

ICS 29.080.20

CCS K48



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

GB/T 13026-2017

Replacing GB/T 13026-2008

Types and dimensions of a.c.capacitance graded bushings

交流电容式套管型式与尺寸

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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 13026-2008 "AC Capacitive Bushing Types and Dimensions", compared with GB/T 13026-2008, mainly The technical changes are as follows:

---Supplemented dry-type transformer bushings, oil-SF6 bushings (including oil-immersed and dry-type structures); added 1100kV Grade size related to casing;

--- The new model formulation method has been used to define the type of each type of casing;

--- Simplified the original definition of the size of the general type of casing, standardized universal interface size, to facilitate the versatility and promotion.

--- Added Appendix A (informative annex) to the AC capacitive bushing model specified in GB/T 13026-2008 Ming, in order to compare the old and new models. This standard was proposed by the China Electrical Appliance Industry Association. This standard is under the jurisdiction of the National Insulator Standardization Technical Committee (SAC/TC80). This standard was drafted by: Nanjing Electric (Group) Co., Ltd., Xi'an High Voltage Electrical Apparatus Research Institute Co., Ltd., China Electric Power Branch Institute of Science and Technology, National Insulator Surge Arrester Quality Supervision and Inspection Center, Xi'an Xideng High Voltage Sleeve Co., Ltd., Suzhou Electric Porcelain Factory Co., Ltd., TBEA Shenyang Transformer Group Co., Ltd. Electrical Components Branch, Legend Electric (Shenyang) Co., Ltd., Baoding Tianwei Baochang Electric Co., Ltd., Fuling Huaxin Electric Porcelain Technology Co., Ltd., Beijing Nordwell Power Technology Development Co., Ltd., Nanjing Zhida Electric Gas Co., Ltd., Xi'an Xidian Transformer Co., Ltd., Beijing Pan-American Rete Technology Co., Ltd. The main drafters of this standard. He Ping, Liu Zhiqiang, Li Qingfeng, Yao Junrui, Shi Yubing, Wei Peng, Wu Guangya, Zhao Hui, Hou Jianfeng, Lu Zhou, Wen Zheng, Song Yili, Guo Mansheng, Yang Xuefeng, Wang Hao, Yan Yuhao, Zhao Wei, and Sun Wenfeng. The previous versions of the standards replaced by this standard are.

---GB/T 13026-1991, GB/T 13026-2008;

--- GB/T 13027-1991. AC Capacitor Bushing Types and Sizes

1 Scope

GB/T 13026-2017 is the Chinese national standard on types and dimensions of a.c.capacitance graded bushings, 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 29 December 2017 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 July 2018.

Classification: ICS 29.080.20, CCS K48. 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 terms and definitions, structure types and dimensions of AC capacitive bushings. This standard applies to rated voltage 40.5kV ~ 1100kV, rated current is less than 6300A, frequency 15Hz ~ 60Hz three-phase Capacitive bushings used in flow systems. These capacitive bushings include.

---Wall bushing;

--- Outlet bushings for equipment, such as transformer bushings, reactor bushings, etc.

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 version (including all amendments) applies to this document.

GB/T 2900.8-2009 Electrical terminology insulators

GB/T 4109-2008 Insulating tube with AC voltage higher than 1000V

GB/T 5273 Standardization of terminal dimensions for high voltage electrical equipment

GB/T 22382 Direct connection between gas insulated metal-enclosed switchgear and rated voltage 72.5kV and above

GB/T 26218.1-2010 Selection and size determination of high-voltage insulators for use in dirty conditions Part 1. Definitions, information And general principles

GB/T 26218.2 Selection and sizing of high voltage insulators for use in dirty conditions. Part 2. Porcelain and glass for AC systems Glass insulator

GB/T 26218.3 Selection and sizing of high-voltage insulators for use in filthy conditions -
Part 3. Composite systems for AC systems Margin

JB/T 9683-2012 Insulator Product Modeling Method

3 Terms and Definitions

The following terms and definitions as defined in GB/T 2900.8-2009 and GB/T 4109-2008 apply to this document.

3.1 Dry sleeve dry-type bushing The main insulating core is resin-impregnated with a resin-made bushing made of a solid material such as insulating paper (or fiber roll) or cast (or molded) organic material.

Note. The type of bushings such as glue-impregnated paper sleeves, rubber-impregnated fiber sleeves and cast or molded resin insulated sleeves defined in GB/T 4109-2008 are dry casing.

4.1 General characteristics of casing

4.1.1 External insulation properties Outer casing insulation umbrella structure should comply with GB/T 26218.2 or GB/T 26218.3 regulations. Different site contamination levels