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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 42207.5-2022

Connectors for electronic equipment - Product requirements - Rectangular connectors - Part 5: Detail specification for rewirable power connectors with snap locking for rated voltage of250 V d. c. and rated current of 30 A

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Table of Contents

Preface
Introduction
1 Scope 1
2 Normative references 1
3 Terms and Definitions 2
4 Feature 2
4.1 Ratings and Characteristics 2
4.2 Performance level 2
4.3 Compatibility Level 2
4.4 Climate category 2
4.5 Clearances and creepage distances 2
4.6 Ampacity 3
4.7 Flag 3
5 Size information 3
5.1 General 3
5.2 Axonometric drawings and general features 3
5.3 Fixed end connector 3
5.4 Free end connector 5
5.5 Annex 7
5.6 Installation Information 7
5.7 Standard gauge 8
6 Technical characteristics 8
6.1 Climate category 8
6.2 Electrical characteristics 8
6.3 Mechanical properties 9
6.4 Dynamic stress test 11
6.5 Climate test 11
6.6 Environmental factors 11
7 trials 12
7.1 General 12
7.2 Test list 12
7.3 Test procedure and measurement method 17

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Preview: page 2 of 5 shown, full document available. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-42207-5-2022

7.4 Sample pretreatment before test 17
7.5 Wiring and installation of test samples 17
Reference 18

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 for Standardization Documents"

drafting.

This document is part 5 of GB/T 42207 "Connector Product Requirements for Electronic Equipment Rectangular Connector". GB/T 42207

The following parts have been published.

--- Part 5.Detailed specification for rated voltage DC 250V rated current 30A snap lock rewirable power connector.

This document is equivalent to IEC 61076-3-120.2016 "Product Requirements for Connectors for Electronic Equipment Part 3-120.Rectangular Connection

Detail specification for snap lock rewirable power connector with rated voltage DC 250V rated current 30A.

The following minimal editorial changes have been made to this document.

--- In order to coordinate with the existing standard, change the name of the standard to "Connector Product Requirements for Electronic Equipment Rectangular Connector Part 5

Sub. Rated Voltage DC 250V Rated Current 30A Snap Lock Rewirable Power Connector Detailed Specification";

--- The IEC 61076-3.2008 cited in the original international standard is deleted in the normative reference document because it is not cited in the text.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 42207 "Connector Product Requirements for Electronic Equipment Rectangular Connector" is proposed to be composed of the following parts.

--- Part 1.Sub-specification (IEC 61076-3). The purpose is to establish a unified detailed specification and technical information for rectangular connectors, as

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The basis for the development of a consistent product detail specification for rectangular connectors.

--- Part 2.Blank detailed specification (IEC 61076-3-001). The purpose is to standardize the content of detailed specifications for rectangular connector products

content, for use with Part 1.

--- Part 3.8-channel unshielded free and fixed connectors for industrial IEC 60603-7 series interface data transmission in detail

Specification (IEC 61076-3-106). The purpose is to specify the industrial IEC 60603-7 series interface data transmission with 8-channel non-screen

Outline dimensions, interface dimensions, technical parameters, performance requirements and test methods of shielded free and fixed connectors.

--- Part 4.Detailed specification for shielded free and fixed connectors for data transmission up to 1000MHz (IEC 61076-3-

110). The purpose of this standard is to specify the external dimensions, connectors and connectors of shielded free and fixed connectors for data transmission up to 1000MHz.

Requirements such as port size, technical parameters, performance requirements and test methods.

--- Part 5.Detail specification for rated voltage DC 250V rated current 30A snap lock rewirable power connector

(IEC 61076-3-120). The purpose is to specify the rated voltage DC 250V rated current 30A buckle lock can be repeated wiring

Outline dimensions, interface dimensions, technical parameters, performance requirements and test methods of power connectors.

--- Part 6.Detailed specification for reinforced 8-channel shielded free and fixed connectors (IEC 61076-3-122). The purpose is to provide

Outline dimensions, interface dimensions, technical parameters, performance requirements and test methods, etc. of solid 8-channel shielded free and fixed connectors

Require.

--- Part 7.Detailed specification for 10-channel shielded free and fixed connectors for industrial I/O and gigabit transmission capabilities (IEC 61076-3-

124). The purpose is to specify the outline dimensions of 10-channel shielded free and fixed connectors for industrial I/O and gigabit transmission capabilities

Dimensions, interface dimensions, technical parameters, performance requirements and

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test methods and other requirements.

Product requirements for connectors for electronic equipment

Rectangular connectors part 5. rated voltage dc

250V rated current 30A buckle lock repeatable

Wiring Power Connector Detail Specification

1 Scope

This document specifies the overall dimensions, interface dimensions, technical

Technical parameters, performance requirements and test methods, etc.

This document applies to non-breaking capacity connectors specified in IEC 61984.2008, mainly used for DC power distribution equipment in the communication field,

Including outdoor modules, subrack power supplies, etc.

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2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

GB/T 3956-2008 Cable Conductors (IEC 60228.2004, IDT)

GB/T 4210-2015 Electrotechnical terms Electromechanical components for electronic equipment (IEC 60050-581.2008, IDT)

GB/T 17464-2012 The safety requirements for threaded and non-threaded clamps for electrical copper conductors of connecting devices are applicable to

General requirements and special requirements for clamping parts of conductors from 0.2 mm2 up to 35 mm2 (inclusive) (IEC 60999-1.1999, IDT)

GB/T 20636-2006 The safety requirements for threaded and non-threaded clamps for electrical copper conductors of connecting devices are applicable to

Special requirements for wires above 35mm2 to 300mm2 (IEC 60999-2.2003, IDT)

plastic products)

Note. GB/T 16288-2008 Marking of plastic products (ISO 11469.2000, MOD)

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