

SLOVENSKI STANDARD

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Elektromagnetna združljivost (EMC) - 4-8. del: Preskusne in merilne tehnike - Preskus odpornosti proti magnetnemu polju omrežne frekvence

Electromagnetic compatibility (EMC) -- Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test

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Elektromagnetische Verträglichkeit (EMV) -- Teil 4-8: Prüf- und Meßverfahren - Prüfung der Störfestigkeit gegen Magnetfelder mit energietechnischen Frequenzen

[SIST EN 61000-4-8:2010](https://standards.itih.si/standards/sist/5/c61d02-80bb-4f8e-83f1-1372ccf6eb37/sist-en-61000-4-8-2010)

Compatibilité électromagnétique (CEM) -- Partie 4-8: Techniques d'essai et de mesure - Essai d'immunité au champ magnétique à la fréquence du réseau

Ta slovenski standard je istoveten z: EN 61000-4-8:2010\$

ICS:

33.100.20 Imunost Immunity

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61000-4-8

February 2010

ICS 33.100.20

Supersedes EN 61000-4-8:1993 + A1:2001

English version

**Electromagnetic compatibility (EMC) -
Part 4-8: Testing and measurement techniques -
Power frequency magnetic field immunity test
(IEC 61000-4-8:2009)**

Compatibilité électromagnétique (CEM) -
Partie 4-8: Techniques d'essai
et de mesure -
Essai d'immunité au champ magnétique
à la fréquence du réseau
(CEI 61000-4-8:2009)

Elektromagnetische Verträglichkeit (EMV) -
Teil 4-8: Prüf- und Meßverfahren -
Prüfung der Störfestigkeit gegen
Magnetfelder mit energietechnischen
Frequenzen
(IEC 61000-4-8:2009)

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This European Standard was approved by CENELEC on 2010-02-01. 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, Bulgaria, Croatia, 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/694/FDIS, future edition 2 of IEC 61000-4-8, 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 61000-4-8 on 2010-02-01.

This European Standard supersedes EN 61000-4-8:1993 + A1:2001.

EN 61000-4-8:2010 includes the following significant technical changes with respect to EN 61000-4-8:1993: the scope is extended in order to cover 60 Hz. Characteristics, performance and verification of the test generator and related inductive coils are revised. Modifications are also introduced in the test set-up (GRP) and test procedure.

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) 2010-11-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2013-02-01

Annex ZA has been added by CENELEC.

iTeh STANDARD PREVIEW Endorsement notice (standards.iteh.ai)

The text of the International Standard IEC 61000-4-8:2009 was approved by CENELEC as a European Standard without any modification.

[SIST EN 61000-4-8:2010](#)

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

IEC 60068-1	NOTE	Harmonized as EN 60068-1.
IEC 61000-2-4	NOTE	Harmonized as EN 61000-2-4.

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 60050-161	-	International Electrotechnical Vocabulary (IEV) - Chapter 161: Electromagnetic compatibility	-	-

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**Electromagnetic compatibility (EMC) –
Part 4-8: Testing and measurement techniques – Power frequency magnetic
field immunity test**

**Compatibilité électromagnétique (CEM) –
Partie 4-8: Techniques d'essai et de mesure – Essai d'immunité au champ
magnétique à la fréquence du réseau**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROMAGNETIC COMPATIBILITY (EMC) –**Part 4-8: Testing and measurement techniques –
Power frequency magnetic field immunity test**

FOREWORD

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International Standard IEC 61000-4-8 has been prepared by subcommittee 77A: Low frequency phenomena, of IEC technical committee 77: Electromagnetic compatibility.

This second edition cancels and replaces the first edition published in 1993 and its Amendment 1 (2000). It forms a technical revision.

This edition includes the following significant technical changes with respect to the previous edition: the scope is extended in order to cover 60 Hz. Characteristics, performance and verification of the test generator and related inductive coils are revised. Modifications are also introduced in the test set-up (GRP) and test procedure.

It forms Part 4-8 of the IEC 61000 series of standards. It has the status of a basic EMC publication in accordance with IEC Guide 107.

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

FDIS	Report on voting
77A/694/FDIS	77A/706/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61000 series, under the general title *Electromagnetic compatibility*, can be found on the IEC website.

The committee has decided that the contents of this 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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INTRODUCTION

This standard is part of the IEC 61000 series of standards, 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 [SIST EN 61000-4-8:2010](https://standards.iteh.ai/catalog/standards/sist/7c6c1d02-80bb-4f8e-83f1-1373ccf6eb37/sist-en-61000-4-8-2010)

Part 9: Miscellaneous

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Each part is further subdivided into several parts, published either as international standards, as technical specifications or technical reports, some of which have already been published as sections. Others will be published with the part number followed by a dash and a second number identifying the subdivision (example: IEC 61000-6-1).

This part is an international standard which gives immunity requirements and test procedures related to "power frequency magnetic field".