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

GB/T 20840.5-2013

Replacing GB/T 4703-2007

**Instrument transformers -- Part 5: Additional requirements for
capacitor voltage transformers**

互感器 第5部分：电容式电压互感器的补充技术要求

(English Translation)

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Appendix 5A (informative) of this section with IEC 61869-5. structural changes in 2011 compared to

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Foreword

GB 20840 "transformer" intends divided 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 5 GB 20840's.

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

This Part replaces GB/T 4703-2007 "capacitor voltage transformers." 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 the present Section not to mention timely, as long as reasonable, those terms would apply to this section. When specified in this section, "add", "modification" or "replacement" when, 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 501 from the beginning;
- Appendix No. 5A, 5B and the like.

This section uses redrafted law revision using IEC 61869-5:2011 "Transformers Part 5. Capacitor voltage transformers supplementary skills requirement".

This part of IEC 61869-5:2011, compared with more adjustment in the structure, are listed in Appendix 5A of this section with IEC 61869-5.

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 61869-5 A single vertical line at position (I) have been identified in Appendix 5B are given a list of corresponding technical differences and their causes.

This section also made the following editorial changes.

- Increasing the "Introduction";
- Remove the IEC 61869-5:2011 5.3.5, 7.2.3.3.1 and 7.3.8 of the section heading and the contents 7.2.3.3.1 Variable 7.2.3.3 for the contents of;
- The IEC 61869-5:2011 is 5.3.501 and 7.3.1.504.1 (This section 7.3.2.504.1) public expression by text Formula to formula expressed by the symbol, and symbols are explained for each formula;
- The IEC 61869-5. 7.3.1.502 2011's (This section 7.3.2.502) and 7.3.2.2 (This section 7.3.3.2) with Formula written expression changed in narrative form;
- Increase the informative appendix 5E, the IEC 61869-5. Electromagnetic unit insulation level has not been adopted in 2011, rated secondary voltage and for generating a residual voltage of the secondary winding voltage rating 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, Xi'an Electric Power Capacitor Co., Ltd., Guilin Power Capacitor Co., Ltd., TBEA Kangjia (Shenyang) Transformer Co., Ltd., Shanghai MWB Transformer Co., Ltd., Nissin Electric (Wuxi) Co., Ltd., Dalian first transformer limited liability any company, Zhongshan City, Thailand Electric Co., Ltd., Dalian Northern Transformer Group Co., Ltd. Dalian transformer.

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 GB 20840.6 Electronic Transformers and low power alone Supplementary pass legislation sensor 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 20840.7 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