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Responsible committee: PEL/23 Electrical accessories

Interested committees:

Title: BS EN IEC 60669-2-3 Switches for household and similar fixed electrical installations Part 2-3: Particular requirements - Time-delay switches (TDS)

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



23B/1380/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

IEC 60669-2-3 ED4

DATE OF CIRCULATION:

2022-02-25

CLOSING DATE FOR COMMENTS:

2022-05-20

SUPERSEDES DOCUMENTS:

IEC SC 23B : PLUGS, SOCKET-OUTLETS AND SWITCHES

SECRETARIAT:

Italy

SECRETARY:

Mr Cristiano Masini

OF INTEREST TO THE FOLLOWING COMMITTEES:

PROPOSED HORIZONTAL STANDARD:



Other TC/SCs are requested to indicate their interest, if any, in this CD to the secretary.

FUNCTIONS CONCERNED:

☒ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☒ SAFETY

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

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

NOTE FROM TC/SC OFFICERS:

This document has been prepared by MT8. Main changes are listed in the foreward.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SWITCHES FOR HOUSEHOLD AND SIMILAR FIXED
ELECTRICAL INSTALLATIONS –****Part 2-3: Particular requirements –
Time-delay switches (TDS)**

FOREWORD

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- International Standard IEC 60669-2-3 has been prepared by subcommittee 23B: Plugs, socket-outlets and switches, of IEC technical committee 23: Electrical accessories.

This fourth edition cancels and replaces the third edition published in 2006 of which it constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

-
- Revision of the present edition with reference to IEC60669-1:2017 Edition 4
- Introduction a new Annex E "Additional requirements and tests for switches intended to be used at a temperature lower than –5 °C"

90

91

92 This part of IEC 60669-2 is to be used in conjunction with IEC 60669-1. It lists the changes
93 necessary to convert that standard into a specific standard for time-delay switches.

94 In this publication, the following print types are used:

- 95 – requirements proper: in roman type;
- 96 – *test specifications: in italic type;*
- 97 – notes: in smaller roman type.

98 Subclauses, figures or tables which are additional to those in part 1 are numbered starting
99 from 101.

100 A list of all parts of IEC 60669 series, under the general title *Switches for household and*
101 *similar fixed-electrical installations*, can be found on the IEC website.

102 The committee has decided that the contents of this publication will remain unchanged until
103 the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the
104 data related to the specific publication. At this date, the publication will be

- 105 • reconfirmed;
- 106 • withdrawn;
- 107 • replaced by a revised edition, or
- 108 • amended.

109

SWITCHES FOR HOUSEHOLD AND SIMILAR FIXED ELECTRICAL INSTALLATIONS –

Part 2-3: Particular requirements – Time-delay switches (TDS)

1 Scope

This clause of part 1 is applicable except as follows:

Replacement of the first paragraph by:

This part of IEC 60669 applies to time-delay switches (hereinafter referred to as TDS) with a rated voltage not exceeding 440 V AC and a rated current not exceeding 63 A, intended for household and similar fixed electrical installations, either indoors or outdoors, operated by hand and/or by remote control. For the control circuit, the rated control voltage does not exceed 440 V AC or 220 V DC.

TDS are provided with a time-delay device operated by mechanical, thermal, pneumatic, hydraulic or electrical means or by a combination of them.

Electronic TDS are within the scope of IEC 60669-2-1.

TDS including only passive components such as resistors, capacitors, PTC and NTC components and printed wiring boards are not considered to be electronic TDS.

2 Normative references

This clause of part 1 is applicable with the following additions:

IEC 60317, *Specifications for particular types of winding wires*

IEC 60445:2021, *Basic and safety principles for man-machine interface, marking and identification – Identification of equipment terminals and of terminations of certain designated conductors, including general rules for an alphanumerical system*

IEC 60664-1:2020, *Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests*

IEC 60664-3: 2016, *Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection against pollution*

IEC 60669-1:2017, *Switches for household and similar fixed electrical installations – Part 1: General requirements*
IEC 60669-2-1:2021, *Switches for household and similar fixed-electrical installations – Part 2-1: Particular requirements – Electronic control devices*

IEC 61140:2016, *Protection against electric shock – Common aspects for installation and equipment*

IEC 61558-2-6:2021, *Safety of transformers, reactors, power supply units and combination of thereof– Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers for general applications*

3 Terms and definitions

This clause of part 1 is applicable with the following additions:

3.8

thread-cutting screw

Addition of the following note:

NOTE1 to entry: This definition is only applicable to the switching circuit.

3.9

mechanical time-delay device

Addition of the following note:

NOTE1 to entry: This definition is only applicable to the switching circuit.

Addition of the following new definitions:

3.101

time-delay switches TDS

switch provided with a time-delay device which operates for a certain time (the delay time). It may be either manually actuated and/or remotely electrically initiated

3.101.1

electronic TDS

TDS containing electronic component(s)

3.102

rated control voltage

voltage assigned to the control circuit by the manufacturer

3.103

switching circuit

circuit which contains the parts which allow the rated current to flow through the TDS

3.104

control circuit

circuit which includes electrical parts to control the switching circuit in an electrically controlled TDS

3.105

control mechanism

all the parts which are intended for the operation of the TDS

3.106

incorporated hand-operated device

device incorporated in the switch which allows the switching circuit to be operated, directly or indirectly. This device is not intended for the normal operation of the TDS

3.107

delay time

period during which the switching circuit(s) is (are) kept closed. Any time taken for the decreasing of the voltage (e.g. to reduce the light) at the end of the delay period is included within the delay time