
Oprema za merjenje električne energije - Splošne zahteve, preskusi in preskuševalni pogoji - 11. del: Merilna oprema

Electricity metering equipment - General requirements, tests and test conditions - Part 11: Metering equipment

Elektrizitätszähler – Allgemeine Anforderungen, Prüfungen und Prüfbedingungen - Teil 11: Messeinrichtungen

Équipement de comptage de l'électricité – Exigences générales, essais et conditions d'essai - Partie 11: Équipement de comptage

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ICS:

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
91.140.50	Sistemi za oskrbo z elektriko	Electricity supply systems

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
EN IEC 62052-11:2021

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English Version

Electricity metering equipment - General requirements, tests and test conditions - Part 11: Metering equipment

Équipement de comptage de l'électricité - Exigences générales, essais et conditions d'essai - Partie 11: Équipement de comptage

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This draft amendment prAC, if approved, will modify the European Standard EN IEC 62052-11:2021; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2026-10-16.

It has been drawn up by CLC/TC 13.

If this draft becomes an amendment, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

This draft amendment was established by CENELEC in three official versions (English, French, German).

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document (EN IEC 62052-11:2021/prAC:2026) has been prepared by CLC/TC 13 “Electrical energy measurement and control”.

This document is currently submitted to the Enquiry.

The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dav + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dav + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dav + 36 months (to be confirmed or modified when voting)

This document modifies EN IEC 62052-11:2021.

EN IEC 62052-11:2021/prAC:2026 includes the following significant technical changes with respect to EN IEC 62052-11:2021:

- modification of the reference for safety requirements from IEC 62052-31:2015 to IEC 62052-31:2024
- adaptation of Clause 9 and Annex H with an additional test waveform to ensure immunity against severe current transients.
- adaptation of the whole document to MID and EMCD, addition of Annexes ZZA and ZZB.

This document is read in conjunction with EN IEC 62052-11:2021, EN IEC 62052-11:2021/A11:2022 and EN IEC 62052-11:2021/A12:2024.

This document has been prepared under Standardization Requests given to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annexes ZZA and ZZB, which are an integral part of this document.

EN IEC 62052-11:2021/prAC:2026 (E)

1 Modification to Introduction

In the Introduction, replace the second table with the following:

“

PRODUCT FAMILY STANDARDS – PARTICULAR REQUIREMENTS AND ACCURACY CLASSES				
AC meters rated up to 1 000 V for direct connection or connection through conventional transformers	Tariff and load control equipment	DC meters rated up to 1 500 V for direct connection	AC meters for connection through LPITs (as defined in the IEC 61869 series of standards)	DC meters for connection through LPITs (as defined in the IEC 61869 series of standards)
Static, active energy directly connected, and transformer operated, classes A, B, C EN 50470-3:2022 /A1:20XX		Static, active energy, directly connected, classes A, B, C EN 50470-4:2023		
Electromechanical, active energy directly connected, classes 0,5, 1, 2 IEC 62053-11:2003, IEC 62058-21:2008	Ripple control receivers IEC 62054-11:2004	Static, DC energy, directly connected, classes 0,5, 1 IEC 62053-41 –	Planned: LPIT operated meters IEC 62053-xx	Planned: LPIT operated meters IEC 62053-xx
Static, active energy directly connected, and transformer operated, classes 1, 2 IEC 62053-21:2020, IEC 62058-31:2008,	Time switches IEC 62054-21:2004	—	—	—
Static, active energy, transformer operated, classes 0,1S, 0,2S, 0,5S IEC 62053-22:2020, IEC 62058-31:2008	—	—	—	—
Static, reactive energy directly connected, and transformer operated, classes 2, 3 IEC 62053-23:2020	—	—	—	—
Static, reactive energy directly connected, and transformer operated, classes 0,5 S, 1S, 1, 2, 3 IEC 62053-24:2020	—	—	—	—
Static, active energy directly connected, prepayment classes 1, 2 IEC 62055-31:2005	—	—	—	—

NOTE The standards in the table above are referred to as “the relevant particular requirements (accuracy class) standards” throughout the document.”

