



Certificate No. 03-001918/031593

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

VESSEL PROPULSION CONTROL SYSTEM MPC300

MANUFACTURER:

CATERPILLAR Inc.
3701 South Street
Lafayette, Indiana 47905-4856
UNITED STATES OF AMERICA

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

**Croatian Register of Shipping: Rules for the classification of ships,
Part 9. – Machinery, Part 13. – Automation**

IACS UR E10

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2026-11-04**

Place and date: Split, 2022-11-04 Seal

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

Vessel Propulsion Control System MPC300 provides speed control of Caterpillar marine engines used for pleasure crafts and commercial applications for both, single engine and dual engine configurations. It also provides transmission control and is compatible with different transmission manufacturers.

The Vessel Propulsion Control System consists out of following components:

Component Reference	Description
MCP300	Advanced Control Processor
MCL100	Standard Lever
MML100	Advanced Lever
MCD100	Control Display
MAA100	Palm Beach Lever

Voltage rating: 12 or 24 VDC

APPLICATION / LIMITATIONS:

*Documentation approval is required for each installation onboard the vessel.
Correct configuration and set up for each delivery to be tested under the supervision of a Society Surveyor.
Approval is also valid for ships to be granted with class notations: AUT 1, AUT 2 and AUT 3.*

TYPE APPROVAL DOCUMENTATION:

1. MPC300 Vessel Propulsion Control System
2. MPC Functional Description
3. System Block Diagram
4. MCP300 Advanced Control Processor
5. MCL100 Standard Lever
6. MML100 Advanced Lever
7. MCD100 Control Display
8. MAA100 Palm Beach Lever
9. Electrical Schematic
10. Application and Installation Guide
11. Operators Guide
12. Functional Failure Analysis
13. Failure Mode and Effect Analysis
14. MPC Test Plan Reference
15. MPC 300 Functional Test Plan
16. MPC 300 EMC and Environmental Type Approval Test – Test Plan
17. EC-29 Test Specification
18. Sturdy Corporation ISO 9001:2015 certificate
19. MPC 300 Functional Test Report
20. MPC 300 EMC and Environmental Type Approval Test - Test Report
21. MCL100 Integrated Lever and MCD100 Control Display Alternate Power Module Whitepaper

MARKING OF PRODUCT:

In accordance with IEC60945 – Marking and identification (The Manufacturer and Type Designation of the product, serial number, date of manufacture, safe distance to magnetic compass-if app., supply voltage, software version...).

CONDITIONS FOR CERTIFICATION:

All changes in components and software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to CRS for evaluation and approval. Major changes in the software are to be approved before being installed in the computer.