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AMENDMENT 1
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**Small craft — Electrical/electronic
control systems for steering, shift and
throttle**

AMENDMENT 1

*Petits navires — Systèmes électriques/électroniques pour le contrôle
de la direction, de l'inverseur et des gaz*

AMENDEMENT 1

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This document was prepared by Technical Committee ISO/TC 188, *Small craft*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 464, *Small Craft*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Small craft — Electrical/electronic control systems for steering, shift and throttle

AMENDMENT 1

Clause 2

Remove the following normative references:

ISO 8848:1990, *Small craft — Remote steering systems*

ISO 10133:2012, *Small craft — Electrical systems — Extra-low-voltage d.c. installations*

ISO 10240:2004/Amd1:2015, *Small craft — Owner's manual*

ISO 10592:1994, *Small craft — Hydraulic steering systems*

ISO 11591:2019, *Small craft — Field of vision from the steering position*

ISO 13297:2014, *Small craft — Electrical systems — Alternating current installations*

IEC 60092-507:2014, *Electrical installations in ships — Part 507: Small vessels*

IEC 61000-4-3:2006+Amd1:2007+Amd2:2010, *Electromagnetic compatibility (EMC) — Part 4: Testing and measurement techniques — Section 3: Radiated, radio frequency, electromagnetic field immunity test*

IEC 61000-4-11:2004+Amd1:2017, *Electromagnetic compatibility (EMC) — Part 4: Testing and measurement techniques — Section 11: Voltage dips, short interruptions and voltage variations immunity tests*

Add the following normative references:

ISO 8848:2022, *Small craft — Remote mechanical steering systems*

ISO 10592:2022, *Small craft — Remote hydraulic steering systems*

ISO 13297:2020, *Small craft — Electrical systems — Alternating and direct current installations*

ISO 13297:2020/Amd 1:2022, *Small craft — Electrical systems — Alternating and direct current installations — Amendment 1*

IEC 61000-4-3:2020, *Electromagnetic compatibility (EMC) — Part 4-3: Testing and measurement techniques — Radiated, radio-frequency, electromagnetic field immunity test*

IEC 61000-4-11:2020, *Electromagnetic compatibility (EMC) — Part 4-11: Testing and measurement techniques — Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase*

Clause 3

Insert the following terminological entry:

3.35

main steering position

steering position as defined by the manufacturer

4.3

Replace the text with the following:

AC and DC systems shall conform to ISO 13297:2020 and ISO 13297:2020/Amd 1:2022.

4.7

Replace the text with the following:

Each helm station shall provide a visual indication when the control system is active.

4.14

Replace ISO 8848:1990 with ISO 8848:2022.

4.15

Replace ISO 10592:1994 with ISO 10592:2022.

8.2

Replace the text with the following:

DPS systems shall have a display at the craft main steering position for the visual DPS precision value.

The main steering position shall be designated by the manufacturer and the location included in the craft owner's manual.

NOTE Requirements for the main steering position are provided in ISO 11591.

10.10.5.1

Replace IEC 61000-4-3:2006+Amd1:2007+Amd2:2010 with IEC 61000-4-3:2020.

10.10.9.1

Replace IEC 61000-4-11:2004+Amd1:2017 with IEC 61000-4-11:2020.