INTERNATIONAL STANDARD

Fourth edition 2014-12-01

Small craft — Electrical systems — Alternating current installations Petits navires — Systèmes électriques — Installations à courant

Petits navires — Systèmes électriques — Installations à courant



Reference number ISO 13297:2014(E)



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Published in Switzerland

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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 <u>www.iso.org/directives</u>).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see <u>www.iso.org/patents</u>).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

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 14.1 indent e) by replacing 4.8 with 4.7 and in 14.3 by replacing 4.6 with 4.7;
- 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)