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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 17885-2016

Replacing GB 17885-2009

Electromechanical contactors for household and similar purposes

家用及类似用途机电式接触器

(English Translation)

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB 17885-2009 "Electrical contactors for household and similar use".

This standard compared with GB 17885-2009 main technical changes.

--- increase the use of category AC-7c (with compensated discharge lamp control of the off) and its related performance requirements and testing;

- Revised the requirements and test methods for dielectric properties;

- Revision of the signs and identification of the contactor terminals of Appendix A (normative);

- Revision of Appendix F (Normative Appendix) Rated impulse withstand voltage for contactor Nominal voltage and contactor for power supply system the value of the rated impulse withstand voltage;

- Added enclosure H (normative) enclosure protective rating of enclosed contactors;

- Added Appendix I (normative) Performance requirements and test methods for protective isolators with protective isolation.

This standard uses the translation method equivalent to IEC 61095..2009Ed2.0 "home and similar use electromechanical contactor".

And the normative reference in this standard international documents are consistent with the relationship between China's documents are as follows.

GB/T 4207-2012 Determination of electrical traces and resistance to traceability of solid

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insulating materials under wet conditions (IEC 60112.:2009, IDT);

Classification of electrical insulation heat resistance (IEC 60085.:2004, IDT); GB/T .

--- GB/T 11026 (all parts) Electrical insulation materials Heat resistance [IEC 60216 (all parts)];

Low - voltage switchgear and controlgear - Part 1. General (IEC 60947-1.:2011, MOD);

Low - voltage switchgear and controlgear - Part 4-1. Contactors and motor starters - Electromechanical - GB/T .

Type contactors and motor starters (including motor protector) (IEC 60947-4-1.:2009, MOD);

Low - voltage switchgear and controlgear - Part 5-1. Control circuits - Electrical and switchgear - GB 14048.5-2008.

Electric control circuit electrical appliances (IEC 60947-5-1.:2003, MOD);

Graphical symbols for equipment - Part 1. Generic symbols (ISO 7000.:2004, NEQ); GB/T 16273.1-2008.

GB/T 17627 (all parts) High voltage test technology for low voltage electrical equipment [IEC 61180 (all parts)].

This standard is technically consistent with IEC 61095-2009Ed2.0 and is subject to the following editorial modifications.

Due to IEC 60050-604. 1987 in the text does not specifically cited, so delete the reference file;

--- IEC 60529..2001Ed2.1 includes IEC 60529. 1989Ed2.0 and Amendment 1 (1999), so the standard Quoted by the IEC 60529.:2001 version of the corresponding national standard, user-friendly;

- IEC 60695-11-10..2003Ed1.1 includes IEC 60695-11-10..1999Ed1.0 and Amendment 1 (2003) Content, so in the standard reference IEC 60695-11-10.:2003 version of the corresponding national standard, user-friendly;

--- In accordance with the requirements of GB/T 1.1, in order to avoid the emergence of suspension, the 5.2.1 and 5.2.2 terms to the type of items;

- the suspension section under 5.3.3 and 5.3.5, 5.3.6, 6.1 and 7.1 was removed in accordance with the requirements of GB/T 1.1;

--- In order to maintain consistency before and after the text, see 8.1.11 see GB 4208-2008 to see Appendix H;

- the same temperature rise requirements for components that are not touched in normal

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operation in Table 5 are required to be merged together;

--- 8.2.3.1 in the column item to paragraph, and improve the relevant description;

For ease of reference, the tables in 9.3.3.5.2 are numbered 22;

--- Correct the typo of A.2.2.2 to change the "shunt release" to "undervoltage release".

This standard is proposed by China Electrical Equipment Industry Association.

This standard by the National Low Voltage Electrical Apparatus Standardization Technical Committee (SAC/TC189) centralized.

This standard is responsible for drafting units. Shanghai Electric Science Research Institute (Group) Co., Ltd., Shanghai Electric Research Institute.

This standard participates in the drafting unit. Shanghai Electric Branch Electric Technology Co., Ltd., Schneider Electric (China) Co., Ltd. Shanghai Branch, three letters International Electric Shanghai Co., Ltd., Shanghai Liangxin Electric Co., Ltd., Zhejiang Zhengtai Electric Co., Ltd., Zhejiang high and low voltage electrical appliances Product quality inspection center, Xiamen Hongfa Switch Equipment Co., Ltd.

1 Scope

This standard is suitable for home and similar use of electromechanical contactor, the main contact for connecting the rated voltage does not exceed the exchange of 440V (line Voltage), the use of class AC-7a under the rated operating current is less than or equal to 63A, the use of class AC-7b and AC-7c under the rated operating current Less than or equal to 32A, rated circuit limited to short circuit current less than or equal to 6kA.

The contactors involved in this standard are generally not used to break short-circuit current, so the equipment should be equipped with appropriate short-circuit protection (See 9.3.4).

This standard does not apply to the following appliances.

--- contactor according to IEC 60947-4-1;

--- semiconductor contactor;

--- special purpose contactor;

--- The auxiliary contact of the contactor, see IEC 60947-5-1 for its requirements.

This standard specifies.

a) the characteristics of the contactor;

b) contactor should meet the requirements.

1) operation and performance;

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2) Dielectric properties;

3) enclosure protection class (if applicable);

4) structure;

5) Electromagnetic compatibility.

c) verify the test and test methods used to meet the above requirements;

d) the number of test procedures and the number of samples;

e) Information that should be provided in the contactor or manufacturer's sample.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 2423.3-2006 Environmental testing for electric and electronic products - Part 2. Test methods - Test Cab. constant damp heat test (IEC 60068-2-78.:2001, IDT) GB/T 2900.71-2008 Electrical terminology Electrical installations (IEC 60050-826.:2004, IDT) GB/T 2900.83-2008 Electrotechnical terminology and magnetic devices (IEC 60050-151.:2001, IDT) GB/T 3398.2-2008 Determination of hardness of plastics - Part 2. Rockwell hardness (ISO 2039-2. 1987, IDT) GB/T 4025-2010 Basic and safety rules for identification of man-machine interface markings and coding rules for operating devices (IEC 60073.:2002, IDT) GB/T 4026-2010 Basic and safety rules for identification of man-machine interface markings Identification of equipment terminals and conductor terminals (IEC 60445.:2006, IDT) GB/T 4205-2010 Basic and safety rules for identification of man-machine interface markings (IEC 60447.:2004, IDT)

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