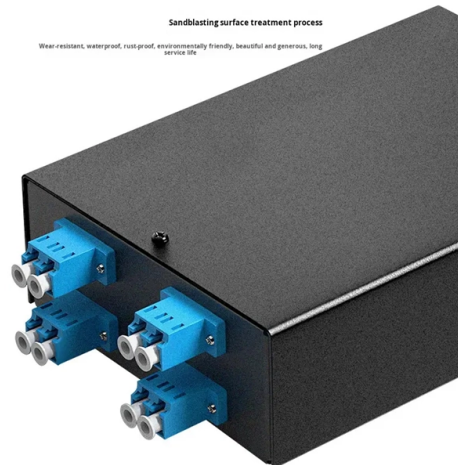


How to install the flange of the terminal box



AI Overview

Terminal box flanges are installed by aligning the flange with the mounting surface, securing it with bolts or screws, and ensuring proper sealing with gaskets to maintain protection and electrical safety.

Preparation Before installation, ensure the following:

- Verify the terminal box type and flange compatibility with the mounting surface and equipment (e.g., Ex e, Ex ia, or standard industrial boxes).
- Inspect the flange and gasket for damage or debris. A clean, undamaged gasket ensures proper sealing and IP/NEMA protection.
- Gather the required tools, such as torque wrenches, Allen keys, or hex keys, depending on the flange fasteners.

Alignment and Positioning Position the terminal box so that the flange holes align with the mounting surface or busway connection points. Ensure the box is oriented correctly according to the motor or equipment mounting standard (IEC or NEMA), as the junction box may need to be on top, side, or another specified position. Check that the cable entry points and conduit connections are accessible for wiring.

Securing the Flange Insert bolts or screws through the flange holes and into the mounting surface. If the flange and mounting surface are made of different metals, consider using Belleville washers to maintain torque and compensate for thermal expansion. Tighten fasteners evenly in a crisscross pattern to ensure uniform pressure on the gasket and prevent leaks. Apply the recommended torque values for the fasteners, as specified by the manufacturer or relevant standards.

Sealing and Electrical Considerations Ensure the gasket is properly seated between the flange and mounting surface to maintain IP66/NEMA 4X protection. Apply anti-oxidant compound to conductor connections if using mechanical lugs or split bolts to prevent oxidation and maintain low resistance. Verify that all wiring connections inside the terminal box are secure and comply with...

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Note: The terminal blocks in the Terminal Box are rated for 300V, 10A and are intended for 26-16 AWG (.08-1.5 mm) wire. When wiring, all applicable building and electrical codes must be followed.

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If the seating surface is damaged, it should be machined within the tolerance of the flange specification. If re-machining is not possible, the flange should be replaced.

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