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**Minimum allowable values of energy efficiency and  
values of efficiency grade for small-power motors**

**小功率电动机能效限定值及能效等级**

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## Foreword

Subclause 4.3 and 4.4 of this Standard are mandatory, the rest are recommendatory.

This Standard is proposed by Environment and Resource Integrated Utilization Department of National Development and Reform Commission.

This Standard is under the jurisdiction of National Technical Committee (SAC/TC 20) on Energy Fundamentals and Management of Standardization Administration of China.

The responsible drafting organizations are Guangzhou Electrical Apparatus Research Institute, China Standards Research Institute, Low-power Machinery Subcommittee of National Rotating Machinery Standardization Administration, Shanghai Entry-Exit Inspection And Quarantine Bureau, Guangdong Welling Motor Manufacturing Co., Ltd, International Copper Association, Emerson(China) Motor Co., Ltd, Kaiping Sanwei Micromotor Co., Ltd, Haicheng Suprasuny Pump Co., Ltd, Nanjing Nanvi Electric Motor Co., Ltd, Foshan City Nanhai Jiuzhou Popula Fan Co., Ltd, Tianjin Zhonghuan Tianhong Micromotor Co., Ltd, Foshan Tianyang Motor Manufacturing Co., Ltd, WeiHai Techfull Simo Motor Co., Ltd, Wuhu Tongli Motor Co.,Ltd and Guangzhou Vkan Certification & Testing Co., Ltd.

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# Minimum allowable values of energy efficiency and values of efficiency grade for small-power motors

## 1 Scope

This standard specifies energy efficiency grade, minimum allowable values of energy efficiency, target minimum allowable values of energy efficiency, evaluating values of energy conservation and test method for small-power motors (hereinafter referred to as “motor”).

This standard is applicable to such general purpose motors powered by 50 Hz 690 VAC and below as small-power 3-phase induction motor (10 W to 2200 W), capacitor running induction motor (10 W to 2200 W), capacitor starting induction motor (120 W to 3700 W), two-value capacitor induction motor (250 W to 3000 W) etc. as well as motor (6 W to 550 W) for a fan of an air-conditioner in room.

## 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 1032 Test procedures for three-phase induction motors

GB/T 5171 General technical requirements for small power motors

GB/T 9651-2008 Test procedures for single-phase induction motor

GB 12350 Safety requirements of small-power motors

## 3 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

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