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

GB/T 15092.101-2020

**Switches for appliances - Part 1-1: Requirements for
mechanical switches**

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Foreword

GB/T 15092 "Appliance Switch" is divided into the following parts:

---Part 1: General requirements;

---Part 1-1: Mechanical switch requirements;

---Part 1-2: Requirements for electronic switches;

---Part 2: Special requirements;

* Special requirements for soft cord switches;

* Special requirements for conversion selector;

* Special requirements for independent installation switches;

* Special requirements for hand-held and portable power tools and garden machinery switches:

This part is Part 1-1 of GB/T 15092:

This section was drafted in accordance with the rules given in GB/T 1:1-2009:

This section uses the redrafting method to modify and adopt IEC 61058-1-1:2016 "Appliance Switch Part 1-1: Mechanical Switch Requirements":

The technical differences between this part and IEC 61058-1-1:2016 and the reasons are as follows:

---IEC 61058-1-1:2016's 14:3 stipulates: "The humidity treatment is carried out in a humid chamber, and the relative humidity of the air in the chamber is 91%~

Between 95%: In all places where the sample is placed, the air temperature is maintained at any suitable temperature (t) between 20°C and 30°C",

Considering that some areas of our country have a humid tropical climate, and all electrical and electronic products in our country use (40+/-2) degrees C for moisture resistance test,

Therefore, this part stipulates: "The humidity treatment is carried out in a humid chamber, and the relative humidity of the air in the chamber is between 91% and 95%:

In all places where the sample is placed, the air temperature should be maintained at any suitable temperature (t) between 30°C and 40°C: This requirement is consistent with

GB/T 2423:4-2008 adopts the same severity level:

---IEC 61058-1-1:2016 17:5:6 stipulates: "When required in Chapter 13, use 3 samples of different test groups for

TC10 test, instead of the sample part in the test sequence of Table 101, pass 17:6:1 (TE1)

and 17:6:2 (TE2) to test", consider

Considering that 17:6:2 (TE2) is the thermal conformity assessment, which is for the complete sequence test of Chapter 14, Chapter 15, Chapter 16, and Chapter 17:

After the assessment, the TC10 test is an institutional assessment conducted using 3 samples from different test groups, and passed 17:6:1

(TE1) and 17:6:3 (TE3) are more reasonable to test, that is, functional qualification and insulation qualification are used to evaluate the test results: So the headquarters

Sub-regulations: "When required in Chapter 13, use 3 samples from different test groups for the TC10 test instead of the table 101 test:

The sample part of the test sequence is tested through 17:6:1 (TE1) and 17:6:3 (TE3)":

This section has made the following editorial changes:

---Added references:

This part was proposed by China Electrical Equipment Industry Association:

This part is under the jurisdiction of the National Electrical Accessories Standardization Technical Committee (SAC/TC67):

Drafting organizations of this section: Shanghai Electric Tool Research Institute (Group) Co., Ltd., Zhejiang Zhongxun Electronics Co., Ltd., Zhangjiagang Huajie Electronics

Co., Ltd., Zhejiang Jiaben Electronics Co., Ltd., Changzhou Yunjie Electric Co., Ltd., Yueqing Huiyang Electromechanical Co., Ltd., Zhejiang Guanbao Electronics Co., Ltd:

Co., Ltd., Fa-German Electric Co., Ltd., Zhejiang Changlong Electric Co., Ltd., Southeast Electronics Co., Ltd., Zhongshan Yonglian Electrical Products Co., Ltd:

The company, Zhongren Shangdong (Shanghai) Testing Technology Co., Ltd., Weikai Testing Technology Co., Ltd., Zhejiang Heling Electric Co., Ltd:

1 Scope

Chapter 1 of GB/T 15092:1-2020 applies:

Add at the end of Chapter 1 of GB/T 15092:1-2020:

This part of GB/T 15092 applies to mechanical switching appliances and should be used in conjunction with GB/T 15092:1-2020:

Note: Additional requirements for special switches can refer to Part 2 of GB/T 15092:

2 Normative references

The following documents are indispensable for the application of this document: For dated

reference documents, only the dated version applies to this article

Pieces: For undated references, the latest version (including all amendments) applies to this document:

Chapter 2 of GB/T 15092:1-2020 applies:

3 Terms and definitions

Chapter 3 of GB/T 15092:1-2020 applies:

4 General requirements

Chapter 4 of GB/T 15092:1-2020 applies:

5 General considerations for the test

After adding the following requirements, GB/T 15092:1-2020 Chapter 5 applies:

Added at the end of 5:4:

Table 101 provides precautions for the following aspects:

- The minimum number of samples required for each test;
- When adding appropriate tests, the minimum number of total samples required for each evaluation;
- Additional samples required due to increased electrical ratings, specific structures, or damage or rupture during the test:

Table 101 Test samples

Article number entry minimum number of each test sample a Remarks

8 Signs and documents

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