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**Mehanske konstrukcije za elektronsko opremo - Mere mehanskih konstrukcij serije 482,6 mm (19 palcev) - 3-108. del: Mere okvirov vrste R in vtičnih enot**

Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series -- Part 108: Dimensions of R-type subracks and plug-in units

Bauweisen für elektronische Einrichtungen - Maße der 482,6-mm-(19-in-)Bauweise - Teil 3-108: Maße von Baugruppenträgern und steckbaren Baugruppen Typ R

Structures mécaniques pour équipements électroniques - Dimensions des structures mécaniques de la série 482,6 mm (19 pouces) - Partie 3-108: dimensions des bacs de type r et des blocs enfichables

**Ta slovenski standard je istoveten z: EN 60297-3-108:2015**

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31.240	Mehanske konstrukcije za elektronsko opremo	Mechanical structures for electronic equipment
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EUROPEAN STANDARD

**EN 60297-3-108**

NORME EUROPÉENNE

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January 2015

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**Mechanical structures for electronic equipment - Dimensions of  
mechanical structures of the 482,6 mm (19 in) series - Part 3-  
108: Dimensions of R-type subracks and plug-in units  
(IEC 60297-3-108:2014)**

Structures mécaniques pour équipements électroniques -  
Dimensions des structures mécaniques de la série 482,6  
mm (19 pouces) - Partie 3-108: dimensions des bacs de  
type r et des blocs enfichables  
(IEC 60297-3-108:2014)

Bauweisen für elektronische Einrichtungen - Maße der  
482,6-mm-(19-in-)Bauweise - Teil 3-108: Maße von  
Baugruppenträgern und steckbaren Baugruppen Typ R  
(IEC 60297-3-108:2014)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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## Foreword

The text of document 48D/565/FDIS, future edition 1 of IEC 60297-3-108, 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 60297-3-108:2015.

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) 2014-07-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-10-14

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## 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60297-3-100	-	Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series -- Part 3-100: Basic dimensions of front panels, subracks, chassis, racks and cabinets	EN 60297-3-100	-
IEC 60297-3-101	-	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	-
IEC 60297-3-105	-	Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series -- Part 3-105: Dimensions and design aspects for 1U high chassis	EN 60297-3-105	-
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 conditions	EN 61587-1	-
IEC 61587-3	-	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 -- Part 3: Electromagnetic shielding performance tests for cabinets, racks and subracks	EN 61587-3	-
IEC 61587-5	-	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 -- Part 5: Seismic tests for chassis, subracks, and plug-in units	EN 61587-5	-
IEC/TS 62610-2	-	Mechanical structures for electronic equipment - Thermal management for cabinets in accordance with IEC 60297 and IEC 60917 series - Part 2: Design guide: Method for the determination of forced air-cooling structure	-	-

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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 3-108: Dimensions of R-type subracks and plug-in units**

**Structures mécaniques pour équipements électroniques – Dimensions des structures mécaniques de la série 482,6 mm (19 pouces) – Partie 3-108: Dimensions des bacs de type R et des blocs enfichables**

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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 3-108: Dimensions of R-type subracks and plug-in units**

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International Standard IEC 60297-3-108 has been prepared by subcommittee 48D: Mechanical structures for electronic equipment, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

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

FDIS	Report on voting
48D/565/FDIS	48D/570/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 60297 series, under the general title *Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series* 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

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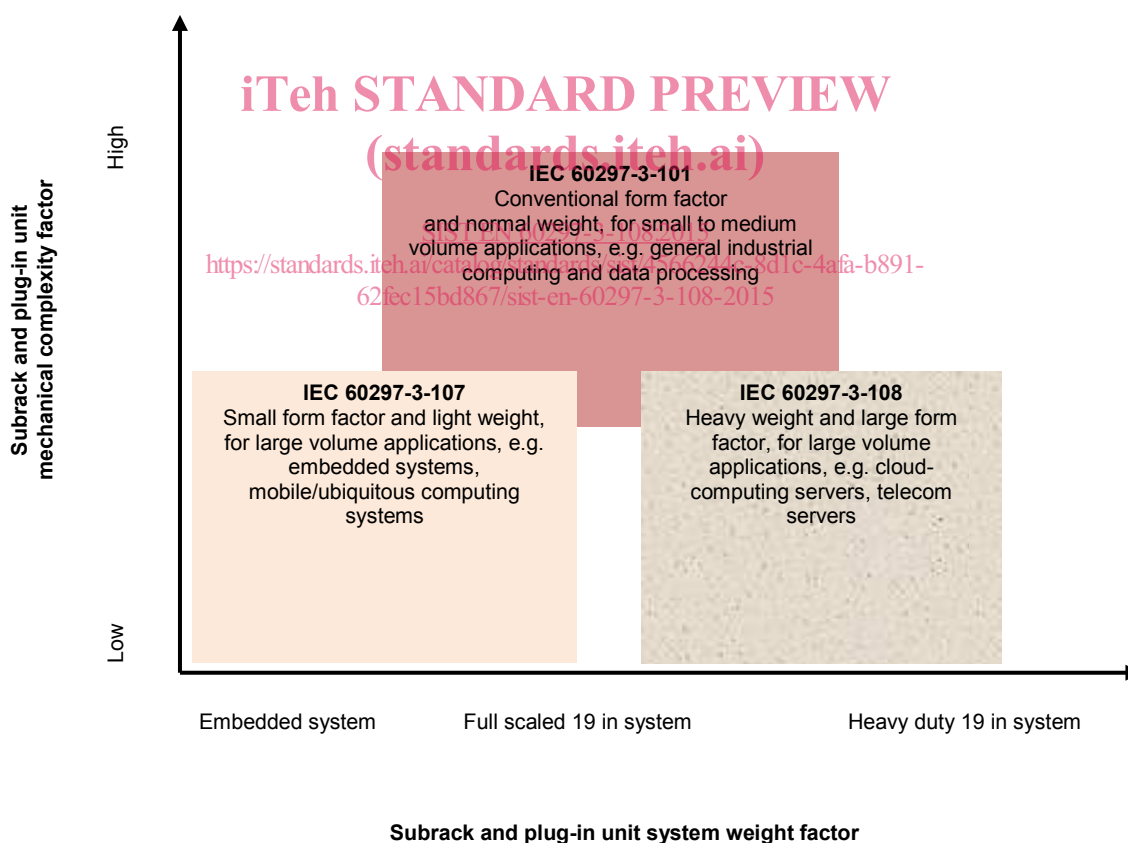
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## INTRODUCTION

The purpose of this standard is to establish alternative dimensions and features for subracks and associated plug-in units, compared with IEC 60297-3-101. These alternatives allow more sturdy designs for the load bearing members of the subrack. In addition, the plug-in units are with alignment pins and fastened with M3 screws. Chassis integrated subracks are also part of this standard.

The main differing dimensions/features compared with IEC 60297-3-101 are:

- The subrack height aperture is decreased in order to increase the dimension for the top and bottom members (most critical load bearing parts).
- Incorporated alignment between the subrack and the plug-in units. Injecting and extracting provisions for plug-in units.
- The mounting flanges of the subracks are recessable. This feature meets the mounting requirements of heavy subracks and allows the positioning to the centre of gravity.
- Chassis integrated subracks for optimized thermal management features.
- Comparison of dimensions and features with IEC 60297-3-101 is shown in appendix D, Table D.1. For an application image of the subrack based on this standard see Figure 1.



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**Figure 1 – Subrack application**