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

GB/T 7251.3-2017

Replacing GB/T 7251.3-2006

**Low-voltage switchgear and controlgear assemblies -- Part 3:
Distribution boards intended to be operated by ordinary
persons (DBO)**

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2 and 3 0.8	
4 and 5 0.7	
6 to 9 (including 9) 0.6	
10 and above 0.5	
2.8 ≤ 3.0	
3.0 ≤ 3.2	
3.2 ≤ 3.6	
3.6 ≤ 4.1	
4.1 ≤ 4.7	
4.7 ≤ 5.3	
5.3 ≤ 6.0	
6 ≤ 8	

8 \u003cd<=10
10 \u003cd<=12
12 \u003cd<=15
15 \u003cd<=20
20 \u003cd<=24

Foreword

GB/T 7251 "Low-voltage switchgear and control equipment" is divided into 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 third 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 7251.3-2006 "Low-voltage switchgear and control equipment Part 3. For non-professionals

Low-voltage switchgear and control equipment entering the site---Special requirements for switchboards, compared with GB/T 7251.3-2006

The changes are as follows.

- The structure and technical parts are adjusted according to GB/T 7251.1-2013.

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 the chapters and bars, tables, figures and appendices of the General Regulations 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 61439-3:2012 "Low-voltage switchgear and control equipment Part 3. by general

Personnel operated switchboard (DBO).

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

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

(IEC 60068-2-75:1997, IDT);

--- GB/T 10963.1-2005 Electrical accessories - Use of overcurrent protection circuit breakers for household and similar . Part 1.

Flow circuit breaker (IEC 60898-1:2002, IDT);

---GB/T 22794-2008 B-type residual current operated circuit breaker without and with overcurrent protection for household and similar purposes

(Type B RCCB and Type B RCBO) (IEC 62423..2007, IDT).

This section has made the following editorial changes.

--- This section is included in the contents of the international standard amendments.

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).

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1 Scope

This part of GB/T 7251 defines the specific requirements of the switchboard (DBO) operated by the general personnel.

DBO has the following conditions.

- intended to be operated by general personnel (such as switching operations and replacement fuses), for example in civilian (home) applications;
- Outgoing circuit contains protection devices that are intended to be operated by ordinary personnel and meet the following standards, such as IEC 60898-1, IEC 61008, IEC 61009, IEC 62423 and IEC 60269-3;
- The rated voltage to the ground does not exceed 300V AC;
- The rated current (I_{nc}) of the outgoing circuit does not exceed 125A and the rated current (I_{nA}) of the DBO does not exceed 250A;
- intended to be used for power distribution;
- Closed, fixed installation;
- For indoor or outdoor use.

The DBO can include control and/or signaling devices associated with power distribution.

This section applies to all DBOs, whether they are designed, manufactured and validated at one time, or fully standardized for mass production.

The DBO can be assembled outside of the original manufacturer's factory.

This section does not apply to individual devices and self-contained components that comply with their respective product standards, such as circuit breakers, knife fuse switches, and electronic components.

Prepare.

This section does not apply to specific types of equipment included in other parts of GB/T