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

GB/T 5273-2016

Replacing GB/T 5273-1985

**Dimensional standardisation of terminals for high-voltage
apparatus**

(English Translation)

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Foreword

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

This standard replaces GB/T 5273-1985 "Terminals for transformers, high voltage electrical appliances and sleeves".

The main technical differences between this standard and GB/T 5273-1985.

- Terminals are removed from the terms and definitions, with high voltage terminals and terminal connectors added (see Chapter 2);
- modify the dimensions of the terminal (see 1985 version 3.2) by modifying the dimensions in the type and size, such as a2 (see 3.3);
- Removed single-hole type terminals in type and size (see 1985 version 3.2), with screw-shaped terminals and 16-hole plate terminals (See 3.3);

- The recommended value of the connection terminal size and its connection method for the rated current selection is given in Appendix A and Appendix B "Terminals (See Appendix A, Appendix B, 1985).

This standard uses the re-drafting method to modify the use of IEC/T R62271-301..2009 "High Voltage Switchgear and Control Equipment Part 301 Points. high-voltage terminal size standardization. " the main technical differences between this standard and IEC/T R62271-301..2009.

- to increase the normative reference documents GB/T 14315-2008, GB 50149-2010;

--- According to China's actual, in the type and size of the screw-shaped terminals, screw-shaped terminals and sixteen-hole plate-shaped terminals;

- according to our actual situation, in the plate-shaped terminal to increase the hole center to the edge of the vertical recommended size a1, hole center to the root of the longitudinal Size a2;

--- According to China's reality, in some of the board-shaped terminal to increase the size of phi18 x 60;

--- According to China's needs, an increase of "Chapter 4 technical requirements." this standard has made the following editorial changes.

--- Standard name is changed from "High voltage switchgear and control equipment Part 301. High voltage terminal size standardization" to "High voltage electrical appliances Terminal size standardization ".

This standard is proposed by China Electrical Equipment Industry Association.

This standard by the National High Voltage Switchgear Standardization Technical Committee (SAC/TC65) centralized.

This standard is responsible for drafting units. Pinggao Group Co., Ltd.

This standard participates in the drafting unit. Xi'an High Voltage Electric Appliance Research Institute Co., Ltd., Xi'an Xidian Switch Electric Co., Ltd., Huayi Electric Co., Ltd., Beijing Branch Rui Power Distribution Automation Co., Ltd., the new Northeast Electric Group High Voltage Switch Co., Ltd., Cooper (Ningbo) Co., Ltd., Fujian Zhongneng Electric Co., Ltd., Zhejiang Switchgear Co., Ltd., Henan Senyuan Electric Co., Ltd., Beijing Beikai Electric Co., Ltd., Qingdao Terui De Electric Co., Ltd., Shandong Taikai High Voltage Switchgear Co., Ltd., Jiangsu Huaguan Electric Group Limited company, Yihe Electric Group Co., Ltd.

1.1 Scope

This standard specifies the type and size and technical requirements of high voltage electrical terminals.

This standard applies to indoor and outdoor voltage of 3000V and above the system of high-voltage electrical high-voltage terminals. But do not rule it out Applies to other devices. This standard does not provide a fit between the terminal size and the rated current.

This standard applies primarily to the following equipment.

--- Power transformers (including their low side terminals);

--- casing (including through the wall casing, high voltage switchgear and transformer casing, etc.);

High voltage circuit breaker

--- high voltage isolating switch;

--- high pressure load switch;

--- high voltage grounding switch;

--- bypass switch;

High pressure automatic recloser;

--- high-pressure automatic segmentation device;

High voltage fuses

--- high voltage load switch - fuse combination of electrical appliances;

--- high voltage contactor - fuse combination of electrical appliances;

--- metal-enclosed switchgear;

High voltage/low voltage preloaded substation;

Gas insulated metal - enclosed switchgear (GIS);

--- composite combination of electrical (H-GIS);

--- Open combination (C-AIS);

--- metal enclosed bus;

--- cable distribution box;

--- current transformer (not including its secondary terminal);

--- current limiting reactor and so on.

This standard also applies to the following equipment.

Grounding switch, power capacitor, arrester and high voltage contactor;

--- other transformers other than power transformers (eg electric furnace transformers, rectifier transformers, test transformers, etc.), voltage transformers, and Joint reactor

--- protection of voltage transformers and power capacitors of high-voltage fuses;

High voltage power cable.

Note: The DC switchgear, ground and only for the use of potential connection terminals are also applicable to this standard.

High-voltage power cable conductor with pressure-type copper, aluminum terminals included in the GB/T 14315-2008, the electrical installation of engineering bus the terminals are included in GB 50149-2010.

Where the special requirements beyond the scope of this standard, by the user consultation with the manufacturer.