

# **SLOVENSKI STANDARD**

## **SIST EN IEC 62052-11:2021**

**01-junij-2021**

**Nadomešča:**

**SIST EN 62052-11:2004**

**SIST EN 62052-11:2004/A1:2017**

**SIST EN 62052-11:2004/A1:2017/AC:2018**

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

Electricity metering equipment (a.c.) - General requirements, tests and test conditions - Part 11: Metering equipment

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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

**EN IEC 62052-11**

April 2021

ICS 17.220.20

Supersedes EN 62052-11:2003 and all of its  
amendments and corrigenda (if any)

English Version

**Electricity metering equipment - General requirements, tests and  
test conditions - Part 11: Metering equipment  
(IEC 62052-11:2020)**

Équipement de comptage de l'électricité - Exigences  
générales, essais et conditions d'essai - Partie 11:  
Équipement de comptage  
(IEC 62052-11:2020)

Elektrizitätszähler - Allgemeine Anforderungen, Prüfungen  
und Prüfbedingungen - Teil 11: Messeinrichtungen  
(IEC 62052-11:2020)

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

**EN IEC 62052-11:2021 (E)****European foreword**

The text of document 13/1808/FDIS, future edition 2 of IEC 62052-11, prepared by IEC/TC 13 "Electrical energy measurement and control" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62052-11:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2021-10-02 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024-04-02 document have to be withdrawn

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

| <u>Publication</u> | <u>Year</u> | <u>Title</u>                                                                                                                                                              | <u>EN/HD</u>     | <u>Year</u> |
|--------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|
| IEC 60038 (mod)    | 2009        | IEC standard voltages                                                                                                                                                     | EN 60038         | 2011        |
| IEC 60068-2-1      | 2007        | Environmental testing - Part 2-1: Tests - Test A: Cold                                                                                                                    | EN 60068-2-1     | 2007        |
| IEC 60068-2-2      | 2007        | Environmental testing - Part 2-2: Tests - Test B: Dry heat                                                                                                                | EN 60068-2-2     | 2007        |
| IEC 60068-2-5      | 2018        | Environmental testing - Part 2-5: Tests - Test S: Simulated solar radiation at ground level and guidance for solar radiation testing and weathering                       | EN IEC 60068-2-5 | 2018        |
| IEC 60068-2-6      | 2007        | Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)                                                                                                 | EN 60068-2-6     | 2008        |
| IEC 60068-2-27     | 2008        | Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock                                                                                                    | EN 60068-2-27    | 2009        |
| IEC 60068-2-30     | 2005        | Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)                                                                                 | EN 60068-2-30    | 2005        |
| IEC 60381-1        | 1982        | Analogue signals for process control systems. Part 1: Direct current signals                                                                                              | HD 452.1 S1      | 1984        |
| IEC 60404-5        | 2015        | Magnetic materials - Part 5: Permanent magnet (magnetically hard) materials - Methods of measurement of magnetic properties                                               | EN 60404-5       | 2015        |
| IEC 60404-8-1      | 2015        | Magnetic materials - Part 8-1: Specifications for individual materials - Magnetically hard materials                                                                      | EN 60404-8-1     | 2015        |
| 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 | -                | -           |

## EN IEC 62052-11:2021 (E)

| <u>Publication</u> | <u>Year</u> | <u>Title</u>                                                                                                                                                                                                        | <u>EN/HD</u>      | <u>Year</u> |
|--------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|
| IEC 60664-1        | 2007        | Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests                                                                                                       | EN 60664-1        | 2007        |
| IEC 60721-1        | 1990        | Classification of environmental conditions - Part 1: Environmental parameters and their severities                                                                                                                  | EN 60721-1        | 1995        |
| IEC 60947-1        | 2007        | Low-voltage switchgear and controlgear - Part 1: General rules                                                                                                                                                      | EN 60947-1        | 2007        |
| + A1               | 2010        |                                                                                                                                                                                                                     | + A1              | 2011        |
| + A2               | 2014        |                                                                                                                                                                                                                     | + A2              | 2014        |
| IEC 61000-4-2      | 2008        | Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test                                                                                          | EN 61000-4-2      | 2009        |
| IEC 61000-4-3      | 2006        | Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test                                                                | EN 61000-4-3      | 2006        |
| + A1               | 2007        |                                                                                                                                                                                                                     | + A1              | 2008        |
| + A2               | 2010        |                                                                                                                                                                                                                     | + A2              | 2010        |
| IEC 61000-4-4      | 2012        | Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test                                                                                  | EN 61000-4-4      | 2012        |
| IEC 61000-4-5      | 2017        | Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test                                                                                                            | -                 | -           |
| IEC 61000-4-6      | 2013        | Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields                                                          | EN 61000-4-6      | 2014        |
| IEC 61000-4-8      | 2009        | Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test                                                                                   | EN 61000-4-8      | 2010        |
| 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 | EN IEC 61000-4-11 | 2020        |
| IEC 61000-4-12     | 2017        | Electromagnetic compatibility (EMC) – Part 4-12: Testing and measurement techniques – Ring wave immunity test                                                                                                       | EN 61000-4-12     | 2017        |
| IEC 61000-4-18     | 2019        | Electromagnetic compatibility (EMC) - Part 4-18: Testing and measurement techniques - Damped oscillatory wave immunity test                                                                                         | EN IEC 61000-4-18 | 2019        |

