

ICS 29.160.01

CCS K21



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

GB/T 14481-2008

Replacing GB/T 14481-1993

Test procedure for single-phase synchronous machines

单相同步电机试验方法

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Foreword

This standard replaces GB/T 14481-1993 "single-phase synchronous motor test methods", compared to the previous version mainly was amended as follows:

--- Define the scope of this standard.

--- Normative references.

a) All references to new domestic and international standards (IEC) standard;

b) increase the reference standard.

--- Measuring instrument accuracy class requirements.

a) electricity meter of not less than 0.2 (formerly

3.2.1 requires 0.5);

b) a torque of not less than

0.2 meter (formerly

3.2.1 requires 1.0).

--- Load characteristics and short-circuit characteristics GB/T 1029-2005 coordination.

--- Withstand voltage test according to the requirements of GB 755 amendments.

--- Withstand voltage test tripping current assessment increases when the withstand voltage test in accordance with the requirements of GB 14711-2006.

1 Scope

GB/T 14481-2008 is the Chinese national standard on test procedure for single-phase

synchronous 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 16 July 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 April 2009.

Classification: ICS 29.160.01, CCS K21. 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 test methods for single-phase synchronous motor. This standard applies to power 200kW and below, voltage 690V and below single-phase synchronous motors (generators and motors), does not apply No current excitation winding single-phase synchronous motor (permanent magnet motor, reluctance motor, etc.).

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

GB 4343.1-2003 Electromagnetic compatibility appliances, electric tools and similar apparatus - Part 1. Emission (CISPR 14-1.2000, IDT)

GB 4343.2-1999 Electromagnetic compatibility appliances, electric tools and similar apparatus - Part 2. Immunity product Standard class (CISPR14-2.1997, IDT)

GB 4824-2004 industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement (CISPR 11.2003, IDT)

GB/T 6113.101 ~ 6113.105-2008 radio disturbance and immunity measuring apparatus and methods -

GB 10068 measuring shaft heights 56mm and higher mechanical vibration of the motor, evaluation and limits (GB 10068- 2008,

IEC 60034-14.2007, IDT) Rotary motor noise measurement method.

GB/T 10069.1-2006 motor rotation method and measurement noise limits - Part 1 (

ISO 1680.1999, MOD) 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

IEC 60034-22.1996 Reciprocating internal combustion engine driven alternator 3 main symbols, terms and units Power factor $\cos\phi$

--- Like speed, r/min P

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