



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61800-3:2005

ICS 29.200

33.100

**ADJUSTABLE SPEED ELECTRICAL POWER
DRIVE SYSTEMS PART 3: EMC
REQUIREMENTS AND SPECIFIC TEST
METHODS (IEC 61800-3:2004)**

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*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
February 18, 2005*

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EUROPEAN STANDARD

EN 61800-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2004

ICS 29.200 ; 33.100

Supersedes EN 61800-3:1996 + A11:2000

English version

Adjustable speed electrical power drive systems
Part 3: EMC requirements and specific test methods
(IEC 61800-3:2004)

Entraînements électriques de puissance
à vitesse variable
Partie 3: Exigences de CEM et méthodes
d'essais spécifiques
(CEI 61800-3:2004)

Drehzahlveränderbare elektrische
Antriebe
Teil 3: EMV-Anforderungen einschließlich
spezieller Prüfverfahren
(IEC 61800-3:2004)

This European Standard was approved by CENELEC on 2004-10-01. 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, 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

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

Foreword

The text of document 22G/127/FDIS, future edition 2 of IEC 61800-3, prepared by SC 22G, Adjustable speed electric drive systems incorporating semiconductor power converters, of IEC TC 22, Power electronic systems and equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61800-3 on 2004-10-01.

This European Standard supersedes EN 61800-3:1996 + A11:2000 + corrigendum May 2001.

This European Standard introduces three main changes:

- a) the classes of distribution (unrestricted and restricted) of the PDS have been replaced by categories of PDS (C1 to C4) with definitions related to the product itself and its intended use;
- b) better coverage of emission limits;
- c) an EMC plan is generalized for category C4.

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) | 2005-07-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2007-10-01 |

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of Directive 89/336/EEC. See Annex ZZ.

Annexes ZA and ZZ have been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61800-3:2004 was approved by CENELEC as a European Standard without any modification.

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

| | | |
|----------------|------|--|
| IEC 60038 | NOTE | Harmonized as HD 472 S1:1989 (modified). |
| IEC 60146-1-3 | NOTE | Harmonized as EN 60146-1-3:1993 (not modified). |
| IEC 60146-2 | NOTE | Harmonized as EN 60146-2:2000 (not modified). |
| IEC 61000-2-12 | NOTE | Harmonized as EN 61000-2-12:2003 (not modified). |
| IEC 61000-4-1 | NOTE | Harmonized as EN 61000-4-1:2000 (not modified). |
| IEC 61000-4-7 | NOTE | Harmonized as EN 61000-4-7:2000 (not modified). |
| IEC 61000-4-9 | NOTE | Harmonized as EN 61000-4-9:1993 (not modified). |
| IEC 61000-4-10 | NOTE | Harmonized as EN 61000-4-10:1993 (not modified). |
| IEC 61000-6-1 | NOTE | Harmonized as EN 61000-6-1:2001 (modified). |
| IEC 61000-6-2 | NOTE | Harmonized as EN 61000-6-2:1999 (not modified). |
| IEC 61000-6-4 | NOTE | Harmonized as EN 61000-6-4:2001 (modified). |
| IEC 61800-5-1 | NOTE | Harmonized as EN 61800-5-1:2003 (not modified). |

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 60050-131 | 2002 | International Electrotechnical Vocabulary Part 131: Circuit theory | - | - |
| IEC 60050-151 | 2001 | Part 151: Electrical and magnetic devices | - | - |
| IEC 60050-161 | 1990 | Chapter 161: Electromagnetic compatibility | - | - |
| IEC 60146-1-1 | 1991 | Semiconductor convertors - General requirements and line commutated convertors Part 1-1: Specifications of basic requirements | EN 60146-1-1 | 1993 |
| IEC 60364-1 | 2001 | Electrical installations of buildings Part 1: Fundamental principles, assessment of general characteristics, definitions | - | - |
| IEC 60664-1 | 1992 | Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests | EN 60664-1 ¹⁾ | 2003 |
| IEC/TR 61000-1-1 | - ²⁾ | Electromagnetic compatibility (EMC) Part 1: General - Section 1: Application and interpretation of fundamental definitions and terms | - | - |
| IEC/TR 61000-2-1 | 1990 | Part 2: Environment - Section 1: Description of the environment - Electromagnetic environment for low-frequency conducted disturbances and signalling in public power supply systems | - | - |

¹⁾ EN 60664-1 includes A1:2000 + A2:2002 to IEC 60664-1.

²⁾ Undated reference.

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