

INTERNATIONAL
STANDARD

IEC
60297-3-103

First edition
2004-08

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

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

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

PRICE CODE

P

For price, see current catalogue

CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope and object.....	6
2 Normative references	6
3 Terms and definitions	6
4 Arrangement overview: Keying of plug-in units in a subrack.....	7
4.1 General.....	7
4.2 Subrack interface dimensions for keying	8
4.3 Plug-in unit keying interface dimensions.....	8
4.4 Key dimensions	9
4.5 Programming of keys	9
4.6 Keying chamber inspection dimensions	10
5 Arrangement overview: alignment and/or electrical contact of a plug-in unit to a subrack	11
5.1 General.....	11
5.2 Alignment and/or electrical contact receptacle in the subrack guide rail for printed board type plug-in units (width dimension > 4 = 5,08 mm).....	12
5.3 Alignment and/or electrical contact interface inspection dimensions.....	13
6 Arrangement overview: Subrack guide rail and printed board, 2,54 mm offset of the printed board reference plane	14
6.1 General.....	14
6.2 Dimensions of the subrack guide rail with 2,54 mm offset of the printed board reference plane	15
6.3 Reference plane for printed boards with 2,54 mm offset position.....	15
7 Dimensions used in the figures	16
Figure 1 – Relationship between the new IEC 60297-3 series and the old IEC 60297 series	5
Figure 2 – Keying of a plug-in unit in a subrack	7
Figure 3 – Subrack interface dimensions for keying	8
Figure 4 – Plug-in unit keying interface dimensions	8
Figure 5 – Key dimensions.....	9
Figure 6 – Programming of keys.....	9
Figure 7 – Front and/or rear subrack and plug-in unit keying chamber inspection dimensions	10
Figure 8 – Alignment and/or electrical contact of a plug-in unit to a subrack	11
Figure 9 – Alignment and/or electrical contact receptacle position in the subrack	12
Figure 10 – Alignment and/or electrical contact interface inspection dimensions.....	13
Figure 11 – Subrack guide rail and printed board, 2,54 mm offset of the printed board reference plane	14
Figure 12 – Dimensions of the subrack guide rail with 2,54 mm offset of the printed board reference plane	15
Figure 13 – Reference plane for printed boards with 2,54 mm offset position.....	15

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.

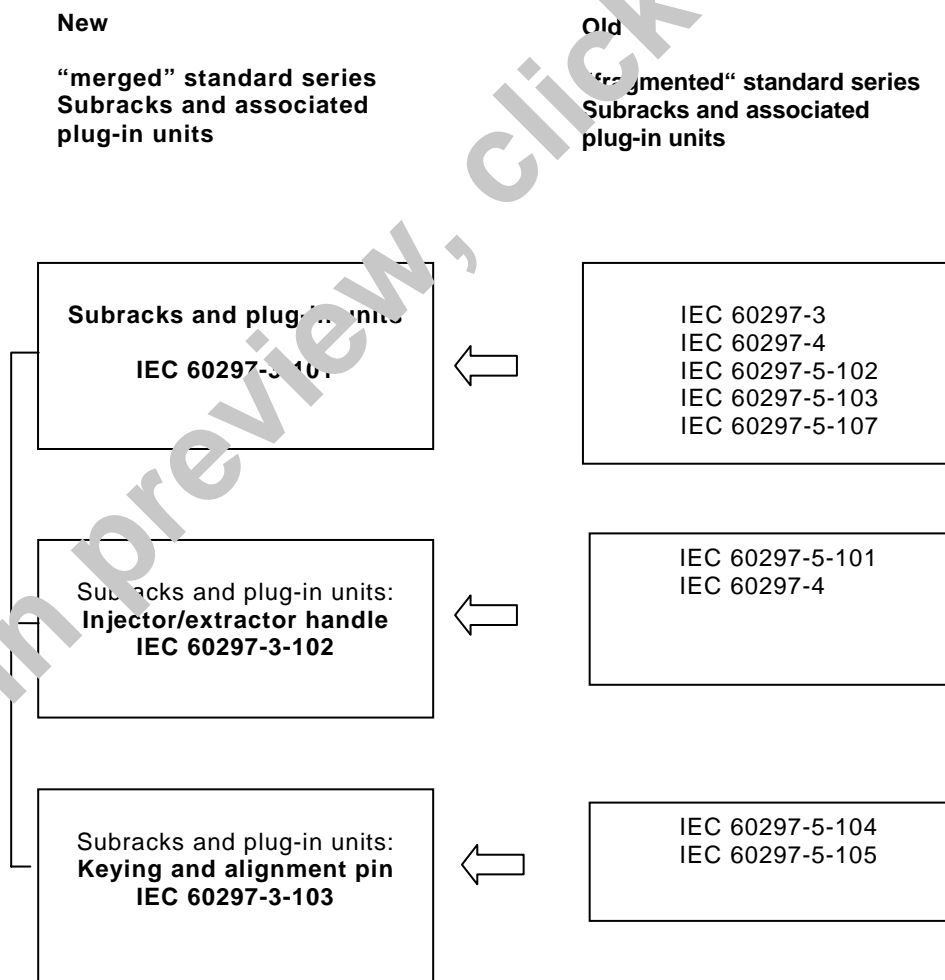
INTRODUCTION

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

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

Part 3-103: Keying and alignment pin

1 Scope and object

This part of IEC 60297 covers only the additional interface dimensions for an alignment pin and a keying device used with subracks and plug-in units according to IEC 60297-3-101. This standard may also be used in conjunction with IEC 60297-3-102.

2 Normative references

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.

IEC 60297-3-101, *Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 3-101: Subracks and associated plug-in units*

IEC 60297-3-102, *Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 3-102: Injector/extractor handle*

IEC 60917-1:1998, *Modular order for the development of mechanical structures for electronic equipment practices*