

ICS 47.020.60
CCS U 60



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

GB/T 21065-2007

**Electrical installation in ships -- Installation and test of
completed installation**

船舶电气装置 安装和完工试验

(English Translation)

Issued on: August 6, 2007

Implemented on: March 1, 2008

Issued by: Standardization Administration of China

Table of Contents

Introduction
1 Scope
Section 1 Definitions
2 Definitions
Section 2 Ground
3 Requires grounding member
4 Ground
5 Ground connector
6 Ground Distribution System
7 Hull structure connecting
8 Aluminum superstructure
9 Hull loop line system
Section 3 switchgear and control assemblies -
10 Insulating spacers
11 Switchgear and control assemblies - in front of the channel
12 On the back and stay out of the space channel
13 Relative to the mounting position of the pipe and fluid cabinet
Mounting position area 14 switchboard and distribution boards
Section 4 transformer
15 Installation and location
Section 5 of the semiconductor converter
16 Installation and location
Section 6 of the storage battery
17 Location
Channel 5 out of
19 Battery compartment of electrical equipment
20 Anti-corrosion measures
21 Fixed and supported
22 Ventilation
Section 7 lighting
23 Protection class
24 Voltage is higher than 250V discharge lamps

25 Searchlights and arc lamp
26 Emergency lighting
Section 8 heaters and electric cookers
27 Flammable protection
28 Controls and switchgear position
Install the heater 7

Foreword

This standard is identical with IEC 60092-401. 1980 "Electrical installations in ships - Part 401. Installation and test of completed" and 1987, 1997 amendment (in English).

This standard is equivalent translation IEC 60092-401. 1980 and 1987, 1997 amendment (in English).

For ease of use, this standard made the following editorial changes.

- a) "this International Standard" be replaced by "this standard";
- b) Remove IEC 60092-401. 1980 Foreword and Introduction;
- c) IEC 92 Number of publications to IEC 60092;
- d) increasing the number and title of Table 2;
- e) Remove the 38.3 "Performance provisions relating to such materials are still being studied." the standard proposed by China State Shipbuilding Corporation.

The standard by the China Shipbuilding Technology and Economy Research Institute.

This standard was drafted. Technical and Economic Research Institute of China Shipbuilding Industry.

Drafters of this standard. Li Dayi, Yan Ping, Gong Zhixiang.

GB/T 21065-2007/IEC 60092-401:1997 Marine Electrical equipment installation and test of completed

1 Scope

This standard applies to the installation and test of completed marine electrical equipment.

The first one is defined

2 Definitions

Or with the ground wire connected to each other for grounding wires, cables or other conductors. For example, it may be a metallic cable conduits or in whole or in part, or a dedicated continuous grounding conductor metal sheath containing such a cable or conductor flexible cable.

Connected to the metal hull of the conductor.

Section 2 Ground

3 Requires grounding member

3.1

Example exceptions unless special provisions, electrical equipment all accessible metal parts other current-carrying parts shall be accessible outside Grounded.

exception.

--- Cap;

--- Lampshades, mirrors and guard installed on a non-conductive material or covered with sockets or lamps;

--- Non-conductive material mounted on or screwed into or through non-conductive material of the metal member, by means of which the non-conductive member Material and non-current-carrying parts and the grounding of the carrier member spaced;

--- Having double insulation and (or) reinforced insulation (see IEC 60092-101 "Electrical installation in ships - Part 101. Definitions and general to Seeking ") portable equipment, provided that such equipment should meet the recognized safety regulations;

--- Circulation and to prevent the bearing to bearing insulation;

--- Fluorescent tubes fastening clip;

--- Safe voltage power supply devices (see IEC 60092-101 2.19);

--- Cable clamp.

Note: For difficult to access, but may become live under fault conditions, and thus constitute a fire hazard non-current-carrying parts, such as a metal mounted on wood Junction boxes, etc. should be considered grounded.

3.2

To reduce the high-frequency induction voltage electric shock caused by a radio transmitter caused to a minimum, a metal bridge or on deck Handrails and railings, etc. should be the hull or superstructure has a good electrical connection.

Note: Refer to GB/T 10250 "Electromagnetic Compatibility ship electrical and electronic equipment."

3.3

Instrument transformers secondary winding should be grounded.

4 Grounding method

Where a non-current-carrying metal parts are not accessible to 3.1 are listed as follows shall be grounded.

GB/T 21065-2007/IEC 60092-401:1997