

STN	Miniatúrne poistky Časť 6: Držiaky poistiek na miniatúrne tavné poistkové vložky	STN EN IEC 60127-6 35 4730
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Miniature fuses - Part 6: Fuse-holders 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

Obsahuje: EN IEC 60127-6:2024, IEC 60127-6:2023

Oznámením tejto normy sa od 31.10.2027 ruší
STN EN 60127-6 (35 4730) z júna 2015

139836

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2025
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii
v znení neskorších predpisov.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60127-6

October 2024

ICS 29.120.50

Supersedes EN 60127-6:2014

English Version

**Miniature fuses - Part 6: Fuse-holders for miniature fuse-links
(IEC 60127-6:2023)**

Coupe-circuit miniatures - Partie 6: Ensembles-porteurs
pour cartouches de coupe-circuits miniatures
(IEC 60127-6:2023)

Geräteschutzsicherungen - Teil 6: G-Sicherungshalter für
G-Sicherungseinsätze
(IEC 60127-6:2023)

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EN IEC 60127-6:2024 (E)**European foreword**

The text of document 32C/620/FDIS, future edition 3 of IEC 60127-6, 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 60127-6:2024.

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
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-10-31

This document supersedes EN 60127-6:2014 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 60127-6:2023 was approved by CENELEC as a European Standard without any modification.

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

IEC 60060-1:2010	NOTE Approved as EN 60060-1:2010 (not modified)
IEC 60060-3:2006	NOTE Approved as EN 60060-3:2006 (not modified)
IEC 60068-2-1:2007	NOTE Approved as EN 60068-2-1:2007 (not modified)
IEC 60068-2-2:2007	NOTE Approved as EN 60068-2-2:2007 (not modified)
IEC 60112:2020	NOTE Approved as EN IEC 60112:2020 (not modified)
IEC 60269-1	NOTE Approved as EN 60269-1
IEC 60364-4-44	NOTE Approved as HD 60364-4-444
IEC 60695-2-11	NOTE Approved as EN IEC 60695-2-11
IEC 61140	NOTE Approved as EN 61140

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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-441	-	International Electrotechnical Vocabulary. - Switchgear, controlgear and fuses	-	-
IEC 60050-581	-	International Electrotechnical Vocabulary - - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1	2013	Environmental testing - Part 1: General and guidance	EN 60068-1	2014
IEC 60068-2-6	2007	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	2008
IEC 60068-2-20	2021	Environmental testing - Part 2-20: Tests - Test Ta and Tb: Test methods for solderability and resistance to soldering heat of devices with leads	EN IEC 60068-2-20	2021
IEC 60068-2-21	-	Environmental testing - Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices	EN IEC 60068-2-21 -	-
IEC 60068-2-27	2008	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	EN 60068-2-27	2009
IEC 60068-2-45	-	Basic environmental testing procedures - Part 2-45: Tests - Test XA and guidance: Immersion in cleaning solvents	EN 60068-2-45	-
IEC 60068-2-47	-	Environmental testing - Part 2-47: Test - Mounting of specimens for vibration, impact and similar dynamic tests	EN 60068-2-47	-
IEC 60068-2-75	-	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	-
IEC 60127-1	2006	Miniature fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links	EN 60127-1	2006
+ A1	2011		+ A1	2011
+ A2	2015		+ A2	2015

EN IEC 60127-6:2024 (E)

IEC 60127-2	-	Miniature fuses - Part 2: Cartridge fuse-links	EN 60127-2	-
IEC 60127-3	2015	Miniature fuses - Part 3: Sub-miniature fuse-links	EN 60127-3	2015
IEC 60216-1	-	Electrical insulating materials - Thermal endurance properties - Part 1: Ageing procedures and evaluation of test results	EN 60216-1	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
-	-		+ corrigendum May 1993	
IEC 60664-1	2020	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	2020
IEC 60695-2-12	2021	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	EN IEC 60695-2-12	2021
IEC 60695-2-13	2021	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	EN IEC 60695-2-13	2021
IEC 60695-4	2012	Fire hazard testing - Part 4: Terminology concerning fire tests for electrotechnical products	EN 60695-4	2012
IEC 60695-11-5	2016	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2017
IEC 60999-1	-	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included)	EN 60999-1	-
IEC 61210	-	Connecting devices - Flat quick-connect terminations for electrical copper conductors - Safety requirements	EN 61210	-



