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**Mehanske konstrukcije elektronske opreme – Mere mehanskih konstrukcij v seriji 482,6 mm (19 in) – 3-103. del: Kodirni in poravnalni trn (IEC 60297-3-103:2004)**

Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 3-103: Keying and alignment pin (IEC 60297-3-103:2004)

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EUROPEAN STANDARD

**EN 60297-3-103**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2004

ICS 31.240

Supersedes EN 60297-5-104:2001 & EN 60297-5-105:2001

English version

**Mechanical structures for electronic equipment -  
Dimensions of mechanical structures of the 482,6 mm (19 in) series  
Part 3-103: Keying and alignment pin  
(IEC 60297-3-103:2004)**

Structures mécaniques  
pour équipement électronique -  
Dimensions des structures mécaniques  
de la série de 482,6 mm (19 in)  
Partie 3-103: Codage et broche  
d'alignement  
(CEI 60297-3-103:2004)

Bauweisen für elektronische  
Einrichtungen -  
Maße der 482,6-mm-(19-in)-Bauweise  
Teil 3-103: Kodierung und Führungsstift  
(IEC 60297-3-103:2004)

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This European Standard was approved by CENELEC on 2004-09-01. 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.

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 48D/301/FDIS, future edition 1 of IEC 60297-3-103, 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 was approved by CENELEC as EN 60297-3-103 on 2004-09-01.

This European Standard supersedes EN 60297-5-104:2001 and EN 60297-5-105:2001.

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) 2005-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-09-01

Annex ZA has been added by CENELEC.

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## **Endorsement notice**

The text of the International Standard IEC 60297-3-103:2004 was approved by CENELEC as a European Standard without any modification.

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## 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 Where 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 60297-3-101	- <sup>1)</sup>	Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series Part 3-101: Subracks and associated plug-in units	EN 60297-3-101	2004 <sup>2)</sup>
IEC 60297-3-102	- <sup>1)</sup>	Part 3-102: Injector/extractor handle	EN 60297-3-102	2004 <sup>2)</sup>
IEC 60917-1	1998	Modular order for the development of mechanical structures for electronic equipment practices Part 1: Generic standard	EN 60917-1	1998

[SIST EN 60297-3-103:2005](https://standards.iteh.ai/catalog/standards/sist/dfd9e0f8-46e2-4116-80f0-48458669f364/sist-en-60297-3-103-2005)  
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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

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# INTERNATIONAL STANDARD

# IEC 60297-3-103

First edition  
2004-08

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## Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series –

### Part 3-103:

### Keying and alignment pin (standards.iteh.ai)

[SIST EN 60297-3-103:2005](https://standards.iteh.ai/catalog/standards/sist/dfd9e0f8-46e2-4116-80f0-48458669f364/sist-en-60297-3-103-2005)

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MECHANICAL STRUCTURES FOR ELECTRONIC EQUIPMENT –  
DIMENSIONS OF MECHANICAL STRUCTURES  
OF THE 482,6 mm (19 in) SERIES –**

**Part 3-103: Keying and alignment pin**

**FOREWORD**

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International Standard IEC 60297-3-103 has been prepared by subcommittee 48D: Mechanical structures for electronic equipment, of IEC technical committee 48: Electro-mechanical components and mechanical structures for electronic equipment.

This standard cancels and replaces IEC 60297-5-104 and 60297-5-105.

The text of this standard is based on following documents:

FDIS	Report on voting
48D/301/FDIS	48D/308/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.

The IEC 60297-3 series consists of the following parts, under the general title *Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series*

Part 3-101: Subracks and associated plug-in units

Part 3-102: Injector/extractor handle

Part 3-103: Keying and alignment pin

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.

A bilingual edition of this standard may be issued at a later date.

