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

**GB/T 10233-2016**

Replacing GB/T 10233-2005

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**Basic testing method for low-voltage switchgear and  
controlgear assemblies**

低压成套开关设备和电控设备基本试验方法

**Issued on: February 24, 2016**

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Standardization Administration of China**

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### Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. This standard instead of GB/T 10233-2005 "low-voltage switchgear and electrical control equipment basic test method", and GB/T 10233- 2005, the main technical changes are as follows:

--- the contents of the test of the empty shell of the complete set of equipment; - Added the measurement of the electrical clearance and creepage distances in Appendix A, removing the contents of the original appendices A, B, C and D. This standard is proposed by China Electrical Equipment Industry Association. This standard by the National Low Voltage Switchgear and Control Equipment Standardization Technical Committee (SAC/TC266) centralized. The drafting unit of this standard. Tianjin Electric Science Research Institute Co., Ltd., the State Electric Control Power Distribution Equipment Quality Supervision and Inspection Center, Tianjin days Electric Control Distribution Co., Ltd., China Quality Certification Center, Hangzhou Xin Mei complete sets of electrical manufacturing Co., Ltd., Chengdu Branch Star Power Electric Co., Ltd., Zhejiang Qunli Electric Co., Ltd., Shandong Lveng Liyuan Electrical Equipment Co., Ltd., Yiwu Octagon Power Equipment Manufacturing Co., Ltd., Zhejiang Pro High Electric Industrial Co., Ltd., Zhuhai Special Economic Zone Guangda Electrical Equipment Co., Ltd. The main drafters of this standard. Wang Chunwu, Zhang Qing, Chen Jian, Han Dongming, Zhang Lei, Wang Sha, Ma Xiaoping, Ouyang Tong, Hu Xiang, Jia Hui, Ling Si, Maobo East. This standard replaced the previous version of the standard release. GB/T 10233-1988, GB/T 10233-2005. Low voltage switchgear and electronic control equipment Basic test method

### 1 Scope

GB/T 10233-2016 is the Chinese national standard on basic testing method for low-voltage switchgear and controlgear assemblies, in the field of electrical engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is

how most foreign buyers meet it. It was issued on 24 February 2016 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 September 2016. Classification: ICS 29.120.60, CCS K31. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the basic requirements of low-voltage switchgear and electronic control equipment (hereinafter referred to as complete sets of equipment) type test and factory test method. This standard applies to the test items specified in GB 7251.1-2013 and GB/T 3797.

## 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 2423.2-2008 Environmental testing for electric and electronic products - Part 2. Test methods - Test B. High temperature (

IEC 60068-2- 2..2007, idt)

GB/T 2423.4-2008 Environmental testing for electric and electronic products - Part 2. Test methods - Test Db alternating damp heat (12 h 12h cycle) (

IEC 60068-2-30..2005, idt)

GB/T 2423.17-2008 Environmental testing for electric and electronic products - Part 2. Test methods Test Ka. Salt mist (

IEC 60068-2-11. 1981, idt)

GB/T 2423.55-2006 Environmental testing for electric and electronic products - Part 2. Test methods - Test Eh. Hammer test Electrical control equipment GB/T 3797

GB/T 4205 Human Machine Interface Marking Basics and Safety Rules Operating Rules ( IEC 60447..2004, idt)

GB 4208 enclosure protection class (IP code) ( IEC 60529..2001, idt)

GB/T 5169.10 Electrical and electronic products - Fire hazard test - Part 10. Glow wire/hot wire basic test method Glowing wire Set and universal test methods

GB/T 5169.11 Fire hazard testing for electric and electronic products - Part 11. Basic test methods for glowing wire/hot wire Test method for flammability of hot filaments

GB 7251.1-2013 low-voltage switchgear and control equipment ( IEC 61439-1..2011)

GB/T 9341 Determination of bending properties of plastics

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