SLOVENSKI STANDARD
oSIST prEN IEC 60034-30-2:2026

01-junij-2026

Vrteči električni stroji - Del 30-2: Razredi učinkovitosti izmeničnih motorjev s spremenljivo hitrostjo (IE-koda)

Rotating electrical machines - Part 30-2: Efficiency classes of variable speed AC motors (IE-code)

Ta slovenski standard je istoveten z: **prEN IEC 60034-30-2:2026**

ICS:

29.160.30 Motorji Motors

oSIST prEN IEC 60034-30-2:2026 **en,fr,de**

2/2304/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: **IEC 60034-30-2 ED2**	
DATE OF CIRCULATION: **2026-05-01**	CLOSING DATE FOR VOTING: **2026-07-24**
SUPERSEDES DOCUMENTS: **2/2272/CD, 2/2297/CC**	

IEC TC 2 : ROTATING MACHINERY	
SECRETARIAT: United Kingdom	SECRETARY: Mr Charles Whitlock
OF INTEREST TO THE FOLLOWING COMMITTEES:	HORIZONTAL FUNCTION(S):
ASPECTS CONCERNED:	
☒ SUBMITTED FOR CENELEC PARALLEL VOTING **Attention IEC-CENELEC parallel voting** The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

Rotating electrical machines - Part 30-2: Efficiency classes of variable speed AC motors (IE-code)

PROPOSED STABILITY DATE: 2029

NOTE FROM TC/SC OFFICERS:

Please submit for CDV

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ROTATING ELECTRICAL MACHINES –

Part 30-2: Efficiency classes of variable speed AC motors (IE-code)

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International Standard IEC 60034-30-2 has been prepared by IEC Technical Committee 2: Rotating machinery.

This first edition of the standard IEC 60034-30-2 cancels and replaces the first edition of IEC TS 60034-30-2 (2016). Full information on the voting for the approval of this standard can be found in the report on voting indicated above table.

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

The text of this standard is based on the following documents:

Enquiry draft	Report on voting
2/XX/DTS	2/XX/RVC

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

NOTE A table of cross-references of all IEC TC 2 publications can be found on the IEC TC 2 dashboard 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 National Committees are requested to note that for this document the stability date is 20xx

THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE DELETED AT THE PUBLICATION STAGE.

INTRODUCTION

This second part of the IEC 60034-30 standard series, IEC 60034-30-2, replaces the technical specification and provides energy-efficiency classes of variable speed electric motors for global harmonization. It deals with low-voltage electric AC motors that are rated for variable speed operation. An electronic frequency converter provides variable voltage and variable frequency.

This standard defines energy efficiency classification of converter duty AC motors rated for variable voltage and frequency, namely converter duty machines and either asynchronous or synchronous motors not covered in IEC 60034-30-1. It is harmonized with the standard IEC 61800-9-2 where IE-classifications of frequency converters (variable speed drive VSD or complete drive modules = CDM) and IES-classifications of power drive systems (PDS) are defined. To clearly distinguish energy efficiency classes between this document and IEC 60034-30-1, the converter duty motors according to this document will be marked with the term “converter duty” on the rating plate (as required by IEC 60034-1 Ed.15).

An efficient motor alone does not necessarily result in an efficient PDS. Users should select the efficiency class in accordance with a given application depending on the actual load / speed operating points and related operating time.

It may not be energy efficient to select very high efficiency continuous duty, S1, motors for intermittent or short time duty or part load applications. The use of the Extended Product Approach (EPA) as described in the IEC 61800-9 series of standards will help applicative sectors for specification of energy efficiency performance of power-driven equipment and parts.

It is not expected that all manufacturers will produce motors for all efficiency classes nor all ratings of a given class.