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

JB/T 10447-2004

**Specification for Y3 series (IP55) three-phase induction motors
(frame size 63 to 355)**

**Y3系列 (IP55) 三相异步电动机技术条件 (机座号63—355)
(English Translation)**

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1 Scope

This standard specifies type, basic parameters and dimensions, technical requirements, inspection rules and requirements for marking, packaging and warranty period of Y3 series motor.

This standard is applicable to Y3 series (IP55) three-phase induction motor (frame size 63~355) (hereinafter referred to as the motor). All the series of motors derived from this series motor can be implemented by reference.

2 Normative References

The following standards contain provisions which, through reference in this standard, constitute provisions of this standard. For dated reference, subsequent amendments to (excluding correction to), or revisions of, any of these publications do not apply. However, the parties coming to an agreement based on this standard are encouraged to investigate whether the most recent editions of the standards apply. For undated references, the latest editions of the normative documents referred to apply.

GB/T 191-2000 Packaging - Pictorial Marking for Handling of Goods (eqv ISO 780: 1997)

GB 755-2000 Rotating Electrical Machines - Rating and Performance (idt IEC 60034-1: 1996)

GB/T 755.2-2003 Methods for Determining Losses and Efficiency of Rotating Electrical Machinery from Tests (Excluding Machines for Traction Vehicles) (IEC 60034-2: 1972, IDT)

GB/T 997-2003 Classification of Types of Construction and Mounting Arrangements for Rotating Electrical Machines (IM Code) (IEC 60034-7-1992, IDT)

GB/T 1032 Test Procedures for Three-phase Induction Motors

GB 1971 Terminal Markings and Direction of Rotation of Rotating Electrical Machines

GB/T 1993-1993 Cooling Methods for Rotating Electrical Machines (eqv IEC 60034-6:1991)

GB/T 4772.1-1999 Dimensions and Output Series for Rotating Electrical Machines -Part 1: Frame Numbers 56 to 400 and Flange Numbers 55 to 1 080 (idt IEC 60072-1:1991)

GB/T 4942.1-2001 Classification of Degrees of Protection Provided by Enclosures of Rotating Electrical Machines (IP Code) (idt IEC 60034-5:1991)

GB 10068-2000 Mechanical Vibration of Certain Machines with Shaft Heights 56mm and Higher--Measurement, Evaluation and Limits of Vibration (idt IEC 60034-14:1996)

GB/T 10069.1-1988 Measurement of Airborne Noise Emitted by Rotating Electrical Machinery and the Noise Limits-Engineering Method for the Measurement of Airborne Noise (neq ISO 1680-1:1986)

GB/T 10069.2-1988 Measurement of Airborne Noise Emitted by Rotating Electrical Machinery and the Noise Limits-Survey Method for the Measurement of Airborne Noise (neq ISO 1680-2:1986)

GB/T 12665-1990 Requirements of Damp-heat Testing of Electrical Machine for Service in General Environmental Condition

GB 14711 General Requirements for Safety of Small and Medium Size Rotating Electrical Machines

GB 18613-2002 Limited Values of Energy Efficiency and Evaluating Values of Energy Conservation of Small and Medium Three-Phase Induction Motors

JB/T 8680.1-1998 Specification for Three-Phase Induction Motor - Part 1: Y2 Series (IP54) (Frame Size: 63~355).

JB/T 9615.1-2000 Test Methods of the Interturn Insulation on Random Wound Winding for AC Low-voltage Machines

JB/T 9615.2-2000 Test Limits of the Interturn Insulation on Random Wound Winding for AC Low-voltage Machines

3.1 Motor model

Example:

3.2

Enclosure protection level of the motor is IP 55 (as specified in GB/T 4942.1).

3.3

The method for cooling motor is IC411 (as specified in GB/T 1993).

3.4

Construction and mounting types of the motor are IM B3, IM B5, IM B6, IM B7, IM B8, IM B14, IM B34, IM B35, IM V1, IM V3, IM V5, IM V6, IM V15, IM V18, IM V19 and IM V36 (as specified in GB/T 997). The motors shall be manufactured according to those specified in Table 1.