

Installation of several electrical distribution boxes in the elevator machine room



Article Overview

Elevator machine rooms must primarily house elevator-related electrical equipment, with dedicated circuits and disconnects, while non-elevator distribution panels are generally restricted or require careful code review.

Dedicated Circuits and Distribution Panels

Each elevator requires separate, dedicated branch circuits for motor power, cab lighting, receptacles, and HVAC systems. Main power circuits are typically 240VAC, 30 Amp for the motor and controls, while cab lighting uses 120VAC, 20 Amp circuits. Machine room and pit receptacles must have GFCI protection on their own dedicated circuits, and lighting should be switched at accessible locations for staff safety (). Overcurrent devices and disconnects must be lockable, accessible to qualified personnel, and provide a single means to disconnect ungrounded conductors. For multiple elevators, selective coordination of feeders is required, and panels are often installed in the machine room to serve all elevators ().

Placement of Disconnects

NEC Article 620.51 and common practice indicate that disconnects should be located near the machine room entrance for quick access. In some jurisdictions, such as NYC, separate fused disconnects at the door are required even if a panel exists inside th...

Article Content

Dec 20, 2025

6-1 Elevator Machine Room, Control Room, and Machinery Space

For each elevator group, provide electrical power service from the main building electrical distribution panel to the elevator machine

Dec 09, 2025

etal aceay in Elevator or

After reading this article, you should have learned about: ♦ The role of the NEC in electrical installations for elevators ♦ The

Jul 03, 2026

OESC 620.37 Wiring in Hoistways, Machine Rooms, Control Rooms ...

NEC 620.37 covers wiring in hoistways, machine rooms, control rooms, machinery spaces, and control spaces related to the

Jan 17, 2026

ELEVATOR PLANNING

Machine room-less elevators are not only the most space-efficient option, they also consume less power than traditional geared

Jun 04, 2026

2021 International Building Code (IBC)

The use of intermodal shipping containers as buildings is now specifically addressed through provisions intended to supplement

Dec 20, 2025

California Code of Regulations, Title 8, Section 3011. Machine Rooms ...

§3011. Machine Rooms and Machinery Spaces. (a) Enclosure of Machine Rooms and Machinery Spaces. The enclosure shall be

Dec 14, 2025

Building Elevator Systems

Elevator machine rooms shall be of fire resistant construction (generally 2 hour) equivalent to hoistway construction. Machine room

Jan 20, 2026

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,

Mar 04, 2026

Summary of key points for construction and installation of distribution ...

The construction and installation points of distribution boxes and switch boxes are summarized as follows: 1. Select qualified

Jan 30, 2026

Elevator Equipment Room Code Requirements

Elevator safety is a critical consideration for builders, who have state safety codes to follow, permits to obtain and

May 17, 2026

Code requirements for elevator machine room wires? This is a

27 votes, 49 comments. 14K subscribers in the Elevators community. Everything related to elevators and escalators.

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Elevator machine room lighting | Information by Electrical ...

Does the elevator machine room lighting need to be fed from a dedicated circuit? NEC 620 is not really clear...

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NEC Article 620: Elevators, Part I

It is noted that the article covers the installation of electrical equipment and wiring for elevators, dumbwaiters,

Oct 07, 2025

California Code of Regulations, Title 8, Section 3012. Electrical ...

§3012. Electrical Wiring, Pipes, and Ducts in Elevator Hoistways, Machine Rooms, or Machinery Spaces. (a) Wiring Methods in

Jul 18, 2026

Elevator Machine Room: Everything You Need to Know

What Do Elevator Machine Room Signs Look Like Elevator machine room signs warn about electrical danger, limit access to trained

Feb 26, 2026

Installation Diagram

Installation of alignment guides in the machine room and PIT respectively, with the exact fixing position calculated according to the lift

Feb 19, 2026

NEC Article 620: Elevators

Utility-owned electrical structures not directly concerned with electrical generation, transmission and distribution are NEC regulated.

May 13, 2026

NEC Article 0: Elevator art 1

hen you consider that an elevator is an enclosed room with one or more doors that people voluntarily enter so they may travel

May 26, 2026

Thyssenkrupp Elevator Electrical Specs | PDF | Elevator | Door

Thyssenkrupp Elevator Electrical Specs This document provides the electrical and civil requirements for a machine room and

Jan 15, 2026

Wiring in Hoistways, Machine Rooms, Control Rooms, Machinery

Electrical wiring, raceways, and cables associated with elevators and dumbwaiters are allowed in hoistways, machine rooms, control

Oct 26, 2025

Schindler 3300 Traction elevator installation checklist

- Must immediately confirm the type of three-phase power to the elevator equipment room (208 volt, 460 volt, 480 volt, 575 volt or

Mar 03, 2026

Thyssenkrupp Elevator Electrical Specs | PDF | Elevator | Door

This document provides the electrical and civil requirements for a machine room and hoistway shaft for an elevator project. It lists 15

Dec 12, 2025

Equipment in Hoistways, Machine Rooms and Control Rooms (ASME

Seattle Building Code 2018 > Chapter 30 Elevators and Conveying Systems > Section 3022 Equipment in Hoistways, Machine

Sep 16, 2025

Machine Room Elevator Floor Plan | PDF | Elevator | Electrical Wiring

The document outlines the ventilation, power, and lighting requirements for an elevator machine room. It specifies that the machine

Jun 14, 2026

Elevator Installation Manual for MRL Systems

This document provides instructions for installing elevators with machine rooms. It discusses organizing installation workers,

Contact Us

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