

Does the elevator machine room need an electrical distribution box



AI Overview

Yes, an elevator machine room typically requires a dedicated electrical distribution box or disconnect panel to supply and protect elevator-related circuits.

NEC Requirements

According to NEC Article 620, each elevator machine room must have dedicated branch circuits for lighting, receptacles, and HVAC systems. These circuits must be protected by overcurrent devices located in the machine room or control space, providing a single means to disconnect ungrounded conductors. The disconnects must be lockable and accessible to qualified personnel for maintenance or emergency purposes, ensuring safety during servicing or arc-fault events (NEC 620.51, 620.53) .

Practical Installation

In practice, elevator machine rooms often include a three-phase or single-phase elevator box (distribution panel) that supplies power to the elevator motor, control board, hoistway, and pit equipment. This box is usually installed near the machine room door at a height of 120–140 cm from the floor for easy access and secure mounting . For buildings with multiple elevators, a panelboard may serve multiple elevators, but separate disconnects are often required at the door for each elevator to comply with local codes and facilitate emergency shutdowns

Article Content

Apr 21, 2026

Residential Elevator Electrical Guide | PDF

The document outlines the electrical requirements for an elevator machinery space. It specifies that an electrician needs to provide:

Jan 03, 2026

2021 International Building Code (IBC)

Puzzle rooms (escape rooms) are now defined and regulated as special amusement areas, requiring compliance with Section 411

May 16, 2026

NEC Article 620: Elevators, Part I

After such an event, it is important that the affected worker is able to escape the area and get to help. For this reason,

Nov 18, 2025

NEC Article 0: Elevator art 1

art III, iring, looks at the types of wiring that may be installed in hoistways, cars, machine rooms and related spaces The basic wiring

Jan 27, 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.

Dec 05, 2025

NEC Article 620: Elevators, Part 2

NEC 2011 also addresses branch circuits for machine room or control room/machinery space

Feb 17, 2026

Hoistway Wiring

Minimizing the need for untrained personnel (non-elevator personnel) to enter elevator equipment spaces reduces the

May 15, 2026

Compliance with the 2017 NEC for Elevator Controllers

The electrical system designer calculates the maximum available fault current at the elevator controller. The electrical system

Jul 29, 2025

Elevator Equipment Room Code Requirements

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

Jan 25, 2026

14 20 00 ELEVATORS

Provide a minimum elevator machine room size of 100 square feet, exclusive of the area above the hoistway (for traction elevators),

Aug 15, 2025

What is an Elevator Machine Room?

The Machine room is an area set aside for the elevator equipment and consists of the

Feb 28, 2026

The Electrical Ups and Downs of Elevator Design | EC& M

The many codes and guidelines that regulate the electrical design of an elevator can seem overwhelming, and dealing

Mar 08, 2026

Separate closet for elevator disconnects? | Information by Electrical ...

Elevator Disconnects Elevator Disconnects I am an estimator for a commercial electrical contractor and have only seen

Apr 02, 2026

EQUIPMENT ROOMS, ELEVATOR

EQUIPMENT ROOMS, ELEVATOR Security / Identification: All mechanical equipment rooms that house elevator machinery shall be

May 03, 2026

What's an Elevator Machine Room?

What's an Elevator Machine Room? The elevator machine room is the control house of your elevator. This specialized area keeps

Dec 08, 2025

MBT-MS-Y 380V Elevator Power Distribution Box In Machine Room

Categories: Elevator Modernization, Modernized Others Tags elevator part use in machine room, elevator Power distribution box,

May 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

Apr 12, 2026

Machinery Spaces, Machine Rooms, Control Spaces, and Control

2.7.6.3.2 The motor controller shall be located in a machine room, control space, or control room. NOTE: For electrical clearance

Oct 31, 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 27, 2025

Heavy-Duty Machine Room-Less Elevator Design Guidelines

Keywords: elevator, machine room-less Summary: The use of this Recommended Practice will provide improved availability and

May 20, 2026

Elevator Design Coordination and Best Practices

The electrical engineer will need to know the voltage, motor horsepower, and fault current

Oct 27, 2025

Three Phases Elevator Box

The three-phase elevator box supplies the required power for the engine, control board, well and pit, and the elevator machine room.

Jan 21, 2026

NEC Article 620: Elevators

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

Mar 08, 2026

Elevator Machine Room Disconnects | Information by Electrical ...

The client wants to put an Equipment Branch panel in the elevator machine room that will have nothing to do with the

May 29, 2026

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

(1) Elevator driving machines, motor generator sets, controllers, and auxiliary control equipment shall be installed in a room or

Aug 09, 2025

Residential Elevator Machine Rooms | HomeElevators

While electrical requirements will vary depending on the specific type of elevator in general, two separate electrical circuits are

Jun 06, 2026

NEC Article 620: Elevators, Part 2

AI Overview NEC Article 620 prescribes wiring, protection, grounding and installation rules for

Sep 23, 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

Dec 22, 2025

ELEVATOR SAFETY PROGRAM CODE INTERPRETATION

Conduit Runs through Machine Rooms ASME A17.1b, 1998, Rule 102.1 N/A December 13, 1999 Question: Does the code allow

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