



**Irish Standard**  
**I.S. EN IEC 60034-7:2022-03**

**Version 1.01**

**Rotating electrical machines - Part 7: Classification of types of construction, mounting arrangements and terminal box position (IM Code)**

## I.S. EN IEC 60034-7:2022-03 V1.01

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## **National Foreword**

I.S. EN IEC 60034-7:2022-03 V1.01 is the version of the NSAI adopted European document EN IEC 60034-7:2022/AC:2023-03, *Rotating electrical machines - Part 7: Classification of types of construction, mounting arrangements and terminal box position (IM Code)*, including any Corrections, Amendments etc. to EN IEC 60034-7:2022/AC:2023-03.

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 60034-  
7:2022/AC:2023-03**

March 2023

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ICS 29.160.01

English Version

**Rotating electrical machines - Part 7: Classification of types of  
construction, mounting arrangements and terminal box position  
(IM Code)  
(IEC 60034-7:2020/COR1:2023)**

Machines électriques tournantes - Partie 7: Classification  
des modes de construction, des dispositions de montage et  
position de la boîte à bornes (Code IM)  
(IEC 60034-7:2020/COR1:2023)

To be completed  
(IEC 60034-7:2020/COR1:2023)

This corrigendum becomes effective on 31 March 2023 for incorporation in the English language version of the EN.



European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

### **Endorsement notice**

The text of the corrigendum IEC 60034-7:2020/COR1:2023 was approved by CENELEC as EN IEC 60034-7:2022/AC:2023-03 without any modification.

IEC 60034-7:2020/COR1:2023  
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INTERNATIONAL ELECTROTECHNICAL COMMISSION  
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

**IEC 60034-7**  
Edition 3.0 2020-10

**IEC 60034-7**  
Édition 3.0 2020-10

**ROTATING ELECTRICAL MACHINES –**

**MACHINES ÉLECTRIQUES TOURNANTES –**

**Part 7: Classification of types of construction,  
mounting arrangements and terminal box position  
(IM Code)**

**Partie 7: Classification des modes de  
construction, des dispositions de montage et  
position de la boîte à bornes (Code IM)**

**CORRIGENDUM 1**

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

*Replace existing Table 4 with the following new Table 4:*

**Table 4 – Significance of the first numeral**

<b>First numeral</b>	<b>Significance</b>	<b>Table relevant to the second and third numerals</b>
0	Not allocated	–
1	Foot-mounted machines with endshield bearing(s) only	6
2	Foot-and-flange-mounted machines with endshield bearing(s) only	7
3	Flange-mounted machines with endshield bearing(s) only, with a flange part of an endshield	8
4	Flange-mounted machines with endshield bearing(s) only, with a flange not part of an endshield but an integral part of the frame or other component	9
5	Machines without bearings	10
6	Machines with endshield bearing(s) and pedestral bearing(s)	11
7	Machines with pedestral bearing(s) only	12
8	Vertical machines of construction not covered by first numeral 1 to 4	13
9	Machines with special mounting arrangements	14

Corrections à la version française:

Remplacer le Tableau 4 existant par le nouveau Tableau 4 suivant:

**Tableau 4 – Signification du premier chiffre**

<b>Premier chiffre</b>	<b>Signification</b>	<b>Tableau correspondant aux deuxième et troisième chiffres</b>
0	Non attribué	–
1	Machines à pattes avec flasque(s) palier(s) seulement	6
2	Machines à pattes et à bride avec flasque(s) palier(s) seulement	7
3	Machines à bride avec flasque(s) palier(s) seulement, avec une bride faisant partie d'un flasque	8
4	Machines à bride avec flasques paliers seulement, avec une bride ne faisant pas partie d'un flasque mais faisant partie intégrante de la carcasse ou d'un autre composant	9
5	Machines sans palier	10
6	Machines avec flasque(s) et pied(s) support(s) de palier(s)	11
7	Machines avec pied(s) support(s) de palier(s) seulement	12
8	Machines verticales de construction non couverte par les premiers chiffres 1 à 4	13
9	Machines avec dispositions de montage spéciales	14



EUROPEAN STANDARD

**EN IEC 60034-7**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2022

ICS 29.160.01

Supersedes EN 60034-7:1993 and all of its amendments  
and corrigenda (if any)

English Version

**Rotating electrical machines - Part 7: Classification of types of  
construction, mounting arrangements and terminal box position  
(IM Code)  
(IEC 60034-7:2020)**

Machines électriques tournantes - Partie 7: Classification  
des modes de construction, des dispositions de montage et  
position de la boîte à bornes (Code IM)  
(IEC 60034-7:2020)

Drehende elektrische Maschinen - Teil 7: Klassifizierung  
der Bauarten, der Aufstellungsarten und der Klemmkasten-  
Lage (IM-Code)  
(IEC 60034-7:2020)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## **European foreword**

The text of document 2/2010/FDIS, future edition 3 of IEC 60034-7, prepared by IEC/TC 2 "Rotating machinery" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60034-7:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-11-23 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2025-02-23 document have to be withdrawn

This document supersedes EN 60034-7:1993 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 60034-7:2020 was approved by CENELEC as a European Standard without any modification.



IEC 60034-7

Edition 3.0 2020-10

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Rotating electrical machines –  
Part 7: Classification of types of construction, mounting arrangements  
and terminal box position (IM Code)**

**Machines électriques tournantes –  
Partie 7: Classification des modes de construction, des dispositions  
de montage et position de la boîte à bornes (Code IM)**



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IEC 60034-7

Edition 3.0 2020-10

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Rotating electrical machines –  
Part 7: Classification of types of construction, mounting arrangements  
and terminal box position (IM Code)**

**Machines électriques tournantes –  
Partie 7: Classification des modes de construction, des dispositions  
de montage et position de la boîte à bornes (Code IM)**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### ROTATING ELECTRICAL MACHINES –

#### **Part 7: Classification of types of construction, mounting arrangements and terminal box position (IM Code)**

#### FOREWORD

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International Standard IEC 60034-7 has been prepared by IEC technical committee 2: Rotating machinery.

This third edition cancels and replaces the second edition, published in 1992, and its Amendment 1:2000. It constitutes a technical revision.

The main technical changes with regard to the previous edition are as follows:

- 5.4 Note on twin motors added.
- 5.5 Reference to 4.3 instead of duplication of text.
- 5.7 New subclause on marking of shaft inclination or declination.



The text of this International Standard is based on the following documents:

FDIS	Report on voting
2/2010/FDIS	2/2018/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60034 series, published under the general title *Rotating electrical machines*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

The contents of the corrigendum 1 (2023-03) have been included in this copy.

## ROTATING ELECTRICAL MACHINES –

### Part 7: Classification of types of construction, mounting arrangements and terminal box position (IM Code)

#### 1 Scope

This part of IEC 60034 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 end-shield 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 extension

[SOURCE: IEC 60050-411:1996, 411-43-34]

##### 3.2

##### **mounting arrangement**

orientation on site of the machine as the whole with regard to shaft alignment and position of fixings

[SOURCE: IEC 60050-411:1996, 411-43-35]

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