

Switches for household and similar fixed-electrical installations

Part 2. Particular requirements

Section 3. Time-delay switches (T.D.S.)

The European Standard EN 60669-2-3 : 1996 has the status of a British Standard

ICS 29.120.40

National foreword

This British Standard is the English language version of EN 60669-2-3 : 1996.

The UK participation in its preparation was entrusted to Technical Committee PEL/23, Electrical accessories, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

From 1 January 1997, all IEC publications have the number 60000 added to the old number. For instance, IEC 27-1 has been renumbered as IEC 60027-1. For a period of time during the change over from one numbering system to the other, publications may contain identifiers from both systems.

Cross-references

Attention is drawn to the fact that CEN and CENELEC standards normally include an annex which lists normative references to international publications with their corresponding European publications. The British Standards which implement these international or European publications may be found in the BSI Standards Catalogue under the section entitled 'International Standards Correspondence Index', or by using the 'Find' facility of the BSI Standards Electronic Catalogue.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 13, a blank page, an inside back cover and a back cover.

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Amendments issued since publication

Amd. No.	Date	Text affected

Descriptors: Household installations, time-delay switches, requirements, classification, testing, properties, definitions, electrical safety requirements, materials testing

English version

Switches for household and similar fixed-electrical installations
Part 2: Particular requirements
Section 3: Time-delay switches (T.D.S.)
(IEC 669-2-3:1984)

Interrupteurs pour installations
électriques fixes domestiques et
analogues
Partie 2: Prescriptions particulières
Section 3: Interrupteurs temporisés
(minuteries)
(CEI 669-2-3:1984)

Schalter für Haushalt und ähnliche
orts feste elektrische Installationen
Teil 2: Besondere Anforderungen
Hauptabschnitt 3: Zeitschalter
(IEC 669-2-3:1984)

This European Standard was approved by CENELEC on 1996-03-05. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of the International Standard IEC 669-2-3:1984, prepared by SC 23B, Plugs, socket-outlets and switches, of IEC TC 23, Electrical accessories, has been editorially updated by the Technical Committee CENELEC TC 23B, Switches for household and similar fixed electrical installations, in order to be read with EN 60669-1:1995 (IEC 669-1:1993, modified).

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 60669-2-3 on 1996-03-05.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1996-12-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1999-06-01

This part 2-3 is to be used in conjunction with EN 60669-1:1995, General requirements.

Where a particular clause of part 1 is not mentioned in this part 2, that clause or subclause applies as far as is reasonable. Where this part 2 states "addition" or "replacement", the relevant text of part 1 is to be adapted accordingly.

Clauses and subclauses which are additional to those in part 1 are numbered starting from 101.

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annex ZA is normative and annex ZB informative.

Annexes ZA and ZB have been added by CENELEC.

Text of EN 60669-2-3

The text of this European Standard consists of the text of the International Standard IEC 669-2-3:1984 which has been editorially updated to be read with EN 60669-1:1995 (IEC 669-1:1993, modified).

1 Scope

This clause of Part 1 applies, except as follows:

Replace the first paragraph by the following:

This standard applies to time-delay switches (hereinafter referred to as TDS) with a rated voltage not exceeding 440 V and a rated current not exceeding 63A, intended for household and similar fixed-electrical installations, either indoors or outdoors, operated by hand and/or by remote control and which are provided with a mechanical, thermal, pneumatic, hydraulic or electrical operated time-delay device or with a device which combines any of them.

NOTE - TDS including parts with electronic components in control or switching circuits are not covered by this standard; relevant additional requirements being under consideration, provisionally the requirements of this standard together with the requirements, as far as applicable, of EN 60669-2-1, may apply.

2 Normative references

NOTE - Normative references to international publications are listed in annex ZA (normative).

3 Definitions

This clause of Part 1 applies with the following additions:

3.17 Add the following note:

NOTE - This definition is only applicable to the switching circuit.

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Add the following definitions:

3.101 An **TDS** is a switch provided with a time-delay device, which operates for a certain time (the delay time) and which is operated by hand and/or by remote control by means of impulses.

3.102 The **rated control voltage** is the voltage assigned to the control circuit by the maker.

3.103 The **switching circuit** is the circuit which contains the parts which allow the rated current to flow through the TDS.

3.104 The **control circuit** is the circuit which includes electrical parts to control the switching circuit in an electrically controlled TDS.

3.105 The **control mechanism** includes all the parts which are intended for the operation of the TDS.

3.106 An **incorporated hand-operated device** is a device 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 The **delay time** is the 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.

3.108 The **delay device** consists of all components which have an influence on the delay time. The delay device is energized by means of an impulse into the control circuit in an electrically controlled TDS. The delay time may be adjustable.

3.109 A **resetting TDS** is a TDS which reverts to the full time delay when the operating means is actuated during a previously stated time delay.

3.110 A **disconnectable TDS** is an TDS including two parts, the first being used as a base and including the terminals, the other being removable and including the switching and the control circuits, the two parts being resiliently connected together using a means which allows joining and/or separating with or without the use of a tool.

4 General requirements

This clause of Part 1 applies with the following addition:

Add after the second paragraph:

The operation of an TDS shall not be impaired when it is mounted at an angle deviating not more than 5° from the specified position of use.

5 General notes on tests

This clause of Part 1 applies with the following additions:

5.4 *Add after the last paragraph:*

For the tests of clause 101, three additional specimens are necessary.

Add the following subclauses:

5.101 *If an TDS is provided with an incorporated hand-operated device, actuating the switching circuit directly, it shall be tested as specified in 19.101.*

5.102 *For a TDS operated by hand, requirements regarding control voltage do not apply.*

5.103 *In case of a TDS for which the control and the switching circuit have no common point, the test is made with circuits supplied with the rated voltages which are specified in this standard.*