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CCS K45



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

GB/T 15145-2017

Replacing GB/T 15145-2008

**General specification for transmission line protection
equipment**

输电线路保护装置通用技术条件

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Quarantine of the People's Republic of China;
Standardization Administration of China**

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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 15145-2008 "general technical conditions for transmission line protection device", compared with GB/T 15145-2008, In addition to editorial changes, the main technical changes are as follows:

--- Updated standard normative references;

--- The power consumption of the device, overload and other requirements refer to DL/T 478-2013 "relay protection and safety automatic device General Technology Article Piece" has been updated;

--- Increased transmission line protection device in the smart substation in the application of the relevant technical requirements;

--- Increased intelligent substation and transmission line protection devices such as switches, mergers, smart terminals and other devices based This requirement. Please note that some of this document may be patentable. The issuing agencies of this document do not bear the responsibility of identifying these patents. This standard proposed by the China Electricity Council and centralized. This standard drafting unit. State Power Nanjing Automation Co., Ltd., Nanjing Nari-following Electric Co., Ltd., China Southern Power Grid Dispatching Control Center, China Electric Power Research Institute, Zhejiang Power Dispatching Control Center, Shandong Power Dispatching Control Center, North China Electric Power Research Institute Institute, Beijing Sifang Automation Co., Ltd., Xu Ji Electric Co., Ltd., State Science and Technology Research Institute. The main drafters of this standard.Chen Foufeng, Zhao Qingchun, Li Zhenghong, Tang Yi, Qian Jianguo, Li Naiyong, Xue Mingjun, Zhang Jie, Su Liming, Li Bao Wei, Yin Yu, Zhang Yuepin, Ni Chuankun, Qian Guoming. This standard replaces the standards previously issued version of the situation.

--- GB/T 15145-1995, GB/T 15145-2001, GB/T 15145-2008. General requirements for

transmission line protection

1 Scope

GB/T 15145-2017 is the Chinese national standard on general specification for transmission line protection equipment, 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 31 July 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 February 2018. Classification: ICS 29.240, CCS K45. 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 transmission line relay protection device (hereinafter referred to as "device") technical requirements, test methods, inspection rules and standards Chi, packaging, transportation, storage and quality assurance deadlines and other requirements. This standard applies to 110kV and above neutral grounding system of AC transmission line relay protection devices, as such devices Development, design, manufacture, test, inspection and application of the basis.

2 Normative references

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

GB/T 191 Packaging - Pictorial signs

GB/T 2423.1 Environmental testing for electric and electronic products Part 2. Test methods Test A. Low temperature

GB/T 2423.2 Environmental testing for electric and electronic products Part 2. Test methods Test B. High temperature

GB/T 2423.3 Environmental testing for electric and electronic products Part 2. Test methods Test Cab. Constant hot and humid test General specifications for computerized premises

GB/T 2887-2011 Basic test methods for protection and safety automatic devices

GB/T 7261-2016 Computerized site safety requirements GB/T 9361-2011

GB/T 11287-2000 Electrical relays - Part 21. Vibration, shock, bump and earthquakes of measuring relays and protection devices The first test vibration test (sine) Technical

specifications for relay protection and safety automatic devices Shock and collision tests for measuring relays and protection equipment

GB/T 14598.26-2015 Measuring relays and protection equipment - Part 26. EMC requirements

GB/T 14598.27-2008 Measuring relays and protection equipment - Part 27. Product safety requirements

GB/T 17626.8 Electromagnetic compatibility test and measurement techniques Power frequency magnetic field immunity test

GB/T 17626.9 Electromagnetic compatibility test and measurement techniques pulsed magnetic field immunity test

GB/T 17626.10 Electromagnetic compatibility (EMC) - Testing and measurement techniques - Damped oscillatory magnetic field immunity test Mechanical construction of electronic equipment Dimensions 481.6 mm (19 in) series Mechanical dimensions Part 3-101. Insert boxes and their plug-ins Transformers - Part 8. Electronic current transformers Power system - Common format for transient data exchange

GB/T 22386-2008 Dynamic test of power system relay protection products