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Elinstallationer i fartyg – Del 302: Utrustning – Kopplingsutrustningar för lågspänning

*Electrical installations in ships –
Part 302: Low-voltage switchgear and controlgear assemblies*

Denna svenska standard innehåller den engelska texten i nedan angiven IEC-publikation, utarbetad inom International Electrotechnical Commission, IEC:

- **IEC 60092-302, Fourth edition, 1997 - Electrical installations in ships - Part 302: Low-voltage switchgear and controlgear assemblies**

Nationellt förord

Tidigare fastställd svensk standard SS-IEC 92, utgåva 4, 1995, gäller ej fr o m 2017-11-23.

Standarder underlättar utvecklingen och höjer elsäkerheten

Det finns många fördelar med att ha gemensamma tekniska regler för bl a mätning, säkerhet och provning och för utförande, skötsel och dokumentation av elprodukter och elanläggningar.

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Du som vill dra nytta av dessa möjligheter är välkommen att kontakta SEKs kansli för mer information.

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INTERNATIONAL ELECTROECHANICAL COMMISSION

ELECTRICAL INSTALLATIONS IN SHIPS –**Part 302: Low-voltage switchgear and controlgear assemblies**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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

This fourth edition cancels and replaces the third edition published in 1980, amendment 1 (1989) and amendment 2 (1994).

This International Standard shall be read in conjunction with IEC 60439-1.

The clause numbers of this part of IEC 60092 correspond to those of IEC 60439-1. When this standard specifies “addition” or “replacement”, the corresponding text of IEC 60439-1 shall be adapted in consequence. The absence of text in this part of IEC 60092 indicates that the appropriate clauses of IEC 60439-1 apply.

Subclauses, figures and tables which are additional to those of IEC 60439-1 are numbered starting from 101. Additional annexes are lettered AA, BB, etc.

The text of this standard is based on the following documents:

FDIS	Report on voting
18/798/FDIS	18/817/RVD

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

Annex AA is for information only.

INTRODUCTION

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 be prepared and a statement of practice for use by shipowners, shipbuilders and appropriate organizations.

ELECTRICAL INSTALLATIONS IN SHIPS –

Part 302: Low-voltage switchgear and controlgear assemblies

1 General

1.1 Scope

Replacement

This part of IEC 60092 is applicable to low-voltage switchgear and controlgear assemblies [type-tested assemblies (TTA), partially type-tested assemblies (PTTA) and non type-tested assemblies (NTTA)], with rated voltages not exceeding 1 000 V a.c. at rated frequencies not exceeding 60 Hz or 1 500 V d.c. for use in ships as a supplement to IEC 60439-1.

NOTE – Throughout this standard, the word ASSEMBLY is used for a low-voltage switchgear and controlgear assembly.

This standard also applies to ASSEMBLIES incorporating control and/or power equipment, which operate at higher frequencies. In this case, appropriate additional requirements apply.

Unless otherwise specified in the following clauses, all ASSEMBLIES and their components comply with IEC 60439-1. In case of doubt, IEC 60092 publications shall have preference over IEC 60439-1.

1.2 Normative references

Addition

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 60092-504: 1994, *Electrical installations in ships – Part 504: Special features – Control and instrumentation*

IEC 60185: 1987, *Current transformers*

IEC 60363: 1972, *Short-circuit current evaluation with special regard to rated short-circuit capacity of circuit-breakers in installations in ships*

IEC 60865-1: 1993, *Short-circuit currents – Calculation of effects – Part 1: Definitions and calculation methods*