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Bolted joints are formed by overlapping the bars and bolting through the overlap area. They are compact, reliable and versatile but have the disadvantage that holes must be drilled or ...

The process is based on the extension of injection lap riveting to the connection of busbars made from the same material as the rivets and requires redesigning the joints to ensure complete filling with ...

Several variables affect this resistance, which increases with time because of aging. The heat losses rise at the same time. Ultimately, excessive heating can lead to total failure of the joint. Service life can ...

What is the optimal busbar joint overlap? The minimum overlap should be from 8 to 10 times the busbar thickness.

Classification of the main joining technologies to fabricate lap joints in hybrid busbars made from copper and aluminum laminated sheets or bars with some examples of processes.

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Bolting pattern is an important aspect of the joint design if the overlap area is large and more than one fixing is required to reach the required contact force.

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Joining by forming process without auxiliary elements that generates high contact pressures along the overlapping area. The assembly process can be carried out in progressive tool systems comprising a ...

The contact resistance measurements were carried out on the connector-pad/busbar combinations whose contacting surfaces were given different surface finish: as received, brushed, brushed and ...

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