SLOVENSKI STANDARD
SIST EN IEC 60127-4:2026

01-december-2026

Miniaturne varovalke - 4. del: Univerzalni modularni taljivi vložki - Skoznji vložki in vložki za površinsko montažo (IEC 60127-4:2026)

Miniature fuses - Part 4: Universal modular fuse-links (UMF) - Through-hole and surface mount types (IEC 60127-4:2026)

Geräteschutzsicherungen - Teil 4: Welteinheitliche modulare Sicherungseinsätze (UMF) - Bauarten für Steck- und Oberflächenmontage (IEC 60127-4:2026)

Coupe-circuit miniatures - Partie 4: Éléments de remplacement modulaires universels (UMF) - Types de montage à trou traversant et en surface (IEC 60127-4:2026)

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Ta slovenski standard je istoveten z: **EN IEC 60127-4:2026**

ICS:

29.120.50	Varovalke in druga nadtokovna zaščita	Fuses and other overcurrent protection devices

SIST EN IEC 60127-4:2026 **en,fr,de**

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EUROPEAN STANDARD

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EN IEC 60127-4

September 2026

ICS 29.120.50

Supersedes EN 60127-4:2005; EN 60127-4:2005/A1:2009; EN 60127-4:2005/A2:2013

English Version

Miniature fuses - Part 4: Universal modular fuse-links (UMF) - Through-hole and surface mount types (IEC 60127-4:2026)

Coupe-circuit miniatures - Partie 4: Éléments de remplacement modulaires universels (UMF) - Types de montage à trou traversant et en surface (IEC 60127-4:2026)

Geräteschutzsicherungen - Teil 4: Welteinheitliche modulare Sicherungseinsätze (UMF) - Bauarten für Steck- und Oberflächenmontage (IEC 60127-4:2026)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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European foreword

The text of document 32C/676/FDIS, future edition 4 of IEC 60127-4, 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 60127-4:2026.

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)	2027-09-30
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2029-09-30

This document supersedes EN 60127-4:2005 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document is read in conjunction with EN IEC 60127-1:2024.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

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The text of the International Standard IEC 60127-4:2026 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 60115-1:2020	NOTE	Approved as EN 60115-1:2023
IEC 60115-8:2023	NOTE	Approved as EN IEC 60115-8:2026 (not modified) +A11:2026
IEC 61190-1-2:2014	NOTE	Approved as EN 61190-1-2:2014 (not modified)
IEC 61191-2:2017	NOTE	Approved as EN 61191-2:2017 (not modified)

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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.

Publication	Year	Title	EN/HD	Year
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	2021	Environmental testing - Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices	EN IEC 60068-2-21	2021
IEC 60068-2-58	2015	Environmental testing - Part 2-58: Tests - Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)	EN 60068-2-58	2015
+ A1	2017		+ A1	2018
IEC 60127-1	2023	Miniature fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links	EN IEC 60127-1	2024
IEC 60194	2021	Printed boards design, manufacture and assembly - Vocabulary - Part 1: Common usage in printed board and electronic assembly technologies	-	-
IEC 60216-1	2013	Electrical insulating materials - Thermal endurance properties - Part 1: Ageing procedures and evaluation of test results	EN 60216-1	2013
IEC 60664-1	2020	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	2020
			+AC	2020
+ AMD1	2025		+ A1	2025
IEC 61249-2-7	2002	Materials for printed boards and other interconnecting structures - Part 2-7: Reinforced base materials clad and unclad - Epoxide woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad	EN 61249-2-7	2002
-	-		+ corrigendum Sep.	2005
ISO 3	1973	Preferred numbers - Series of preferred numbers	-	-

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IEC 60127-4

Edition 4.0 2026-03

INTERNATIONAL STANDARD

Miniature fuses -
Part 4: Universal modular fuse-links (UMF) - Through-hole and surface mount types

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ICS 29.120.50

ISBN 978-2-8327-1098-2

IEC 60127-4:2026-03(en)

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Miniature fuses - Part 4: Universal modular fuse-links (UMF) - Through-hole and surface mount types

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 60127-4 has been prepared by subcommittee 32C: Miniature fuses, of IEC technical committee 32: Fuses. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2005, Amendment 1:2008 and Amendment 2:2012. This edition constitutes a technical revision.

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

a) align to IEC 60127-1:2023, third edition;
b) enhance the rated current of UMFs to 100A and provide the corresponding maximum voltage drop and maximum sustained dissipation;
c) modify the figures;
d) update the normative references to the latest version.

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This International Standard is to be used in conjunction with IEC 60127-1:2023

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

Draft	Report on voting
32C/676/FDIS	32C/680/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/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 document is to be used in conjunction with IEC 60127-1:2023.

This document supplements or modifies the corresponding clauses in IEC 60127-1:2023, so as to convert that publication into the IEC standard: Universal modular fuse-links (UMF) – Through-hole and surface mount types.

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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

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– reconfirmed,
– withdrawn, or
– revised.

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INTRODUCTION

According to the wish expressed by the users of miniature fuses, all standards, recommendations and other documents relating to miniature fuses should 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.

The new IEC 60127 series is thus subdivided as follows:

IEC 60127, *Miniature fuses (general title)*

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*

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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*

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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, *Miniature fuses - Part 9: Miniature fuse-links for special applications with partial-range breaking capacity*

IEC 60127-10 (withdrawn)

This part of IEC 60127 covers additional requirements, test equipment and standard sheets. The SI system of units is used throughout this standard.

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1 Scope

This part of IEC 60127 relates to universal modular fuse-links (UMF) for printed circuits and other substrate systems, used for the protection of electric appliances, electronic equipment, and component parts thereof, normally intended to be used indoors.

It does not apply to fuse-links for appliances intended to be used under special conditions, such as in a corrosive or explosive atmosphere.

These fuses are normally intended to be mounted or replaced only by appropriately skilled persons using specialized equipment.

This document applies in addition to the requirements of IEC 60127-1.

The objectives of this part of IEC 60127 are as given in IEC 60127-1, with the additional requirement of a degree of non-interchangeability.

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 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*

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IEC 60068-2-21:2021, *Environmental testing - Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices*

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IEC 60068-2-58:2015, *Environmental testing - Part 2-58: Tests - Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)*
IEC 60068-2-58:2015/AMD1:2017

IEC 60127-1:2023, *Miniature fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links*

IEC 60194:2021 (all parts), *Printed boards design, manufacture and assembly - Vocabulary*

IEC 60216-1:2013, *Electrical insulating materials - Thermal endurance properties - Part 1: Ageing procedures and evaluation of test results*

IEC 60664-1:2020, *Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests*
IEC 60664-1:2020/AMD1:2025

IEC 61249-2-7:2002, *Materials for printed boards and other interconnecting structures - Part 2-7: Reinforced base materials clad and unclad - Epoxide woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad*

ISO 3:1973, *Preferred numbers - Series of preferred numbers*

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