BS HD 60269-3:2010+A2:2022
Incorporating corrigendum March 2013

BSI Standards Publication

Low-voltage fuses

Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) — Examples of standardized systems of fuses A to F

bsi.

National foreword

This British Standard is the UK implementation of HD 60269-3:2010+A2:2022. It is derived from IEC 60269-3:2010, incorporating amendment 1:2013, corrigendum March 2013 and amendment 2:2019. It supersedes BS HD 60269-3:2010+A1:2013 which will be withdrawn on 19 October 2025.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by [A1] ⟨A1⟩.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Text altered by IEC corrigendum March 2013 is indicated in the text by [AC1] ⟨AC1⟩.

This standard covers the following British Fuse systems that are included in HD 60269-3:2010:

Fuse system C — Cylindrical fuses (BS cylindrical fuse system)

This standard is part of a series of British Standards for Low Voltage Fuses. These cover the related parts and examples of systems of fuses in the associated IEC 60269 series of standards.

These restructured British Standards together with their IEC counterparts are:

BS 88-1:2007 — *General requirements* (IEC 60269-1)

BS 88-2:2010 — *Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)* (IEC 60269-2, Fuse systems E, G and I)

BS 88-3:2010 — *Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications)* (IEC 60269-3, Fuse system C)

BS EN 60269-4:2009 — *Supplementary requirements for fuse-links for the protection of semiconductor devices* (IEC 60269-4)

The text for BS 88-3:2010 has been extracted from IEC 60269-3:2010 and is identical to the text for Fuse system C. However, wherever a reference is made to IEC 60269-1 in the text this should be taken as a reference to BS 88-1 (BS EN 60269-1).

The UK participation in its preparation was entrusted to Technical Committee PEL/32, Fuses.

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

Contractual and legal considerations

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2010.

Amendments/corrigenda issued since publication

Date	Text affected
31 January 2014	Implementation of IEC amendment 1:2013 with CENELEC endorsement A1:2013 to BS HD 60269-3:2010, still dual numbered as BS 88-3:2010
31 January 2014	Implementation of IEC corrigendum March 2013. National Annex revised
28 February 2023	Implementation of IEC amendment 2:2019 with CENELEC endorsement A2:2022

HARMONIZATION DOCUMENT

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

HD 60269-3:2010+A2

November 2022

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English version

Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) - Examples of standardized systems of fuses A to F

(IEC 60269-3:2010, modified)

Fusibles basse tension -
Partie 3: Exigences supplémentaires pour les fusibles destinés à être utilisés par des personnes non qualifiées (fusibles pour usages essentiellement domestiques et analogues) -
Exemples de systèmes de fusibles normalisés A à F
(CEI 60269-3:2010, modifiée)

Niederspannungssicherungen -
Teil 3: Zusätzliche Anforderungen an Sicherungen zum Gebrauch durch Laien (Sicherungen überwiegend für Hausinstallationen und ähnliche Anwendungen) -
Beispiele für genormte Sicherungssysteme A bis F
(IEC 60269-3:2010, modifiziert)

This Harmonization Document was approved by CENELEC on 2010-09-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document at national level.

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

This Harmonization Document exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Ref. No. HD 60269-3:2010 E

Foreword

The text of document 32B/553/FDIS, future edition 4 of IEC 60269-3, prepared by SC 32B, Low-voltage fuses, of IEC TC 32, Fuses, was submitted to the IEC-CENELEC parallel vote.

A draft amendment, containing common modifications to document 32B/553/FDIS, was prepared by Reporting Secretariat CLC/SR 32B, Low-voltage fuses, and was submitted to the formal vote.

The combined texts were approved by CENELEC as HD 60269-3 on 2010-09-01.

This Harmonization Document supersedes HD 60269-3:2007.

This document is to be used in conjunction with EN 60269-1:2007.

This Part 3 supplements or modifies the corresponding clauses or subclauses of Part 1.