| Publication    | Year | Title                                                                                                                                                                                                                           | EN/HD                       | Year |
|----------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|
| IEC 61000-4-19 | 2014 | Electromagnetic compatibility (EMC) - Part 4-19: Testing and measurement techniques - Test for immunity to conducted, differential mode disturbances and signalling in the frequency range 2 kHz to 150 kHz at a.c. power ports | EN 61000-4-19               | 2014 |
| IEC 61000-4-20 | 2010 | Electromagnetic compatibility (EMC) - Part 4-20: Testing and measurement techniques - Emission and immunity testing in transverse electromagnetic (TEM) waveguides                                                              | EN 61000-4-20               | 2010 |
| IEC 61000-4-29 | 2000 | Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests                                          | EN 61000-4-29               | 2000 |
| IEC 61869-3    | 2011 | Instrument transformers - Part 3: Additional requirements for inductive voltage transformers                                                                                                                                    | EN 61869-3                  | 2011 |
| IEC 62052-31   | 2015 | Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 31: Product safety requirements and tests                                                                                          | EN 62052-31                 | 2016 |
| IEC 62054-21   | 2004 | Electricity metering (a.c.) - Tariff and load control - Part 21: Particular requirements for time switches                                                                                                                      | EN 62054-21                 | 2004 |
| IEC 62056-6-1  | 2017 | Electricity metering data exchange - The DLMS/COSEM suite - Part 6-1: Object Identification System (OBIS)                                                                                                                       | EN 62056-6-1                | 2017 |
| IEC 62056-6-2  | 2017 | Electricity metering data exchange - The DLMS/COSEM suite - Part 6-2: COSEM interface classes                                                                                                                                   | EN IEC 62056-6-2            | 2018 |
| IEC 62057-1    | -    | Test equipment, techniques and procedures for electrical energy meters - Part 1: Stationary Meter Test Units (MTU)                                                                                                              | EN IEC 62057-1 <sup>1</sup> | -    |
| IEC 62059-32-1 | 2011 | Electricity metering equipment - Dependability - Part 32-1: Durability - Testing of the stability of metrological characteristics by applying elevated temperature                                                              | EN 62059-32-1               | 2012 |
| IEC GUIDE 98-3 | -    | Uncertainty of measurement – Part 3: - Guide to the expression of uncertainty in measurement (GUM:1995)                                                                                                                         | -                           | -    |
| CISPR 32       | 2015 | Electromagnetic compatibility of multimedia equipment - Emission requirements                                                                                                                                                   | EN 55032                    | 2015 |
| -              | -    |                                                                                                                                                                                                                                 | + A11                       | 2020 |

<sup>1</sup> Under preparation. Stage at time of preparation: prEN IEC 62057-1.

**EN IEC 62052-11:2021 (E)**

| <u>Publication</u> | <u>Year</u> | <u>Title</u>                                                                                                                         | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|
| JCGM 100           | 2008        | Evaluation of measurement data – Guide -<br>to the expression of uncertainty in<br>measurement. (GUM 1995 with minor<br>corrections) | -            | -           |
| -                  | -           | Designation systems for steels – Part 1: EN 10027-1<br>Steel names                                                                   |              | 2016        |

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Edition 2.0 2020-06

# INTERNATIONAL STANDARD

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

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