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PROFESSIONAL STANDARD OF THE PEOPLE'S

REPUBLIC OF CHINA

中华人民共和国行业标准

JB/T 8880-2010

Replace JB/T 8880-2000

**Rolling bearings—Deep groove ball bearings for
electric motors—Specifications**

滚动轴承 电机用深沟球轴承 技术条件

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Contents

1	Scope	1
2	Normative references	1
3	Symbols	2
4	Code method	3
5	Technical Requirements	3
6	Measurement and test method	5
7	Inspection rules	6
8	Marking	6
9	Packaging	6
	Annex A (Normative) The matching of bearing and, shaft and housing bore	7

Foreword

This Standard will replace JB/T 8880-2000 *Deep groove ball bearing for electric motors — Specifications*.

Comparison with JB/T 8880-2000, main changes of this Standard are as follows:

- add of requirements for accessory materials of motor bearing and heat treatments (see Article 5.1);
- add of requirements for retainer for motor bearing, sealing ring and dust cover (see Article 5.2 and 5.3);
- revision of requirements for tolerance grade of motor bearing (4.1 in 2000, 5.4 in this Standard);
- add of requirements for surface of motor bearing and surface roughness and measuring methods (see 5.5, 6.2);
- revision of requirements for bearing vibration (speed) and vibration (acceleration) (4.6 in 2000, 5.11 in this Standard);
- delete of limit table of bearing vibration (speed) and vibration (acceleration) (Table 2, Table 3, Table A1 and Table A2 in 2000);
- add of requirements for friction torque of bearing (see 5.12);
- revision of inspection rules (Clause 6 in 2000, Clause 7 in this Standard).

Annex A of this Standard is normative annex.

This Standard is proposed by China Machinery Industry Federation (CMIF).

National Technical Committee 98 on Rolling Bearing of Standardization Administration of China

Chief draft units of this Standard: Luoyang Bearing Research Institute, C&U Group Co., Ltd, MOS Group Corporation Limited, Changshu Changcheng Bearing Co., Ltd, Shandong Huatian Rolling Bearing Co., Ltd, Wuxi Yanwei Precision Bearing Co., Ltd, Chongqing Changjiang Bearing Co., Ltd, Zhejiang Xinchang Xinzhou Industrial Co., Ltd.

Chief drafters of this Standard: Song Li, Liu Bin, Huang Zhaoxiong, Shao Yan, Li Xuechao, Gu Maolin, Hu Yong, Pang Qixing.

The former standards replaced by this standard are as following:

- ZB J11027-1989;
- JB/T 8880-1999, JB/T 8880-2000.

Rolling bearings—Deep groove ball bearings for electric motors—Specifications

1 Scope

This Standard specifies the technical requirements, measurement, test methods, inspection rules, marking, antirust and packaging of deep groove ball bearing (hereinafter referred to as bearing) for motoring to be general purpose with internal diameter 3mm to 120mm.

This Standard is applicable to production inspection and user acceptance of bearing manufacturing factory.

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/T 272-1993 Rolling bearing—Identification code

GB/T 307.1-2005 Rolling bearings—Radial bearings—Tolerances (ISO 492: 2002, MOD)

GB/T 307.2-2005 Rolling bearings — Measuring and gauging principles and methods (ISO 1132-2: 2001, Rolling bearings -- Tolerances -- Part 2: Measuring and gauging principles and methods, MOD)

GB/T 307.3-2005 Rolling bearings—General technical regulations

GB/T 2828.1-2003 Sampling procedures for inspection by attributea-Part1: Sampling schemes indexed by acceptance quality limit(AQL) for lot-by-lot inspection (ISO 2859-1: 1999, IDT)

GB/T 7811-2007 Rolling bearings—Symbols for quantities (ISO 15241: 2001, IDT)

GB/T 8597-2003 Rolling bearings—Rust proof packaging

GB/T 18254-2002 High-carbon chromium bearing steel

JB/T 1255-2001 Specification for heat-treatment of rolling bearing parts made from high carbon chromium steel

JB/T 2781-2005 Rolling bearings—Miniature ball bearings—Specifications

JB/T 2974-2004 Rolling bearings-Identification code-Supplemental regulations

JB/T 3573-2004 Rolling bearings—Methods for the measurement of radial internal clearance

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