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ILNAS-EN 61587-6:2017

Mechanical structures for electrical and electronic equipment - Tests for IEC 60917 and IEC 60297 series - Part 6: Security aspects for indoor cabinets

Mechanische Bauweisen für elektrische
und elektronische Einrichtungen -
Prüfungen für die Reihen IEC 60917 und
IEC 60297 - Teil 6: Sicherheitsaspekte für

Structures mécaniques pour équipement
électrique et électronique - Essais pour
les séries IEC 60917 et IEC 60297 - Partie
6: Aspects de sécurité pour les baies

08/2017



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**Mechanical structures for electrical and electronic equipment -
Tests for IEC 60917 and IEC 60297 series - Part 6: Security
aspects for indoor cabinets
(IEC 61587-6:2017)**

Structures mécaniques pour équipement électrique et
électronique - Essais pour les séries IEC 60917 et IEC
60297 - Partie 6 : Aspects de sécurité pour les baies
d'intérieur
(IEC 61587-6:2017)

Mechanische Bauweisen für elektrische und elektronische
Einrichtungen - Prüfungen für die Reihen IEC 60917 und
IEC 60297 - Teil 6: Sicherheitsaspekte für
Innenraumschränke
(IEC 61587-6:2017)

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

The text of document 48D/634/FDIS, future edition 1 of IEC 61587-6, prepared by SC 48D "Mechanical structures for electrical and electronic equipment" of IEC/TC 48 "Electrical connectors and mechanical structures for electrical and electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61587-6:2017.

The following dates are fixed:

- latest date by which the document has to be (dop) 2018-03-23
implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2020-06-23
standards conflicting with the
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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC27001

NOTE Harmonized as EN 27001.

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 1 When 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 60297	series	Dimensions of mechanical structures of the- 482,6 mm (19 in) series		series
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	-	-
IEC 60917	series	Modular order for the development of mechanical structures for electronic equipment practices	EN 60917	series
IEC 60917-1	-	Modular order for the development of mechanical structures for electronic equipment practices -- Part 1: Generic standard	EN 60917-1	-
IEC 61587-1	-	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 series - Part 1: Environmental requirements, test set-up and safety aspects for cabinets, racks, subracks and chassis under indoor condition use and transportation	EN 61587-1	-
IEC 61587-2	-	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 -- Part 2: Seismic tests for cabinets and racks	EN 61587-2	-



INTERNATIONAL STANDARD



**Mechanical structures for electrical and electronic equipment – Tests for
IEC 60917 and IEC 60297 series –
Part 6: Security aspects for indoor cabinets**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MECHANICAL STRUCTURES FOR ELECTRICAL AND ELECTRONIC
EQUIPMENT – TESTS FOR IEC 60917 AND IEC 60297 SERIES –****Part 6: Security aspects for indoor cabinets****FOREWORD**

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International Standard IEC 61587-6 has been prepared by subcommittee 48D:Mechanical structures for electrical and electronic equipment, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

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

FDIS	Report on voting
48D/634/FDIS	48D/641/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 61587 series, published under the general title *Mechanical structures for electrical and electronic equipment – Tests for IEC 60917 and IEC 60297 series*, 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
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INTRODUCTION

The security of electrical and electronic equipment or systems, which nowadays is being applied in many electronic equipment or systems in the fields of ICT (information and communication technology) and of industrial/infrastructure control systems, is becoming a critical issue.

In general, security is achieved by restrictions and protections against improper or unauthorized accesses from both hardware and software sides of the systems.

Considering the security of the hardware of electronic equipment or systems, which are built up in the mechanical structures such as cabinets based on IEC 60297 series and IEC 60917 series, it depends on conditions of their installation sites, on the security level of system hardware which provides access protection at the installation sites, and on the robustness of the mechanical structures and of their mechanical locks both at the access gates/doors of the installation sites and of the mechanical structures.

Therefore, a classification of the installation conditions and of the levels of security measures for hardware is very important for design and practices of various electronic equipment or systems, which are used in the field of ICT, industrial control, transportation and others.

From this point of view, this document intends to clarify the relationship between the installation conditions and the security requirements for indoor cabinets, and to provide the required performances and test methods on mechanical components related with security provisions for indoor cabinets which are in accordance with IEC 60297 series and IEC 60917 series.

Vandalism protection aspect is applied by user-specific requirements in general. Therefore, this document has no definition of vandalism.