
Nizkonapetostne varovalke - 4. del: Dodatne zahteve za taljive vložke za zaščito polprevodniških naprav - Dopolnilo A1 (IEC 60269-4:2009/A1:2012)

Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices (IEC 60269-4:2009/A1:2012)

Niederspannungssicherungen - Teil 4: Zusätzliche Anforderungen an Sicherungseinsätze zum Schutz von Halbleiter Bauelementen (IEC 60269-4:2009/A1:2012)

Fusibles basse tension - Partie 4: Exigences supplémentaires concernant les éléments de remplacement utilisés pour la protection des dispositifs à semiconducteurs (CEI 60269-4:2009/A1:2012)

Ta slovenski standard je istoveten z: EN 60269-4:2009/A1:2012

ICS:

29.120.50

Varovalke in druga
nadtokovna zaščita

Fuses and other overcurrent
protection devices

SIST EN 60269-4:2010/A1:2012

en

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[SIST EN 60269-4:2010/A1:2012](https://standards.iteh.ai/catalog/standards/sist/69aeb42a-c009-47fd-9490-44e3361c1988/sist-en-60269-4-2010-a1-2012)

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60269-4/A1

July 2012

ICS 29.120.50

English version

**Low-voltage fuses -
Part 4: Supplementary requirements for fuse-links for the protection of
semiconductor devices
(IEC 60269-4:2009/A1:2012)**

Fusibles basse tension -
Partie 4: Exigences supplémentaires
concernant les éléments de remplacement
utilisés pour la protection des dispositifs à
semiconducteurs
(CEI 60269-4:2009/A1:2012)

Niederspannungssicherungen -
Teil 4: Zusätzliche Anforderungen an
Sicherungseinsätze zum Schutz von
Halbleiter-Bauelementen
(IEC 60269-4:2009/A1:2012)

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This amendment A1 modifies the European Standard EN 60269-4:2009; it was approved by CENELEC on 2012-06-20. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 CEN-CENELEC Management Centre or to any CENELEC member.

This amendment 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 CEN-CENELEC Management Centre has the same status as the official versions.

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 32B/579/CDV, future edition 1 of IEC 60269-4:2009/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 EN 60269-4:2009/A1:2012.

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) 2013-03-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-06-20

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

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.

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The text of the International Standard IEC 60269-4:2009/A1:2012 was approved by CENELEC as a European Standard without any modification.

SIST EN 60269-4:2010/A1:2012

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC/TR 60269-5	NOTE Harmonized as CLC/TR 60269-5.
IEC 60269-6	NOTE Harmonized as EN 60269-6.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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.

Replace IEC 60269-2:2006 and IEC 60269-3:2006 by:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60269-2 (mod)	2006	Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to J	HD 60269-2	2007
IEC 60269-3	-	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	HD 60269-3	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Low-voltage fuses – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices

Fusibles basse tension – Partie 4: Exigences supplémentaires concernant les éléments de remplacement utilisés pour la protection des dispositifs à semiconducteurs

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FOREWORD

This amendment has been prepared by subcommittee 32B: Low-voltage fuses, of IEC technical committee 32: Fuses.

The text of this amendment is based on the following documents:

CDV	Report on voting
32B/579/CDV	32B/586A/RVC

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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1.1 Scope and object

Add after Note 2

NOTE 3 IEC 60269-6 (Low-voltage fuses – Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems) is dedicated to the protection of solar photovoltaic energy systems.

1.2 Normative references

Replace the reference to "IEC 60269-3:2006, Low-voltage fuses – 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" by the following:

IEC 60269-3, Low-voltage fuses – 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

Replace "I" by "J" at the end of the following reference:

IEC 60269-2:2006, Low-voltage fuses – Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) – Examples of standardized systems of fuses A to I

5.6.1.3 Operating time-current characteristics

Delete the word "maximum" in the last sentence of this subclause

Table 101 – Conventional times and currents for “gR” and “gS” fuse links

In the third column of Table 101 replace "1,1 I_n " by "1,13 I_n ".

Add the following note to Table 101:

NOTE For explanation of gR and gS see 5.7.1.

5.8.2.1 Pre-arcing I^2t characteristics

In the note delete "certain".

Table 102 – List of complete tests

In Note a of Table 102 replace "20 °C ± 5 °C" by "between 10 °C and 30 °C"

Table 106 – Values for breaking-capacity tests on VSI fuse-links

This correction applies to the French text only.

Figure 103 – Example of a conventional test arrangement for blade contact fuse-links

This correction applies to the French text only.

Figure CC.1 – Single body fuse-links

In the table heading replace "Typical voltage rating V" by "Typical voltage rating V a.c." and replace "Typical maximum current rating A" by "Preferred maximum current rating A".

Add the following note to the key:

NOTE For d.c. and VSI voltage ratings consult the manufacturer.

Figure CC.2 – Double body fuse-links

In the table heading replace "Typical voltage rating V" by "Typical voltage rating V a.c." and replace "Typical maximum current rating A" by "Preferred maximum current rating A".

Add the following note to the key:

NOTE For d.c. and VSI voltage ratings consult the manufacturer.

Figure CC.3 – Twin body fuse-links

In the table heading replace "Typical voltage rating V" by "Typical voltage rating V a.c." and replace "Typical maximum current rating A" by "Preferred maximum current rating A".

Add the following note to the key: [SIST EN 60269-4:2010/A1:2012](https://standards.iteh.ai/catalog/standards/sist/69aeb42a-c009-47fd-9490-113080c80000/sist-en-60269-4-2010-a1-2012)

NOTE For d.c. and VSI voltage ratings consult the manufacturer.

Figure CC.4 – Striker fuse-links

In the table heading replace "Typical voltage rating V" by "Typical voltage rating V a.c."

Add the following note to the key:

NOTE For d.c. and VSI voltage ratings consult the manufacturer.

**Figure CC.6 – Fuse-links with bolted connections,
type B, body sizes 0, 1, 2, and 3**

In the key for body size 3 add two additional lines underneath the existing lines for 80 and 110 mm with:

e = 170 a1 = 210 a2 = 140

e = 210 a1 = 250 a2 = 180