

<b>STN</b>	<b>Meracie relé a ochranné zariadenia Časť 1: Všeobecné požiadavky</b>	<b>STN EN IEC 60255-1</b>  35 3410
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Measuring relays and protection equipment - Part 1: Common requirements

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. 03/23

Obsahuje: EN IEC 60255-1:2023, IEC 60255-1:2022

Oznámením tejto normy sa od 19.01.2026 ruší  
STN EN 60255-1 (35 3410) z júla 2010

**136652**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

# EN IEC 60255-1

January 2023

ICS 29.120.70

Supersedes EN 60255-1:2010

English Version

## Measuring relays and protection equipment - Part 1: Common requirements (IEC 60255-1:2022)

Relais de mesure et dispositifs de protection - Partie 1:  
Exigences communes  
(IEC 60255-1:2022)

Messrelais und Schutzeinrichtungen - Teil 1: Allgemeine  
Anforderungen  
(IEC 60255-1:2022)

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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 60255-1:2023 (E)

### European foreword

The text of document 95/513/FDIS, future edition 2 of IEC 60255-1, prepared by IEC/TC 95 "Measuring relays and protection equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60255-1:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2023-10-19 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2026-01-19 document have to be withdrawn

This document supersedes EN 60255-1:2010 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.

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### Endorsement notice

The text of the International Standard IEC 60255-1:2022 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 60664-1	NOTE Harmonized as EN IEC 60664-1
IEC 60068-2-5	NOTE Harmonized as EN IEC 60068-2-5
IEC 60068-2-10	NOTE Harmonized as EN 60068-2-10
IEC 60068-2-42	NOTE Harmonized as EN 60068-2-42
IEC 60068-2-43	NOTE Harmonized as EN 60068-2-43
IEC 60068-2-52	NOTE Harmonized as EN IEC 60068-2-52
IEC 60068-2-60	NOTE Harmonized as EN 60068-2-60
IEC 60068-2-68	NOTE Harmonized as EN 60068-2-68
IEC 60529	NOTE Harmonized as EN 60529
IEC 61869-6:2016	NOTE Harmonized as EN 61869-6:2016 (not modified)
IEC 62443-4-2	NOTE Harmonized as EN IEC 62443-4-2
IEC 62351 (series)	NOTE Harmonized as EN 62351 (series)
ISO/IEC 27019	NOTE Harmonized as EN ISO/IEC 27019
IEC 61869-9	NOTE Harmonized as EN IEC 61869-9

## Annex A (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 60068-2-1	-	Environmental testing - Part 2-1: Tests - Test A: Cold	EN 60068-2-1	-
IEC 60068-2-2	-	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	-
IEC 60068-2-14	-	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14	-
IEC 60068-2-30	-	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	-
IEC 60068-2-78	-	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	-
IEC 60255-21-1	-	Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section One: Vibration tests (sinusoidal)	EN 60255-21-1	-
IEC 60255-21-2	-	Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section Two: Shock and bump tests	EN 60255-21-2	-
IEC 60255-21-3	-	Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 3: Seismic tests	EN 60255-21-3	-
IEC 60255-26	-	Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements	EN 60255-26	-
IEC 60255-27	-	Measuring relays and protection equipment - Part 27: Product safety requirements	EN 60255-27	-
IEC 60255-1XX	series	Measuring relays and protection equipment - Part 1XX: Functional requirements	EN 60255-1XX	series

**EN IEC 60255-1:2023 (E)**

IEC 60688	-	Electrical measuring transducers for converting AC and DC electrical quantities to analogue or digital signals	-	-
IEC 61810-1	-	Electromechanical elementary relays - Part 1: General and safety requirements	-	-
IEC 61869-2	-	Instrument transformers - Part 2: Additional requirements for current transformers	EN 61869-2	-
IEC 61869-3	-	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers	EN 61869-3	-
IEC 61869-5	-	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers	EN 61869-5	-
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	-





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Edition 2.0 2022-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Measuring relays and protection equipment –  
Part 1: Common requirements**

**Relais de mesure et dispositifs de protection –  
Partie 1: Exigences communes**







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IEC 60255-1

Edition 2.0 2022-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Measuring relays and protection equipment –  
Part 1: Common requirements**

**Relais de mesure et dispositifs de protection –  
Partie 1: Exigences communes**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## MEASURING RELAYS AND PROTECTION EQUIPMENT –

### Part 1: Common requirements

#### 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 60255-1 has been prepared by IEC technical committee 95: Measuring relays and protection equipment. It is an International Standard.

