

**SLOVENSKI STANDARD**  
**SIST EN IEC 62053-23:2021****01-junij-2021****Nadomešča:****SIST EN 62053-23:2004****SIST EN 62053-23:2004/A1:2017****SIST EN 62053-23:2004/A1:2017/AC:2018**

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**Oprema za merjenje električne energije - Posebne zahteve - 23. del: Statični števcijalove energije (razreda 2 in 3)**

Electricity metering equipment - Particular requirements - Part 23: Static meters for reactive energy (classes 2 and 3)

Elektrizitätszähler - Besondere Anforderungen - Teil 23: Elektronische Blindverbrauchsähler der Genauigkeitsklassen 2 und 3

Équipement de comptage de l'électricité - Exigences particulières - Partie 23: Compteurs statiques d'énergie réactive (classes 2 et 3)

**Ta slovenski standard je istoveten z: EN IEC 62053-23:2021****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

**SIST EN IEC 62053-23:2021****en**

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EUROPEAN STANDARD

**EN IEC 62053-23**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2021

ICS 17.220.20

Supersedes EN 62053-23:2003 and all of its  
amendments and corrigenda (if any)

English Version

**Electricity metering equipment - Particular requirements - Part  
23: Static meters for reactive energy (classes 2 and 3)  
(IEC 62053-23:2020)**

Équipement de comptage de l'électricité - Exigences  
particulières - Partie 23: Compteurs statiques d'énergie  
réactive (classes 2 et 3)  
(IEC 62053-23:2020)

Elektrizitätszähler - Besondere Anforderungen - Teil 23:  
Elektronische Blindverbrauchszähler der  
Genauigkeitsklassen 2 und 3  
(IEC 62053-23:2020)

This European Standard was approved by CENELEC on 2020-07-22. 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.

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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 62053-23:2021 (E)****European foreword**

The text of document 13/1807A/FDIS, future edition 2 of IEC 62053-23, 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 62053-23:2021.

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) 2021-10-02
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-04-02

This document supersedes EN 62053-23:2003 and all of its amendments and corrigenda (if any).

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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 60375	2018	Conventions concerning electric circuits	EN IEC 60375	2018
IEC 62052-11	2020	Electricity metering equipment - General requirements, tests and test conditions - Part 11: Metering equipment	EN IEC 62052-11	2021

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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Electricity metering equipment – Particular requirements –  
Part 23: Static meters for reactive energy (classes 2 and 3)**

**Équipement de comptage de l'électricité – Exigences particulières –  
Partie 23: Compteurs statiques d'énergie réactive (classes 2 et 3)**

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ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**ELECTRICITY METERING EQUIPMENT –  
PARTICULAR REQUIREMENTS –**
**Part 23: Static meters for reactive energy (classes 2 and 3)****FOREWORD**

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International Standard IEC 62053-23 has been prepared by IEC technical committee 13: Electrical energy measurement and control.

This second edition cancels and replaces the first edition published in 2003 and its amendment 1:2016. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition: see Annex B.

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

FDIS	Report on voting
13/1807A/FDIS	13/1815/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62053 series, published under the general title *Electricity metering equipment – Particular requirements*, 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 "<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.

NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 2 years from the date of publication.

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## INTRODUCTION

This part of IEC 62053 is to be used with relevant parts of the IEC 62052, IEC 62058 and IEC 62059 series, *Electricity metering equipment*, and with the IEC 62055 series, *Electricity metering – Payment systems*:

IEC 62052-11:2020,	<i>Electricity metering equipment – General requirements, tests and test conditions – Part 11: Metering equipment</i>
IEC 62052-31:2015,	<i>Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 31: Product safety requirements and tests</i>
IEC 62053-11:2003,	<i>Electricity metering equipment (AC) – Particular requirements – Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2)</i>
IEC 62053-21:2020,	<i>Electricity metering equipment – Particular requirements – Part 21: Static meters for AC active energy (classes 0,5, 1 and 2)</i>
IEC 62053-22:2020,	<i>Electricity metering equipment – Particular requirements – Part 22: Static meters for AC active energy (classes 0,1 S, 0,2S and 0,5 S)</i>
IEC 62053-24:2020,	<i>Electricity metering equipment – Particular requirements – Part 24: Static meters for fundamental component reactive energy (classes 0,5 S, 1 S, 1, 2 and 3)</i>
IEC 62055-31:2005,	<i>Electricity metering – Payment systems – Part 31: Particular requirements – Static payment meters for active energy (classes 1 and 2)</i>
IEC 62057-1: –	<i>Test equipment, techniques and procedures for electrical energy meters – Part 1: Stationary Meter Test Units (MTU)</i>
IEC 62058-11:2008,	<i>Electricity metering equipment (AC) – Acceptance inspection – Part 11: General acceptance inspection methods</i>
IEC 62058-21:2008,	<i>Electricity metering equipment (AC) – Acceptance inspection – Part 21: Particular requirements for electromechanical meters for active energy (classes 0,5, 1 and 2)</i>
IEC 62058-31:2008,	<i>Electricity metering equipment (AC) – Acceptance inspection – Part 31: Particular requirements for static meters for active energy (classes 0,2 S, 0,5 S, 1 and 2)</i>
IEC 62059-11:2002,	<i>Electricity metering equipment – Dependability – Part 11: General concepts</i>
IEC 62059-21:2002,	<i>Electricity metering equipment – Dependability – Part 21: Collection of meter dependability data from the field</i>
IEC 62059-32-1:2011,	<i>Electricity metering equipment – Dependability – Part 32-1: Durability – Testing of the stability of metrological characteristics by applying elevated temperature</i>

This part is a standard for type testing electricity meters. It covers the particular requirements for meters, being used indoors and outdoors in large quantities worldwide. It does not deal with special implementations (such as metering-part and/or displays in separate housings).

This document is intended to be used in conjunction with IEC 62052-11:2020 and with IEC 62052-31:2015. When any requirement in this document concerns an item already covered in IEC 62052-11:2020 or in IEC 62052-31:2015, the requirements of this document take precedence over the requirements of IEC 62052-11:2020 or of IEC 62052-31:2015.