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

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NATIONAL FOREWORD

See Eesti standard EVS-EN 60297-3-108:2015 sisaldab Euroopa standardi EN 60297-3-108:2015 ingliskeelset teksti.	This Estonian standard EVS-EN 60297-3-108:2015 consists of the English text of the European standard EN 60297-3-108:2015.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 16.01.2015.	Date of Availability of the European standard is 16.01.2015.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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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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European Committee for Electrotechnical Standardization
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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Endorsement notice

The text of the International Standard IEC 60297-3-108:2014 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 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.

Publication	Year	Title	EN/HD	Year
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	-	-

CONTENTS

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:

a) The subrack height aperture is decreased in order to increase the dimension for the top and bottom members (most critical load bearing parts).

b) Incorporated alignment between the subrack and the plug-in units. Injecting and extracting provisions for plug-in units.

c) 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.

d) Chassis integrated subracks for optimized thermal management features.

e) 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.

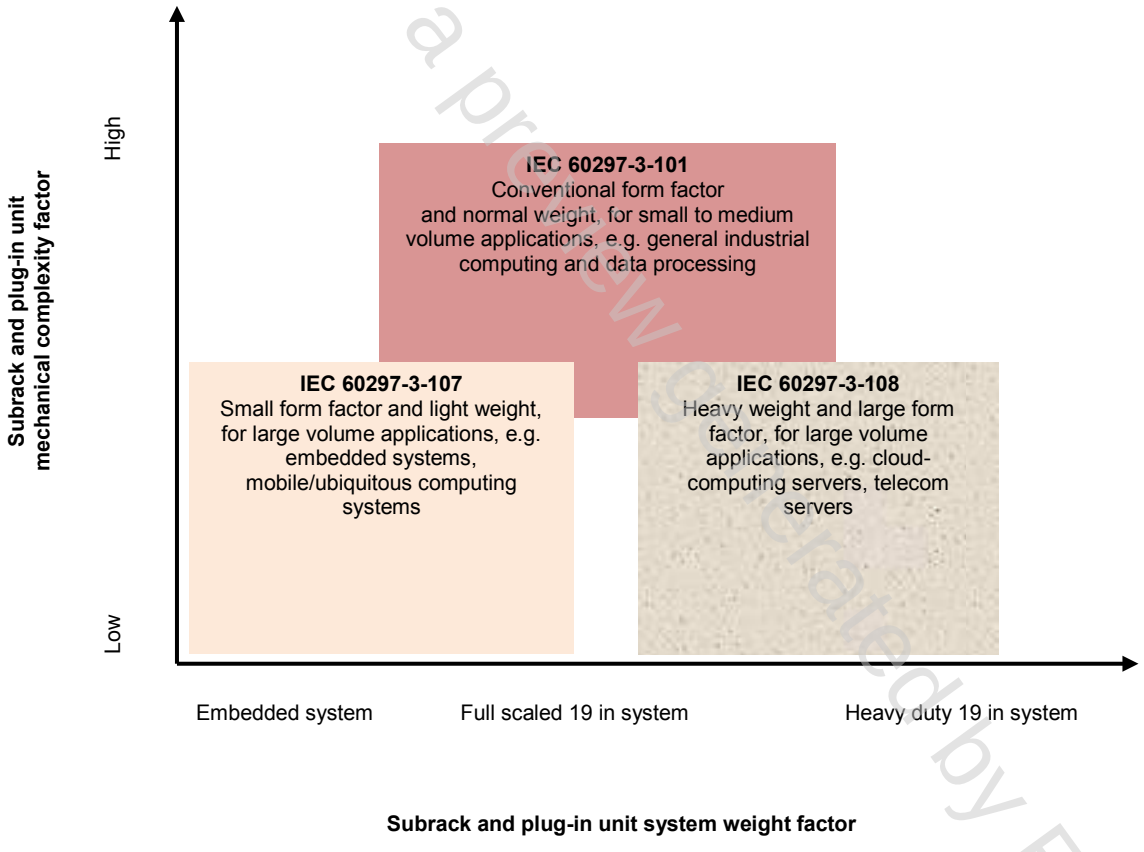

Figure 1 – Subrack application