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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 19290.7-2021

Modular order for the development of mechanical structures for electronic equipment practices - Part 2-5: Sectional specification - Interface co-ordination dimensions for the 25 mm equipment practice - Cabine tinterface dimensions for miscellaneous equipm

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules of Standardization Documents"

Drafting.

This document is part 2-5 of GB/T 19290 "Modulus Sequence of Mechanical Structure of Electronic Equipment Structure in Development". GB/T 19290 has

The following parts have been released.

---Part 1.General Specification;

---Part 2.Sub-specification of the interface coordination size of 25mm equipment structure;

---Part 2-1.Sectional specification of the interface coordination size of 25mm equipment structure. Detailed specification of the size of cabinets and racks;

---Part 2-2.Sectional specification of detailed specifications for interface coordination dimensions of 25mm equipment structures

The size of the plug-in;

---Part 2-3.Detailed specifications for the expansion of the interface coordination size of the 25mm equipment body

The size of the panel and the plug-in;

---Part 2-4.Sectional specification 25mm equipment structure interface coordination size is applicable to IEC 60297-3-100 (19in)

The size of the cabinet or rack's plug-in box or chassis;

---Part 2-5.Sub-standard 25mm equipment structure interface coordination size various equipment cabinet interface size.

The translation method used in this document is equivalent to the adoption of IEC 60917-2-5.2012 "The Modulus Sequence of Mechanical Structures of Electronic Equipment Structures in Development"

Part 2-5.Sub-specification of the interface coordination dimensions of 25mm equipment structures. The interface dimensions of various equipment cabinets.

The Chinese documents that have consistent correspondence with the normatively cited international documents in this document are as follows.

---GB/T 19290.1-2003 Developing electronic equipment structure mechanical structure modulus sequence Part 1.General specification

(IEC 60917-1.1998, IDT);

---GB/T 19290.3-2008 Developing Electronic Equipment Structure Mechanical Structure Modulus Part 2-1.Sectional Specification 25mm

The detailed specification of the interface coordination size of the equipment structure is the size of the cabinet and the rack (IEC 60917-2-1.1993, IDT);

---GB/T 19520.16-2015 Electronic equipment mechanical structure 482.6mm (19in) series mechanical structure size Part 3-100

Points. the basic dimensions of panels, sub-boxes, chassis, racks and cabinets (IEC 60297-3-100.2008, IDT).

Introduction

GB/T 19290 "The Modulus Sequence of Mechanical Structure of Electronic Equipment Structures in Development" is a metric system specified in the internationally accepted SI unit of measurement

As the basis of measurement, a new set of electronic equipment structure mechanical structure modulus sequence was established, and the original metric and imperial modulus sequence was equalized.

Stable transition to the new metric module sequence. The main problems it solves are.

---Seek for the size arrangement with the smallest area and space waste;

---The interchange of product size, i.e. external dimensions and installation dimensions;

---Coordination and docking of product sizes between adjacent technical fields.

GB/T 19290 "The Modulus Sequence of Mechanical Structure of Electronic Equipment Structures in Development" is a guide for the metric system based on the size of the metric module sequence.

The basic and universal standards of the mechanical structure and dimensions of cabinets, chassis, sub-boxes, racks and plug-ins are currently composed of seven parts.

---Part 1.General Specification. Aims to establish a general modulus sequence rule and size coordination principle for all metric equipment structures.

---Part 2.Sub-standard 25mm equipment structure interface coordination size. Aims to establish specific

The interface size range of the mechanical structure of the metric equipment structure to achieve size compatibility.

---Part 2-1.Sectional specification 25mm equipment structure interface coordination size detailed specification cabinet and rack size. Purpose

The cabinet or rack designed in accordance with Part 2 of the specification shall be installed with mechanically interchangeable dimensions.

---Part 2-2.Sectional specification of detailed specifications for interface coordination dimensions of 25mm equipment structures

The size of the plug-in. Aims to standardize sub-boxes, chassis, plug-ins, backplanes, and panels designed according to Part 2 sub-specifications with mechanical

Interchangeable size.

---Part 2-3.Detailed specifications for the expansion of the interface coordination size of the 25mm equipment body

The size of the panel and the plug-in. Aims to standardize the addition of the modular sequence of the plug-in box and its plug-in based on the sub-specification of Part 2-1

size.

---Part 2-4.Sectional specification 25mm equipment structure interface coordination size is applicable to IEC 60297-3-100 (19in)

The size of the cabinet or rack's subrack or chassis. Designed to establish metric plug-in connectors suitable for installation in 19in cabinets or racks

The size of the mounting flange of the box or chassis is to meet the requirements of the combined use of the metric standard and the 19in standard.

---Part 2-5.Sub-standard 25mm equipment structure interface coordination size various equipment cabinet interface size. Pass

The mounting surface with mounting points on the frame structure of the Yi cabinet aims to establish the interface size specifications for diversified devices.

It is expected that GB/T 19290 will be further extended in the future.

Modulus Sequence of Mechanical Structure of Electronic Equipment Structure in Development

Part 2-5.Sectional specification for 25mm equipment structures

Interface coordination size cabinet interface size for various equipment

1 Scope

This document is applicable to the frame type cabinet structure with interface size specification, which is used to install various equipment. Frame structure provides belt installation

Point mounting surface, used to assemble internal and external accessories. Unlike IEC 60917-2-1 and IEC 60297-3-100, this document allows top cover

Covers such as front/rear doors exceed the external coordinated dimensions of the cabinet.

2 Normative references

The content of the following documents constitutes an indispensable clause of this document through normative references in the text. Among them, the dated reference documents, only

The version corresponding to this date is applicable to this document; for undated references, the latest version (including all amendments) is applicable to this document.

IEC 60297-3-100 Mechanical Structure of Electronic Equipment 482.6mm (19in) Series