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

GB/T 22714-2008

**Test specifications of interturn insulation of form-wound
winding for AC low-voltage electrical machines**

交流低压电机成型绕组匝间绝缘试验规范

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Standardization Administration of China**

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Foreword

The standard proposed by China Electrical Equipment Industrial Association. The standard rotary motor by the National Standardization Technical Committee (SAC/TC26) centralized. This standard is drafted by: Shanghai Electrical Apparatus Research Institute (Group) Co., Ltd., Shanghai Branch Electric Motor Co., Ltd., Jiangmen City Jiang Sheng Motor Co., Ltd., Zhejiang Jinlong Electrical Machinery Co., Ltd., Suzhou Jufeng Insulation Materials Co., Ltd., Shanghai Shanghai hair detection Instrument Factory, Sea Hawk Shanghai Electrical and Mechanical testing equipment plant. Participated in the drafting of this standard. Guilin Electrical Apparatus Research Institute, Harbin Electrical Machinery Plant AC and DC motor limited liability company. The main drafters. Zhang Shengde, Rong Weikang, Li Jinliang, Zhang Fei, Liu Quan, leaf, Xu Weihong, Xu Baodi Mattress flag at Long Ying, Fang Jianguo. This standard is the first release. AC low-voltage motor windings inter-turn Insulation test specification

1 Scope

GB/T 22714-2008 is the Chinese national standard on test specifications of interturn insulation of form-wound winding for ac low-voltage electrical machines, in the field of electrical engineering. 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 30 December 2008 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 October 2009. Classification: ICS 29.160.01, CCS K20. 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 exchange between the motor windings turn insulation test methods, test parameters and test limits. This standard applies to the rated voltage 1140V and below the small and medium AC motors turn insulation between windings is detected.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB 755-2008 rotating motor fixed and performance (IEC 60034-1.2004, IDT)

GB/T 8170-2008 revised value represents about rules and limit values \u200b\u200band judgment Room Windings insulation test method

JB/T 9615.1-2000 AC low-voltage motors fitted scattered

JB/T 9615.2-2000 AC low-voltage motors embedded scattered among Windings insulation test limits

JB/T 10098-2000 AC motor stator coil forming impact resistance voltage level

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 With impulse voltage test motor windings (or coils) A method of interturn insulation. The principle is to have a predetermined peak and front time of impulse voltage wave (or both) are alternately applied directly to the same design subjects Product and the reference winding (or coil), using impulse voltage caused in both attenuation oscillation waveform whether there are differences, to detect the motor windings (or Coil) inter-turn insulation is good.

3.2 A rotary motor having a predetermined function of a set of turns or coils.

3.3 Or a component having a plurality of coil elements, typically having a common insulation.

3.4 When the shock wave shape comparison with interturn insulation was used to detect the motor windings (or coils), for electrically tested winding (or coil) is compared with the Machine windings (or coils). Reference winding (or coil) of the parameters must be tested winding (or coil) identical. Reference winding (or coil) can optionally at the same motor, the motor can also be optionally in the same specifications. Reference winding (or coil) can be recognized as an inter-turn insulation is assumed to be normal or normal winding (or coil).