



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

**GB/T 997-2022**

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**Classification of types of construction, mounting arrangements  
and terminal box position (IM Code) for rotating electrical  
machines**

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### Foreword

This Document was drafted as per the rules specified in GB/T 1.1-2020 Directives for Standardization - Part 1: Rules for the Structure and Drafting of Standardizing Documents.

This Document replaced GB/T 997-2008 Rotating Electrical Machines - Classification of Types

of Construction, Mounting Arrangements and Terminal Box Position (IM Code). Compared with GB/T 997-2008, the major technical changes of this Document are as follows besides the

structural adjustments and editorial modifications:

--- Delete the repeated description of the location of the junction box in Code 2 (see 3.5 of the 2008 Edition);

--- Add the representation of the IM code when the shaft has an inclination angle (see 5.7 of this Edition).

This Document equivalently adopted IEC 60034-7:2020 Rotating Electrical Machines - Part 7: Classification of Types of Construction, Mounting Arrangements and Terminal Box Position (IM Code).

This Document made the following minimum editorial modifications:

--- In order to coordinate with the existing standards, change the standard name into Classification of Types of Construction, Mounting Arrangements and Terminal Box Position (IM Code) for Rotating Electrical Machines.

--- Revise the original typos in Tables 6 ~ 14 from "see 3.5" to "see 5.6".

Please note some contents of this Document may involve patents. The issuing agency shall not

assume the responsibility to identify these patents.

This Document was proposed by China Electric Equipment Industry Association.

This Document shall be under the jurisdiction of National Technical Committee on Electric Rotating Machinery of Standardization Administration of China (SAC/TC 26).

Drafting organizations of this Document: Shanghai Engineering Research Center of Motor System Energy Saving Co., Ltd.; Jiangsu Jiaxuan Intelligent Industrial Technology Co., Ltd.; Wolong Electric Group Co., Ltd.; Machinery Industry Beijing Electrotechnical Institute of Economic Research; Special Equipment Safety Supervision Inspection Institute of Jiangsu Province (National Center of Supervision and Inspection on Product Quality of Overhead Gantry Crane Machinery); Jimusi Electric Machine Co., Ltd.; Jiangsu Xi'anda Explosion-Proof

Co., Ltd.; CRRC Yongji Electric Co., Ltd.; Shandong Huali Electric Motor Group Co., Ltd.; Xi'an Xima Electric Motor Co., Ltd.; Guangdong Dongguan Electric Motor Co., Ltd.; Jiang Chao Motor Technology Co., Ltd.; Nanyang Weite Explosion-Proof Motor Co., Ltd.; Kungfu Classification of Types of Construction, Mounting Arrangements and Terminal Box Position (IM Code) for

## Rotating Electrical Machines

### 1 Scope

This Document specifies the IM Code, a classification of types of construction, mounting arrangements and the terminal box position of rotating electrical machines.

Two systems of classification are provided as follows:

- Code I (see Clause 4): An alpha-numeric designation applicable to machines with endshield bearing(s) and only one shaft extension.
- Code II (see Clause 5): An all-numeric designation applicable to a wider range of types of machines including types covered by Code I.

The type of machine not covered by Code II is fully described in words.

The relationship between Code I and Code II is given in Annex A.

### 2 Normative References

There are no Normative References in this Document.

### 3 Terms and Definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

#### 3.1 Type of construction

Arrangement of machine components with regard to fixings, bearing arrangement and shaft

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