



SLOVENSKI STANDARD
SIST EN 60269-1:2007/A1:2009
01-september-2009

Nizkonapetostne varovalke - 1. del: Splošne zahteve (IEC 60269-1:2006/A1:2009)

Low-voltage fuses - Part 1: General requirements (IEC 60269-1:2006/A1:2009)

Niederspannungssicherungen - Teil 1: Allgemeine Anforderungen (IEC 60269-1:2006/A1:2009)

Fusibles basse tension - Partie 1: Exigences générales (CEI 60269-1:2006/A1:2009)

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Ta slovenski standard je istoveten z: EN 60269-1:2007/A1:2009

SIST EN 60269-1:2007/A1:2009
<https://standards.iteh.ai/catalog/standards/sist/928d6065-22c3-40c4-a5c5-295299840684/sist-en-60269-1-2007-a1-2009>

ICS:

29.120.50	Xæ[çæ ^ Ái ~ * æ { ^ áq \ [ç } æ Á æ ææ	Fuses and other overcurrent protection devices
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SIST EN 60269-1:2007/A1:2009 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60269-1/A1

July 2009

ICS 29.120.50

English version

**Low-voltage fuses -
Part 1: General requirements
(IEC 60269-1:2006/A1:2009)**

Fusibles basse tension -
Partie 1: Exigences générales
(CEI 60269-1:2006/A1:2009)

Niederspannungssicherungen -
Teil 1: Allgemeine Anforderungen
(IEC 60269-1:2006/A1:2009)

This amendment A1 modifies the European Standard EN 60269-1:2007; it was approved by CENELEC on 2009-07-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, 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

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 32B/534/FDIS, future amendment 1 to IEC 60269-1:2006, prepared by SC 32B, Low-voltage fuses, of IEC TC 32, Fuses, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 60269-1:2007 on 2009-07-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2010-04-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2012-07-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of amendment 1:2009 to the International Standard IEC 60269-1:2006 was approved by CENELEC as an amendment to the European Standard without any modification.

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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.

Replace the references to IEC 60695-2-1/0:1994, IEC 60695-2-1/1:1994, IEC 60695-2-1/2:1994 and IEC 60695-2-1/3:1994 by the following:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60695-2-10	2000	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	EN 60695-2-10	2001
IEC 60695-2-11	2000	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	EN 60695-2-11	2001
IEC 60695-2-12	2000	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability test method for materials	EN 60695-2-12	2001
IEC 60695-2-13	2000	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignitability test method for materials	EN 60695-2-13	2001

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IEC 60269-1

Edition 4.0 2009-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Low-voltage fuses – **STANDARD PREVIEW**
Part 1: General requirements
(standards.iteh.ai)

Fusibles basse tension – **STANDARD PREVIEW**
Partie 1: Exigences générales
(standards.iteh.ai)

INTERNATIONAL
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ICS 29.120.50

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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:

FDIS	Report on voting
32B/534/FDIS	32B/540/RVD

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 maintenance result 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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[SIST EN 60269-1:2007/A1:2009](https://standards.iteh.ai/catalog/standards/sist/928d6065-22c3-40c4-a5c5-295299840684/sist-en-60269-1-2007-a1-2009)

1.2 Normative references

Replace "IEC 60695-2-1/0:1994" *by* "IEC 60695-2-10:2000".

Replace "IEC 60695-2-1/1:1994" *by* "IEC 60695-2-11:2000".

Replace "IEC 60695-2-1/2:1994" *by* "IEC 60695-2-12:2000".

Replace "IEC 60695-2-1/3:1994" *by* "IEC 60695-2-13:2000".

Add the following new definition:

2.1.12

linked fuse-carrier

a fuse-carrier which is mechanically linked to the fuse-base and gives a defined insertion and withdrawal movement to the fuse-link

[This definition was definition 2.1.12 in IEC 60269-2-1, Section I, which has been withdrawn.]

