# Väikesulavkaitsmed. Osa 1: Väikesulavkaitsmete määratlused ja üldnõuded väikesulavpanustele

Miniature fuses Part 1: Definitions for miniature fusefuses and general requirements for miniature fuselinks



# EESTI STANDARDI EESSÕNA

# NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60127- 1:2006 sisaldab Euroopa standardi EN	This Estonian standard EVS-EN 60127- 1:2006 consists of the English text of the
60127-1:2006 ingliskeelset teksti.	European standard EN 60127-1:2006.
Käesolev dokument on jõustatud 22.09.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 22.09.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti	The standard is available from Estonian
standardiorganisatsioonist.	standardisation organisation.

$\overline{\mathcal{O}}_{\mathbf{y}}$	
Käsitlusala: This part of IEC 60127 covers the general requirements and tests applicable to all types of miniature fuse-links (e.g. cartridge fuse-links, sub-miniature fuse- links and universal modular fuse-links) for the protection of electric appliances, electronic equipment and component parts thereof normally intended to be used indoors.	Scope: This part of IEC 60127 covers the general requirements and tests applicable to all types of miniature fuse-links (e.g. cartridge fuse-links, sub-miniature fuse- links and universal modular fuse-links) for the protection of electric appliances, electronic equipment and component parts thereof normally intended to be used indoors.
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# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

# EN 60127-1

July 2006

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# Miniature fuses Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links (IEC 60127-1:2006)

Coupe-circuit miniatures Partie 1: Définitions pour coupe-circuit miniatures et prescriptions générales pour éléments de remplacement miniatures (CEI 60127-1:2006) Geräteschutzsicherungen Teil 1: Begriffe für Geräteschutzsicherungen und allgemeine Anforderungen an G-Sicherungseinsätze (IEC 60127-1:2006)

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# 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

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# Foreword

The text of document 32C/387/FDIS, future edition 2 of IEC 60127-1, prepared by SC 32C, Miniature fuses, of IEC TC 32, Fuses, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60127-1 on 2006-07-01.

This European Standard supersedes EN 60127-1:1991 + A1:1999 + A2:2003.

The major technical changes concern Subclause 9.2.3 where the nature of the current source has been clarified; in addition, IEC 60038: *IEC standard voltages*, has been added to the list of normative references.

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)	2007-04-01
_	latest date by which the national standards conflicting		
	with the EN have to be withdrawn	(dow)	2009-07-01
		. ,	

Annex ZA has been added by CENELEC.

# Endorsement notice

The text of the International Standard IEC 60127-1:2006 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60062

NOTE Harmonized as EN 60062:2005 (not modified).

# Annex ZA

# 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	<u>EN/HD</u>	Year
IEC 60038 (mod)	_1)	IEC standard voltages <sup>2)</sup>	HD 472 S1 + corr. February + A1	1989 <sup>3)</sup> 2002 1995
IEC 60127-6 + A1 + A2	1994 1996 2002	Miniature fuses Part 6: Fuse-holders for miniature fuse-links	EN 60127-6 + A1 + A2	1994 1996 2003
<sup>1)</sup> Undated reference.				S
<ul> <li><sup>2)</sup> The title of HD 472 S1 i</li> <li><sup>3)</sup> Valid edition at date of i</li> </ul>	s: Nominal issue.	voltages for low voltage public electricity supply systems.		

<sup>&</sup>lt;sup>1)</sup> Undated reference.

<sup>&</sup>lt;sup>2)</sup> The title of HD 472 S1 is: Nominal voltages for low voltage public electricity supply systems.

<sup>&</sup>lt;sup>3)</sup> Valid edition at date of issue.

# INTERNATIONAL STANDARD



Second edition 2006-06

Miniature fuses -

Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links



Reference number IEC 60127-1:2006(E)

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# INTERNATIONAL STANDARD



Second edition 2006-06

Miniature fuses -

Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## MINIATURE FUSES -

# Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links

# FOREWORD

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International Standard IEC 60127-1 has been prepared by subcommittee 32C: Miniature fuses, of IEC technical committee 32: Fuses.

This second edition cancels and replaces the first edition (1988), together with amendment 1 (1999) and amendment 2 (2002), and constitutes a technical revision.

The major technical changes with regard to the first edition concern subclause 9.2.3 where the nature of the current source has been clarified; in addition, IEC 60038: *IEC standard voltages*, has been added to the list of normative references.

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

FDIS	Report on voting
32C/387/FDIS	32C/390/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 1 of the IEC 60127 series covers definitions, general requirements and tests applicable to all types of miniature fuses (e.g. cartridge fuse-links, sub-miniature fuse-links and universal modular fuse-links). All subsequent parts of the complete series should be read in conjunction with this Part 1.

IEC 60127 consists of the following parts, under the general heading Miniature fuses:

- Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links
- Part 2: Cartridge fuse-links
- Part 3: Sub-miniature fuse-links
- Part 4: Universal modular fuse-links (UMF) Through-hole and surface mount types
- Part 5: Guidelines for quality assessment of miniature fuse-links
- Part 6: Fuse-holders for miniature fuse-links
- Part 7: (Free for further documents)
- Part 8: (Free for further documents)
- Part 9: (Free for further documents)
- Part 10: User guide for miniature fuses

The committee has decided that the contents of this 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.

A bilingual version of this publication may be issued at a later date.

# MINIATURE FUSES -

# Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links

# 1 Scope and object

This part of IEC 60127 covers the general requirements and tests applicable to all types of miniature fuse-links (e.g. cartridge fuse-links, sub-miniature fuse-links and universal modular fuse-links) for the protection of electric appliances, electronic equipment and component parts thereof normally intended to be used indoors.

Specific details covering each major subdivision are given in subsequent parts.

This standard does not apply to fuses for appliances intended to be used under special conditions, such as in a corrosive or explosive atmosphere.

The object of this standard is

- a) to establish uniform requirements for miniature fuses so as to protect appliances or parts of appliances in the most suitable way,
- b) to define the performance of the fuses, so as to give guidance to designers of electrical appliances and electronic equipment and to ensure replacement of fuse-links by those of similar dimensions and characteristics,
- c) to define methods of testing,
- d) to define maximum sustained dissipation of fuse-links to ensure good compatibility of stated power acceptance when used with fuse-holders according to this standard (see IEC 60127-6).

## 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 60038, IEC standard voltages

IEC 60127-6:1994, *Miniature fuses – Part 6: Fuse-holders for miniature fuse-links* Amendment 1 (1996) Amendment 2 (2003)

## 3 Terms and definitions

For the purposes of this document, the following definitions apply.

## 3.1

fuse

device that, by the fusing of one or more of its specially designed and proportioned components, opens the circuit in which it is inserted by breaking the current when this exceeds a given value for a sufficient time

NOTE The fuse comprises all the parts that form the complete device.