

SLOVENSKI STANDARD

SIST EN IEC 61000-4-11:2020

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SIST EN 61000-4-11:2005

SIST EN 61000-4-11:2005/A1:2017

Elektromagnetna združljivost (EMC) - 4-11. del: Preskusne in merilne tehnike - Preskusi odpornosti proti upadom napetosti, kratkotrajnim prekinitvam in napetostnim kolebanjem za opremo z vhodnim tokom do 16 A na fazo

Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase

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Compatibilité électromagnétique (CEM) - Partie 4-11: Techniques d'essai et de mesure - Essais d'immunité aux creux de tension, coupures brèves et variations de tension pour les appareils à courant d'entrée inférieur ou égal à 16 A par phase

Ta slovenski standard je istoveten z: EN IEC 61000-4-11:2020

ICS:

33.100.20 Imunost Immunity

SIST EN IEC 61000-4-11:2020 en

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EUROPEAN STANDARD

EN IEC 61000-4-11

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2020

ICS 33.100.20

Supersedes EN 61000-4-11:2004 and all of its
amendments and corrigenda (if any)

English Version

Electromagnetic compatibility (EMC) - Part 4-11: Testing and
measurement techniques - Voltage dips, short interruptions and
voltage variations immunity tests for equipment with input current
up to 16 A per phase
(IEC 61000-4-11:2020)

Compatibilité électromagnétique (CEM) - Partie 4-11:
Techniques d'essai et de mesure - Essais d'immunité aux
creux de tension, coupures brèves et variations de tension
pour les appareils à courant d'entrée inférieur ou égal à 16
A par phase
(IEC 61000-4-11:2020)

Elektromagnetische Verträglichkeit (EMV) - Teil 4-11: Prüf-
und Messverfahren - Prüfungen der Störfestigkeit gegen
Spannungseinbrüche, Kurzzeitunterbrechungen und
Spannungsschwankungen für Geräte mit einem
Eingangsstrom bis zu und einschließlich 16 A je Leiter
(IEC 61000-4-11:2020)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 61000-4-11:2020 (E)**European foreword**

The text of document 77A/1039/FDIS, future edition 3 of IEC 61000-4-11, prepared by SC 77A "EMC - Low frequency phenomena" of IEC/TC 77 "Electromagnetic compatibility" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61000-4-11:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-12-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-03-03

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Endorsement notice

The text of the International Standard IEC 61000-4-11:2020 was approved by CENELEC as a European Standard without any modification.

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

IEC 61000-2 (series)	NOTE	Harmonized as EN 61000-2 (series)
IEC 61000-2-4	NOTE	Harmonized as EN 61000-2-4
IEC 61000-4-11:2004	NOTE	Harmonized as EN 61000-4-11:2004 (not modified)
IEC 61000-4-14	NOTE	Harmonized as EN 61000-4-14

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC TR 61000-2-8	-	Electromagnetic compatibility (EMC) – Part 2-8: Environment – Voltage dips and short interruptions on public electric power supply systems with statistical measurement results	-	-

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PUBLICATION FONDAMENTALE EN CEM

**Electromagnetic compatibility (EMC) –
Part 4-11: Testing and measurement techniques – Voltage dips, short
interruptions and voltage variations immunity tests for equipment with input
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**Compatibilité électromagnétique (CEM) –
Partie 4-11: Techniques d'essai et de mesure – Essais d'immunité aux creux
de tension, coupures brèves et variations de tension pour les appareils
à courant d'entrée inférieur ou égal à 16 A par phase**

INTERNATIONAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROMAGNETIC COMPATIBILITY (EMC) –**Part 4-11: Testing and measurement techniques –
Voltage dips, short interruptions and voltage variations immunity
tests for equipment with input current up to 16 A per phase**

FOREWORD

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International Standard IEC 61000-4-11 has been prepared by subcommittee 77A: EMC – Low frequency phenomena, of IEC technical committee 77: Electromagnetic compatibility.

It forms Part 4-11 of IEC 61000. It has the status of a basic EMC publication in accordance with IEC Guide 107.

This third edition cancels and replaces the second edition published in 2004 and Amendment 1:2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) rise time and fall time of transients are now defined terms in Clause 3;
- b) the origin of voltage dips and short interruptions is now stated in Clause 4.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
77A/1039/FDIS	77A/1056/RVD

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

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

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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

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INTRODUCTION

IEC 61000 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

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Part 6: Generic standards

Part 9: Miscellaneous

Each part is further subdivided into several parts, published either as International Standards or 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).