

ICS 29.160.30
CCS K 24



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

GB/T 14817-2008

Replacing GB/T 14817-1993

General specification for permanent magnet DC servomotors

永磁式直流伺服电动机通用技术条件

(English Translation)

Issued on: June 13, 2008

Implemented on: March 1, 2009

Issued by: Standardization Administration of China

Table of Contents

Introduction
1 Scope
2 Normative references
3 Category
4 Technical requirements and test methods
12 5 Inspection Rules
6 Ready to deliver
7 Customer service
Appendix A (informative) Model name

Foreword

This standard replaces GB/T 14817-1993 "permanent magnet DC servo motors, general technical conditions." the original standard GB/T 14817-1993 compared to the main amendments are as follows.

- Revised standard reference for content and relevant content has been revised;
- Requirements and test methods nameplate more specific and clear;
- Increased current overload multiples to check the motor against overload;
- Increased DC resistance, back EMF coefficient of static friction torque, ripple factor, inductance and armature servo characteristics closely related Test parameters;
- Electromechanical time constant of the time constant of the test divided into mechanical and electrical time constant inspection;
- Remove the explosion proof, increased safety, the safety requirements in more detail;
- Increased "inspection rules", the classification of motor testing, factory inspection, type test items and the rules, the number of prototypes and type of inspection the results of the assessment and other aspects of detailed provisions.

Appendix A of this standard is an informative annex.

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the National Standardization Technical Committee micromotor (SAC/TC2) centralized.

This standard is mainly drafted by. Xi'an Institute of micro-motor, Shandong Shan Bo Electric Group Co., Limited Zibo Boshan Jerry micromotor the company, Hengdian Group to the Motor Co., Ltd., Shanghai Jinling ????? Motor Co., Ltd.

1 Scope

This standard specifies the classification of permanent magnet DC servo motor, technical requirements and test methods, inspection rules, marking, packaging, transportation, Storage.

This standard applies to stand outside diameter of not more than 160mm of permanent magnet DC servo motor, base diameter greater than 160mm of permanent magnet DC servo motor can refer to use. All kinds of permanent magnet DC servo motor (hereinafter referred to as motor) specific technical indicators and special to Seeking in special technical conditions specified in, and used in conjunction with this standard.

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 755-2000, idt IEC 60034-1:1996) GB/T 2423.16 Environmental testing for electric and electronic products Part 2. Test methods Test J and guidance. Mould growth (GB/T 2423.16-1999, idt IEC 68-2-10. 1988) GB/T 2423.17 electric and electronic products environmental testing procedures Test Ka. Salt test method (GB/T 2423.17-1993, eqv IEC 68-2-11. 1981) GB/T 2423.22 Environmental testing for electric and electronic products Part 2. Test methods - Test N. temperature changes (GB/T 2423.22-2002, IEC 68-2-14. 1984, IDT) GB/T 2423.25 electric and electronic products environmental testing procedures Test Z/AM. Combined cold/low air pressure tests (GB/T 2423.25-1992, neqIEC 68-2-40. 1976) GB/T 2423.26 electric and electronic products environmental testing procedures Test Z/BM. high temperature/low air pressure tests (GB/T 2423.26-1992, neqIEC 68-2-41. 1976) GB/T 2828.1 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan (GB/T 2828.1-2003, ISO 2859-1:1999, IDT) GB/T 6113.2 radio disturbance and immunity measuring method (GB/T 6113.2-1998, eqvCISPR16-2:1996) GB/T 7345 motor control basic technical requirements GB/T 7346 motor control basic shape structure type GB/T 10069.1 rotating electrical machines - Part 1 Noise measurement methods and limits. rotary motor noise measurement method (GB/T 10069.1-2006, ISO 1680-1. 1986, ENQ) GB/T 10761 Tropical micromotor basic technical requirements GB 17799.3 Electromagnetic compatibility - Generic standards for residential, commercial and light industrial

environments Emission standard (GB 17799.3-2001, idt CISPR/IEC 61000-6-3:1996) GB 17799.4 Electromagnetic compatibility - Generic standards Emission standard for industrial environments (GB 17799.4-2001, idt IEC 61000-6-4:1997) GB 18211 General requirements for safety micro-motor JB/T 8162 motor control conditions Packaging Technology