

JB

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

JB/T 1011-2007

Replacing JB/T 1011-1991

Specification for YC series capacitor-start induction motors

YC系列电容启动异步电动机技术条件

(English Translation)

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Table of Contents

Contents

Foreword I

1 Scope

2 Normative References

3 Types, Basic Parameters and Dimensions

4 Technical Requirements

5 Test Method

6 Inspection Rules

7 Marking, Packaging, Storing and Transportation

8 Quality Warranty Period

1 Scope

This standard specifies YC series capacitor starting asynchronous motor in terms of type, basic parameters and dimension, technical requirements, test methods, inspection rules, marking, packaging, storing, transportation and warranty period.

This standard is applicable to YC series capacitor-start asynchronous motors (frame size 71~132) (hereinafter referred to as motors), and all other series motors derived from YC series capacitor-start asynchronous motors may also refer.

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 IEC60034-1:1996)

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 4772.1-1999 Dimensions and Output Series for Rotating Electrical Machines - Part 1: Frame numbers 56 to 400 and Flange Numbers 55 to 1080 (idt IEC 72-1:1991)

GB/T 4942.1-2006 Degrees of Protection Provided by the Integral Design of Rotating Electrical Machines (IP Code) - Classification (IEC 60034-5:2000, IDT)

GB/T 9651-1988 Test Procedure for Single-phase Induction Motor

GB 10069.1-2006 Method for the Measurement of Airborne Noise Emitted by Rotating Electrical Machines Part 1: Method for the Measurement of Airborne Noise Emitted by Rotating Electrical Machines (ISO 1680:1999, MOD)

GB 12350-2000 Safety Requirements of Small-power Motors

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

JB/T 9547-1999 Specification for Centrifugal Starting Switch Use of Single-phase Motor

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

JB/T 10490-2004 Mechanical Vibration of Small Power Motors - Measurement, Evaluation and Limits of Vibration

3.1

The enclosure protection levels of motors are IP44, IP 54 and IP 55.

3.2

The cooling method of motors is IC 01 41.

3.3

The construction and mounting type of motors shall meet the requirements of Table 1.

Table 1

Frame size Construction and mounting code (IM)

71~80 B3, B5, B14, B34, V1, V3, V5, V6, V18, V19

90 B3, B5, B14, B34, B35, V1, V3, V5, V6, V18, V19, V36

100~132 B3, B5, B35, V1, V3, V5, V6, V36 3.4 Rating of the motor is continuous based on continuous duty (S1) 3.5 The rated frequency of the motor is 50Hz; the rated voltage is

220V.

3.6

Motors shall be manufactured according to the following rated powers (in W):

120, 180, 250, 370, 550, 750, 1100, 1500, 2200, 3000, 3700.

3.7

The corresponding relation between frame size and rotating speed & power shall be in accordance with those specified in Table 2.