

SLOVENSKI STANDARD SIST EN 60335-2-86:2024

01-februar-2024

Gospodinjski in podobni električni aparati - Varnost - 2-86. del: Posebne zahteve za električne ribiške naprave (IEC 60335-2-86:2018)

Household and similar electrical appliances - Safety - Part 2-86: Particular requirements for electric fishing machines (IEC 60335-2-86:2018)

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-86: Besondere Anforderungen für elektrische Fischereigeräte (IEC 60335-2-86:2018)

Appareils électrodomestiques et analogues - Sécurité - Partie 2-86: Règles particulières pour les équipements électriques de pêche (IEC 60335-2-86:2018)

Ta slovenski standard je istoveten z: EN IEC 60335-2-86:2023 SIST EN 60335-2-86:2024

ICS:

65.150 Ribolov in ribogojstvo Fishing and fish breeding

SIST EN 60335-2-86:2024

en

SIST EN 60335-2-86:2024

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

<u>SIST EN 60335-2-86:2024</u> https://standards.iteh.ai/catalog/standards/sist/d6046478-aaaf-4f93-8cfb-72e62a2015e9/sist-en-60335-2-86-2024

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN IEC 60335-2-86

December 2023

ICS 65.150

Supersedes EN 60335-2-86:2003; EN 60335-2-86:2003/A1:2005; EN 60335-2-86:2003/A11:2016; EN 60335-2-86:2003/A2:2016; EN 60335-2-86:2003/A12:2017

English Version

Household and similar electrical appliances - Safety - Part 2-86: Particular requirements for electric fishing machines (IEC 60335-2-86:2018)

Appareils électrodomestiques et analogues - Sécurité -Partie 2-86: Exigences particulières pour les équipements électriques de pêche (IEC 60335-2-86:2018) Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-86: Besondere Anforderungen für elektrische Fischereigeräte (IEC 60335-2-86:2018)

This European Standard was approved by CENELEC on 2023-11-22. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists 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.

Document Preview

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.

https://standards.iteh.ai/catalog/standards/sist/d6046478-aaaf-4f93-8cfb-72e62a2015e9/sist-en-60335-2-86-2024



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

© 2023 CENELEC All rights of exploitation in any form and by any means reserved worldwide for CENELEC Members.

European foreword

This document (EN IEC 60335-2-86:2023) consists of the text of IEC 60335-2-86:2018 prepared by IEC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be (dop) 2024-11-22 implemented at national level by publication of an identical national standard or by endorsement
 latest date by which the national standarda (dow) 2026 11 22
- latest date by which the national standards (dow) 2026-11-22 conflicting with this document have to be withdrawn

This document supersedes EN 60335-2-86:2003 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.

This document is read in conjunction with EN IEC 60335-2-86:2023/A11:2023.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

iTeh Standards

(http://www.andorsement.notice

Document Preview

The text of the International Standard IEC 60335-2-86:2018 was approved by CENELEC as a European Standard without any modification.

https://standards.iteh.ai/catalog/standards/sist/d6046478-aaaf-4f93-8cfb-72e62a2015e9/sist-en-60335-2-86-2024

SIST EN 60335-2-86:2024





Edition 3.0 2018-04

INTERNATIONAL STANDARD



Household and similar electrical appliances – Safety – Part 2-86: Particular requirements for electric fishing machines

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

SIST EN 60335-2-86:2024

nttps://standards.iteh.ai/catalog/standards/sist/d6046478-aaaf-4f93-8cfb-72e62a2015e9/sist-en-60335-2-86-2024

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ICS 65.150

ISBN 978-2-8322-5569-8

Warning! Make sure that you obtained this publication from an authorized distributor.

– 2 – IEC 60335-2-86:2018 © IEC 2018

CONTENTS

FO	REWORD	3
INT	FRODUCTION	6
1	Scope	7
2	Normative references	7
3	Terms and definitions	8
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	11
9	Starting of motor-operated appliances	12
10	Power input and current	12
11	Heating	12
12	Void	12
13	Leakage current and electric strength at operating temperature	12
14	Transient overvoltages	12
15	Moisture resistance	13
16	Leakage current and electric strength	13
17	Overload protection of transformers and associated circuits	13
18	Endurance (https://standards.iteh.al)	13
19	Abnormal operation	13
20	Stability and mechanical hazards	13
21	Mechanical strength	
22	Construction	
23	Internal wiring	
24	Components	16
25	Supply connection and external flexible cords	16
26	Terminals for external conductors	16
27	Provision for earthing	17
28	Screws and connections	17
29	Clearances, creepage distances and solid insulation	17
30	Resistance to heat and fire	17
31	Resistance to rusting	17
32	Radiation, toxicity and similar hazards	18
An	nexes	19
An	nex A (informative) Routine tests	19
	nex S (normative) Battery-operated appliances powered by batteries that are non- hargeable or not recharged in the appliance	20
An	nex AA (normative) Boat mounted electric fishing machines	23
Bib	liography	25

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-86: Particular requirements for electric fishing machines

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.
- 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.
- https://7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and 2-86-2024 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.
 - Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

This part of International Standard IEC 60335 has been prepared by subcommittee 61H: Safety of electrically-operated farm appliances, of IEC technical committee 61: Safety of household and similar electrical appliances.

This third edition cancels and replaces the second edition published in 2002, its Amendment 1 (2005) and its Amendment 2 (2012). This edition constitutes a technical revision.

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

- aligns the text with IEC 60335-1, Ed 5, and its Amendments 1 and 2;
- some notes have been converted to normative text (22.102, 22.113, 26.106);
- requirements for battery-operated electric fishing machines have been moved to Annex S.

- 4 - IEC 60335-2-86:2018 © IEC 2018

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

FDIS	Report on voting
61H/363/FDIS	61H/365/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 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. It was established on the basis of the fifth edition (2010) 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: Safety requirements for electric fishing machines.

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.

NOTE 2 The following numbering system is used:

- 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 //stanfeducerents: in roman type //stanfeducerents: 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 associated noun are also in bold.

NOTE 4 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 12 months or later than 36 months from the date of publication.

IEC 60335-2-86:2018 © IEC 2018 - 5 -

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.

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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

<u>SIST EN 60335-2-86:2024</u> https://standards.iteh.ai/catalog/standards/sist/d6046478-aaaf-4f93-8cfb-72e62a2015e9/sist-en-60335-2-86-2024

- 6 -

IEC 60335-2-86:2018 © IEC 2018

INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

NOTE 1 Throughout this publication, when "Part 1" is mentioned, it refers to IEC 60335-1.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 2 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 3 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

https://standards.iteh.ai/catalog/standards/sist/d6046478-aaaf-4f93-8cfb-72e62a2015e9/sist-en-60335-2-86-2024