

ICS 97.120
CCS K 32



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

GB 14536.13-2008

Replacing GB/T 14536.13-2008

**Automatic electrical controls - Part 13: Particular requirements
for electrically operated door locks
(English Translation)**

Issued on: December 30, 2022

Implemented on: July 1, 2023

Issued by: State Administration for Market Regulation

Table of Contents

Preface	
Introduction	
1 Scope	
2 Normative references	
3 Terms and Definitions	
4 General requirements	
5 General description of the test	
6 Rating	
7 Categories	
8 Data	
9 Protection against electric shock	
10 Ground protection measures	
11 Terminals and terminals	
12 Structural requirements	
13 Moisture-proof and dust-proof	
14 Electric strength and insulation resistance	
15 Fever	
16 Manufacturing deviation and drift	
17 Environmental stress	
18 Durability	
19 Mechanical Strength	
20 Threaded parts and connections	
21 Creepage distances, clearances and distances through solid insulation	
22 Heat resistance, flame resistance and tracking resistance	
23 Corrosion resistance	
24 Electromagnetic Compatibility (EMC) Requirements --- Launch	
25 Components	
26 Normal operation	
27 Electromagnetic compatibility (EMC) requirements --- immunity	
28 Abnormal operation	
29 Guidelines for the use of electronic disconnection	
Appendix	

Appendix H (Normative) Requirements for Electronic Controllers

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" drafting.

This document is part 13 of GB/T 14536. GB/T 14536 has published the following parts.

- GB/T 14536.1-2022 Electric automatic controller Part 1: General requirements;
- GB/T 14536.3-2022 Electric automatic controller Part 3: Special requirements for motor thermal protector;
- GB/T 14536.4-2008 Household and similar electrical automatic controllers special features for thermal protectors for ballasts for fluorescent lamps Require;
- GB/T 14536.6-2022 Electric automatic controller Part 6: Special requirements for burner electric automatic control system;
- GB/T 14536.7-2010 Household and similar electric automatic controllers, special requirements for pressure-sensitive electric automatic controllers, including mechanical requirements;
- GB/T 14536.8-2010 Special requirements for household and similar electric automatic controller timers and timing switches;
- GB/T 14536.9-2008 Special requirements for electric water valves of electric automatic controllers for household and similar purposes (including mechanical requirements beg);
- GB/T 14536.10-2022 Electric automatic controllers Part 10: Special requirements for temperature-sensitive controllers;
- GB/T 14536.11-2008 Special requirements for starting relays for motors of household and similar electric automatic controllers;
- GB/T 14536.12-2010 Special requirements for household and similar electric automatic controller energy regulator;
- GB/T 14536.15-2022 Electric automatic controllers Part 15: Special requirements for humidity sensitive controllers;
- GB/T 14536.16-2013 Special requirements for household and similar electric automatic controllers and electric starters;
- GB/T 14536.17-2005 Float-type or electrode-sensitive electric controllers used in household and similar electric automatic controllers and boiler appliances Special

requirements for inductive water level sensitive electric automatic controllers;

---GB/T 14536.18-2006 Electric automatic controllers for household and similar applications Float-type water level controllers for household and similar applications special requirements;

---GB/T 14536.19-2017 Special requirements for electric gas valves with electric automatic controllers for household and similar purposes, including mechanical Require;

---GB/T 14536.20-2008 Household and similar electric automatic controller water flow and air flow sensitive controller special requirements, including mechanical requirements;

---GB/T 14536.21-2008 Special requirements for household and similar electric automatic controller electric oil valve, including mechanical Require.

This document replaces GB/T 14536.13-2008 "Special requirements for electric door locks with electric automatic controllers for household and similar purposes", and Compared with GB/T 14536.13-2008, except for structural adjustment and editorial changes, the main technical changes are as follows.

--- Changed the abnormal operation requirements (see Chapter 28, Chapter 27 of the 2008 edition);

--- Added terms and definitions (see H.3.101.1 and H.3.101.2);

--- Changed the requirements for Class B control functions (see H.28.1.2.2, H.27 of the 2008 edition);

---Changed the requirements for C-type control functions (see H.28.1.2.3, H.27 of the 2008 edition);

--- Changed the requirements for failures that occur during safety shutdown (see H.28.1.2.2.2, H.28.1.2.3.2 and H.28.1.2.3.3, 2008 version of H.27).

This document is equivalent to IEC 60730-2-12:2015 "Electric automatic controllers Part 2-12.Particular requirements for electric door locks".

This document sets 1.1 Scope and 1.2 Normative References in Chapter 1 of the international document as Chapter 1 and Chapter 2 separately, and the following the chapter number is extended. The chapters and articles of Appendix H, Appendix J, Appendix U, and Appendix V are adjusted accordingly.

The following minimal editorial changes have been made to this document.

--- In order to coordinate with existing standards, change the name of the standard to "Electric automatic controller Part 13: Special requirements for electric door locks".

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

Automation and intelligence are the development goals of all kinds of live equipment, and the electric automatic controller is the cornerstone of its realization. As an appliance the core components of the equipment, the inherent safety and functional safety of the electric automatic controller are closely related to the safety of personal and property. GB/T 14536 the series of standards adopt the IEC 60730 series of standards, which regulate the electrical and automatic safety of household and similar electrical appliances and other electrical and non-electrical equipment.

The requirements for control devices can also be extended to industrial applications in the absence of specific product standards, such as central heating, air conditioning, process heating buildings Yu automation, etc., specifically include the following contents.

--- Electric automatic control device, which operates mechanically, electromechanically, electrically or electronically, responds to or controls conditions such as temperature, pressure, passage of time, Parameters such as humidity, light, electrostatic effects, flow or level.

--- Electric automatic control devices for starting small electric motors mainly used in household and similar appliances and equipment. this control the device can be built into the motor or separate from the motor.

--- Non-automatic control devices related to automatic control devices.

The IEC 60730 series of standards have been revised several times, expanding the scope from electric automatic controllers for household and similar purposes to electric automatic controllers.

The GB/T 14536 series is being revised successively in China according to the new version of the IEC standard. The revised GB/T 14536 series is proposed to be the next part is composed.

---GB/T 14536.1 Electric automatic controller Part 1: General requirements. The purpose is to generally standardize electric automatic controller products Require.

---GB/T 14536.3 Electric automatic controller Part 3: Special requirements for motor thermal protectors. The purpose is to standardize electric Machine thermal protector product requirements.

---GB/T 14536.4 Special requirements for household and similar electric automatic controllers, ballast thermal protectors for tubular fluorescent lamps.

The purpose is to standardize product requirements for ballast thermal protectors for tubular fluorescent lamps.

---GB/T 14536.6 Electric automatic controller Part 6: Special requirements for electric