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

GB/T 16915.4-2019

**Switches for household and similar fixed-electrical installations
-- Part 2-3: Particular requirements for time delay switches
(TDS)**

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5 General notes on tests

5.4 After the last paragraph, add the following.

5.102 Requirements related to control voltage do not apply to TDS for manual operation.

6 Ratings

6.1 Replaced by.

6.2 Add the following note after the last paragraph.

6.101 The preferred value of the rated control voltage is.

7 Categories

8 signs

8.1 After the first column, add the following.

8.2 Add the following symbols.

8.4 Add the following after the last paragraph.

8.7 This clause of GB/T 16915.1-2014 does not apply.

9 Size check

10 Protection against electric shock

11 Grounding measures

12 terminals

13 Structural requirements

15 Anti-aging, protection and moisture resistance provided by switch housing

16 Insulation resistance and electrical strength

16.2 Add the following to Table 15.

101 Between switch circuit and control circuit if they are electrically isolated 5.2000 3000

103 Between two SELV/PELV circuits 5 500 500

17 Temperature rise

17.1 Add the following after Note 1.

18 On-off capacity

18.1 The content of paragraph 1 and the column is changed to read as follows.

18.2 Add the following after paragraph 1.

19 Normal operation

19.1 The first six paragraphs are amended as follows.

3 times.

19.102 TDS delay time accuracy should be sufficiently reproducible.

3 samples were started at rated control voltage.

20 mechanical strength

21 heat resistant

22 Screws, current-carrying parts and connections

23 Creepage distance, electrical clearance, and distance through sealant

23.1 Add the following to Table 23.

Foreword

GB/T 16915 ``Switches for household and similar fixed electrical installations " is divided into the following sections.

--- Part 1. General requirements;

--- Part 2. Special requirements.

* Part 2-1. special requirements for electronic switches;

* Part 2-2. Special requirements for electromagnetic remote control switches (RCS);

* Part 2-3. special requirements for time delay switch (TDS);

* Part 2-4. special requirements for disconnectors;

* Part 2-5. Switches and related accessories for residential and building electronic systems (HBES);

* Part 2-6. Special requirements for external or internal identification and lighting fire switches.

This part is part 2-3 of GB/T 16915.

This section is drafted in accordance with the rules given in GB/T 1.1-2009.

This section replaces GB/T 16915.4-2003 "Switches for household and similar fixed electrical installations. Part 2. Special requirements

Section 3. Delay Switch. Compared with GB/T 16915.4-2003, the main technical changes are as follows.

--- Chapter 1 makes it clear that switches with only passive components are not considered

electronic delay switches;

--- Chapter 3 deleted 3.109 reset TDS and 3.110 plug-in TDS as defined in GB/T 16915.4-2003, added

Definition 3.109 removable TDS;

--- Removed the symbols "for vertical position", "for horizontal position" and "for inclined position, such as 60 °" in 8.2;

--- 13.101 added the description of "resettable";

--- Table 15 (GB/T 16915.4-2003 Table 14) added 103 "between two SELV/PELV circuits";

--- 18.1 increased the test status of non-adjustable TDS;

--- Table 23 (GB/T 16915.4-2003 table 20) added 101, 102;

--- Increase the abnormal operation of 101 control circuit.

This section uses the redrafting method to modify the use of IEC 60669-2-3..2006

Off Part 2-3. Special Request Delay Switch (TDS)?.

The technical differences between this part and IEC 60669-2-3..2006 and their causes are as follows.

--- Regarding the normative reference documents, this section has made adjustments with technical differences to adapt to China's technical conditions and the situation of adjustment.

The situation is reflected in Chapter 2 "Regulatory Reference Documents", and the specific adjustments are as follows.

* Replaced IEC 60445..1999 with GB/T 4026 equivalent to the international standard;

* Replaced IEC 60317 with GB/T 6109.1-2008 equivalent to the international standard;

* Replaced IEC 60669-2-1..2002 with GB/T 16915.2 which adopted the international standard;

* Replaced IEC 61558-2-6..1997 with GB/T 19212.7 equivalent to the international standard;

* Increase GB/T 16842-2016;

* Removed IEC 61140.

The following editorial changes have been made in this section.

--- The standard name was changed to "Switches for household and similar fixed electrical installations-Part 2-3. Characteristics of time delay switches (TDS)

Special requirements ";

--- According to the provisions of GB/T 1.1-2009, the "Scope" in Chapter 1 was supplemented by "This section of GB/T 16915 specifies the delay time to open

Relevant classification, marking, mechanical performance, electrical performance and other technical requirements ";

--- According to the modification of the serial number of the table in GB/T 16915.1-2014, the serial number of the corresponding table is modified in this section, for example, 16.2

Table 15, Table 18, 19.1, Table 23, 23.1;

--- Removed some notes from IEC 60669-2-3:2006 that are applicable to other countries, such as Note 2 of 8.2, etc .;

--- According to the situation of the cited documents, references have been added.

This section is proposed by China Electrical Equipment Industry Association.

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

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1 Scope

This chapter of GB/T 16915.1-2014 is applicable with the following modifications.

Replace paragraphs 1 and 2 as follows.

This part of GB/T 16915 specifies the technical requirements for the classification, marking, mechanical performance, and electrical performance of time-delay switches.

This section applies to rated voltage not exceeding 440V and rated current not exceeding 63A. It is used for domestic and similar purposes for indoor or outdoor use.

Manually and/or remotely operated time delay switches (hereinafter referred to as TDS) for