



# SLOVENSKI STANDARD SIST EN IEC 60255-27:2025

01-junij-2025

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## Merilni releji in zaščitna oprema - 27. del: Zahteve za varnost izdelka

Measuring relays and protection equipment - Part 27: Product safety requirements

Messrelais und Schutzeinrichtungen - Teil 27: Anforderungen an die Produktsicherheit

Relais de mesure et dispositifs de protection - Partie 27: Exigences de sécurité

Ta slovenski standard je istoveten z: EN IEC 60255-27:2025

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### ICS:

29.120.70 Releji <https://standards.sist.si/standards/sist/57043e17-7-840f-f03f7fbb75a1/sist-en-iec-60255-27-2025> Relays

**SIST EN IEC 60255-27:2025**

**en**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 60255-27**

April 2025

ICS 29.120.70

Supersedes EN 60255-27:2014

English Version

**Measuring relays and protection equipment - Part 27: Product  
safety requirements  
(IEC 60255-27:2023)**

Relais de mesure et dispositifs de protection - Partie 27:  
Exigences de sécurité des produits  
(IEC 60255-27:2023)

Messrelais und Schutzeinrichtungen - Teil 27:  
Anforderungen an die Produktsicherheit  
(IEC 60255-27:2023)

This European Standard was approved by CENELEC on 2024-10-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

[SIST EN IEC 60255-27:2025](https://standards.iteh.ai/catalog/standards/sist/57043e17-61e2-4f37-840f-f03f7fbb75a1/sist-en-iec-60255-27-2025)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 60255-27:2025 (E)****European foreword**

The text of document 95/516/FDIS, future edition 3 of IEC 60255-27, prepared by TC 95 "Measuring relays and protection equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60255-27:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-04-30 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2028-04-30 document have to be withdrawn

This document supersedes EN 60255-27:2014 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.

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.

**Endorsement notice**

The text of the International Standard IEC 60255-27:2023 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 60332 series	NOTE	Approved as EN IEC 60332 series
IEC 60384-14:2013/A1:2016	NOTE	Approved as EN 60384-14:2013/A1:2016 (not modified)
IEC 60695-2-12	NOTE	Approved as EN IEC 60695-2-12
IEC 60695-11-5	NOTE	Approved as EN 60695-11-5
IEC 61508 series	NOTE	Approved as EN 61508 series
IEC 61558 series	NOTE	Approved as EN IEC 61558 series
IEC 61810-1	NOTE	Approved as EN 61810-1
IEC 61869-1	NOTE	Approved as EN IEC 61869-1
IEC 62368-1	NOTE	Approved as EN IEC 62368-1
IEC 62477-1:2022	NOTE	Approved as EN IEC 62477-1:2023 (not modified)
IEC 62479	NOTE	Approved as EN 62479

## 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60085	-	Electrical insulation - Thermal evaluation and designation	EN 60085	-
IEC 60127-1	-	Miniature fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links	EN IEC 60127-1	-
IEC 60255-1	-	Measuring relays and protection equipment - Part 1: Common requirements	EN IEC 60255-1	-
IEC 60255-26	-	Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements	EN IEC 60255-26	-
IEC 60352-1	-	Solderless connections - Part 1: Wrapped connections - General requirements, test methods and practical guidance	EN 60352-1	-
IEC 60352-2	-	Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance	EN IEC 60352-2	-
IEC 60417	-	Graphical symbols for use on equipment. Index, survey and compilation of the single sheets.	-	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
-	-		+ AC	1993
+ A1	1999		+ A1	2000
+ A2	2013		+ A2	2013
-	-		+ AC	2016
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

**EN IEC 60255-27:2025 (E)**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60664-3	-	Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection against pollution	EN 60664-3	-
IEC/TS 60695-2-20	-	Fire hazard testing -- Part 2-20: Glowing/hot wire based test methods - Hot-wire coil ignitability - Apparatus, test method and guidance	-	-
IEC 60695-11-10	-	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	-
IEC 60825-1	-	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	-
IEC 60990	2016	Methods of measurement of touch current and protective conductor current	EN 60990	2016
IEC 61010-1	2010	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	EN 61010-1	2010
+ A1 (mod)	2016		+ A1	2019
-	-		+ AC	2019
IEC 61032	-	Protection of persons and equipment by enclosures - Probes for verification	EN 61032	-
IEC 61051-2	2021	Varistors for use in electronic equipment - Part 2: Sectional specification for surge suppression varistors	EN IEC 61051-2	2021
IEC 61180	-	High-voltage test techniques for low-voltage equipment - Definitions, test and procedure requirements, test equipment	EN 61180	-
IEC 61869-6	-	Instrument transformers - Part 6: Additional general requirements for low-power instrument transformers	EN 61869-6	-
IEC 61869-10	-	Instrument transformers - Part 10: Additional requirements for low-power passive current transformers	EN IEC 61869-10	-
IEC 61869-11	-	Instrument transformers - Part 11: Additional requirements for low-power passive voltage transformers	EN IEC 61869-11	-
IEC 62151	-	Safety of equipment electrically connected to a telecommunication network	-	-



IEC 60255-27

Edition 3.0 2023-02

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Measuring relays and protection equipment –  
Part 27: Product safety requirements**

**Relais de mesure et dispositifs de protection –  
Partie 27: Exigences de sécurité des produits**

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