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

GB/T 20111.2-2016

Replacing GB/T 20111.2-2008

**Electrical insulation systems -- Procedures for thermal
evaluation -- Part 2: Specific requirements for general-purpose
models -- Wire-wound applications**

电气绝缘系统 热评定规程 第2部分：通用模型的特殊要求 散绕组应用

(English Translation)

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Table of Contents

Preface
1 Scope
2 Normative reference document
3 Terms and definitions
4 Structure
Number of test products
6 Test procedure
7 End of life judgment

Foreword

GB/T .20111 "Electrical insulation system thermal evaluation procedures" contains the following three parts.

- Part 1. General requirements Low pressure;
- Part 2. Particular requirements for general purpose applications;
- Part 3. Particular requirements for enveloping coil models - Spray winding electrical insulation systems (EIS).

This part is part 2 of GB/T .20111.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part of the replacement GB/T .20111.2-2008 "Electrical insulation system electrical insulation system thermal evaluation procedures Part 2. General line Circle model of the special requirements scattered winding application ", and GB/T .20111.2-2008 compared to the main technical changes are as follows.

- the term "ground" "coil" (see 3.1, 3.3);
- New requirements for impregnation in model assembly (see 4.3, 4.3 of 2008);
- Change the "aging test cycle" to "Durability test cycle" (see 6.3.1 for the 2008 edition).

This part uses the translation method equivalent to IEC 61857-21.:2009 "Electrical insulation system thermal evaluation procedures Part 21. Universal mold Type of special requirements scattered winding application "(2nd edition).

In this part of the normative reference to the international documents have a consistent correspondence between the following documents.

--- GB/T 1981 (all parts) Electrical insulation paint [IEC 60464 (all parts)]

--- GB/T 15022 (all parts) Resin based reactive composites for electrical insulation [IEC 60455 (all parts)] GB/T .20112-2015 Evaluation and identification of electrical insulation systems (IEC 60505.:2011, IDT) this part is made by China Electrical Equipment Industry Association.

This part of the National Electrical Insulation Materials and Insulation System Standardization Technical Committee (SAC/TC301) centralized.

This part is responsible for drafting units. Shanghai Electric Science Research Institute, Shenzhen Xu Sheng San Yi Technology Co., Ltd., Penglai City, special insulation materials Beijing Institute of Technology and Technology.

This part participated in the drafting unit. Suzhou Taihu Electric New Materials Co., Ltd., Shanghai Electrical Equipment Testing Institute, Sichuan University, Cooper Electric Sub Technology (Shanghai) Co., Ltd.

1 Scope

This part of GB/T .20111 specifies the general model (GPM) and deep trough for the evaluation of scattered earth windings for electrical insulation systems (EIS) Generation model (GPM-TC).

This part does not apply to special electrical products.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T .20111.1-2015 Electrical insulation systems - Thermal evaluation procedures - Part 1. General requirements - Low pressure (IEC 61857-1.

2008, IDT)

IEC 60455 (all parts) Resins-based reactive composites for electrical insulation (Resinbasedreactivecompoundsusedfor electricalinsulation IEC 60464 (all parts) Electrical insulation paint (Varnishesusedforelectricalinsulation) IEC 60505 Evaluation and Identification of Electrical Insulation Systems (Evaluation and Quintification of Electricalinsulationsys-tems)

3 Terms and definitions

IEC 60505 and GB/T .20111.1-2015 and the following terms and definitions apply to this document.

Ground

An electrical connection between a point in the system, device, or device.

Ground insulation

The electrical insulation between the coil and the ground.

Coil coil

Continuous winding of insulated wires.

Coil-insulated coil-to-coilinsulation Electrical insulation between coils.