IEC 60127-6

Edition 3.0 2023-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Coupe-circuit miniatures –
Partie 6: Ensembles-porteurs pour cartouches de coupe-circuits miniatures**

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IEC 60127-6

Edition 3.0 2023-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Coupe-circuit miniatures –
Partie 6: Ensembles-porteurs pour cartouches de coupe-circuits miniatures**

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ICS 29.120.50

ISBN 978-2-8322-7651-8

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MINIATURE FUSES –

Part 6: Fuse-holders for miniature fuse-links

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 60127-6 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 2014. This edition constitutes a technical revision.

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

- a) enhanced maximum rated current from 16 A to 25 A in Clause 1;
- b) adding of IEC 60127-4 and IEC 60127-7 in Clause 1;
- c) modification of marking position in Clause 6;
- d) modification of rated voltage, rated current and rated power acceptance in Table 2;
- e) modification of Table 5, Table 6, Table 7, Table 9, Table 16 and Table A.1.

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

Draft	Report on voting
32C/620/FDIS	32C/623/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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/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.

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 in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION

According to the wish expressed by the users of miniature fuses, all standards, recommendations and other documents relating to miniature fuses have the same publication number in order to facilitate reference to fuses in other specifications, for example, equipment specifications.

Furthermore, a single publication number and subdivision into parts would facilitate the establishment of new standards, because clauses and subclauses containing general requirements need not be repeated.

To this day, the IEC 60127 series, is thus subdivided as follows:

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 60127-10, *Miniature fuses – Part 10: User guide for miniature fuses*

This part of IEC 60127 covers requirements, test equipment and test methods for fuse-holders. It is a self-standing document, which refers back to IEC 60127-1 with regard to certain definitions and the atmospheric conditions for test. It also makes reference to other parts of the IEC 60127 series with regard to dimensions and maximum power losses of fuse-links.

MINIATURE FUSES –

Part 6: Fuse-holders for miniature fuse-links

1 Scope

This part of IEC 60127 is applicable to fuse-holders for miniature cartridge fuse-links according to IEC 60127-2, sub-miniature fuse-links according to IEC 60127-3, universal modular fuse-links to IEC 60127-4 and miniature fuse-links for special applications to IEC 60127-7 for the protection of electric appliances, electronic equipment and component parts thereof, normally intended for use indoors.

NOTE Requirements for fuse-holders for miniature fuse-links complying with IEC 60127-4 and IEC 60127-7 are under consideration.

It does not apply to fuse holders for fuses completely covered by the subsequent parts of IEC 60269-1.

This document applies to fuse-holders with:

- a maximum rated current of 25 A and
- a maximum rated voltage of 1 500 V DC or 1 000 V AC; and
- for use up to 2 000 m above sea-level, unless otherwise specified.

The object of this document is to establish uniform requirements for safety and the assessment of electrical, mechanical, thermal and climatic properties of fuse-holders and the compatibility between fuse-holders and fuse-links.

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 60050-441, *International Electrotechnical Vocabulary (IEV) – Part 441: Switchgear, controlgear and fuses*

IEC 60050-581, *International Electrotechnical Vocabulary (IEV) – Part 581: Electromechanical components for electronic equipment*

IEC 60068-1:2013, *Environmental testing – Part 1: General and guidance*

IEC 60068-2-6:2007, *Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)*

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koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ A consolidated version of this publication exists, comprising IEC 60127-1:2006, IEC 60127-1:2006/AMD 1:2011 and IEC 60127-1:2006/AMD 2:2015.