar and Cable Gland Size Charts

This document provides details on the construction and carrying capacity of copper and aluminum bus bars at 350C ambient temperature and 300C temperature rise. Tables list various standard sizes of

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