Table 2

In the note of Table 2, change “^a Under consideration” to “^a Values for fuse-links with rated current less than 16 A are given in subsequent parts”.

Table 3

In Note a of Table 3, delete "or are under consideration".

6 Markings

Replace the second paragraph and the note by the following:

The marking is rubbed by hand for 5 s with a piece of cloth soaked with water and again for 5 s with a piece of cloth soaked with aliphatic solvent hexane.

NOTE It is recommended to use aliphatic solvent hexane with an aromatic content of maximum 0,1 volume percentage, a kauributanol value of approximately 29, an initial boiling point of approximately 65 °C, a dry point of approximately 69 °C and a density of approximately 0,68 g/cm³.

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7.1.2 Connections, including terminals

Replace the note by the following: [SIST EN 60269-1:2007/A1:2009
https://standards.iteh.ai/catalog/standards/sist/928d6065-22c3-40c4-a5c5-295299840684/sist-en-60269-1-2007-a1-2009](https://standards.iteh.ai/catalog/standards/sist/928d6065-22c3-40c4-a5c5-295299840684/sist-en-60269-1-2007-a1-2009)

NOTE Requirements of screwless-type terminals are given in Annex E.

7.2 Insulating properties and suitability for isolation

Replace the second sentence of the first paragraph by the following:

The fuse shall be suitable for isolation when it is in its normal open position, the fuse-link remaining inside the fuse-carrier, or when the fuse-link, and, when applicable, the fuse-carrier is removed.

7.4 Operation

In the second and the third paragraph, first dash, replace (2x) "its fuse-element does not melt" by "the fuse-link does not operate".

7.9.2 Leakage currents of equipment suitable for isolation

In the heading replace "equipment" by "fuses".

7.9.3 Additional constructional requirements for fuses for non-separable fuse-carriers, suitable for insulation

Modify the title as follows:

7.9.3 Additional constructional requirements for fuses for linked fuse-carriers, suitable for isolation

7.12.1 Resistance to rusting

Replace "8.2.4.2" by "8.2.2.3.2".

7.12.2 Resistance to season cracking

Replace "8.2.4.2" by "8.2.2.3.2".

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8.1.1 Kind of tests

Replace the last paragraph by the following new paragraph.

<https://standards.iteh.ai/catalog/standards/sist/928d6065-22c3-40c4-a5c5-295299840684/sist-en-60269-1-2007-a1-2009>

If any part of the fuse is modified in a manner liable to adversely affect the result of a type test already performed, that type test shall be repeated.

8.1.5.2 Testing of fuse-links of a homogeneous series

This change applies to the French text only.

Table 11

In Note a) of Table 11, replace "time current" by "time-current".

Table 12

In the line for 8.11.1, replace "Mechanical strength ^{d)}" by "Mechanical strength ^{b)}".

Table 13

Replace Table 13 by the following new Table 13:

Test according to subclause	Number of samples											
	"g" fuse-links							"a" fuse-links				
	1	1	1	1	1	1	1	1	1	2	2	
8.1.4 Dimensions	X		X							X		X
8.1.5.1 Resistance	X	X	X	X	X	X	X	X	X	X	X	X
8.4.3.1 a) Conventional non-fusing current		X										
8.4.3.2 Rated current	X											
8.4.3.3.1 Time-current characteristics no. 4a ^{a)}			X							X		
8.4.3.3.2 Gates, "g" fuse-links					X							
a) I_{min} (10 s)												
b) I_{max} (5 s)						X						
c) I_{min} (0,1 s)								X				
d) I_{max} (0,1 s)									X			
Gates, "a" fuse-links										X	X	
8.4.3.5 Conventional cable overload protection test				X								
^{a)} With the exception of "gD", "gG" and "gM", as adequate tests are carried out in connection with verification of the gates (see 8.4.3.3.2).												
NOTE The tests according to Table 13 may be performed at reduced voltages.												

Table 14

In the line for 8.2, replace "Insulating properties" by "Insulating properties and suitability for isolation".