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CCS P63



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

GB/T 16934-2013

Replacing GB/T 16934-1997

Electric energy metering cubicle

电能计量柜

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 16934-1997 "energy metering cabinet." This standard compared with GB/T 16934-1997, the main changes are as follows:

--- According to the provisions of GB/T 1.1-2009, the standard language and presentation formats have been modified;

--- High-voltage and low voltage scope split energy metering cabinet, by the "0.38 ~ 220kV" to "0.38kV ~ 750kV";

--- Increase the "energy information collection terminals" terms and definitions, remove the "metering current transformer" "metering voltage transformer" "Special Meter, "" loss of pressure timer "" applies to I (II, III, IV) category of users of electricity metering cabinet "and other terms;

--- Clear models of representation and meaning;

--- The technical requirements, structural requirements and test methods for separate representation;

--- GB 3906 based on relative humidity and DL/T 593, the conditions of use in removing the "40 °C when, should not exceed 50 percent" requirement, Altitude will be "no more than 2000m" to "not more than 1000m";

--- Based JJG1021, a predetermined voltage transformer, current transformer load limit, replace select rated load;

--- Temperature limits, increasing the use of site altitude variation correction value;

- Integral energy metering transformers and metering cabinet cabinet is rated voltage 20kV voltage level and increase the corresponding requirements;
- Remove the current transformer rated current 160A, 315A and 630A, 10kV, 20kV grade rated a current transformer Secondary current increases 10A, 35kV class CT rated primary current increases 600A, 750A, 800A, and 1000A, and this corresponds to an increase of other requirements;
- Transformer error increases interaction requirements;
- The applicable voltage levels, structural requirements contain general requirements, the overall energy metering cabinet and remote energy metering cabinet. Integral electric Cabinets can be measured and 6kV ~ 35kV power metering box to increase the reserve power information collection terminal position requirements;
- Increasing the formulas synthetic error limits, a comprehensive revision of the error limits prescribed value, increasing the Comprehensive Assessment Test square error Method and formulas;

1 Scope

GB/T 16934-2013 is the Chinese national standard on electric energy metering cubicle, in the field of construction materials and building. 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 October 2013 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 2014. Classification: ICS 91.140.50, CCS P63. 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 technical and structural requirements for energy metering cabinet, pilot projects and test methods. This standard applies to AC 50Hz, rated voltage 0.38kV ~ 35kV, rated current of 20A ~ 1000A and power supply equipment with so High and low voltage integral energy metering cabinet and 0.38kV ~ 750kV high with the metal structure of the same type, low-voltage electricity meter split The amount of the cabinet.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB 1207 Electromagnetic Voltage Transformer

GB 1208 current transformer

GB 3906 3.6kV ~ 40.5kV AC metal-enclosed switchgear and control equipment

GB 4208 housing protection (IP Code)

GB/T 4703 Capacitor Voltage Transformer

GB 7251 (all parts), Low-voltage switchgear and control equipment

GB 17201 Combined Transformer

GB/T 17215.301-Meter special requirements

GB/T 17215.321 AC measuring equipment - Specific requirements - Part 21. Static meters for active energy (level 1 and level 2)

GB/T 17215.322 AC measuring equipment - Specific requirements Part 22. Static meters for active energy (0.2S and 0.5S grade level)

GB/T 17215.323 AC measuring equipment - Specific requirements - Part 23. Static reactive energy (classes 2 and 3)

GB/T 50063 electrical measuring instrumentation of electrical installation design specifications Technical Management Rules of DL/T 448 Energy Metering Device Common technical requirements for DL 2000b/ T 593 high-voltage switchgear and control equipment standards

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Electricity meters electricenergymeteringdevice All electrical power metering equipment, a combination of electrical and mechanical components of the generic structure.