



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 61000-3-2:2006**

ICS 33.100.10

**ELECTROMAGNETIC COMPATIBILITY  
(EMC) -- PART 3-2: LIMITS - LIMITS FOR  
HARMONIC CURRENT EMISSIONS  
(EQUIPMENT INPUT CURRENT  $\leq$  16 A PER  
PHASE)**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61000-3-2**

April 2006

ICS 33.100.10

Supersedes EN 61000-3-2:2000 + A2:2005

English version

**Electromagnetic compatibility (EMC)  
Part 3-2: Limits -  
Limits for harmonic current emissions  
(equipment input current  $\leq 16$  A per phase)  
(IEC 61000-3-2:2005)**

Compatibilité électromagnétique (CEM)  
Partie 3-2: Limites -  
Limites pour les émissions  
de courant harmonique (courant appelé  
par les appareils  $\leq 16$  A par phase)  
(CEI 61000-3-2:2005)

Elektromagnetische Verträglichkeit (EMV)  
Teil 3-2: Grenzwerte -  
Grenzwerte für Oberschwingungsströme  
(Geräte-Eingangsstrom  $\leq 16$  A je Leiter)  
(IEC 61000-3-2:2005)

This European Standard was approved by CENELEC on 2006-02-01. 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, 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**

## Foreword

The text of document 77A/503/FDIS, future edition 3 of IEC 61000-3-2, prepared by SC 77A, Low frequency phenomena, of IEC TC 77, Electromagnetic compatibility, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61000-3-2 on 2006-02-01.

This European Standard supersedes EN 61000-3-2:2000 + A2:2005.

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) 2006-11-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2009-02-01

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 EC Directives 89/336/EEC and 1999/5/EC. See Annex ZZ.

Annexes ZA and ZZ have been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61000-3-2:2005 was approved by CENELEC as a European Standard 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 60050-131	- <sup>1)</sup>	International Electrotechnical Vocabulary (IEV) Chapter 131: Electric and magnetic circuits	-	-
IEC 60050-161	- <sup>1)</sup>	Chapter 161: Electromagnetic compatibility	-	-
IEC 60065 (mod)	- <sup>1)</sup>	Audio, video and similar electronic apparatus - Safety requirements	EN 60065 + corr. March	2002 <sup>2)</sup> 2006
IEC 60107-1	- <sup>1)</sup>	Methods of measurement on receivers for television broadcast transmissions Part 1: General considerations - Measurements at radio and video frequencies	EN 60107-1	1997 <sup>2)</sup>
IEC 60155	- <sup>1)</sup>	Glow-starters for fluorescent lamps	EN 60155	1995 <sup>2)</sup>
IEC 60268-3	- <sup>1)</sup>	Sound system equipment Part 3: Amplifiers	EN 60268-3 + corr. January	2000 <sup>2)</sup> 2002
IEC 60335-2-2 (mod)	- <sup>1)</sup>	Household and similar electrical appliances - Safety Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	EN 60335-2-2	2003 <sup>2)</sup>
IEC 60335-2-14 (mod)	- <sup>1)</sup>	Part 2-14: Particular requirements for kitchen machines	EN 60335-2-14	2003 <sup>2)</sup>
IEC 60974-1	- <sup>1)</sup>	Arc welding equipment Part 1: Welding power sources	EN 60974-1	2005 <sup>2)</sup>
IEC 61000-2-2	- <sup>1)</sup>	Electromagnetic compatibility (EMC) Part 2: Environment Section 2: Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems	EN 61000-2-2	2002 <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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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TS 61000-3-4	- <sup>1)</sup>	Part 3-4: Limits - Limitation of emission of harmonic currents in low-voltage power supply systems for equipment with rated current greater than 16 A	-	-
IEC 61000-3-12	- <sup>1)</sup>	Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and $\leq$ 75 A per phase	EN 61000-3-12	2005 <sup>2)</sup>
IEC 61000-4-7	- <sup>1)</sup>	Part 4-7: Testing and measurement techniques - General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	EN 61000-4-7	2002 <sup>2)</sup>
ITU-R Recommendation BT.471-1	- <sup>1)</sup>	Nomenclature and description of colour bar signals	-	-

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