

Location of the power distribution box for a machine-room-less elevator



AI Overview

In a machine-room-less (MRL) elevator, the power distribution box is typically installed within the elevator shaft or in a cabinet at the top floor, accessible for maintenance.

Placement and Configuration In MRL elevators, all major electrical and power components are integrated into the shaft or adjacent compartments rather than a separate machine room. The power supply box, which contains all the power components, is usually placed inside the shaft, while the control interface for technical staff is located in a wall-mounted cabinet at the top floor or near the highest landing. This cabinet can be mounted surfaced, semi-recessed, or fully recessed depending on the building design.

Accessibility The design ensures that maintenance personnel can access the power distribution box safely. Typically, the cabinet is positioned at floor level, often at the top floor, allowing technicians to reach the main electronic components and perform emergency operations such as lowering the cab or accessing cut-off valves. In some designs, the control boxes are located within 150 feet of the machine, ensuring convenient access without requiring a dedicated machine room.

Electrical Considerations The power distribution box in MRL elevators is designed to comply with electrical safety standards, including NEC 620.51(A) for disconnecting means and selective coordination with supply-side overcurrent devices. Overcurrent protection is often provided by current-limiting fuses or a separate fused disconnect, ensuring safe operation and high short-circuit current ratings (SCCR) for the elevator controller.

Summary

- Power box location: Inside the elevator shaft
- Control interface: Wall-mounted cabinet at top floor or highest landing
- Accessibility: Designed for maintenance and emergency operations
- Compliance: Meets NEC requirements for disconnecting means and overc...

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Where there is no machine room, control room, machinery space, or control space outside the hoistway, the overcurrent device must be located outside the hoistway and accessible to qualified persons only.

Heavy-Duty Machine Room-Less Elevator Design Guidelines

Heavy-Duty Machine Room-Less Elevator Design Guidelines Abstract: This document provides design guidelines for the fabrication, installation, and testing of MRL elevators.

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The document outlines the electrical wiring and control systems for a machine room-less elevator, detailing connections to various components such as the main distribution box, speed governor, and

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Heavy-Duty MRL Elevator Design Guidelines

This document provides guidelines for the design of heavy duty, machine room-less elevators intended for use in transportation systems. It

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Machine-Room-Less Elevator Design | UpCodes

ASME A17.1 requires an elevator drive machine to be located in either an elevator Machine Room (MR) or an elevator Machinery Space (MS). When the elevator drive machine is not located in the machine

MACHINE ROOM-LESS (MRL) POWER UNIT

Use the tables below to fill out the calculator to determine the amount of oil needed so that it will not spill out the top when the elevator is at the bottom...

Compliance with the 2017 NEC for Elevator Controllers

All equipment in a machine room-less design is installed within the elevator shaft or exterior compartment near the elevator shaft, including the elevator controller and the elevator disconnecting

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NEC Article 620: Elevators, Part 2

Overcurrent devices and disconnects must be located in machine or control spaces, be lockable and provide a single means to disconnect

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