

Irish Standard I.S. EN ISO 13297:2014

Small craft - Electrical systems - Alternating current installations (ISO 13297:2014)

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### I.S. EN ISO 13297:2014

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## EUROPEAN STANDARD

# EN ISO 13297

# NORME EUROPÉENNE

## EUROPÄISCHE NORM

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ICS 47.080

Supersedes EN ISO 13297:2012

**English Version** 

# Small craft - Electrical systems - Alternating current installations (ISO 13297:2014)

Petits navires - Systèmes électriques - Installations à courant alternatif (ISO 13297:2014)

Kleine Wasserfahrzeuge - Elektrische Systeme -Wechselstromanlagen (ISO 13297:2014)

This European Standard was approved by CEN on 13 September 2014.

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### Foreword

This document (EN ISO 13297:2014) has been prepared by Technical Committee ISO/TC 188 "Small craft".

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of an identical text or by endorsement, at the latest by June 2015, and conflicting national standards shall be withdrawn at the latest by June 2015.

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

This document supersedes EN ISO 13297:2012.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

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### **Endorsement notice**

The text of ISO 13297:2014 has been approved by CEN as EN ISO 13297:2014 without any modification.

# Annex ZA (informative)

### Relationship between this European Standard and the Essential Requirements of EU Directive 94/25/EC as amended by Directive 2003/44/EC

This European standard has been prepared under a mandate given to CEN by the European Commission to provide one means of conforming to Essential Requirements of the New Approach Directive 94/25/EC as amended by Directive 2003/44/EC.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one member state, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the relevant Essential Requirements of that Directive and associated EFTA regulations.

Table ZA.1 - Correspondence between this European Standard and Directive 94/25/EC as amended by				
Directive 2003/44/EC				

Clauses/sub-clauses Of this European Standard	Corresponding annexes/ Paragraphs of Directive 94/25/EC as amended 2003/44/EC	Comments
All clauses	Annex IA, Clause 5.3 Electrical systems	The scope of this standard is limited to the design, construction and installation of low-voltage alternating current electrical systems which operate at nominal voltages of less than 250 V single phase
Clause 11.12	Annex IA, Clause 5.6.1 Fire protection	In respect of avoiding wiring above hot areas of machines
Annex B	Annex IA, Clause 2.5 Owner's manual	

**WARNING:** Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

# INTERNATIONAL STANDARD

ISO 13297

Fourth edition 2014-12-01

# Small craft — Electrical systems — Alternating current installations

Petits navires — Systèmes électriques — Installations à courant alternatif



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ISO 13297:2014(E)

### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="https://www.iso.org/directives">www.iso.org/directives</a>).

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The committee responsible for this document is ISO/TC 188, Small craft.

This fourth edition cancels and replaces the third edition (ISO 13297:2012), of which it constitutes a minor revision. The main changes are:

- deletion of Annex E;
- replacement of <u>Annex D</u>;
- correction of references in <u>14.1</u> indent e) by replacing 4.8 with <u>4.7</u> and in <u>14.3</u> by replacing 4.6 with <u>4.7</u>;
- update of reference to ISO 10133.

# Small craft — Electrical systems — Alternating current installations

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### 1 Scope

This International Standard specifies the requirements for the design, construction and installation of low-voltage alternating current electrical systems which operate at nominal voltages of less than 250 V single phase on small craft of hull length up to 24 m.

Additional information to be included in the owner's manual is listed in <u>Annex B</u>.

### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7010, Graphical symbols — Safety colours and safety signs — Registered safety signs

ISO 8846, Small craft — Electrical devices — Protection against ignition of surrounding flammable gases

ISO 10133, Small craft — Electrical systems — Extra-low-voltage d.c. installations

ISO 10240, Small craft — Owner's manual

IEC 60079-0, Explosive atmospheres — Part 0: General requirements

IEC 60309-2, Plugs, socket-outlets and couplers for industrial purposes — Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories

IEC 60446, Basic and safety principles for man-machine interface marking and identification — Identification of conductors by colours or numerals

IEC 60529:1989, Degrees of protection provided by enclosures (IP code)

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

#### 3.1 craft's earth protective ground

connection, provided for safety purposes, that is established by a conducting connection with the common ground/earth (potential of the earth's surface)



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