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CCS Q78



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 10060-2023

Replacing GB/T 10060-2011

Code for installation acceptance of electric lifts

电梯安装验收规范

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Table of Contents

1 Scope	
1.00 Trial).	**
2 Normative references	
3 Terms and definitions...	
4 Installation acceptance prerequisites...	
5 Introduction...	
5.1 Machinery space and pulley room...	
5.1.1 Access...	
5.1.2 Requirements for machinery space and pulley room...	
5.1.3 Main switch, lighting and its switches...	
5.1.4 Warnings and instructions...	
5.1.5 Phase-failure, phase mismatch protection and motor power cut-off inspection	
5.1.5.1 According to the method specified in	
5.1.6 Electrical wiring and installation	
5.1.7 Contactor and contactor relay...	
5.1.8 Equipment installation	
5.1.9 Lift machine...	
5.1.10 Protection of rotating parts	
5.1.11 Protection of motors and other electrical equipment	
5.1.12 Motor running time limiter	
5.1.13 Emergency operation	
5.2 Well...	
5.2.1 Well enclosure...	
5.2.2 Passage doors, emergency exits, passage trap doors and access doors...	
5.2.3 Safety space and safety distance...	
5.2.4 Guide rails	
5.2.5 Counterweight and balancing weight	
5.2.6 Traveling cable...	
5.2.7 Overspeed governor...	
5.2.8 Buffer	
5.2.8.5 For lifts with a rated speed greater than	
5.2.9 Pit	

5.3 Requirements for machines installed in different locations

5.3.1 Machine in the machine room

5.3.2 Machine in the well...

5.4 Car

5.4.1 Car overall

1 Scope

GB/T 10060-2023 is the Chinese national standard on code for installation acceptance of electric lifts, in the field of construction materials and building. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 7 September 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2024. Classification: ICS 91.140.90, CCS Q78. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the conditions, items, requirements, and rules for acceptance after completion of lift installation. This document is applicable to traction lifts with a rated speed not exceeding

6.0 m/s and positive drive lifts with a rated speed not exceeding

0.63 m/s. For traction lifts with a rated speed exceeding

6.0 m/s, refer to this document for implementation, and the inapplicable parts shall be determined by the manufacturer (supplier) and the buyer through negotiation. This document does not apply to hydraulic lifts, dumbwaiters, home lifts, goods lifts, and inclined lifts.

1.00 Trial).**

GB38031-2020) to purchase

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Notes and Explanations

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2 Normative references

The provisions of the following documents constitute the essential clauses of this document through normative references in this text. Among them, for referenced documents with dates, only the versions corresponding to the dates are applicable to this document; for referenced documents without dates, the latest versions (including all amendments) are applicable to this document.

GB/T 4208 Degrees of protection provided by enclosure (IP code)

GB/T 5226.1-2019 Electrical safety of machinery - Electrical equipment of machines - Part 1: General requirements

GB/T 7024 Terminology of lifts, escalators, passenger conveyors

GB/T 7588.1-2020 Safety rules for the construction and installation of lifts - Part 1: Passenger and goods passenger lifts

GB/T 10058-2023 Specification for electric lifts

GB/T 10059-2023 Testing methods for electric lifts

GB/T 16895.21-2020 Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock

GB/T 18894 Specification on electronic documents archiving and electronic

5.1.5.1 According to the method specified in

GB/T 10059-2023, disconnect any phase of the main power line, then the lift shall stop and remain in the stopped state. Exchange any two phases of the main power line, then the lift shall stop and remain in the stopped state, or can still run normally, run for inspection or in emergency electric operation in the direction before the phase line is exchanged.

5.1.5.2 Check the power supply circuit and control circuit of the lift machine motor directly powered by AC or DC power supply. At least two independent contactors shall be used for cutting off the power supply circuit, and the contacts of the contactors shall be connected in series. When the lift stops, simulate that the main contact of one of the contactors is not disconnected; at the latest, when the running direction changes next time, the fault shall be able to be detected and the car shall be prevented from running again. When the monitoring function fails, the car shall be prevented from running again.

5.1.5.3 Check the power supply circuit and control of the lift machine motor powered by the static element, which shall comply with the provisions of 5.9.2.5.4 of GB/T 7588.1-2020.

5.1.6 Electrical wiring and installation

5.1.6.1 Check the laying of the lift power line and control line. The lines should be laid separately or shielded. Check the metal casing (cover) of the electrical equipment that needs to be grounded in the design; it shall be equipped with an easily identifiable grounding terminal and be well grounded. Check the configuration of the grounding wire; the yellow and green two color insulated wires shall be directly connected to the grounding terminal, respectively. They shall not be connected in series before grounding. Check the separate settings of the neutral conductor (N, zero wire) and the protective conductor (PE, ground wire) of the lift power supply.

5.1.6.2 Check the laying of wire tubes and wire troughs, which shall be straight, neat, and firm. Measure the fixed spacing of hoses and ends. The fixed spacing of hoses shall not be greater than 1 m, and the fixed spacing of ends shall not be greater than

0.1 m.

5.1.6.3 Check or review the data to confirm that the protection level of the protective enclosure (cover) of the electrical equipment in the well, machinery space and pulley room shall not be lower than IP2X specified in

GB/T 4208. Check or review the data to confirm that the protection level of the connectors, terminals and connectors not set in the protective enclosure during connection and disconnection shall not be lower than IP2X, and they shall be properly fixed to prevent accidental loosening.

5.1.6.4 Verify that the additional protection and residual voltage protection shall comply with the requirements of 5.10.1.2.3 and 5.10.1.2.4 in GB/T 7588.1-2020.

5.1.6.5 Carry out the insulation resistance test between the energized conductor and the ground in accordance with the method specified in

GB/T 10059-2023. The result shall comply with the provisions of 5.10.1.3.1 of GB/T 7588.1-2020.

5.1.7 Contactor and contactor relay Check the type of contactor and contactor relay, which shall be AC-15 or DC-13 as specified in

GB/T 7588.1-2020. Check the installation of the contactor and contactor relay, which shall be fixed reliably and wired firmly. Check the device identification, which shall be consistent with the electrical schematic.

5.1.8 Equipment installation