

SLOVENSKI STANDARD oSIST prEN IEC 60335-2-4:2024

01-julij-2024

Gospodinjski in podobni električni aparati - Varnost - 2-4. del: Posebne zahteve za centrifuge

Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-4: Besondere Anforderungen für Wäscheschleudern

Appareils électrodomestiques et analogues - Sécurité - Partie 2-4: Exigences particulières pour les essoreuses centrifuges

Document Preview

Ta slovenski standard je istoveten z: prEN IEC 60335-2-4:2024

<u>SIST prEN IEC 60335-2-4:2024</u>

ICS:

13.120	Varnost na domu
97.060	Aparati za nego perila

Domestic safety Laundry appliances

oSIST prEN IEC 60335-2-4:2024

en

oSIST prEN IEC 60335-2-4:2024

iTeh Standards (https://standards.iteh.ai) Document Preview

<u>oSIST prEN IEC 60335-2-4:2024</u> https://standards.iteh.ai/catalog/standards/sist/218d0439-968b-4af4-a666-1f8aa7547c35/osist-pren-iec-60335-2-4-2024

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

DRAFT prEN IEC 60335-2-4

May 2024

ICS 13.120; 97.060

Will supersede EN IEC 60335-2-4:2023; EN IEC 60335-2-4:2023/A11:2023

English Version

Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors (IEC 60335-2-4:2023)

Appareils électrodomestiques et analogues - Sécurité -Partie 2-4: Exigences particulières pour les essoreuses centrifuges (IEC 60335-2-4:2023) Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-4: Besondere Anforderungen für Wäscheschleudern (IEC 60335-2-4:2023)

This draft European Standard is submitted to CENELEC members for enquiry. Deadline for CENELEC: 2024-08-16.

The text of this draft consists of the text of IEC 60335-2-4:2023 (61/7014/FDIS).

If this draft becomes a European Standard, 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.

This draft European Standard was established by CENELEC 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.

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.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

© 2024 CENELEC All rights of exploitation in any form and by any means reserved worldwide for CENELEC Members.

1 European foreword

This document (prEN IEC 60335-2-4:2024) consists of the text of IEC 60335-2-4:2023 prepared by IEC/TC 61
 "Safety of household and similar electrical appliances".

- 4 This document is currently submitted to the Enquiry.
- 5 The following dates are proposed:

•	latest date by which the existence of this document has to be announced at national level	(doa)	dor + 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)	dor + 12 months
•	latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	dor + 36 months (to be confirmed or modified when voting)

6 This document will supersede EN IEC 60335-2-4:2023 and all of its amendments and corrigenda (if any).

7

8

iTeh Standards (https://standards.iteh.ai) Document Preview

<u>oSIST prEN IEC 60335-2-4:2024</u> tps://standards.iteh.ai/catalog/standards/sist/218d0439-968b-4af4-a666-1f8aa7547c35/osist-pren-iec-60335-2-4-20





Edition 8.0 2023-12

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Household and similar electrical appliances – Safety – Part 2-4: Particular requirements for spin extractors

Appareils électrodomestiques et analogues – Sécurité – Partie 2-4: Exigences particulières pour les essoreuses centrifuges

Document Preview

oSIST prEN IEC 60335-2-4:2

nttps://standards.iteh.ai/catalog/standards/sist/218d0439-968b-4af4-a666-1f8aa7547c35/osist-pren-iec-60335-2-4-2024

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 97.060, 13.120

ISBN 978-2-8322-7879-6

Warning! Make sure that you obtained this publication from an authorized distributor. Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.

 Registered trademark of the International Electrotechnical Commission Marque déposée de la Commission Electrotechnique Internationale

– 2 – IEC 60335-2-4:2023 © IEC 2023

CONTENTS

FOREWORD		4
INTRODUCTION		7
1	Scope	8
2	Normative references	9
3	Terms and definitions	9
4	General requirement	9
5	General conditions for the tests	9
6	Classification	10
7	Marking and instructions	10
8	Protection against access to live parts	10
9	Starting of motor-operated appliances	11
10	Power input and current	11
11	Heating	11
12	Charging of metal-ion batteries	12
13	Leakage current and electric strength at operating temperature	12
14	Transient overvoltages	12
15	Moisture resistance	12
16	Leakage current and electric strength	13
17	Overload protection of transformers and associated circuits	13
18	Endurance	13
19	Abnormal operation	13
20	Stability and mechanical hazards	14
21	Mechanical strength	16
22	Construction	17
23	Internal wiring a/standards/sist/218d0430-968h-4af4-a6666-1f8aa7547c35/osist-pren-	i.c 17 335-2-4-202
24	Components	17
25	Supply connection and external flexible cords	18
26	Terminals for external conductors	18
27	Provision for earthing	18
28	Screws and connections	18
29	Clearances, creepage distances and solid insulation	18
30	Resistance to heat and fire	18
31	Resistance to rusting	18
32	Radiation, toxicity and similar hazards	18
Ann	exes	20
Annex B (normative) Battery-operated appliances, separable batteries and detachable batteries for battery-operated appliances		20
Ann	ex C (normative) Ageing test on motors	21
Ann	ex R (normative) Software evaluation	22
Bibli	ography	23

Figure 101 – Probe for measuring surface temperatures	19
Table 101 – Maximum temperature rises for specified external accessible surfaces under normal operating conditions	12

- 3 -

IEC 60335-2-4:2023 © IEC 2023

iTeh Standards (https://standards.iteh.ai) Document Preview

<u>oSIST.prEN IEC 60335-2-4:2024</u> https://standards.iteh.ai/catalog/standards/sist/218d0439-968b-4af4-a666-1f8aa7547c35/osist-pren-iec-60335-2-4-2024 oSIST prEN IEC 60335-2-4:2024

- 4 -

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-4: Particular requirements for spin extractors

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or
- other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
 - 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
 - 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at https://patents.iec.ch. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 60335-2-4 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances. It is an International Standard.

This eighth edition cancels and replaces the seventh edition published in 2021. This edition constitutes a technical revision.

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

- a) alignment with IEC 60335-1:2020;
- b) conversion of some notes to normative text (20.103, 20.104, 22.101);
- c) addition of test probe 19 for accessibility of live parts and moving parts (8.1.1, 20.2);
- d) addition of accessible surface temperature limits (11.3, 11.8);

IEC 60335-2-4:2023 © IEC 2023

- 5 -

e) specified operating conditions for battery operated appliances (B.11.1).

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

Draft	Report on voting	
61/7014/FDIS	61/7078/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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts of the IEC 60335 series, under the general title: *Household and similar electrical appliances – Safety*, can be found on the IEC website.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of the sixth edition (2020) of that standard.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Particular requirements for spin extractors.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

IST prEN IEC 60335-2-4:2024

nttps://starNOTE 2 The following numbering system is used: 439-968b-4af4-a666-1f8aa7547c35/osist-pren-iec-60335-2-4-2024

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

- requirements: in roman type;
- test specifications: in italic type;
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

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 in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations can need a transitional period following publication of a new, amended or revised IEC publication in

IEC 60335-2-4:2023 © IEC 2023

which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

- 6 -

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

iTeh Standards (https://standards.iteh.ai) Document Preview

<u>oSIST prEN IEC 60335-2-4:2024</u> https://standards.iteh.ai/catalog/standards/sist/218d0439-968b-4af4-a666-1f8aa7547c35/osist-pren-iec-60335-2-4-202