



# SLOVENSKI STANDARD

## SIST EN 61000-3-2:2006/A2:2009

01-november-2009

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SIST EN 61000-3-2:2006/prA1:2007 (fragment 7)

SIST EN 61000-3-2:2006/prA1:2007 (fragment 8)

9`Y\_fca U[ bYfbUnXfi y`fj cghfØA7Ł!" !&"XY.'A Y`bY'j fYXbcghj!'A Y`bY'j fYXbcghj  
nUcXXUUb^Y\ Ufa cbg\_\`hc\_cj`fj\ cXb]hc\_cdfYa YXc`j`\_`f bc`%`5`bUZhcŁf197  
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Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase)

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

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

Ta slovenski standard je istoveten z: EN 61000-3-2:2006/A2:2009

### ICS:

33.100.10      Emisija      Emission

SIST EN 61000-3-2:2006/A2:2009      en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61000-3-2/A2**

July 2009

ICS 33.100.10

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/A2:2009)**

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/A2:2009)

Elektromagnetische  
Verträglichkeit (EMV) -  
Teil 3-2: Grenzwerte -  
Grenzwerte für Oberschwingungsströme  
(Geräte-Eingangsstrom  $\leq 16$  A je Leiter)  
(IEC 61000-3-2:2005/A2:2009)

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SIST EN 61000-3-2:2006/A2:2009

This amendment A2 modifies the European Standard EN 61000-3-2:2006; it was approved by CENELEC on 2009-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of document 77A/674/FDIS, future amendment 2 to IEC 61000-3-2:2005, 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 amendment A2 to EN 61000-3-2:2006 on 2009-07-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2010-04-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2012-07-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of amendment 2:2009 to the International Standard IEC 61000-3-2:2005 was approved by CENELEC as an amendment to the 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 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>
<b>Delete the following reference from Annex ZA of EN 61000-3-2:2006:</b>				
IEC 60065 (mod)	- <sup>1)</sup>	Audio, video and similar electronic apparatus - Safety requirements	EN 60065 + corr. March	2002 <sup>2)</sup> 2006
<b>Add the following reference to Annex ZA of EN 61000-3-2:2006:</b>				
IEC 60268-1	1985	Sound system equipment - Part 1: General	HD 483.1 S2 <sup>3)</sup>	1989

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

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

<sup>3)</sup> HD 483.1 S2 includes A1:1988 to IEC 60268-1.

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IEC 61000-3-2

Edition 3.0 2009-02

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

AMENDMENT 2  
AMENDEMENT 2

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

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

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

PRICE CODE  
CODE PRIX

**F**

ICS 33.100.10

ISBN 2-8318-1027-2

## FOREWORD

This amendment has been prepared by subcommittee 77A: Low-frequency phenomena, of IEC technical committee 77: Electromagnetic compatibility.

The text of this amendment is based on the following documents:

FDIS	Report on voting
77A/674/FDIS	77A/677/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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[SIST EN 61000-3-2:2006/A2:2009](https://standards.iteh.ai/catalog/standards/sist/08d4feff-515a-4b2d-89c9-16c0879f44ba/sist-en-61000-3-2-2006-a2-2009)

[https://standards.iteh.ai/catalog/standards/sist/08d4feff-515a-4b2d-89c9-](https://standards.iteh.ai/catalog/standards/sist/08d4feff-515a-4b2d-89c9-16c0879f44ba/sist-en-61000-3-2-2006-a2-2009)

## 2 Normative references

*Delete from the existing list the following standard:*

IEC 60065, *Audio, video and similar electronic apparatus – Safety requirements*

*Add in the existing list the following new references:*

IEC 60268-1:1985, *Sound system equipment – Part 1: General*

IEC 60268-3, *Sound system equipment – Part 3: Amplifiers*

## 3 Definitions

*Delete definitions 3.5 and 3.8.*

*Renumber the existing definition 3.16, as follows:*

**3.16**  
**total harmonic**

**3.16.1**  
**total harmonic current**

*Add the following new term and definition:*



**3.16.2****total harmonic distortion****THD**

ratio of the r.m.s. value of the sum of the harmonic components (in this context harmonic current components  $I_h$  of orders 2 to 40) to the r.m.s. value of the fundamental component

$$THD = \sqrt{\sum_{h=2}^{40} \left( \frac{I_h}{I_1} \right)^2}$$

**6 General requirements**

*Add the following text after the second paragraph, just before subclause 6.1:*

A simplified test method is permitted for equipment that undergoes minor changes or updates, provided that, in previous full compliance tests, it has been shown to have current emissions below 60 % of the applicable limits and the THD of the supply current is less than 15 %. The simplified test method consists of verifying that the updated equipment has an active input power within  $\pm 20$  % of that of the originally tested product, and that the THD of the supply current is less than 15 %. Products that fulfill these requirements are deemed to comply with the applicable limits, but in case of doubt the result of a full compliance test according to Clauses 6 and 7 takes precedence over this simplified method.

**6.2.2 Measurement procedure**

*Replace the whole existing text of the fifth paragraph (the ante-penultimate paragraph) by the following new text:*

In order not to use a value of power at which limits change abruptly, thus giving rise to doubt as to which limits apply, the manufacturer may specify any value which is within  $\pm 10$  % of the actual measured value and use it for determining the limits for the original manufacturer's conformity assessment test. The measured and specified values of power, as defined in this clause, shall be documented in the test report.

*Replace the whole existing text of the sixth paragraph (the penultimate paragraph) by the following new text:*

If the value of the power found by measurement during emission tests other than the original manufacturer's conformity assessment test, measured according to the terms of this clause, is not less than 90 % nor greater than 110 % of the value for power specified by the manufacturer in the test report (see 6.2.3.5), the specified value shall be used to establish the limits. If the measured value is outside of this tolerance band around the specified value, the measured power shall be used to establish the limits.

**7.3 Limits for Class C equipment**

a) Active input power  $> 25$  W

*Add, at the end of the third dashed item:*

(see the last paragraph of C.5.3).

b) Active input power  $\leq 25$  W

*Replace the whole existing text of the second dashed item by the following new text:*