

<b>STN</b>	<b>Miniatúrne poistky</b> <b>Časť 1: Definície miniatúrnych poistiek</b> <b>a všeobecné požiadavky na miniatúrne</b> <b>tavné vložky</b>	<b>STN</b> <b>EN IEC 60127-1</b>  35 4730
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Miniature fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/25

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October 2024

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Supersedes EN 60127-1:2006;  
EN 60127-1:2006/A1:2011;  
EN 60127-1:2006/A2:2015

English Version

**Miniature fuses - Part 1: Definitions for miniature fuses and  
general requirements for miniature fuse-links  
(IEC 60127-1:2023)**Coupe-circuits miniatures - Partie 1: Définitions pour coupe-  
circuits miniatures et exigences générales pour éléments de  
remplacement miniatures  
(IEC 60127-1:2023)Geräteschutzsicherungen - Teil 1: Begriffe für  
Geräteschutzsicherungen und allgemeine Anforderungen  
an G-Sicherungseinsätze  
(IEC 60127-1:2023)

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**EN IEC 60127-1:2024 (E)****European foreword**

The text of document 32C/615/FDIS, future edition 3 of IEC 60127-1, prepared by SC 32C "Miniature fuses" of IEC/TC 32 "Fuses" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60127-1:2024.

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) 2025-10-31
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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60062:2016 NOTE Approved as EN 60062:2016 (not modified)

IEC 60127-2:2014 NOTE Approved as EN 60127-2:2014 (not modified)

IEC 60127-3:2015 NOTE Approved as EN 60127-3:2015 (not modified)

IEC 60127-4:2005 NOTE Approved as EN 60127-4:2005 (not modified)

IEC 60127-6:2014 NOTE Approved as EN 60127-6:2014 (not modified)

IEC 60127-7:2015 NOTE Approved as EN 60127-7:2016 (not modified)

IEC 60269 (series) NOTE Approved as EN 60269 (series)

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60038	-	IEC standard voltages	EN 60038	-
IEC 60127-6	2014	Miniature fuses - Part 6: Fuse-holders for miniature fuse-links	EN 60127-6	2014



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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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

**Coupe-circuits miniatures –  
Partie 1: Définitions pour coupe-circuits miniatures et exigences générales pour  
éléments de remplacement miniatures**



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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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## **Miniature fuses –**

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

## **Coupe-circuits miniatures –**

### **Partie 1: Définitions pour coupe-circuits miniatures et exigences générales pour éléments de remplacement miniatures**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## MINIATURE FUSES –

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

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

This third edition cancels and replaces the second edition published in 2006, Amendment 1:2011 and Amendment 2:2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) modification of 6.3 to clarify the marking items;
- b) modification of 9.3.1 to introduce a tolerance for the prospective current for the breaking capacity test;
- c) deletion of contents of 9.6, Pulse test;
- d) deletion of Annex C;
- e) addition of new Annex C user guide for miniature fuse-links.

The text of this International Standard is based on the following documents:

Draft	Report on voting
32C/615/FDIS	32C/624/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all parts in the IEC 60127 series, published under the general title *Miniature fuses*, can be found on the IEC website.

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, universal modular fuse-links and miniature fuse-links for special applications). All subsequent parts of the complete series are to be read in conjunction with this Part 1.

IEC 60127 consists of the following parts:

IEC 60127-1, *Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links*

IEC 60127-2, *Miniature fuses – Part 2: Cartridge fuse-links*

IEC 60127-3, *Miniature fuses – Part 3: Sub-miniature fuse-links*

IEC 60127-4, *Miniature fuses – Part 4: Universal modular fuse-links (UMF) – Through-hole and surface mount types*

IEC 60127-5, *Miniature fuses – Part 5: Guidelines for quality assessment of miniature fuse-links*

IEC 60127-6, *Miniature fuses – Part 6: Fuse-holders for miniature fuse-links*

IEC 60127-7, *Miniature fuses – Part 7: Miniature fuse-links for special applications*

IEC 60127-8, *Miniature fuses – Part 8: Fuse resistors with particular overcurrent protection*

IEC 60127-9, (free for further documents)

IEC 60127-10, Moved to IEC 60127-1 as Annex C.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

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

## 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, universal modular fuse-links and miniature fuse-links for special applications) for the protection of electric appliances, electronic equipment and component parts thereof normally intended to be used indoors.

This document does not apply to fuses intended for the protection of low-voltage electrical installations. These are covered by IEC 60269, *Low Voltage Fuses*.

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

This document 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 document 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 document (see IEC 60127-6).

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60127-6:2014, *Miniature fuses – Part 6: Fuse-holders for miniature fuse-links*

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