



**BSI Standards Publication**

## **Rotating electrical machines**

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

## National foreword

This Published Document is the UK implementation of CLC IEC/TS 60034-30-2:2021. It is identical to IEC TS 60034-30-2:2016. It supersedes PD IEC/TS 60034-30-2:2016, which is withdrawn.

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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This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 January 2017.

### Amendments/corrigenda issued since publication

| Date             | Text affected                                                                         |
|------------------|---------------------------------------------------------------------------------------|
| 30 November 2021 | This corrigendum renumbers PD IEC/TS 60034-30-2:2016 as PD CLC IEC/TS 60034-30-2:2021 |

English Version

**Rotating electrical machines - Part 30-2: Efficiency classes of  
variable speed AC motors (IE-code)  
(IEC/TS 60034-30-2:2016)**

Machines électriques tournantes - Partie 30-2: Classes de  
rendement des moteurs à courant alternatif à vitesse  
variable (code IE)  
(IEC/TS 60034-30-2:2016)

Drehende elektrische Maschinen - Teil 30-2: Wirkungsgrad-  
Klassifizierung von Wechselstrommotoren mit variabler  
Drehzahl (IE-Code)  
(IEC/TS 60034-30-2:2016)

This Technical Specification was approved by CENELEC on 2021-08-16.

CENELEC members are required to announce the existence of this TS in the same way as for an EN and to make the TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

This document (CLC IEC/TS 60034-30-2:2021) consists of the text of IEC/TS 60034-30-2:2016 prepared by IEC/TC 2 "Rotating machinery".

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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 Technical Specification IEC/TS 60034-30-2:2016 was approved by CENELEC as a European Technical Specification without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

|                 |      |                               |
|-----------------|------|-------------------------------|
| IEC 60034-5     | NOTE | Harmonized as EN IEC 60034-5  |
| IEC 60034-12    | NOTE | Harmonized as EN 60034-12     |
| IEC/TS 60034-25 | NOTE | Harmonized as CLC/TS 60034-25 |
| IEC/TS 60034-31 | NOTE | Harmonized as CLC/TS 60034-31 |
| ISO 25745-2     | NOTE | Harmonized as EN ISO 25745-2  |

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

| <u>Publication</u>            | <u>Year</u> | <u>Title</u>                                                                                                                                                                                                                             | <u>EN/HD</u>            | <u>Year</u> |
|-------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------|
| IEC 60034-1                   | -           | Rotating electrical machines - Part 1: Rating and performance                                                                                                                                                                            | EN 60034-1 <sup>1</sup> | -           |
| IEC/TS 60034-2-3 <sup>2</sup> | -           | Rotating electrical machines - Part 2-3: Specific test methods for determining losses and efficiency of converter-fed AC induction motors                                                                                                | EN IEC 60034-2-3        | -           |
| IEC 60034-30-1                | -           | Rotating electrical machines - Part 30-1: Efficiency classes of line operated AC motors (IE code)                                                                                                                                        | EN 60034-30-1           | -           |
| IEC 61800-9-2                 | -           | Adjustable speed electrical power drive systems - Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - Energy efficiency indicators for power drive systems and motor starters | EN 61800-9-2            | -           |

<sup>1</sup> A new edition and common modifications are currently under preparation. Stage of these documents at the time of publication: FprEN 60034-1 and FprEN 60034-1/prAA.

<sup>2</sup> This standard has been withdrawn and replaced with IEC 60034-2-3:2020.

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## ROTATING ELECTRICAL MACHINES –

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

## FOREWORD

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC TS 60034-30-2, which is a technical specification, has been prepared by IEC technical committee 2: Rotating machinery.

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

The text of this technical specification is based on the following documents:

| Enquiry draft | Report on voting |
|---------------|------------------|
| 2/1833/DTS    | 2/1850A/RVC      |

Full information on the voting for the approval of this technical specification 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.

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.

A bilingual version of this publication may be issued at a later date.