

SLOVENSKI STANDARD SIST EN 61587-3:2013

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Nadomešča:

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Mehanske strukture za elektronsko opremo - Preskusi za IEC 60917 in IEC 60297 -3. del: Preskušanje lastnosti elektromagnetnega zaslona ohišij in okvirov

Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 -Part 3: Electromagnetic shielding performance tests for cabinets and subracks

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Structures mécaniques pour équipment électronique - Essais pour la CEI 60917 et la CEI 60297 - Partie 3: Essais de performances du blindage électromagnétique pour les baies et les bacs à cartestandards.iteh.ai/catalog/standards/sist/701d87b8-a5f6-4adf-87f3-83831345f776/sist-en-61587-3-2013

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Mechanical structures for elektronsko opremo electronic equipment

SIST EN 61587-3:2013 en **SIST EN 61587-3:2013**

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NORME EUROPÉENNE EUROPÄISCHE NORM

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English version

Mechanical structures for electronic equipment Tests for IEC 60917 and IEC 60297 Part 3: Electromagnetic shielding performance tests for cabinets and subracks

(IEC 61587-3:2013)

Structures mécaniques pour équipment

électronique -

Essais pour la CEI 60917

et la CEI 60297 -

Partie 3: Essais de performances du

blindage électromagnétique pour les baies

et les bacs à cartes

(CEI 61587-3:2013)

Mechanische Bauweisen für elektronische Einrichtungen -

Prüfungen für IEC 60917 und IEC 60297 -

Teil 3: Schirmdämpfungsprüfungen für Schränke und Baugruppenträger

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CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 48D/527/FDIS, future edition 2 of IEC 61587-3, prepared by SC 48D, "Mechanical structures for electronic equipment", of IEC TC 48, "Electromechanical components and mechanical structures for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61587-3:2013.

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

 latest date by which the national standards conflicting with the document have to be withdrawn

(dow) 2016-03-13

This document supersedes EN 61587-3:2006.

EN 61587-3:2013 includes the following significant technical changes with respect to EN 61587-3:2006:

EN 61587-3:2013 corrects the errors of EM code descriptions and the frequency range for the shielding performance is extended up to 3 000-MHz.NDARD PREVIEW

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Endorsement notice

The text of the International Standard IEC 61587-3:2013 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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.

Publication	Year	Title	EN/HD	Year
IEC 60297	Series	Dimensions of mechanical structures of the 482,6 mm (19 in) series	HD 493	Series
IEC 60917	Series	Modular order for the development of mechanical structures for electronic equipment practices	EN 60917	Series
IEC 61000-4-3	-	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	-
IEC 61000-5-7	iT	Electromagnetic compatibility (EMC). Part 5-7: Installation and mitigation guidelines - Degrees of protection by enclosures against electromagnetic disturbances (EM code)	EN 61000-5-7	-
CISPR 16-1	Series https://sta	Specification for radio disturbance and armunity measuring apparatus and methods 83831345f776/sist-en-61587-3-2013	EN 55016-1 df-87ß-	Series

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Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 -

Part 3: Electromagnetic shielding performance tests for cabinets and subracks

SIST EN 61587-3:2013

Structures mécaniques pour équipement électronique - Essais pour la CEI 60917 et la CEI 60297 - 83831345f776/sist-en-61587-3-2013

Partie 3: Essais de performance du blindage électromagnétique pour les baies et les bacs à cartes

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MECHANICAL STRUCTURES FOR ELECTRONIC EQUIPMENT – TESTS FOR IEC 60917 AND IEC 60297 –

Part 3: Electromagnetic shielding performance tests for cabinets and subracks

FOREWORD

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International Standard IEC 61587-3 has been prepared by subcommittee 48D: Mechanical structures for electronic equipment, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This second edition cancels and replaces the first edition issued in 2006. It constitutes a technical revision.

The main technical changes with regard to the previous edition are as follows.

This edition corrects the errors of EM code descriptions and the frequency range for the shielding performance is extended up to 3 000 MHz.

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

FDIS	Report on voting
48D/527/FDIS	48D/534/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 IEC 61587 series, under the general title *Mechanical structures for electronic equipment – Tests for IEC 60917 and IEC 60297*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability 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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MECHANICAL STRUCTURES FOR ELECTRONIC EQUIPMENT – TESTS FOR IEC 60917 AND IEC 60297 –

Part 3: Electromagnetic shielding performance tests for cabinets and subracks

1 Scope and object

This part of IEC 61587 specifies the tests for empty cabinets and subracks concerning electromagnetic shielding performance, in the frequency range of 30 MHz to 3 000 MHz. Stipulated attenuation values are chosen for the definition of the shielding performance level of cabinets and subracks for the IEC 60297 and IEC 60917 series. The shielding performance levels are chosen with respect to the requirements of the typical fields of industrial application. They will support the measures to achieve electromagnetic compatibility but cannot replace the final testing of compliance of the equipped enclosure.

The purpose of this standard is to ensure physical integrity and environmental performance of cabinets and subracks, taking into account the need for different levels of performance in different applications. It is intended to give the user a level of confidence in the selection of products to meet his specific needs. This standard in whole or in part applies only to the empty enclosures, for example cabinets and subracks according to IEC 60297 and IEC 60917 and does not apply to the enclosures when electronic equipment is installed. Chassis may be tested in the same way as cabinets.

This standard was developed in close relationship to IEC 61000-5-7 but with the specific focus on subracks and cabinets and the determination of performance levels at the chosen frequency range.

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2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60297 (all parts), Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series

IEC 60917 (all parts), Modular order for the development of mechanical structures for electronic equipment practices

IEC 61000-4-3, Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test

IEC 61000-5-7, Electromagnetic compatibility (EMC) – Part 5-7: Installation and mitigation guidelines – Degrees of protection provided by enclosures against electromagnetic disturbances (EM code)

CISPR 16-1 (all parts), Specification for radio disturbance and immunity measuring apparatus and methods