



National Standards Authority of Ireland

IRISH STANDARD

I.S. CLC/TS 60034-25:2005

ICS 29.160

**ROTATING ELECTRICAL MACHINES --  
PART 25: GUIDE FOR THE DESIGN AND  
PERFORMANCE OF CAGE INDUCTION  
MOTORS SPECIFICALLY DESIGNED FOR  
CONVERTER SUPPLY**

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TECHNICAL SPECIFICATION

**CLC/TS 60034-25**

SPECIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

October 2005

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ICS 29.160

English version

**Rotating electrical machines  
Part 25: Guide for the design and performance  
of cage induction motors  
specifically designed for converter supply**

Drehende elektrische Maschinen  
Teil 25: Leitfaden für den Entwurf  
und das Betriebsverhalten von  
Induktionsmotoren mit Käfigläufer,  
die speziell für Umrichterbetrieb  
bemessen sind

This Technical Specification was approved by CENELEC on 2005-06-04.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

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

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## Foreword

The text of the Technical Specification IEC/TS 60034-25:2004, prepared by IEC TC 2, Rotating machinery, was submitted to the formal vote and was approved by CENELEC as CLC/TS 60034-25 on 2005-06-04.

The following date was fixed:

- latest date by which the existence of the CLC/TS  
has to be announced at national level (doa) 2005-12-04

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the Technical Specification IEC/TS 60034-25:2004 was approved by CENELEC as a Technical Specification without any modification.

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## Annex ZA (normative)

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

The following referenced documents are indispensable for the application 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 Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60034-1	- <sup>1)</sup>	Rotating electrical machines Part 1: Rating and performance	EN 60034-1	2004 <sup>2)</sup>
IEC 60034-2 + IEC 60034-2A	1972 1974	Part 2: Methods for determining losses and efficiency of rotating electrical machinery from tests (excluding machines for traction vehicles)	EN 60034-2	1996
A1	1995		A1	1996
A2	1996		A2	1996
IEC 60034-6	- <sup>1)</sup>	Part 6: Methods of cooling (IC Code)	EN 60034-6	1993 <sup>2)</sup>
IEC 60034-9 (mod)	- <sup>1)</sup>	Part 9: Noise limits	EN 60034-9	2005 <sup>2)</sup>
IEC 60034-14	- <sup>1)</sup>	Part 14: Mechanical vibration of certain machines with shaft heights 56 mm and higher - Measurement, evaluation and limits of vibration severity	EN 60034-14	2004 <sup>2)</sup>
IEC/TS 60034-17	- <sup>1)</sup>	Part 17: Cage induction motors when fed from converters - Application guide	CLC/TS 60034-17	2004 <sup>2)</sup>
IEC 61800-2	- <sup>1)</sup>	Adjustable speed electrical power drive systems Part 2: General requirements - Rating specifications for low voltage adjustable frequency a.c. power drive systems	EN 61800-2	1998 <sup>2)</sup>
IEC 61800-3	- <sup>1)</sup>	Part 3: EMC requirements and specific test methods	EN 61800-3	2004 <sup>2)</sup>
IEC 61800-5-1	- <sup>1)</sup>	Part 5-1: Safety requirements - Electrical, thermal and energy	EN 61800-5-1	2003 <sup>2)</sup>

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.



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