SLOVENSKI STANDARD
SIST EN ISO 16315:2026

01-september-2026

Mala plovila - Električni sistemi za električni pogon (ISO 16315:2026)

Small craft - Electrical systems used for electrical propulsion (ISO 16315:2026)

Kleine Wasserfahrzeuge - Elektrische Antriebssysteme (ISO 16315:2026)

Petits navires - Systèmes électriques utilisés pour la propulsion électrique (ISO 16315:2026)

Ta slovenski standard je istoveten z: **EN ISO 16315:2026**

ICS:

47.020.60	Električna oprema ladij in konstrukcij na morju	Electrical equipment of ships and of marine structures
47.080	Čolni	Small craft

SIST EN ISO 16315:2026 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 16315

July 2026

ICS 47.080

Supersedes EN ISO 16315:2016

English Version

Small craft - Electrical systems used for electrical propulsion (ISO 16315:2026)

Petits navires - Systèmes électriques utilisés pour la propulsion électrique (ISO 16315:2026)

Kleine Wasserfahrzeuge - Elektrische Antriebssysteme (ISO 16315:2026)

This European Standard was approved by CEN on 26 January 2026.

CEN 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 CEN 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 CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Ref. No. EN ISO 16315:2026 E

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European foreword

This document (EN ISO 16315:2026) has been prepared by Technical Committee ISO/TC 188 "Small craft" in collaboration with Technical Committee CEN/TC 464 “Small Craft” the secretariat of which is held by SIS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2027, and conflicting national standards shall be withdrawn at the latest by January 2027.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 16315:2016.

This document has been prepared under a standardization request addressed to CEN 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 Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users’ national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 16315:2026 has been approved by CEN as EN ISO 16315:2026 without any modification.

Annex ZA
(informative)

Relationship between this European Standard and the essential requirements of Directive 2013/53/EU aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/542/C (2015) 8736 final to provide one voluntary means of conforming to essential requirements of Directive 2013/53/EU.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 and application of the edition of the normatively referenced standards as given in Table ZA.2 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Directive 2013/53/EU

Essential Requirements of Directive 2013/53/EU	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
Annex 1A, Clause 5.3 para 1	4.3 (except 4.3.1), 4.13, 5 (except 5.1.1.2), 8, 9	Electrical systems to be designed and installed so as to ensure proper operation of the watercraft under normal conditions of use
Annex 1A, Clause 5.3 para 1	4.3 (except 4.3.1), 4.13, 6, 8.5	Electrical systems to be designed and installed so as to minimise risk of fire and electric shock
Annex 1A, Clause 5.3 para 2	4.4, 7	All electrical circuits, except engine starting circuits supplied from batteries, to remain safe when exposed to overload
Annex 1A, Clause 5.3 para 3	9, 10 (except 10.3.2)	Electric propulsion circuits to not interact with other circuits in such a way that either would fail to operate as intended
Annex 1A, Clause 5.3 para 4	4.1.3 a (except 4.1.2 and 4.1.5), 8.5, Annex B(a)	Ventilation being provided to prevent the accumulation of explosive gases which might be emitted from batteries
Annex 1A, Clause 5.3 para 4	8	Batteries being secured and protected from ingress of water
Annex IA, Clause 2.5 – Owner's	4.12, 5 (except 5.1.1.2),	Clause 4.12, Figure 1 gives

Essential Requirements of Directive 2013/53/EU	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
Manual	Annex A	enclosure hazard markings Clause 5 provides elements on system alerts and alarms to be included in the owner's manual Annex A provides elements necessary for safe use of the product drawing particular attention to set up, maintenance, regular operation, the prevention of risks and risk management

Table ZA.2 — Normative references from Clause 2 of this document and their corresponding European publications

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
ISO 8665-2	ISO 8665-2:2024	*Small craft — Power measurements and declarations —Part 2: Electric marine propulsion*	EN ISO 8665-2:2024
ISO 8846	ISO 8846:1990	*Small craft — Electrical devices — Protection against ignition of surrounding flammable gases*	EN ISO 8846:2026
ISO 13297	ISO 13297:2020 ISO 13297:2020/Amd 1:2022	*Small craft — Electrical systems — Alternating and direct current installations*	EN ISO 13297:2021 EN ISO 13297:2021/A1:2022 EN ISO 13297:2021/A11:2023
ISO 25197	ISO 25197:2020 ISO 25197:2020/Amd 1:2022	*Small craft — Electrical/electronic control systems for steering, shift and throttle*	EN ISO 25197:2020 EN ISO 25197:2020/A1:2022 EN ISO 25197:2020/A12:2026
IEC 60034-1	IEC 60034-1:2022	*Rotating electrical machines – Part 1: Rating and performance*	EN 60034-1:2010 EN 60034-1:2010/corrigendum Oct. 2010
IEC 60092-202	IEC 60092-202:2016	*Electrical installation in ships — Part 202:*	For applicable standard edition see Column 2

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
		System design — Protection	
IEC 60092-303	IEC 60092-303:2023	*Electrical installation in ships — Part 303: Equipment — Transformers for power and lighting*	For applicable standard edition see Column 2
IEC 60092-352	IEC 60092-352:2005	*Electrical installation in ships — Part 352: Choice and installation of electrical cables*	For applicable standard edition see Column 2
IEC 60092-507	IEC 60092-507:2014	*Electrical installations in ships — Part 507: Small vessels*	EN 60092-507:2015 EN 60092-507:2015/AC:2015
IEC 60146-1-1:2024	IEC 60146-1-1:2024	*Semiconductor converters — General requirements and line commutated converters — Part 1-1: Specification of basic requirements*	EN IEC 60146-1-1:2024
IEC 60445	IEC 60445:2021	*Basic and safety principles for man-machine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors*	EN IEC 60445:2021 EN IEC 60445:2021/A1:2026
IEC 60898-1	IEC 60898-1:2015+AMD1:2019 CSV Consolidated version	*Electrical accessories — Circuit-breakers for overcurrent protection for household and similar installations — Part 1: Circuit-breakers for a.c. operation*	EN 60898-1:2019 EN 60898-1:2019/A1:2024 EN 60898-1:2019/A11:2024
IEC 60947-1	IEC 60947-1:2020	*Low-voltage switchgear and controlgear — Part 1: General rules*	EN IEC 60947-1:2021 EN IEC 60947-1:2021/AC:2023-01 EN IEC 60947-1:2021/AC:2024-05

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
IEC 61558-2-4	IEC 61558-2-4:2021	*Safety of transformers, reactors, power supply units and combinations thereof — Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers for general applications*	EN IEC 61558-2-4:2025

The documents listed in the Column 1 of Table ZA.2, in whole or in part, are normatively referenced in this document, i.e. are indispensable for its application. The achievement of the presumption of conformity is subject to the application of the edition of Standards as listed in Column 4 or, if no European Standard Edition exists, the International Standard Edition given in Column 2 of Table ZA.2.

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

International Standard

ISO 16315

Small craft — Electrical systems used for electrical propulsion

Petits navires — Systèmes électriques utilisés pour la propulsion électrique

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