



National Standards Authority of Ireland
Údarás um Chaighdeáin Náisiúnta na hÉireann

IRISH STANDARD

I.S. EN 60027-4:2007

ICS 01.060

**LETTER SYMBOLS TO BE USED IN
ELECTRICAL TECHNOLOGY -- PART 4:
ROTATING ELECTRIC MACHINES (IEC
60027-4:2006 (EQV))**

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EUROPEAN STANDARD

EN 60027-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2007

ICS 01.060

Supersedes HD 245.4 S1:1987

English version

**Letter symbols to be used in electric technology -
Part 4: Rotating electric machines
(IEC 60027-4:2006)**

Symboles littéraux
à utiliser en électrotechnique -
Partie 4: Machines électriques tournantes
(CEI 60027-4:2006)

Formelzeichen für die Elektrotechnik -
Teil 4: Drehende elektrische Maschinen
(IEC 60027-4:2006)

This European Standard was approved by CENELEC on 2007-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

The text of document 25/330/FDIS, future edition 2 of IEC 60027-4, prepared by IEC TC 25, Quantities and units, and their letter symbols, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60027-4 on 2007-10-01.

This European Standard supersedes HD 245.4 S1:1987.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement | (dop) | 2008-07-01 |
| – latest date by which the national standards conflicting
with the EN have to be withdrawn | (dow) | 2010-10-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60027-4:2006 was approved by CENELEC as a European Standard without any modification.

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 When 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 60027-1	1992	Letter symbols to be used in electrical technology - Part 1: General	EN 60027-1 ¹⁾	2006
IEC 60034-1	2004	Rotating electrical machines - Part 1: Rating and performance	EN 60034-1	2004
IEC 60034-2	1972	Rotating electrical machines - Part 2: Methods for determining losses and efficiency of rotating electrical machinery from tests (excluding machines for traction vehicles)	EN 60034-2 ²⁾	1996
IEC 60034-4 (mod)	1985	Rotating electrical machines - Part 4: Methods for determining synchronous machine quantities from tests	EN 60034-4	1995
IEC 60034-9 (mod)	2003	Rotating electrical machines - Part 9: Noise limits	EN 60034-9	2005
IEC 60034-12	2002	Rotating electrical machines - Part 12: Starting performance of single-speed three-phase cage induction motors	EN 60034-12	2002
IEC/TS 60034-17 + corr. June + corr. April	2002 2002 2003	Rotating electrical machines - Part 17: Cage induction motors when fed from converters - Application guide	CLC/TS 60034-17	2004
IEC/TS 60034-20-1	2002	Rotating electrical machines - Part 20-1: Control motors - Stepping motors	CLC/TS 60034-20-1	2004
IEC 60034-26	2006	Rotating electrical machines - Part 26: Effects of unbalanced voltages on the performance of three-phase cage induction motors	EN 60034-26	2006

¹⁾ EN 60027-1 is based on IEC 60027-1:1995 (Reprint) + A1:1997.

²⁾ EN 60034-2 includes supplement A:1974 to IEC 60034-2.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-101	1998	International Electrotechnical Vocabulary (IEV) - Part 101: Mathematics	—	—
IEC 60050-111	1996	International Electrotechnical Vocabulary (IEV) - Chapter 111: Physics and chemistry	—	—
IEC 60050-121	1998	International Electrotechnical Vocabulary (IEV) - Part 121: Electromagnetism	—	—
IEC 60050-131	2002	International Electrotechnical Vocabulary (IEV) - Part 131: Circuit theory	—	—
IEC 60050-151	2001	International Electrotechnical Vocabulary (IEV) - Part 151: Electrical and magnetic devices	—	—
IEC 60050-411	1996	International Electrotechnical Vocabulary (IEV) - Chapter 411: Rotating machinery	—	—
IEC 61986	2002	Rotating electrical machines - Equivalent loading and super-position techniques - Indirect testing to determine temperature rise	EN 61986	2002

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