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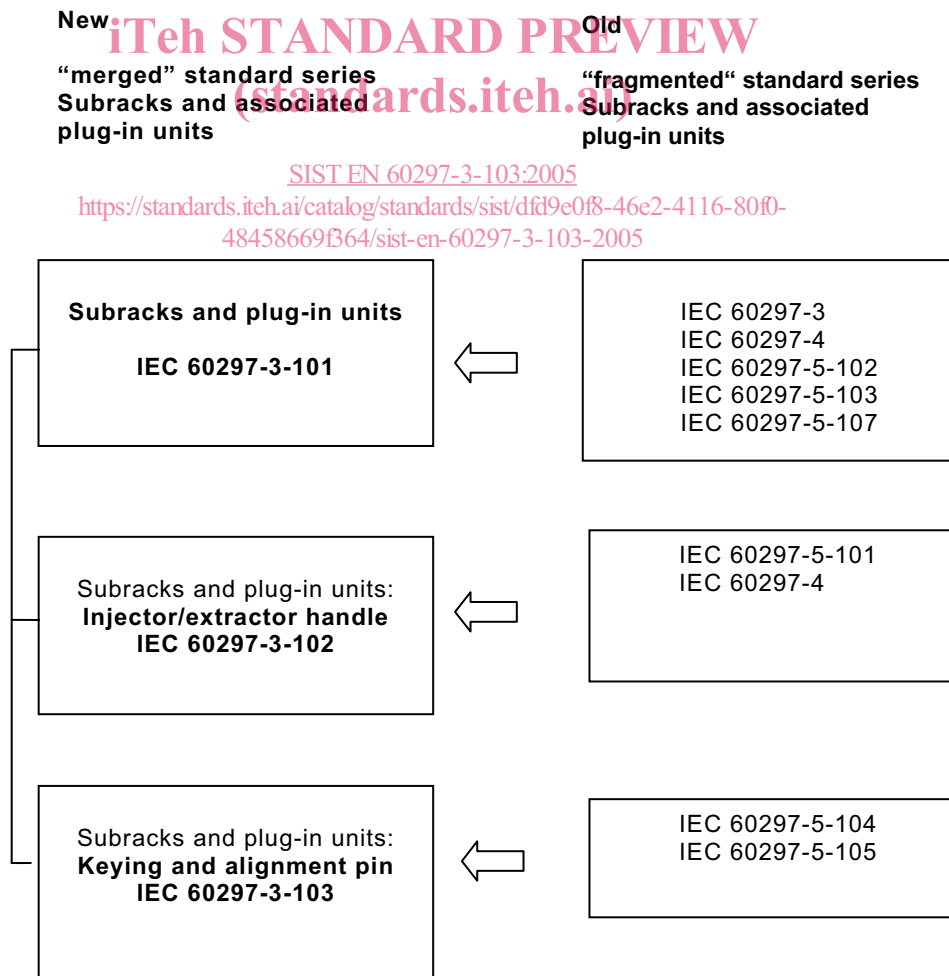
## INTRODUCTION

The “Dimensions of mechanical structures of the 482,6 mm (19 in) standards are defined in IEC 60297. To the original IEC 60297-3:1988 publication was added Amendment 1:1995. The additional requirements were published in IEC 60297-4:1995 with Amendment 1:1999.

The extended requirements were published in the IEC 60297-5-1XX series (2001). Responding to market requirements and for more clarity it became necessary to merge and technically enhance these standard “parts” into 3 “new” standards for subracks and associated plug-in units. This “merged” standard series now defined as IEC 60297-3-101, IEC 60297-3-102 and IEC 60297-3-103 explains its relationship to the previous “fragmented” IEC 60297-X standards, see Figure 1.

The nomenclature of these new standards has been revised. The relationship to IEC 60297-1 (Part 1: Panels and Racks) has been maintained. The relationship to IEC 60297-2 (Part 2: Cabinets and pitches of rack structures) has been maintained. The relationship to IEC 61587-1 (Part 1: Climatic, mechanical tests and safety aspects for cabinets, racks, subracks and chassis) and IEC TS 61587-3 (Part 3: Electromagnetic shielding performance tests for cabinets, racks and subracks) has been added.

IEC 60297-3-103 defines only the interface dimensions for an alignment pin and a keying device which are additional to those defined in IEC 60297-3-101.



IEC 1089/04

**Figure 1 – Relationship between the new IEC 60297-3 series and the old IEC 60297 series**