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

GB 7251.12-2013

**[GB/T 7251.12-2013] Low-voltage switchgear and controlgear
assemblies -- Part 2: Power switchgear and controlgear
assemblies**

(English Translation)

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Table of Contents

Foreword...	3
Introduction...	5
1 Scope...	6
2 Normative references...	7
3 Terms and definitions...	7
4 Symbols and abbreviations...	9
5 Interface characteristics...	10
6 Information...	10
7 Service conditions...	10
8 Constructional requirements...	10
9 Performance requirements...	14
10 Design verification...	14
11 Routine verification...	15
Appendixes...	19
Appendix AA (informative) Forms of internal separation (see 8.101)...	20

Foreword

All technical content of this part is mandatory.

GB 7251 Low-voltage switchgear and controlgear assemblies is divided into the following parts:

- Part 0: Requirements manual for low-voltage switchgear and controlgear assemblies
- Part 1: General rules
- Part 2: Power switchgear and controlgear assemblies
- Part 3: Distribution boards intended to be operated by ordinary persons (DBO)1)
- Part 4: Particular requirements for assemblies for construction sites (ACS)2)
- Part 5: Assemblies for power distribution in public networks
- Part 6: Busbar trunking systems (busways)
- Part 7: Assemblies for specific applications such as marinas, camping sites,

market squares, electric vehicle charging stations

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This part is Part 2 of GB 7251.

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

This part was translated and is identical to IEC 61439-2:2011 Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies.

The Chinese documents that have consistent correspondence with the international documents normatively cited in this part are as follows:

-- GB/T 17045-2008 Protection against electric shock - Common aspects for installation and equipment (IEC 61140:2001, IDT)

The following editorial changes have been made to this part:

-- "This standard" is changed to "this part";

-- The decimal point symbol "." is used instead of the symbol ",";

1) This part is applying for project approval.

2) This part is applying for project approval.

-- The preface of the international standard is deleted.

This part was proposed by China Electrical Equipment Industry Association.

This part shall be under the jurisdiction of the National Technical Committee on Low-voltage Switchgear and Controlgear Assemblies of Standardization Administration of China (SAC/TC266).

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Co., Ltd., Guangdong Zhujiang Switchgear Co., Ltd., Shanghai Najie Complete Sets of Electrical Equipment Co., Ltd., Suzhou Electrical Apparatus Science Academy Co., Ltd., Gansu Electric Appliance Research Institute Co., Ltd. (formerly Gansu Electric Appliance Science Institute), Guangzhou Baiyun Electric Equipment Co., Ltd., Anhui Xinlong Electric Appliance Co., Ltd., Chengdu Kexing Electric & Electronic Co., Ltd., Zhucheng Kexin Power Engineering Co., Ltd., Juche (Zhejiang) Science-technology Co., Ltd., Xiamen Minghan Electric Co., Ltd., Guangzhou Southern Power Group Electric Apparatus Co., Ltd., Chongqing Shineng Power Equipment Co., Ltd., Jiangsu Modern Electric Technology Co., Ltd., Hangzhou Zhijiang Switchgear Stock Co., Ltd., Ningbo Tianan (Group) Co., Ltd., Zhejiang Yaoming Power Equipment Co., Ltd., Tianjin Tianchuan Yingke Technology Development Co., Ltd., Shanghai Upun Electric (Group) Co., Ltd., Wenzhou Zhongyi Lockset Electric Co., Ltd., Huapeng Group Co., Ltd., Shenzhen Qihui Electric Co., Ltd., Yuyao Electric Power Equipment Repair and Manufacturing Factory, China Coal Electric Co., Ltd., Zhenjiang klockner Moeller Electrical Systems Co., Ltd.

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Low-voltage switchgear and controlgear assemblies - Part 2:

Power switchgear and controlgear assemblies

1 Scope

This part of GB 7251 defines the specific requirements of power switchgear and controlgear assemblies (PSC-ASSEMBLIES) as follows:

-- ASSEMBLIES for which the rated voltage does not exceed 1000 V in case of a.c. or 1000 V in case of d.c.;

- Stationary or movable ASSEMBLIES with or without enclosure;
- ASSEMBLIES intended for use in connection with the generation, transmission, distribution and conversion of electric energy, and for the control of electric energy consuming equipment;
- ASSEMBLIES designed for use under special service conditions, for example in ships and in rail vehicles provided that the other relevant specific requirements are complied with;
- ASSEMBLIES designed for electrical equipment of machines. Supplementary requirements for ASSEMBLIES forming part of a machine are covered by the IEC 60204 series.

This standard applies to all ASSEMBLIES whether they are designed, manufactured and verified on a one-off basis or fully standardized and manufactured in quantity.

The manufacture and/or assembly may be carried out other than by the original manufacturer (see 3.10.1).

This standard does not apply to individual devices and self-contained components, such as motor starters, fuse switches, electronic equipment, etc. which will comply with the relevant product standards. This standard does not apply to the specific types of ASSEMBLIES covered by other parts of GB 7251. For ASSEMBLIES not covered by other parts, this part applies.

NOTE 1: Throughout this part, the abbreviation PSC-ASSEMBLY (see 3.1.101) is used for a power switchgear and controlgear ASSEMBLY.

NOTE 2: Supplementary requirements for ASSEMBLIES in ships are covered by IEC 60092-302. be complied with in the different positions as well as during transfer from one position to another.

Additional subclauses:

8.5.2.101 Withdrawable parts

Withdrawable parts shall have in addition an isolated position (see 3.2.103) and may have a test position (see 3.2.102), or a test situation (see 3.1.102). They shall be