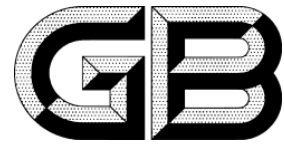


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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 7357-2025

Replacing GB/T 7357-2010

**Electrical installations in ships - System design - Protection
(English Translation)**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

This document replaces GB/T 7357-2010 "System design protection for marine electrical equipment". Compared with GB/T 7357-2010, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

Added the definitions of "basic protection" and "power load analysis" (see 3.11 and 3.12); a) Added provisions for power system analysis and calculation (see 4.3); b) Added provisions for power load analysis (see Chapter 5); c) the provisions on short-circuit current have been changed and the provisions on short-circuit current calculation have been added (see Chapter 6, Chapter 5 of the 2010 edition); d) Added provisions for selective protection analysis (see Chapter 7); e) Deleted the relevant provisions on protection of lighting circuits and shore power connections (see 8.7 and 8.8 of the 2010 edition); f) Added provisions for under-frequency and over-frequency protection (see Chapter 14). g) this document is equivalent to IEC 60092-202:2016 "Marine electrical equipment Part 202: System design protection".

The following minimal editorial changes were made to this document.

The name of the standard is changed to "System Design Protection of Marine Electrical Equipment". -

1 Scope

This document applies to the main characteristic requirements of electrical protection systems for ship electrical equipment.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies.

in this document.

GB/T 14048.2-2020 Low-voltage switchgear and controlgear Part 2: Circuit breakers (IEC 60947-2:2019, MOD) Note. There is no technical difference between the contents cited in GB/T 14048.2-2020 and those cited in IEC 60947-2:2019.

IEC 60909 (all parts) Short-circuit current calculation in three-phase AC systems (three-phase ac systems) Note. GB/T 15544 (all parts) Calculation of short-circuit current in three-phase AC systems [IEC 60909 (all parts)] IEC 60909-0 Short-circuit current calculation for three-phase AC systems Part 0: Current calculation in three-phase ac systems-Part 0: Calculation of currents) Note. GB/T 15544.1-2023 Short-circuit current calculation for three-phase AC systems Part 1: Current calculation (IEC 60909-0:2016, MOD) IEC TR 60909-1 Short-circuit current calculations for three-phase AC systems Part 1: Coefficients for application in short-circuit current calculations (IEC TR 60909-1:2002, IDT) GB/T 15544.2-2017 Calculation of short-circuit current in three-phase AC systems Part 2: Coefficients for application of short-circuit current calculations (IEC TR 60909-1:2002, IDT) IEC 61140 Protection against electric shock - Common parts for devices and equipment (IEC 61140:2016, IDT) IEC 61363-1 Electrical installations on ships and mobile and fixed offshore installations Part 1: Calculation method for three-phase AC short-circuit current (IEC 61363-1:1998, IDT) IEC 61660-1 Short-circuit current in DC auxiliary facilities of power plants and substations Part 1: Calculation of short-circuit current (IEC 61660-1:2016, IDT) IEC 62271-100 High-voltage switchgear and controlgear Part 100: AC circuit breakers and

controlgear-Part 100: Alternating-current circuit-breakers)

3 Terms and definitions

The following terms and definitions apply to this document.