

SLOVENSKI STANDARD

SIST EN 61000-3-2:1997

01-marec-1997

Nadomešča:

SIST EN 60555-2:1995

Electromagnetic compatibility (EMC) - Part 3: Limits - Section 2: Limits for harmonic current emissions (equipment input current up to and including 16 A per phase) (Supersedes EN 60555-2:1987) (IEC 1000-3-2:1995)

Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)

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Elektromagnetische Verträglichkeit (EMV) -- Teil 3-2: Grenzwerte - Grenzwerte für Oberschwingungsströme (Geräte-Eingangsstrom bis einschließlich 16 A je Leiter)

[SIST EN 61000-3-2:1997](#)

Compatibilité électromagnétique (CEM) -- Partie 3-2: Limites - Limites pour les émissions de courant harmonique (courant appelé par les appareils inférieur ou égal à 16 A par phase)

Ta slovenski standard je istoveten z: EN 61000-3-2:1995

ICS:

33.100.10 Emisija Emission

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EUROPEAN STANDARD

EN 61000-3-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1995

ICS 29.020

Supersedes EN 60555-2:1987

Descriptors: Electric power supply, electric power networks, low voltage, network disturbances, electric equipment, electronic equipment, harmonics, limits, type tests, electromagnetic compatibility



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO
Urad RS za standardizacijo in meroslovje
LJUBLJANA

English version

SIST. EN 61000-3-2

PREVZET PO METODI RAZGLASITVE

-03- 1997

Electromagnetic compatibility (EMC)

Part 3: Limits

Section 2: Limits for harmonic current emissions

(equipment input current ≤ 16 A per phase)

(IEC 1000-3-2:1995)

Compatibilité électromagnétique (CEM)

Partie 3: Limites

Section 2: Limites pour les émissions de

courant harmonique (courant appelé par les appareils ≤ 16 A par phase)

(CEI 1000-3-2:1995)

Elektromagnetische

Verträglichkeit (EMV)

Teil 3: Grenzwerte

Hauptabschnitt 2: Grenzwerte für Oberschwingungsströme

(Geräte-Eingangsstrom ≤ 16 A je Leiter)

(IEC 1000-3-2:1995)

SIST EN 61000-3-2:1997

<https://standards.iteh.ai/catalog/standards/sist/98629243-9424-4756>

9e05-95e29ea9b9cf/sist-en-61000-3-2-1997

This European Standard was approved by CENELEC on 1994-07-05. 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.

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CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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 77A(CO)41 + 41A, future edition 1 of IEC 1000-3-2, 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 1994-07-05.

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) 1995-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-01-01

For products which have complied with EN 60555-2:1987 before 1997-01-01, as shown by the manufacturer or by a certification body, this previous EN may continue to apply for placing products on the market until 2001-01-01.

Annexes designated "normative" are part of the body of the standard.
In this standard, annexes A, B, C and ZA are normative.
Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 1000-3-2:1995 was approved by CENELEC as a European Standard without any modification.



Annex ZA (normative)

Normative references to international publications
with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 50(131)	1978	International electrotechnical vocabulary Chapter 131: Electric and magnetic circuits	-	-
IEC 50(161)	1990	Chapter 161: Electromagnetic compatibility	-	-
IEC 65 (mod)	1985	Safety requirements for mains operated electronic and related apparatus for household and similar general use	-	-
+ A2 (mod)	1989			
+ A3 (mod)	1992		EN 60065 ¹⁾ + corr. Nov.	1993 1993
IEC 107-1	1977	Recommended methods of measurement on receivers for television broadcast transmissions - Part 1: General considerations - Electrical measurements other than those at audio-frequencies	-	-
IEC 155	1993	Glow-starters for fluorescent lamps	EN 60155	1995
IEC 268-3	1988	Sound system equipment Part 3: Amplifiers	HD 483.3 S2 ²⁾	1992
IEC 335-2-7	1993 ³⁾	Safety of household and similar electrical appliances - Part 2: Particular requirements for washing machines	-	-

1) EN 60065 also includes A1:1987.

