

# INTERNATIONAL STANDARD

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**Electrical installations in ships -  
Part 302-2: Low voltage switchgear and controlgear assemblies - Marine power**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**Electrical installations in ships -  
Part 302-2: Low voltage switchgear and controlgear assemblies -  
Marine power**

**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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This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 60092-302-2:2019. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

IEC 60092-302-2 has been prepared by IEC technical committee 18: Electrical installations of ships and of mobile and fixed offshore units. It is an International Standard.

This second edition cancels and replaces the first edition published in 2019. This edition constitutes a technical revision.

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

- a) amended and updated in line with, and correctly referenced to the updated clauses of IEC 61439-1:2020 and IEC 61439-2:2020;
- b) explanation of the need to special consideration for marine applications added;
- c) Figure 201 updated;
- d) adjustment has been made to the "safety factors" for creepage and clearance distances.

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

Draft	Report on voting
18/1994/FDIS	18/2007/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

This International Standard is to be used in conjunction with IEC 61439-1:2020 and IEC 61439-2:2020.

This document supplements or modifies the corresponding clauses in IEC 61439-1:2020 and IEC 61439-2:2020. Where this document states "addition", "deletion", "replacement" or "amendment", the relevant text of IEC 61439-1:2020 and IEC 61439-2:2020 is adapted accordingly. When no modification of the text of IEC 61439-1:2020 is in IEC 61439-2:2020, the modification in this document is referred directly to the IEC 61439-1:2020.

Clauses and subclauses which are additional to those of IEC 61439-1:2020 and IEC 61439-2:2020 are numbered starting from 201. Additional annexes are numbered starting from AAA.

In this document, terms written in small capitals are defined in Clause 3.

Where the abbreviated term PSC-assembly is used in applicable clauses of IEC 61439-2:2020, this refers to MPSC-assembly.

A list of all parts in the IEC 60092 series, published under the general title *Electrical installations in ships*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](https://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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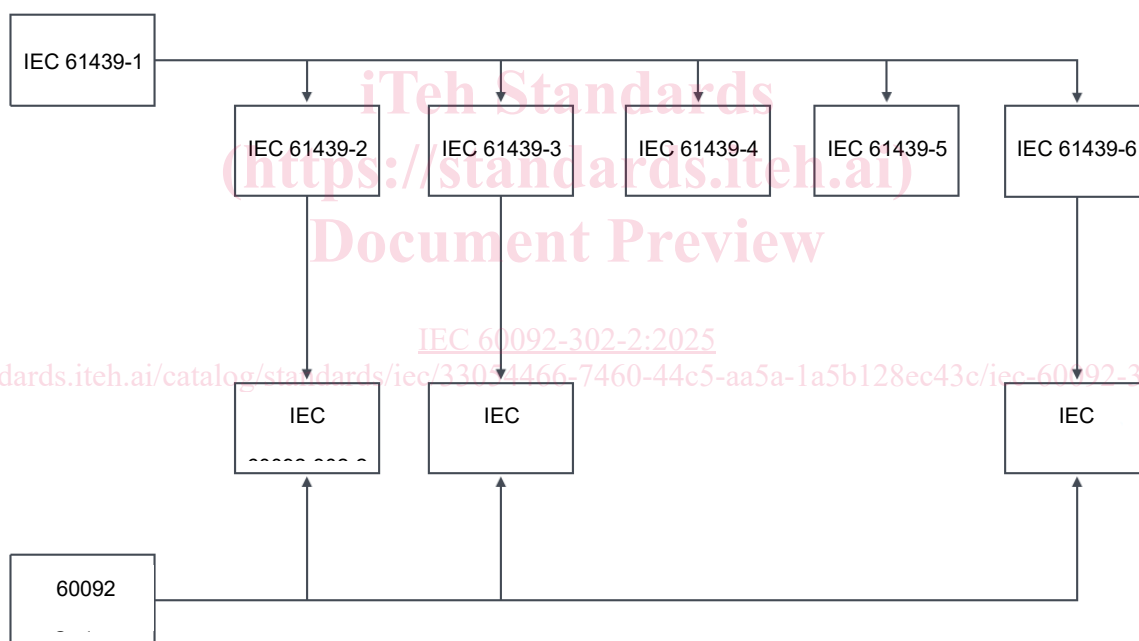
## INTRODUCTION

This part of IEC 60092 forms a series of International Standards for electrical installations in sea-going ships, incorporating good practice and coordinating, as far as possible, existing rules.

These standards form a code of practical interpretation and amplification of the requirements of the International Convention for the Safety of Life at Sea, a guide for future regulations which ~~may~~ can be prepared and a statement of practice for use by ship owners, shipbuilders and appropriate organizations.

The IEC 61439 series ~~identifies~~ specifies the requirements for land based low voltage switchgear and controlgear assemblies. The IEC 60092-302 series has been developed in line with Figure 201, which ~~shows the future intention to develop appropriate marine standards for final distribution boards to be operated by ordinary persons; and busbar trunking systems~~ illustrates opportunities to develop relevant marine standards.

The IEC 60092 series remains the principal series of standards for electrical installations in ships, and the applicable standards are applied accordingly. Wherever there are differences between the IEC 61439 series and the IEC 60092 series, the IEC 60092 series takes precedence.



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### Key

<sup>a</sup>—Under consideration.

NOTE—At the time of publication, IEC 60092-302-3 and IEC 60092-302-6 are not developed. The figure shows that these standards are potential future projects to align with the IEC 61439 series.