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

GB 20840.3-2013

Replacing GB 1207-2006

**Instrument transformers -- Part 3: Additional requirements for
inductive voltage transformers**

互感器 第3部分：电磁式电压互感器的补充技术要求

(English Translation)

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Foreword

This section on recommended and mandatory provisions of the regulations and GB 20840.1-2010 "transformers - Part 1. General technical requirements" the same.

GB 20840 "transformer" into the following sections.

- Part 1. Common technical requirements;
- Part 2. additional technical requirements current transformer;
- Part 3. Supplementary technical requirements of electromagnetic voltage transformer;
- Part 4. Combined Transformer additional technical requirements;
- Part 5. additional technical requirements for capacitor voltage transformer;
- Part 6. electronic transformer and low power independent of the sensor complement

common technical requirements;

- Part 7. Electronic voltage transformers supplementary technical requirements;
- Part 8. Electronic current transformers additional technical requirements;
- Part 9. Transformer digital interface;
- Part 10. Supplementary independent current sensor technology low power requirements;
- Part 11. Low-power complementary technologies independent voltage sensor requirements;
- Part 12. Combined electronic transformer and complementary combination of technical requirements independent of the sensor;
- Part 13. Independent merge cells.

This is Part 3 GB 20840's.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB 1207-2006 "Electromagnetic Voltage Transformer." this section needs with GB 20840.1-2010 "transformers - Part 1. General technical requirements" supporting the use of. This section follows the GB 20840.1 of the preparation of the structure, is a supplement corresponding provisions of GB 20840.1, modification or replacement. When the terms of GB 20840.1 In this Part not to mention the points in time, as long as reasonable, those terms would apply to this section. When specified in this section, "add", "modification" or "replacement", the it means that the relevant provisions of GB 20840.1 in this section is adapted accordingly.

For Zhang, bars, graphs, tables, notes and appendix in GB 20840.1-2010 based on additions, this section uses the following forms of ID.

- Chapter, bar, graphs, tables, and note the number 301 from the beginning;
- Appendix No. 3A, 3B and the like.

This section uses redrafted law revision using IEC 61869-3:2011 "Transformers - Part 3. Electromagnetic Voltage Transformer supplement skills requirement".

This part of IEC 61869-3:2011, compared with more adjustment in the structure, are listed in Appendix 3A of this section with the IEC 61869-3.

Chapter, article, figure, table number 2011 of the control list.

Technical differences exist compared to 2011, the terms of these differences have been involved through gaps in its outer margin. This part of IEC 61869-3 A single vertical line at position (I) have been identified in Appendix 3B is given a list of corresponding technical differences and their causes.

This section also made the following editorial changes.

--- Increasing the "Introduction";

--- Remove the IEC 61869-3:2011 and 7.4 of 7.2.3.3.1, 7.3.2.1 title, content becomes 7.2.3.3 and 7.2.3.3.1 of content;

--- The IEC 61869-3:2011 The 7.3.1.303.1 (This section 7.3.2.303.1) formula used to symbolically expressed in words Formula expression, and various symbols are explained in the formula;

--- Increase the informative appendix 3C, the IEC 61869-3:2011 is not used in the secondary winding rated voltage and nameplate shows typical Content and other cases listed in the Appendix.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee transformers (SAC/TC222) centralized.

This section is drafted. Shenyang Transformer Research Institute Co., Ltd., State Grid Electric Power Research Institute, Tohoku Electric Power Research Institute shares Parts Limited, Dalian first transformer limited liability company, TBEA Kangjia (Shenyang) Transformer Co., Ltd., Zhongshan City, Thailand spike Gas Co., Ltd., Dalian Northern Transformer Group Co., Ltd., Guangdong Power Research Institute, Chint Electric Co., Ltd., Jiangsu West Jiangxi Power Electric Co., Ltd., Hengyang Huarui Electric Co., Ltd., Jiang Su Kexing Electric Co., Ltd., Dalian Transformer Co., Ltd., Liaoning new Ming Transformer Co., Ltd., Jiangsu Jingjiang Transformer Co., Ltd., Baoding Tianwei Transformer Co., Ltd., Shenyang Transformer Co., Ltd., Nanjing Waves with Wo Transformer Co., Ltd.

Introduction

IEC/TC38 standard system has been realigned, before the upcoming IEC 60044 series of standards is now readjusted IEC 61869 series of standards. In order to better use of international standards, the National Standardization Technical Committee transformers (SAC/TC222) The study Decided to our current system of national standards Transformer also press IEC/TC38 new standard system be realigned before the upcoming the individual transformers to national standards IEC 60044 series of standards by the corresponding relationship between IEC 61869 series of standards correspond to re Develop, constitute a "common technical requirements" general part and each "Supplementary technical requirements" section dedicated supporting new Transformers series Country standard.

New national standards for transformers intended to form the overall situation is as follows.

General part of the standard number and name Special section Standard Dedicated part of the standard name corresponding Original Standard GB 20840.1 General technical requirements Supplementary technical requirements GB 20840.2 current transformer GB 1208 GB 16847 Complementary technology GB 20840.3 Electromagnetic Voltage Transformer requirements GB 1207 GB 20840.4 Combined Transformer supplementary technical requirements of GB 17201 GB/T 20840.5 additional technical requirements for capacitor voltage transformers GB/T 4703 GB 20840.6 Electronic transformer and low power independent Supplementary sensors General technical requirements GB 20840.7 additional technical requirements for electronic voltage transformer GB/T 20840.7 Supplementary technical requirements GB 20840.8 electronic current transformer GB 20840.9 Transformer Digital Interface Supplementary technical requirements GB 20840.10 low power independent current sensor GB/T 20840.8 GB 20840.11 complementary technologies independent low power voltage sensor requirements GB/T 20840.7 GB 20840.12 Complement combination electronic transformer and combinations of independent sensors Charge technical requirements GB 20840.13 merge independent unit -Transformers - Part 3. Electromagnetic Voltage Transformer Additional technical requirements

1 Scope

GB 20840 for this section applies to electrical measuring instruments or protection devices use a frequency of 15Hz ~ 100Hz of new manufacturing Electromagnetic voltage transformer.

301 Note. This section does not include additional technical requirements for three-phase voltage transformer, but the relevant parts of Chapter 4 ~ Chapter 10 technical requirements are also applicable to three-phase power Pressure transformers and some provisions (such as. 3.1.303,5.5.301,5.301.1,5.301.2,6.13.301 and Table 303) already contains a small amount of it relates to their content.

All voltage transformers are suitable for measurement, but some types of voltage transformer is also suitable for protection. And protection of the two measurements Use voltage transformers shall comply with all the provisions of this section.

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. Who does not note date reference documents, the latest edition (including any amendments) applies to this document.

Chapter 2 GB 20840.1-2010 content with the following additions apply.