

ICS 27.010

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NATIONAL STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国国家标准

GB 18613-2012

Replace GB 18613-2006

**Minimum Allowable Values of Energy
Efficiency and Energy Efficiency Grades
for Small and Medium Three-phase
Asynchronous Motors**

中小型三相异步电动机能效限定值及能效等级

Issued on: May 11, 2012

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Jointly Issued by

**the General Administration of Quality Supervision,
Inspection and Quarantine of the People's Republic of
China and the Standardization Administration of the
People's Republic of China**

Foreword

4.3 in this standard is mandatory and others are recommendatory.

This standard is drafted according to the rules specified in GB/T-1.1-2009.

This standard replaces GB 18613-2006 "Minimum Allowable Values of Energy Efficiency and the Energy Efficiency Grades for Small and Medium Three-phase Asynchronous Motors" and has the following main changes:

——The range of rated power was changed from 0.55kW~315kW in the original standard to 0.75kW~375kW;

——All-level energy efficiency indexes of motors were improved correspondingly;

——The test method is to measure according to Method B——analysis method for measurement of input-output power loss in GB/T 1032;

——The efficiency requirements of motors under 75% rated output power were cancelled;

——The requirements of power factor in 4.5.2 of the original standard were cancelled;

——The requirements of energy efficiency grade marking in Chapter 6 of the original standard were cancelled.

This Standard was referred to IEC 60034-30 "Efficiency Classes of Single-speed, Three-phase, Cage-induction Motors".

This standard is proposed by the Resource Conservation and Environmental Protection Division of National Development and Reform Commission.

This standard is under the jurisdiction of the National Technical Committee on Energy Fundamentals and Management of Standardization Administration of China (SAC/TC20).

Drafting organizations of this standard: China National Institute of Standardization, Shanghai Electrical Apparatus Research Institute (Group Co., Ltd.), Nanyang Explosion Protection Group Co., Ltd, Nanyang Explosion Protected Electrical Apparatus Research Institute, International Copper Association (China), Beijing B.J.Electric Motor Co.,Ltd., Wuxi Huada Motors Co.,Ltd., Hebei Electric Motor Co., Ltd., ABB Shanghai Motors Co., Ltd., Yunnan Copper Science & Technology Develop Corporation Limited and China National Quality Supervisory and Test Centers for Small and Medium Electrical Machines.

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The previous editions of the standards replaced by this standard are as:

——GB 18613-2002;

——GB 18613-2006.

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