“

In the Introduction and throughout the text, replace

“

IEC 62057-1, Test equipment, techniques and procedures for electrical energy meters – Part 1: Stationary Meter Test Units (MTU)

“

with

“

IEC 62057-1:2023, Electrical energy meters – Test equipment, techniques and procedures – Part 1: Stationary meter test units (MTUs)

“

In the last paragraph, delete “For special application, other test levels may be used and are subject to an agreement between the manufacturer and the purchaser.”

2 Modification to Clause 1, “Scope”

*In the 2nd paragraph, delete the 4th list item starting with “Operate with detached ...”**Add the following NOTE 10 after NOTE 9:*

“

*NOTE 10 Nominal values, accuracy classes, requirements and test methods for reference standard meters are specified in IEC 62057-1:2023.”**Renumber the subsequent notes: NOTE 11 to NOTE 14.**Replace (newly numbered) NOTE 11 with the following:*

“

NOTE 11 Nevertheless, specific tampering detection and prevention requirements, and test methods, as relevant for a particular market can be defined.”

3 Modifications to Clause 2, “Normative references”

In Clause 2 and throughout the text, replace

“

IEC 60404-8-4:2013, Magnetic materials – Part 8-4: Specifications for individual materials – Cold-rolled non-oriented electrical steel strip and sheet delivered in the fully-processed state

”

with

“

IEC 60404-8-4:2022, Magnetic materials – Part 8-4: Specifications for individual materials – Cold-rolled non-oriented electrical steel strip and sheet delivered in the fully-processed state

”

Delete

“

EN IEC 62052-11:2021/prAC:2026 (E)

IEC 60664-1:2007, *Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests*

“

In Clause 2 and throughout the text, replace

“

IEC 60721-1:1990, *Classification of environmental conditions – Part 1: Environmental parameters and their severities*

”

with

“

IEC 60721-1:1990,¹ *Classification of environmental conditions – Part 1: Environmental parameters and their severities*

”

Delete

“

IEC 60947-1:2007, *Low-voltage switchgear and controlgear – Part 1: General rules*

IEC 60947-1:2007/AMD1:2010

IEC 60947-1:2007/AMD2:2014

“

In Clause 2 and throughout the text, replace

“

IEC 61000-4-3:2006, *Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test*

”

with

“

IEC 61000-4-3:2020, *Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test*

”

In Clause 2 and throughout the text, replace

“

IEC 61000-4-11:2020, *Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase*

”

with

¹ As impacted by IEC 60721-1:1990/AMD1:1992 and IEC 60721-1:1990/AMD1:1995.

“

IEC 61000-4-11:2020,² *Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase*

”

In Clause 2 and throughout the text, replace

“

IEC 61000-4-18:2019, *Electromagnetic compatibility (EMC) – Part 4-18: Testing and measurement techniques – Damped oscillatory wave immunity test*

”

with

“

IEC 61000-4-18:2019,³ *Electromagnetic compatibility (EMC) – Part 4-18: Testing and measurement techniques – Damped oscillatory wave immunity test*

”

In Clause 2 and throughout the text, replace

“

IEC 61000-4-20:2010, *Electromagnetic compatibility (EMC) – Part 4-20: Testing and measurement techniques – Emission and immunity testing in transverse electromagnetic (TEM) waveguides*

”

with

“

IEC 61000-4-20:2022, *Electromagnetic compatibility (EMC) – Part 4-20: Testing and measurement techniques – Emission and immunity testing in transverse electromagnetic (TEM) waveguides*

”

In Clause 2 and throughout the text, replace

“

IEC 61000-4-5:2014/AMD1:2017, *Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 5: Surge immunity test*

”

with

“

IEC 61000-4-5:2014,⁴ *Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 5: Surge immunity test*

”

² As impacted by IEC 61000-4-11:2020/COR1:2020 and IEC 61000-4-11:2020/COR2:2022.

³ As impacted by IEC 61000-4-18:2019/COR1:2019.

⁴ As impacted by IEC 61000-4-5:2014/AMD1:2017.