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GB/T 14536.7-2024

Automatic electrical controls-Part 7: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements

电自动控制器 第7部分：压力敏感电自动控制器的特殊要求，包括机械要求

(English Translation)

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Foreword

All the technical contents in this Part are mandatory.

GB 14536 Automatic Electrical Controls for Household and Similar Use can be divided into the following two parts.

--- Part 1: General Requirements;

--- Part 2: Particular Requirements.

The Particular Requirements consist of the following parts.

--- GB 14536.3 Particular Requirements for Thermal Motor Protectors (IEC 60730-2-2,

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IDT);

--- GB 14536.4 Particular Requirements for Thermal Protectors for Ballasts for Tubular Fluorescent Lamps (IEC 60730-2-3, IDT);

--- GB 14536.5 Particular Requirements for Thermal Motor Protectors for Motor -Compressors of Hermetic and Semi-Hermetic Type (IEC 60730-2-4, IDT);

--- GB 14536.6 Particular Requirements for Automatic Electrical Burner Control Systems (IEC 60730-2-5, IDT);

--- GB 14536.7 Particular Requirements for Automatic Electrical Pressure Sensing Controls Including Mechanical Requirements (IEC 60730-2-6, IDT);

--- GB 14536.8 Particular Requirements for Timers and Time Switches (IEC 60730-2-7, IDT);

--- GB 14536.9 Particular Requirements for Electrically Operated Water Valves Including Mechanical Requirements (IEC 60730-2-8, IDT);

--- GB 14536.10 Particular Requirements for Temperature Sensing Controls (IEC 60730-2-9, IDT);

--- GB 14536.11 Particular Requirements for Motor-Starting Relays (IEC 60730-2-10, IDT);

--- GB 14536.12 Particular Requirements for Energy Regulators (IEC 60730-2-11, IDT);

--- GB 14536.13 Particular Requirements for Electrically Operated Door Locks (IEC 60730-2-12, IDT);

--- GB 14536.15 Particular Requirements for Humidity Sensing Controls (IEC 60730-2-13, IDT);

--- GB 14536.16 Particular Requirements for Electric Actuators (idt IEC 60730-2-

--- GB 14536.17 Particular Requirements for Automatic Electrical Water Level Sensing Controls of The Float or Electrode-Sensor Type Used (IEC 60730-2-15, IDT);

--- GB 14536.18 Particular Requirements for Automatic Electrical Water Level Controls of the Float Type for Household and Similar Applications (IEC 60730-2-16, IDT);

--- GB 14536.19 Particular Requirements for Electrically Operated Gas Valves Including Mechanical Requirements (IEC 60730-2-17, IDT);

--- GB 14536.20 Particular Requirements for Automatic Electric Water and Air Flow Sensing Controls Including Mechanical Requirements (IEC 60730-2-18, IDT);

--- GB 14536.21 Particular Requirements for Electrically Operated Oil Valves Including Mechanical Requirements (IEC 60730-2-19, IDT).

This Part equivalently adopted IEC 60730-2-6:2007 Automatic Electrical Controls for

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Household and Similar Use - Particular Requirements for Automatic Electrical Pressure Sensing Controls including Mechanical Requirements (Version II).

The structure of this Part is completely the same as the IEC 60730-2-6:2007.In this Part, if there are the corresponding national standards, refer to the national standards;

while if there are not the corresponding national standards temporarily, refer to the listed IEC standards.

For the benefit of the use, this Part do the following editorial changes.

a) Use decimal point "." to replace the comma "," that acts as the decimal point;

b) Add the foreword of the national standard;

c) Replace "this Standard" by "this Part";

d) Use "GB 14536.1" to replace "Part 1".

This Part was used together with GB 14536.1-2008 Automatic Electrical Controls for Household and Similar Use - General Requirements.

This Part Replaced GB 14536.7-1996 Automatic Electrical Controls for Household and Similar Use - Particular Requirements for Automatic Electrical Pressure Sensing Controls (including Mechanical Requirements).

Compared with GB 14536.7-1996, this Part has the major changes as follows.

a) Modify the names of server clauses according to the changes of GB 14536.1;

b) Delete the replaced contents of 1.2, 1.3 in Clause 1 Scope; apply to the corresponding requirements of GB 14536.1;

c) Delete several items in 2.3 Definitions of Clause 2; thereof parts of them are adjusted to GB 14536.1;

d) Adjust parts of contents in Clause 7 Information Providing;

e) Delete the replaced and added sub-clauses contents in 10.1.1.1, 10.1.101, 10.1.102, 10.2 of Clause 10 Terminals and Terminations;

f) Delete the adding sub-clause of 11.4.102 and replaced content of 11.6 in Clause 11; meanwhile this Clause's other contents has been adjusted;

g) Add the inapplicable sub-clause of 14.4.3.1 in GB 14536.1 to Clause 14 Heating;

h) Delete the replaced contents of 24.2 in Clause 24 Components;

i) Add Appendix H.

The Appendix H and Appendix AA of this Part are normative one; while Appendix BB is informative one.

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This Part was proposed by China Electrical Equipment Industrial Association.

This Part shall be under the jurisdiction of National Technical Committee for Standardization of Automatic Electric Control for Household (SAC/TC 212).

Drafting organizations of this Part. Guangzhou Electric Apparatus Research Institute, Changzhou Thermoster Electrical Appliance Co., Ltd., Huida Electromechanical (Huizhou) Co., Ltd., Zhejiang Sanhua Co., Ltd., Foshan Tongbao Co., Ltd., Jiangsu Changheng Group Automatic Control Co., Ltd., Guangzhou Vkan Certification & Testing Institute, Pingdingshan Lianli Electromechanical Co., Ltd., Foshan Shunde Trispring Electric Industry Co., Ltd., Ningbo Ouz Electrical Co., Ltd., Wuhu Kowloon Controller Co., Ltd., Foshan Hualu Automatic Controls Co., Ltd., Hisense Kelon Electrical Holdings Co. Ltd., China Household Electric Appliance Research Institute, and Foshan Supervision Testing Center of Quality Metrology.

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The historical edition replaced by this Part is as follows.

Automatic Electrical Controls for Household and Similar Use - Particular Requirements for Automatic Electrical Pressure Sensing Controls Including Mechanical Requirements

1 Scope and Normative References

This Clause of GB 14536.1 is applicable except as follows.

1.1 Replacement

This Part applies to automatic electrical pressure sensing controls with a minimum gauge pressure rating of -60 kPa and a maximum gauge pressure rating of 4.2 MPa, for use in, on or in association with, equipment for household and similar use that may use electricity, gas, oil, solid fuel, solar thermal energy, etc. or a combination thereof, including heating, air-conditioning and similar applications.

1.1.1 Replacement

This Part applies to inherent safety, operating values, operating sequences where such are associated with equipment protection, and to the testing of automatic electrical pressure sensing controls used in, on or in association with, household and similar equipment.

NOTE: Throughout this Part, the word "equipment" means "appliance and equipment".

This Part does not apply to pressure sensing controls intended exclusively for industrial applications.

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