This second edition cancels and replaces the first edition published in 2009. This edition constitutes a technical revision.

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

- a) scope of document clarified;
- b) merging units and communications as an integral part of the protection added;
- c) binary output clarification expanded;
- d) environmental operating conditions added (Annex B);
- e) test reference conditions added;
- f) multiple changes to improve understanding across most clauses;
- g) derating by manufacturer added;

- h) safety and EMC tests removed from document and referenced only;
- i) relay setting and type test guidelines modified (Annex A)
- j) battery monitor port and low power instrument transformers added.

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

Draft	Report on voting
95/513/FDIS	95/521/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 60255 series, published under the general title *Measuring relays and protection equipment*, 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](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.

## INTRODUCTION

The following explains the numbering of documents falling under the responsibility of TC 95:

The numbering of documents follows the following principle:

- common standards start with IEC 60255–XX;
- protection functional standards fall into IEC the 60255-1XX series.

The IEC 60255 series consists of the following parts:

a) Common standards:

Part 1: Common requirements

Part 21: Vibration, shock, bump and seismic tests

Part 24: Common format for transient data exchange (COMTRADE) for power systems

Part 26: Electromagnetic compatibility requirements

Part 27: Product safety requirements

b) Protection functional standards:

Part 1XX: Functional requirements

NOTE The last two digits of the part of the proposed functional standard new numbering correspond to function numbers as established in IEEE Std C37.2<sup>TM</sup>-2008 [3]<sup>1</sup>.

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<sup>1</sup> Numbers in square brackets refer to the Bibliography.



# MEASURING RELAYS AND PROTECTION EQUIPMENT –

## Part 1: Common requirements

### 1 Scope

This part of IEC 60255 specifies common rules and requirements applicable to measuring relays and protection equipment, including any combination of equipment to form a distributed protection scheme for power system protection such as control, monitoring and process interface equipment, to obtain uniformity of requirements and tests. This document covers the main technologies in use today; other emerging technologies present specific EMC and safety issues but the philosophy in this document will be applied.

All measuring relays and protection equipment used for protection within the power system environment are covered by this document. Other documents in this series can define their own requirements which in such cases take precedence. The typical locations for measuring relays and protection equipment are where protection of electrical equipment is required: generally power stations, substations and industrial locations.

Measuring relays and protection equipment installed in special applications (marine, railways, aerospace, explosive atmospheres, computer centres, etc.) could be enhanced by additional requirements required by that application.

### 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 60068-2-1, *Environmental testing – Part 2-1: Tests – Test A: Cold*

IEC 60068-2-2, *Environmental testing – Part 2-2: Tests – Test B: Dry heat*

IEC 60068-2-14, *Environmental testing – Part 2-14: Tests – Test N: Change of temperature*

IEC 60068-2-30, *Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)*

IEC 60068-2-78, *Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state*

IEC 60255-21-1, *Electrical relays – Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment – Section One: Vibration tests (sinusoidal)*

IEC 60255-21-2, *Electrical relays – Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment – Section Two: Shock and bump tests*

IEC 60255-21-3, *Electrical relays – Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment – Section 3: Seismic tests*

IEC 60255-26, *Measuring relays and protection equipment – Part 26: Electromagnetic compatibility requirements*

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IEC 60255-27, *Measuring relays and protection equipment – Part 27: Product safety requirements*

IEC 60255-1XX (all parts), *Measuring relays and protection equipment – Part 1XX: Functional requirements*

IEC 60688, *Electrical measuring transducers for converting AC and DC electrical quantities to analogue or digital signals*

IEC 61810-1, *Electromechanical elementary relays – Part 1: General and safety requirements*

IEC 61869-2, *Instrument transformers – Part 2: Additional requirements for current transformers*

IEC 61869-3, *Instrument transformers – Part 3: Additional requirements for inductive voltage transformers*

IEC 61869-5, *Instrument transformers – Part 5: Additional requirements for capacitor voltage transformers*

IEC 61869-10, *Instrument transformers – Part 10: Additional requirements for low-power passive current transformers*

IEC 61869-11, *Instrument transformers – Part 11: Additional requirements for low-power passive voltage transformers*

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