Where no change is necessary, this Part 3 indicates that the relevant clause or subclause applies.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

– latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement	(dop)	2011-09-01
– latest date by which the national standards conflicting with the HD have to be withdrawn	(dow)	2013-09-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60269-3:2010 was approved by CENELEC as a Harmonization Document with agreed common modifications.

Foreword to amendment A1

The text of document 32B/594/CDV, future edition 1 of IEC 60269-3:2010/A1, prepared by SC 32B, "Low-voltage fuses", of IEC TC 32, "Fuses" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as HD 60269-3:2010/A1:2013.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2013-12-05
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2016-03-05

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 60269-3:2010/A1:2013 + corrigendum March 2013 was approved by CENELEC as a Harmonization Document without any modification.

Add to the Bibliography of HD 60269-3:2010, the following note for the standard indicated:

ISO 1302 NOTE Harmonized as EN ISO 1302.

Foreword to Amendment 2

The text of document 32B/650/CDV, future IEC 60269-3/A2, prepared by SC 32B "Low-voltage fuses" of IEC/TC 32 "Fuses" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as HD 60269-3:2010/A2:2022.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2023-07-19
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2025-10-19

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice to Amendment 2

The text of the International Standard IEC 60269-3:2010/A2:2019 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60068-2-31	-	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	EN 60068-2-31	-
IEC 60269-1 + A1	2006 2009	Low-voltage fuses - Part 1: General requirements	EN 60269-1 + A1	2007 2009
IEC 60664	Series	Insulation coordination for equipment within low-voltage systems	EN 60664	Series
IEC 60898-1 (mod) + A1 (mod) + A2	2002 2002 2003	Electrical accessories - Circuit breakers for overcurrent protection for household and similar installations - Part 1: Circuit-breakers for a.c. operation	EN 60898-1 + corr. February + A1 + A11 + A12	2003 2004 2004 2005 2008
IEC 60999-1 (mod)	1990	Connecting devices - Safety requirements for screw-type and screwless-type clamping units for electrical copper conductors - Part 1: General requirements and particular requirements for conductors from 0,5 mm² up to 35 mm² (included)	EN 60999-1[1)]	1993

[1)] EN 60999-1 is superseded by EN 60999-1:2000, which is based on IEC 60999-1:1999.

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LOW-VOLTAGE FUSES –

Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) – Examples of standardized systems of fuses A to F

1 General scope

Fuses for use by unskilled persons according to the following fuse systems comply with all subclauses of IEC 60269-1 and with the requirements laid down in the relevant fuse systems.

This standard is divided into [A1] four [A1] fuse systems, each dealing with a specific example of standardized fuses for use by unskilled persons:

- Fuse system A: D type fuse system
- Fuse system B: Cylindrical fuses (NF cylindrical fuse system)
- Fuse system C: Cylindrical fuses (BS cylindrical fuse system)

[A1] *Text deleted* [A1]

- Fuse system F: Cylindrical fuse-links for use in plugs (BS plug-top fuse system)

NOTE 1 Examples of standardized fuses complying with the requirements of IEC 60269-1 are listed in the present standard. Other examples may be added, provided that they comply with these requirements.

For recommendations for future designs of fuses, see Annex CC.

NOTE 2 The following fuse systems are standardized systems in respect to their safety aspects. The National Committees shall select at least one complete fuse system of this standard for their national standards. Colour codes are not specified for each fuse system. Where colour codes are indicated, they apply only to that particular fuse system.

1.2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-2-31, *Environmental testing – Part 2-31: Tests – Test Ec: Rough handling shocks, primarily for equipment-type specimens*

IEC 60269-1:2006, *Low-voltage fuses – Part 1: General requirements*
Amendment 1 (2009)

IEC 60664 (all parts), *Insulation coordination for equipment within low-voltage systems*

IEC 60898-1:2002, *Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1:Circuit-breackers for a.c. operation*
Amendment 1(2002)
Amendment 2 (2003)

IEC 60999:1990, *Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units for electrical copper conductors*