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

GB/T 13539.1-2015

Replacing GB 13539.1-2008

Low-voltage fuses -- Part 1: General requirements

低压熔断器 第1部分：基本要求

(English Translation)

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Foreword

This section 5.7.2 rated breaking capacity, insulation and isolation applicability 7.2, 7.5 breaking capacity, protection against electric shock 7.9, 8.2 insulation and isolation suitability verification, 8.5 breaking capacity verified as mandatory, others are recommended.

GB 13539 "Low-voltage fuses" currently consists of the following six sections.

--- Part 1. General requirements;

--- Part 2. Supplementary requirements for full-time personnel fuses (fuses mainly for industrial application) standardized systems of fuses

Example A through K;

--- Part 3. fuses for use by unskilled persons Supplementary requirements (fuses mainly for household and similar purposes) standard

Example of fuse system A to F;

--- Part 4. Supplementary requirements for protection of semiconductor devices fuse body;

--- Part 5. low voltage fuse Application Guide;

--- Part 6. solar photovoltaic system protection Supplementary requirements for fuse.

This is Part 1 GB 13539; the first section 2,3,4 and 6 GB 13539 in this section referred to under continuous part of the standard.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB 13539.1-2008 "Low-voltage fuses - Part 1. General requirements."

This part of GB 13539.1-2008 the main difference.

--- Table 13, "Other current rating fuse fuse the same test series between the maximum and minimum current rating and fuse subjects Number list "to add a fuse g sample. Original conventional non-fusing current test and the rated current test using the same test Product test, was replaced with a sample of each test;

--- 8.2.3 "Isolation suitability verification" in the original language of the first sentence the words "clearances and creepage distances should be measured by the size and voltage test authenticating. ";

--- Table 21 "breaking capacity test parameters DC fuse" time constant column, the former "15ms ~ 20ms", was replaced by. "Pre of current 20kA or more. 15ms ~ 20ms; prospective current 20kA and below. 0.5 (I) 0.3ms, tolerance 20 0% (I to A units) ";

--- Increase in Appendix E (normative) "has a special connection to external copper conductors without screw-type terminal to the fuse bases begging".

This section uses the translation method is equivalent to using IEC 60269-1:2009 "Low-voltage fuses - Part 1. General requirements." Consistency correspondence between this part of international documents and normative references of our files are as follows.

- GB/T 156-2007 standard voltage (IEC 60038:2002, MOD);
- GB 4208-2008 housing protection (IP Code) (IEC 60529:2001, IDT);
- GB/T 4687-2007 paper, cardboard, pulp and related terms (ISO 4046:2002, MOD);
- GB/T 13539.2-2015 Low-voltage fuses - Part 2. Supplementary requirements for full-time personnel fuse (mainly used Industrial fuses) examples of standardized systems of fuses A to K (IEC 60269-2:2013, IDT);
- GB 13539.3-2008 Low-voltage fuses - Part 3. unskilled personnel Supplementary requirements for fuses (mainly used Household and similar fuses) examples of standardized systems of fuses A to F (IEC 60269-3:2006, IDT);
- GB/T 13539.4-2009 Low-voltage fuses - Part 4. protection of semiconductor devices complement fuse requirements (IEC 60269-4:2006, IDT);
- GB/T 13539.5-2013 Low-voltage fuses - Part 5. Low-voltage fuses application guide (IEC 60269-5:2010, IDT);
- GB 16895.6-2000 Electrical installations of buildings - Part 5. Selection and erection of electrical equipment - Chapter 52. Wiring system EC (idtIEC 60364-5-52.1993);
- Insulation coordination GB/T 16935.1-2008 within the low-pressure system equipment - Part 1. Principles, requirements and tests (IEC 60664-1:2007, IDT).

This part made the following editorial changes.

- Delete tables, graphs and editorial comments under 2.1.12;
- References IEC 60127 English as "for small fuse tube fuse," inconsistent with the existing IEC versions, the English changed "IEC 60127 miniature fuses";
- Taking into account national circumstances, this part of filling out a statement on the exchange 1140V fuse in 1.1.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee fuse (SAC/TC340) centralized.

This section is responsible for drafting unit. Shanghai Electric Apparatus Research Institute, Shanghai Electric Technology Co., Ltd. Electric Division.

Participated in the drafting of this section. Shanghai Electrical Ceramics Co., Ltd., Ningbo electrical switches Manufacturing Co., Ltd., Xi'an fuses have Cooper Ltd., Zhejiang Chint