

How to install the lifting lugs on the cover of the distribution box

Article Overview

Lifting lugs should be securely bolted or clamped to the distribution box cover at balanced points, ensuring proper load distribution and compliance with safety standards.

Selecting the Right Lifting Lugs

Choose lifting lugs that are load-rated for the weight of the distribution box. Common types include swivel, hinged, adjustable, or removable lugs, each designed to distribute lifting forces evenly and prevent twisting during lifting. For a distribution box, removable or bolted lugs are typically preferred for flexibility and ease of installation.

Positioning the Lugs

- o **Balance and Center of Gravity:** Place the lugs symmetrically around the cover to align with the box's center of gravity, ensuring stable lifting.
- o **Avoid Obstructions:** Ensure lugs do not interfere with internal components or wiring inside the box.
- o **Spacing:** For rectangular boxes, position lugs near the corners or along reinforced edges to prevent deformation during lifting.

Installation Procedure

- o **Mark Lug Locations:** Identify and mark the points on the cover where the lugs will be attached.
- o **Drill or Use Pre-Drilled Holes:** If the cover does not have pre-drilled holes, drill holes according to the lug manufacturer's specifications.
- o **Attach Lugs:** Secure the lugs using high-strength bolts or clamps, ensuring they are tightened to the recommended torque. Use washers if specified to distribute the load.
- o **Check Alignment:** Verify that all lugs are aligned and level to prevent tilting during lifting.
- o **Test Lift:** Before full operation, perform a trial lift with a crane or hoist to confirm stability and proper load distribution.

Safety Considerations

- o **Standards Compliance:** Ensure lugs meet applicable standards such as LOLER, PUWER, or ASME B30.20 for lifting devices.
- o **Environmental Factors:** Consider corrosion resistance if the box is outdoors; use stainless steel or coated lugs if necessary.
- o **Rigging Accessories:** Use appropriate slings, shackles, or spreader bars compatible with the lug type.
- o **Inspection:** Regularly inspect lugs and bolts for wear, deformation, or loosening before each lift. By



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following these steps, the distribution box can be safely lifted and transported without damaging the enclosure or internal components, ensuring both operational safety and compliance with industry standards.

Training on correct lug and terminal installation on electric motors and terminal boards.

Lifting lugs are designed to mount on an enclosure to provide a safe and easy way to lift an assembled enclosure while maintaining

What Is a Lifting Lug? A lifting lug (or padeye) is a load-bearing attachment point -- typically

HANDLING AND LIFTING MVT"s This document is specifically written to describe the procedure to handle and lift WEG"s Medium

Tutorial for installing and wiring the YA060HD Compression Lug Kit for PowerPact H

Tutorial for installing aluminum or copper mechanical lug kits onto the PowerPact B

Instructions on how to install 225a main lugs to a panel. Learn more at

The document provides instructions for receiving, handling, installing, and maintaining pressure vessels. It outlines approved lifting

Read these instructions carefully before proceeding with installation, operation or maintenance of this equipment. To prevent death,

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Securely mounted to the enclosure with reinforced points to evenly distribute weight and prevent structural stress. Ideal for large

Installation: Select the corresponding mechanical lug according to the conductor size and information in the table, and determine

Learn how to install a distribution box safely and correctly. Covers wiring, placement, standards, and expert tips for a

In this article you will learn about how lifting lugs are designed, different types, and how they are fabricated,

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I am a residential electrician and took this video to show how I install a square D main

Station Type Transformer (cover mounted bushings) Lifting Lugs Cooling Fans HV Bushings Radiator Figure
la-- Nomenclature,

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