

SLOVENSKI STANDARD SIST EN 61000-4-9:1997

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Elektromagnetna združljivost (EMC) - 4-9. del: Preskusne in merilne tehnike - Preskus odpornosti proti impulznemu magnetnemu polju (IEC 61000-4-9:1993)

Electromagnetic compatibility (EMC) -- Part 4-9: Testing and measurement techniques - Pulse magnetic field immunity test

Elektromagnetische Verträglichkeit (EMV) -- Teil 4-9: Prüf- und Meßverfahren - Prüfung der Störfestigkeit gegen impulsförmige Magnetfelder REVIEW

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Compatibilité Electromagnétique (CEM) -- Partie 4-9: Techniques d'essai et de mesure Essai d'immunité au champ magnétique impulsionnel.

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Ta slovenski standard je istoveten z: EN 61000-4-9-1997

ICS:

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ENGLISH VERSION

Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 9: Pulse magnetic field immunity test Basic EMC Publication (IEC 1000-4-9:1993)

Compatibilité électromagnétique Partie 4: Techniques d'essai et de mesure

Section 9: Essai d'immunité au champ magnétique impulsionnel Publication fondamentale en CEM

(CEI 1000-4-9:1993) en STANDARD (PEC 1000-4-9) 1993)

Elektromagnetische Verträglichkeit (EMV) Teil 4: Prüf- und Meßverfahren Hauptabschnitt 9: Prüfung der Störfestigkeit gegen impulsförmige Magnetfelder EMV-Grundnorm

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This European Standard was approved by CENELEC on 1992-06-16. CENELEC members pare 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.

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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

Page 2 EN 61000-4-9:1993

FOREWORD

The text of document 77B(CO)8, as prepared by Sub-Committee 77B: High frequency phenomena, of IEC Technical Committee 77: Electromagnetic compatibility, was submitted to the IEC-CENELEC parallel vote in September 1991.

The reference document was approved by CENELEC as EN 61000-4-9 on 16 June 1992.

The following dates were fixed:

- latest date of publication of an identical national standard
- (dop) 1994-06-01
- latest date of withdrawal of conflicting national standards
- (dow) 1994-06-01

Annexes designated "normative" are part of the body of the standard. Annexes designated "informative" are given only for information. In this standard, annexes A, B and ZA are normative and annexes C and D are informative.

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SIST LENDORSEMENT, NOTICE

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The text of the International Standard IEC 1000-4-9:1993 was approved by CENELEC as a European Standard without any modification.

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD WITH THE REFERENCES OF THE RELEVANT 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.

NOTE: When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
60-2	1973	High-voltage test techniques Part 2: Test procedures	Silver Si	
68-1	1988	Environmental testing Part 1: General and guidance	HD 323.1 S2	1988
469-1	1987	Pulse techniques and apparatus Part 1: Pulse terms and definitions	W an <u>i</u> 2000 1003	-

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NORME INTERNATIONALE INTERNATIONAL **STANDARD**

CEI IEC 1000-4-9

> Première édition First edition 1993-06

Compatibilité électromagnétique -

Partie 4:

Techniques d'essai et de mesure – Section 9: Essai d'immunité au iTeh champ magnetique impulsionnel Publication fondamentale en CEM

SIST EN 61000-4-9:1997

https://standardElectromagnetic/compatibility (EMC) -

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Part 4:

Testing and measurement techniques -Section 9: Pulse magnetic field immunity test **Basic EMC Publication**

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PRICE CODE



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

Part 4: Testing and measurement techniques—
Section 9: Pulse magnetic field immunity test
Basic EMC Publication

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a world-wide 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 (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters, prepared by technical committees on which all 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 for of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, the IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national or regional standards. Any divergence between the IEC Standards and the corresponding national or regional standards shall be clearly indicated in the latter. https://standards.iteh.ai/catalog/standards/sist/18282763-14ee-4cc0-8b4a-

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International Standard IEC 1000-4-9 has been prepared by sub-committee 77B: High frequency phenomena, of IEC technical committee 77: Electromagnetic compatibility.

It forms section 9 of part 4 of IEC 1000. 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:

DIS	Report on Voting
77B(CO)8	77B(CO)14

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

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

Annexes C and D are for information only.

-9-

INTRODUCTION

This standard is part of the IEC 1000 series, 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 they do not fall under the responsibility of the product committees)

Part 4: Testing and measurement techniques

Measurement techniques

Testing techniques ITEM STANDARD PREVIEW

Part 5: Installation and mitigation guidelines siteh.ai)

Installation guidelines

Mitigation methods and devices TEN 61000-4-9:1997

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Part 9: Miscellaneous 54d8b50d5793/sist-en-61000-4-9-1997

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

ELECTROMAGNETIC COMPATIBILITY (EMC) -

Part 4: Testing and measurement techniques —
Section 9: Pulse magnetic field immunity test
Basic EMC Publication

1 Scope

This international standard relates to the immunity requirements of equipment, only under operational conditions, to pulse magnetic disturbances mainly related to:

- industrial installations and power plants;
- medium voltage and high voltage sub-stations.

The applicability of this standard to equipment installed in different locations is determined by the presence of the phenomenon, as specified in clause 3.

This standard does not consider disturbances due to capacitive or inductive coupling in cables or other parts of the field installation.

Other IEC standards dealing with conducted disturbances cover these aspects.

The object of this standard is to establish a common and reproducible basis for evaluating the performance of electrical and electronic equipment for household, commercial and industrial applications when subjected to pulse magnetic fields.

The standard defines:

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- recommended test levels: 54d8b50d5793/sist-en-61000-4-9-1997
- test equipment;
- test set-up:
- test procedure.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this section of IEC 1000-4. 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 1000-4 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 60-2: 1973, High-voltage test techniques - Part 2: Test procedures

IEC 68-1: 1988, Environmental testing - Part 1: General and guidance

IEC 469-1: 1987, Pulse techniques and apparatus - Part1: Pulse terms and definitions