

CCS K 30



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/Z 40825-2021

Electrical accessories - Harmonization of general rules

Issued on: October 11, 2021

Implemented on: May 1, 2022

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 General requirements	2
5 Heat resistance	3
6 Screws, current-carrying parts and their connections (electrical and mechanical)	5
7 Resistance to abnormal heat and flame	8
8 Tracking resistance of insulating materials	10
9 Anti-rust performance	11
10 Mark's legibility, durability and scratch resistance	11
11 Screw-type terminals for conductor connection	12
12 Annex Standard Test Criteria	13
13 Tolerance	13
14 Mechanical strength	13
15 Appropriate size of insulation distance	13
16 Anti-ultraviolet (UV)	17
Appendix A (informative) Material selection process	19
Appendix B (informative) GWEPT temperature recommendations	21
Reference	22
Figure 1 Self-tapping locking screw	5
Figure 2 Self-cutting screw	5
Figure 3 Small part	9
Figure 4 Test piston size	12
Figure B.1 GWEPT temperature recommendation flow chart	21
Table 1 Torque corresponding to thread diameter.....	7
Table A.1 The minimum glow-wire ignition temperature (GWIT) of the insulating material required for the flammability classification of the selected material	20
Table A.2 The minimum glow-wire ignition temperature (GWIT) of the insulating material required by the GWFI classification of the selected material	20
Table A.3 The minimum number of arcs required for the flammability classification of the selected material	20
Table A.4 The minimum number of arcs required for the GWFI classification of the selected material	20

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.

The revision of this document adopts IEC TR61916.2017 "Coordination of General Provisions of Electrical Accessories".

The technical differences between this document and IEC TR61916.2017 and the reasons are as follows.

---According to the corresponding relationship between my country's Standardization Technical Committee and IEC /TC23, TC23 in the original text is revised to "SAC/TC67 And its sub-technical committee and SAC/TC189/SC1".

The following editorial changes have been made to this document.

---According to the normative references in this document, add normative references, see Chapter 2;

--- In the note of 4.2.1.2, IEC TR61916.2017 gives the "3K5 level" of IEC 60721-3-3, according to my country's GB/T 4798.3,

Amended to "3K5L level";

---According to IEC 60695-2-11, which has been transformed into my country's standard GB/T 5169.11, the order of notes in Appendix B has been adjusted.

Introduction

This document aims to coordinate all standards issued by SAC/TC67 and its sub-technical committees and SAC/TC189/SC1 to promote electrical appliances

The unification of various standard test conditions and methods in the professional field of accessories effectively improves the efficiency of the collaborative use of standards in the professional field of electrical accessories.

General Coordination of Electrical Accessories

1 Scope

This document specifies the requirements and test guidelines for electrical accessories.

This document applies to electrical accessories.

This document provides the requirements applicable to electrical accessories within the

scope of SAC/TC67 and its sub-technical committees and SAC/TC189/SC1.

Guidelines for the summation test.

2 Normative references

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

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 2423.7 Environmental test Part 2. Test method Test Ec. Impact caused by rough operation (mainly used for equipment type

Sample) (GB/T 2423.7-2018, IEC 60068-2-31.2008, IDT)

GB/T 3956 cable conductor (GB/T 3956-2008, IEC 60228.2004, IDT)

GB/T 4207 Method for determination of tracking resistance index and comparative tracking index of solid insulating materials (GB/T 4207-2012,

IEC 60112.2009, IDT)

GB/T 5169.10-2017 Fire hazard test of electric and electronic products Part 10. Glow wire/hot wire basic test method

Hot wire device and general test method (IEC 60695-2-10.2013, IDT)

GB/T 5169.11-2017 Fire hazard test for electric and electronic products Part 11. Glow wire/hot wire basic test method

Glow wire flammability test method (GWEPT) (IEC 60695-2-11.2014, IDT)

GB/T 5169.21-2017 Fire hazard test for electric and electronic products Part 21. Abnormal hot ball pressure test method

(IEC 60695-10-2.2014, IDT)

GB/T 9797 metal covering layer nickel-chromium and copper-nickel-chromium electroplating layer (GB/T 9797-2005, ISO 1456.2003, IDT)

GB/T 9799 Metal and other inorganic coatings The treated zinc electroplating layer on steel (GB/T 9799-2011, ISO 2081.

2008, IDT)

GB/T 12599 Technical specifications and test methods for tin electroplated metal coatings (GB/T 12599-2002, ISO 2093.

1986, MOD)

GB/T 13140.1 Connecting devices for low-voltage circuits for household and similar purposes Part 1.General requirements (GB/T 13140.1-

2008, IEC 60998-1..2002, IDT)

GB/T 13140.2 Connecting devices for low-voltage circuits for household and similar purposes Part 2.Threaded clamps as independent units

Special requirements for connecting devices of tight fittings (GB/T 13140.2-2008, IEC 60998-2-1..2002, IDT)

GB/T 16422.2 Plastic laboratory light source exposure test method Part 2.Xenon arc lamp (GB/T 16422.2-2014,

ISO 4892-2.2006, IDT)

GB/T 16499 Compilation of electrical and electronic safety publications and application guide for basic safety publications and multi-professional safety publications

Rules (GB/T 16499-2017, IEC Guide104.2010, NEQ)

Test tool for testing the protection of GB/T 16842 enclosure against people and equipment (GB/T 16842-2016, IEC 61032.1997, IDT)

GB/T 16915.1 Switches for household and similar fixed electrical installations Part 1.General requirements (GB/T 16915.1-