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

GB/T 7251.4-2017

Replacing GB/T 7251.4-2006

**Low-voltage switchgear and controlgear assemblies -- Part 4:
Particular requirements for assemblies for construction sites
(ACS)**

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Foreword

GB/T 7251 "Low-voltage switchgear and control equipment" is planned to release the following parts.

- Part 1. General;
- Part 3. Switchboards (DBO) operated by general personnel;
- Part 4. Special requirements for complete sets of equipment for construction sites (ACS);

- Part 5. Electrical power distribution equipment for public utilities;
- Part 6. Busbar trunking system (busbar trunking);
- Part 7. Complete sets of equipment for specific applications---such as docks, campsites, market squares, electric vehicle charging stations;
- Part 8. General technical requirements for intelligent complete sets of equipment;
- Part 10. Guidelines for specifying complete sets of equipment;
- Part 12. Complete sets of power switches and control equipment.

This part is the fourth part of GB/T 7251.

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

This part replaces GB/T 7251.4-2006 "Low-voltage switchgear and control equipment - Part 4. Complete sets for construction sites

The special requirements of the preparation (ACS), compared with GB/T 7251.4-2006, the main technical changes are as follows.

- The contents of the structure and technology are adjusted according to GB/T 7251.1-2013;
- Allow comparison with ACS that has been tested.

This section is used in conjunction with GB/T 7251.1-2013. The general provisions of GB/T 7251.1-2013 are only applicable to this section.

The scope of the reference. If chapters and bars, tables, figures and appendices of the application are applied, they are indicated by reference to GB/T 7251.1-2013, for example,

1.2.3 of GB/T 7251.1-2013, Table 4 of GB/T 7251.1-2013, or Appendix A of GB/T 7251.1-2013.

Articles with numbers 101, 102, 103, etc. are additional terms of the same clause in GB/T 7251.1-2013.

The new tables and diagrams in this section are counted starting from 101.

The new appendices in this section are named after the letters AA, BB, etc.

This part uses the translation method equivalent to IEC 61439-4:2012 "Low-voltage switchgear and control equipment Part 4. For construction

Special Requirements for Site Equipment (ACS).

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

--- GB/T 19212.24-2005 Safety of power transformers, power supply units and similar products - Part 24. Construction site

Special requirements for transformers (IEC 61558-2-23:2000, MOD)

This part was proposed by China Electrical Equipment Industry Association.

This part is under the jurisdiction of the National Low Voltage Switchgear and Control Equipment Standardization Technical Committee (SAC/TC266).

This section drafted by. Tianjin Electric Science Research Institute Co., Ltd., National Electric Control and Distribution Equipment Quality Supervision and Inspection Center (Tianjin Tianchuan

Electronic Control Equipment Testing Co., Ltd.), Chengdu Product Quality Supervision and Inspection Institute, Tianjin Tianchuan Electric Control Distribution Co., Ltd., Hangzhou Jiuchuan Electric Co., Ltd.

Company, Tianjin Jiu'an Group Co., Ltd., Hunan Electric Apparatus Research Institute, Borui Electric Co., Ltd., Cixi Qiguo Electric Co., Ltd., Ningxia

Licheng Electric Group Co., Ltd.

1 Scope

Note. In this section, the acronym ACS (Complete Equipment for Construction Sites, see 3.1.101) refers to the low voltage switch intended for use on buildings and similar sites.

Equipment and control equipment.

This part of GB/T 7251 defines the special requirements of ACS.

--- Complete set of equipment with rated voltage AC not exceeding 1000V or DC not exceeding 1500V;

--- The nominal primary voltage and nominal secondary voltage of the transformer in the ACS are within the limits specified above;

--- Planned for construction sites, indoors and outdoors, such as temporary workplaces and construction, installation, repairs that the public generally does not enter

Demolition or alteration of property, property (buildings), civil engineering (public buildings), excavation or any similar workplace;

--- Transportable (semi-fixed) or mobile enclosures.

Manufacturing and/or assembly may be performed by manufacturers other than the original manufacturer.

This section does not apply to individual devices and self-contained components that

conform to their respective product standards, such as motor starters, fuse switches, electronic components.

Prepare.

This section does not apply to administrative centers (offices, changing rooms, complete equipment rooms, canteens, restaurants, dormitories, toilets, etc.) on construction sites.

Complete equipment used.

The electrical protection requirements provided by the equipment manufactured in accordance with this section are given in GB/T 16895.7.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Chapter 2 of GB/T 7251.1-2013 is applicable except as follows.

increase.

GB/T 2423.19-2013 Environmental testing - Part 2. Test methods Tests Kc. sulphur dioxide test for contact points and joints

Inspection (IEC 60068-2-42.2003, IDT)

GB/T 7251.1-2013 Low-voltage switchgear and control equipment - Part 1. General (IEC 61439-1.2011, IDT)

GB/T 16895.7-2009 Low-voltage electrical installations - Part 7-704. Requirements for special installations or locations

Electrical installation (IEC 60364-7-704.2005, IDT)

GB/T 17045-2008 General part of electric shock protection devices and equipment (IEC 61140.2001, IDT)

IEC 60068-2-27.2008 Environmental testing - Part 2-27. Test test Ea and guide. Impact (Environmentaltes-

ting-Part 2-27. Test-TestEaandguidance. Shock)

IEC 61558-2-23 Safety of power transformers, power supply units and similar products - Part 2-23

Special requirements (Safetyoftransformers, reactors, powersupplyunitsandcombinationsthereof-Part 2-23.