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

中华人民共和国国家标准

GB/T 12665-2008

Replace GB/T 12665-1990

**Requirements of damp-heat testing of electrical machine
for service in general environmental condition**

电机在一般环境条件下使用的湿热实验要求

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and Quarantine of the People's Republic of China**

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China**

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Foreword

This Standard will replace GB/T 12665-1990 *Requirements of damp-heat testing of electrical machine for service in general environmental condition*.

Comparison with GB/T 12665-1990, main changes of this Standard are as follows:

- Updated the reference standards;
- Added the severer condition 55℃ to damp-heat test in 3.2;
- Updated the figure 1;
- Added the article “3.4 Measurement of leakage current”;
- Changed the alternate damp-heat test as “damp-heat test” in 4.1.

This Standard is proposed by China Electrical Equipment Industrial Association (CEEIA).

This Standard is under the jurisdiction of Subcommittee 1 of Low-power Electric Machine of National Technical Committee 26 on Electric Rotating Machinery of Standardization Administration of China.

The responsible drafting organizations are China National Electric Apparatus Research Institute (CEI) and Lianyi Electrical Machine Co., Ltd, Hengdian Group.

The chief drafting staff of this standard includes Yan Jinglian, Liao Guoqing and Shen Tujun.

This standard replaces the following historical editions issued:

- GB/T 12665-1990.

Requirements of damp-heat testing of electrical machine for service in general environmental condition

1 Scope

This standard specifies the damp heat test method, technical requirements and inspection rules of the rotating electrical machine for service in general environmental condition.

This standard is applicable to all kinds of rotating electrical machines (except mini-type control machine, hereinafter referred to as electrical machine). According to GB 755, the electrical machines in the environment where the relative humidity of service environment is: the average maximum relative humidity in the wettest months is 90% and the average minimal temperature in that month is not higher than 25℃ shall meet the requirements of this standard.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB 755-2000 Rotating electrical machines - Rating and performance (idt IEC 60034-1:1996)

GB/T 2423.3-2006 Environmental testing for electric and electronic products - Part 2: Testing method test Cab: Damp heat Steady state (idt IEC 60068-2-78:2001)

GB/T 2423.4-1993 Basic environmental testing procedures for electric and electronic products—Test Db: Damp heat, cyclic (eqv IEC 60068-2-78:1985)

3 Test method

3.1 Preparation before the test

3.1.1 Test equipment and instruments

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