2) HD 483.3 S2 includes A1:1990 + A2:1991 to IEC 268-3.

3) IEC 335-2-7:1984, mod. is harmonized as EN 60335-2-7:1990.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 1000-2-2 (mod)	1990	Electromagnetic compatibility (EMC) Part 2: Environment Section 2: Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems	ENV 61000-2-2	1993
IEC 1000-4-7	1991	Part 4: Testing and measurement techniques - Section 7: General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	EN 61000-4-7	1993

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
1000-3-2

Première édition
First edition
1995-03

Compatibilité électromagnétique (CEM) –

Partie 3:

Limites – Section 2: Limites pour les émissions de courant harmonique (courant appelé par les appareils ≤ 16 A par phase)

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Electromagnetic compatibility (EMC) –

Part 3:

Limits – Section 2: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

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Commission Electrotechnique Internationale
International Electrotechnical Commission
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CODE PRIX
PRICE CODE

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Pour prix, voir catalogue en vigueur.
For price, see current catalogue

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROMAGNETIC COMPATIBILITY (EMC) –

Part 3: Limits –

Section 2: Limits for harmonic current emissions
(equipment input current ≤ 16 A per phase)

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

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International Standard IEC 1000-3-2 has been prepared by sub-committee 77A: Low-frequency phenomena, of IEC technical committee 77: Electromagnetic compatibility.

It constitutes section 2 of part 3 of IEC 1000.

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

DIS	Report on voting
77A(CO)41 77A(CO)41A	77A(CO)42

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

Annexes A, B and C form an integral part of this standard.

INTRODUCTION

IEC 1000 is published in separate parts, according to the following structure:

Part 1: General

General considerations (introduction, fundamental principles)
Definitions, terminology

Part 2: Environment

Description of the environment
Classification of the environment
Compatibility levels

Part 3: Limits

Emission limits
Immunity limits (in so far as they do not fall under the responsibility of the product committees)

Part 4: Testing and measurement techniques

Measurement techniques
Testing techniques

Part 5: Installation and mitigation guidelines

Installation guidelines
Mitigation methods and devices (standards.iteh.ai)

Part 9: Miscellaneous

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Each part is further subdivided into sections which are to be published either as international standards or as technical reports.

These standards and reports will be published in chronological order and numbered accordingly.

This section is an international standard which gives emission limits for harmonic currents from equipment having an input current up to and including 16 A per phase.

This section is a Product Family Standard.

ELECTROMAGNETIC COMPATIBILITY (EMC) –

Part 3: Limits –

Section 2: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

1 Scope

This section of IEC 1000-3 deals with the limitation of harmonic currents injected into the public supply system.

It specifies limits of harmonic components of the input current which may be produced by equipment tested under specified conditions.

Harmonic components are measured according to annexes A and B.

This section of IEC 1000-3 is applicable to electrical and electronic equipment having an input current up to and including 16 A per phase, and intended to be connected to public low-voltage distribution systems.

The tests according to this standard are type tests. Test conditions for particular equipment are given in annex C.

For systems with nominal voltages less than 220 V (line-to-neutral), the limits have not yet been considered.

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Special equipment, which is not widely used and is designed in such a way that it is unable to comply with the requirements (limits), may be subject to installation restrictions. The supply authorities shall be notified as authorization may be required before connection. Recommendations concerning this aspect are contained in Technical Report IEC 1000-3-4.

NOTE – The words apparatus, appliance, device and equipment are used throughout this standard. They have the same meaning for the purpose of this standard.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this section of IEC 1000-3. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this section of IEC 1000-3 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid international standards.

IEC 50(131): 1978, *International Electrotechnical Vocabulary (IEV) – Chapter 131: Electric and magnetic circuits*

IEC 50(161): 1990, *International Electrotechnical Vocabulary (IEV) – Chapter 161: Electro-magnetic compatibility*

IEC 65: 1985, *Safety requirements for mains operated electronic and related apparatus for household and similar general use*
Amendment No. 2 (1989)
Amendment No. 3 (1992)