



# SLOVENSKI STANDARD SIST EN 60092-507:2015

01-junij-2015

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SIST EN 60092-507:2001

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**Električne inštalacije na ladjah - 507. del: Mala plovila**

Electrical installations in ships -- Part 507 - Small vessels

**iTeh STANDARD PREVIEW**  
Installations électriques à bord des navires -- Partie 507: Petits navires  
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**Ta slovenski standard je istoveten z: EN 60092-507:2015**

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

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EUROPEAN STANDARD

**EN 60092-507**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2015

ICS 47.020.60

Supersedes EN 60092-507:2000

English Version

**Electrical installations in ships - Part 507 - Small vessels  
(IEC 60092-507:2014)**

Installations électriques à bord des navires - Partie 507:  
Petits navires  
(IEC 60092-507:2014)

Elektrische Anlagen auf Schiffen - Teil 507: Kleine  
Wasserfahrzeuge  
(IEC 60092-507:2014)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

The text of document 18/1426/FDIS, future edition 3 of IEC 60092-507, prepared by IEC/TC 18 "Electrical installations of ships and of mobile and fixed offshore units" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60092-507:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-09-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-12-30

This document supersedes EN 60092-507:2000.

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The text of the International Standard IEC 60092-507:2014 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

ISO 10133	NOTE	Harmonised as	EN ISO 10133 (not modified).
ISO 10240	NOTE	Harmonised as	EN ISO 10240 (not modified).
ISO 13297	NOTE	Harmonised as	EN ISO 13297 (not modified).

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

Publication	Year	Title	EN/HD	Year
IEC 60034	series	Rotating electrical machines	EN 60034	series
IEC 60079	series	Explosive atmospheres	EN 60079	series
IEC 60092-101	1994	Electrical installations in ships - Part 101: Definitions and general requirements	-	-
IEC 60092-202	1994	Electrical installations in ships - Part 202: System design - Protection	-	-
IEC 60092-301	1980	Electrical installations in ships - Part 301: Equipment - Generators and motors	-	-
IEC 60092-302	-	Electrical installations in ships - Part 302: Low-voltage switchgear and controlgear assemblies	-	-
IEC 60092-303	-	Electrical installations in ships - Part 303: Equipment - Transformers for power and lighting	-	-
IEC 60092-304	-	Electrical installations in ships. Part 304: Equipment - Semiconductor convertors	-	-
IEC 60092-306	-	Electrical installations in ships - Part 306: Equipment - Luminaires and accessories	-	-
IEC 60092-307	-	Electrical installations in ships - Part 307: Equipment - Heating and cooking appliances	-	-
IEC 60092-350	-	Electrical installations in ships - Part 350: Shipboard power cables - General construction and test requirements	-	-
IEC 60092-352	-	Electrical installations in ships - Part 352: Choice and installation of electrical cables	-	-
IEC 60092-401	1980	Electrical installations in ships.- Part 401: Installation and test of completed installation	-	-
IEC 60092-501	2013	Electrical installations in ships - Part 501: Special features - Electric propulsion plant	-	-
IEC 60146	series	General requirements and line commutated convertors	EN 60146	series
IEC 60245-4	-	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables	-	-

IEC 60309-1	-	Plugs, socket-outlets and couplers for industrial purposes - Part 1: General requirements	EN 60309-1	-
IEC 60309-2	-	Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories	EN 60309-2	-
IEC 60332-1	series	Tests on electric cables under fire conditions; Part 1: test on a single vertical insulated wire or cable	EN 60332-1	series
IEC 60332-3-22	-	Tests on electric and optical fibre cables under fire conditions - Part 3-22: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A	-	-
IEC 60364-7-709	-	Low-voltage electrical installations - Part 7-709: Requirements for special installations or locations - Marinas and similar locations	HD 60364-7-709	-
IEC 60445	2010	Basic and safety principles for man-machine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors	EN 60445	2010
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	EN 60529	-
IEC 60533	-	Electrical and electronic installations in ships - Electromagnetic compatibility	-	-
IEC 60898-1	-	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 1: Circuit-breakers for a.c. operation	EN 60898-1	-
IEC 60945	-	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results	EN 60945	-
IEC 60947-2	-	Low voltage switchgear and controlgear - Part 2: Circuit-breakers	EN 60947-2	-
IEC 60947-7-1	-	Low-voltage switchgear and controlgear - Part 7-1: Ancillary equipment - Terminal blocks for copper conductors	EN 60947-7-1	-
IEC 61140	-	Protection against electric shock - Common aspects for installation and equipment	EN 61140	-
IEC 61558	series	Safety of power transformers, power supplies, reactors and similar products	EN 61558	series
IEC 61558-2-4	2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers	EN 61558-2-4	2009
ISO 8846	-	Small craft - Electrical devices - Protection against ignition of surrounding flammable gases	EN 28846:1993/A1	-
ISO 9094-1	-	Small craft - Fire protection - Part 1: Craft with a hull length of up to and including 15 m	EN ISO 9094-1	-
ISO 9094-2	-	Small craft - Fire protection - Part 2: Craft with a hull length of over 15 m	EN ISO 9094-2	-

ISO 10239	-	Small craft - Liquefied petroleum gas (LPG) systems	EN ISO 10239	-
IMO 904E	-	Convention on the International Regulations for Preventing Collisions at Sea, International Maritime Organization (COLREG)	-	-
SOLAS	1974	International Convention for the Safety of Life at Sea	-	-

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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

Electrical installations in ships –  
Part 507: Small vessels

STANDARD PREVIEW  
(standards.iteh.ai)

Installations électriques à bord des navires –  
Partie 507: Petits navires

SIST EN 60092-507:2015  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL INSTALLATIONS IN SHIPS –****Part 507: Small vessels**

## 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.
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International Standard IEC 60092-507 has been prepared by IEC technical committee 18: Electrical installations of ships and of mobile and fixed offshore units.

This third edition cancels and replaces the second edition published in 2008 and constitutes a technical revision.

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

- a) The standard now clarifies its application for electrical installations in those recreational craft which require to conform to the Recreational Craft Directive.
- b) The standard specifies requirements for methods of galvanic isolation for small vessels and recreational craft connecting to a low voltage AC shore supply.
- c) The standard includes design guidance for electric propulsion systems suitable for small vessels and associated installation requirements.