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

GB/T 17468-2019

Replacing GB/T 17468-2008

Guide for choice power transformers

电力变压器选用导则

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 17468-2008 "Guidelines for the Selection of Power Transformers". Compared with GB/T 17468-2008, the main technical changes The transformation is as follows:

- The scope and normative references have been modified and improved (see Chapters 1 and 2);
- Modified and supplemented the conditions of use (see Chapter 3);
- Modified and supplemented the general principles and technical requirements of the selected transformer (see Chapters 4 and 5);

--- Increased the relevant content of the transformer's ability to withstand short circuits (see Chapter 8);

--- Added relevant content for transformer non-electricity protection (see Chapter 9);

--- Added relevant content for transformer main materials (see Chapter 10);

--- Added relevant content on transformer components and parts (see Chapter 11);

--- Added relevant content for transformer operation and maintenance (see Chapter 12);

--- Added relevant content on transformer selection (see Chapter 13);

--- Added relevant content on transformer technology economic evaluation (see Chapter 14);

--- Increased the content of inquiry and bidding (see Chapter 17). This standard was proposed by the China Electrical Equipment Industry Association. This standard is under the jurisdiction of the National Transformer Standardization Technical Committee (SAC/TC44). This standard was drafted. Shenyang Transformer Research Institute Co., Ltd., China Electric Power Research Institute Co., Ltd., Mingzhu Electric Co., Ltd. Co., Ltd., TBEA Shenyang Transformer Group Co., Ltd., Xi'an Xidian Transformer Co., Ltd., Baoding Tianwei Baobian Electric Co., Ltd. Co., Ltd., TBEA Hengyang Transformer Co., Ltd., Shandong Transmission and Transformation Equipment Co., Ltd., Jiangsu Huapeng Transformer Co., Ltd., State Grid Ji Electric Power Research Institute of Forestry Electric Power Co., Ltd., Transformer Electric Co., Ltd. Xinjiang Transformer Plant, Haihong Electric Co., Ltd., Southern Power Network Science Research Institute Co., Ltd., Guangdong Power Grid Co., Ltd. Electric Power Research Institute, Guangdong Keyuan Electric Co., Ltd., Jiangsu Hua Chen Transformer Co., Ltd., Jiangxi Gandian Electric Co., Ltd., Zhejiang Jiangshan Transformer Co., Ltd., Wolong Electric Yantai Dongyuan Substation Press Co., Ltd., Jiangxi Mingzheng Transformer Equipment Co., Ltd., Lute Electric Co., Ltd., Jubang Group Co., Ltd., State Grid Jiangxi Provincial Power Electric Power Research Institute. The main drafters of this standard. Jiang Yimin, Zhang Xianzhong, Fu Chao, Cai Dingguo, Cheli, Zhangliang County, Cheng Congming, Liu Jinbo, Wang Mingsheng, Zhou Guowei, Zhao Chunming, Ma Xuping, Meng Jie, Liang Qingning, Lei Yuanyuan, Lin Chunyao, Qiu Guoxing, Xu Jian, Zhang Aimin, Jiang Zhenjun, Kong Feifan, Wu Jinxin, Zhang Lingjian, Li Dezhi and Zhou Qiukuan. The previous versions of the standards replaced by this standard are.

--- GB/T 17468-1998, GB/T 17468-2008. Selection Guide for Power Transformer

1 Scope

GB/T 17468-2019 is the Chinese national standard on guide for choice power transformers, 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 10 December 2019 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2020. Classification: ICS 29.180, CCS K41. 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 general principles and relevant requirements for the selection and use of power transformers. This standard is applicable to guide the rational selection and use of power transformers in power planning and design. When the user chooses a transformer, You can refer to this standard to determine the type, technical parameters, technical performance, maintenance strategy and contract of the transformer.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 321-2005 priority number and priority number system

GB/T 1094.1 Power transformers Part 1. General

GB/T 1094.2-2013 Power transformers Part 2. Temperature rise of liquid-immersed transformers

GB/T 1094.3 Power transformers Part 3. Insulation level, insulation test and external insulation air gap

GB/T 1094.5-2008 Power transformers Part 5. Ability to withstand short circuits

GB/T 1094.7 Power transformers. Part 7. Load guidelines for oil-immersed power transformers

GB/T 1094.10 Power transformers. Part 10. Determination of sound level

GB/T 1094.11 Power transformers Part 11. Dry-type transformers

GB/T 1094.12 Power transformers. Part 12. Load guidelines for dry-type power transformers GB /Z 1094.14 Power transformers. Part 14. Design and application of liquid-immersed transformers using high-temperature insulation materials

GB 3096 Acoustic Environment Quality Standard

GB/T 4109 Insulation bushing with AC voltage higher than 1000V

GB/T 6451 oil-immersed power transformer technical parameters and requirements

GB/T 7595 transformer oil quality in operation

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