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

GB/T 13539.2-2015

Replacing GB/T 13539.2-2008

**Low-voltage fuses -- Part 2: Supplementary requirements for fuses for
use by authorized persons (fuses mainly for industrial application) --
Examples of standardized systems of fuses A to K**

低压熔断器 第2部分：专职人员使用的熔断器的补充要求（主要用于工业的熔断器）标准化熔断器系统示例A至K

(English Translation)

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Foreword

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 2 GB 13539's.

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

This Part replaces GB/T 13539.2-2008 "Low-voltage fuses - Part 2. full-time staff Supplementary requirements for fuses for use (primary to be used for industrial fuses) Examples of standardized fuses A to I ". This portion of the GB/T 13539.2-2008 main changes as follows.

- Fuse Systems A modified fuse power dissipation, increasing the fuse size r, size 000 technical parameters and the insulating portion Member proof tracking specific requirements;
- Fuse system B modified fuse power dissipation and increases the fuse size r;
- Fuse Systems C increases the heat resistance verification clause 8.9 and D-type fuse base bar diagram;
- Fuse system F modified fuse rated current, power dissipation and the rated breaking capacity;
- Fuse system B, D ~ increased 7.2 terms, clearly overvoltage category requirements;
- Fuse Systems Class T fuses H increases;
- Increased knife contact Fuse Systems J "CC class gD" and "CC class gN" characteristic Fuses and bolting systems K Head gK fuse.

This section uses the translation method is equivalent to using IEC 60269-2. Fuse used full-time staff. the 2013 "low-voltage fuses - Part 2 Supplementary requirements (mainly for industrial fuses) standardized systems of fuses A to sample K ".

The correspondence between the consistency of the international normative documents referenced in our country with the following documents.

- GB/T 4207-2012 solid insulating materials resistance to tracking index measurement method and comparative tracking index (IEC 60112.

2009, IDT);

Sulfur dioxide test --- GB/T 9789-2008 Metallic and other inorganic coatings general condensation (ISO 6988. 1985, IDT);

- GB 13539.1-2015 Low-voltage fuses - Part 1. General requirements (IEC 60269-1:2009, IDT);

--- Insulation coordination GB/T 16935.1-2008 within the low-pressure system equipment - Part 1. Principles, requirements and tests (IEC 60664-1:2007, IDT);

- GB 17464-2012 Connecting devices - Electrical copper conductors screw-type and screwless type clamping safety requirements apply to 0.2mm² or more to 35mm² (including) the general requirements of the wire clamp and special requirements (IEC

60999-1:1999, IDT);

--- GB/T 20636-2006 Connecting devices - Electrical copper wire threaded and non-threaded type clamping safety requirements apply 35mm² to 300mm² or more to the special requirements of wire (IEC 60999-2:2003, IDT).

This part made the following editorial changes.

Note in the original "National Committees may be selected from the above example --- one or more of the total range of the system as a mark of their own country Associate ", because this part equivalent to IEC standard, so this sentence is already superfluous, omitted;

--- Fuse system B in Figure B-type table 202 in two dimensions size code "w1" and "w2" in the same column suspected error, respectively A code to a column;

--- Fuse Systems C and D because the only relevant fuse base, does not involve power dissipation, it will be 8.3 title name "rise and consumption Scattered power verification "to" accept the power dissipation and temperature verification "; table 302 in terms of the name be amended accordingly;

--- Fuse system F in Figure 2 table 603 of size 8 x 32 and 10 x 38 In value, respectively 16A and 25A suspected Error, were changed to 25A and 32A;

--- Fuse system J in FIG. "5A" suspected misuse within 1007, to "6A".

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.

This section participated in the drafting unit. electrical switches Manufacturing Co., Ltd. Ningbo, Zhejiang and Jiangxi melting Electric Co., Ltd. People Electric Group Co., Ltd.

Secretary, Zhejiang Chint Electric Co., Ltd., Suzhou City Southern Light Electric Co., Ltd., the United States and Mickelson Electrical Protection Systems (Shanghai) Co., Ltd., Shanghai Siemens Circuit Protection Systems Ltd., hollyland (China) Electronic Technology Co., Ltd., Littelfuse Ltd., Wenzhou is three Electrical Appliance Co., Ltd. Fuse Cooper Xi'an, Shanghai electrical equipment detection.

1 Total range

Fuse professionals use generally designed to be used in order to close the only full-time staff as well as the replacement fuse device.

Unless otherwise specified in GB/T 13539 in this section, the fuse professionals meet the following system requirements to use fuses should break Co IEC 60269-1 clause

requirements.

This section consists of the following systems of fuses, each fuse system involves a specific example of a standard full-time staff to use.

- Fuse system A. knife type contact fuse (NH fuse system);
- Knife type contact fuse with the impactor (NH fuse system);. --- Fuse Systems B
- Fuse system C. bar fuse bases (NH fuse system);
- Fuse system D. Fuse base busbar installation (NH fuse system);
- Fuse system E. bolted fuse (BS bolted fuse system);
- Fuse system F. cylindrical cap fuse (NF cylindrical cap fuse system);
- Fuse system G. Offset touch knife fuse (BS fuse clamping system);
- Fuse Systems H. "gD" and "gN" characteristic Fuse (J type, T type and class L time delay and non-delay fuse type);
- Fuse system I. gU wedge contact fuse;
- Fuse Systems J. "CC class gD" and "CC class gN" characteristic Fuse (CC class delay and non-delay fuse type);
- Fuse Systems K. Knife gK contact bolted fuse (from 1250A to 4800A main fuse high current rating Off the body).

Note: The above system is the standardized fuse system about its safety.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

IEC 60112 solid insulating materials resistance to tracking index and comparative tracking index method of measurement
(Method for the determination of the proof and the comparative tracking indices of solid insulating materials) IEC 60269-1 Low-voltage fuses - Part 1. General requirements
(Low-voltage fuses - Part 1. General requirements) IEC 60664-1 within low-voltage systems with insulated equipment - Part 1. Principles, requirements and tests (Insulation coordination for equipment within low-voltage systems - Part 1. Principles, requirements and tests) IEC 60999 (all parts), Connecting devices - Electrical copper conductors are threaded and safety requirements screwless type clamping units (all parts)
(Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units) IEC 60999-1 Connecting devices - Electrical copper