BSI Standards Publication

Rotating electrical machines

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

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National foreword

This British Standard is the UK implementation of EN IEC 60034-7:2022. It is identical to IEC 60034-7:2020 incorporating corrigendum March 2023. It supersedes BS EN 60034-7:1993, which is withdrawn.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Text altered by IEC corrigendum March 2023 is indicated in the text by ⟦AC1⟩ ⟨AC1⟧.

The UK participation in its preparation was entrusted to Technical Committee PEL/2, Rotating electrical machinery.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Date	Text affected
30 April 2023	Implementation of IEC corrigendum March 2023
30 April 2023	Correction to national foreword and endorsement notice

EUROPÄISCHE NORM

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-02-23

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

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

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

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ROTATING ELECTRICAL MACHINES –

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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.

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]