

**POTVRDA O TIPNOM ODOBRENJU**
TYPE APPROVAL CERTIFICATEBr / No **03-001425/031106**

Potvrđuje se da je ovaj proizvod, u skladu s Pravilima za klasifikaciju brodova, Dio 1. - Opći propisi, Odjeljak 3. - Tipno odobrenje proizvoda, odobren za ugradnju na brodove i postrojenja pod nadzorom Hrvatskog registra brodova.

This is to certify that this product, on the basis of the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products, is approved for use on board ships and installations under supervision of the Croatian Register of Shipping.

TIP I OPIS PROIZVODA:

TYPE AND DESCRIPTION OF PRODUCT:

PROGRAMABILNI ELEKTRONIČKI SUSTAV
PROGRAMMABLE ELECTRONIC SYSTEM
SIMATIC S7-1500 / ET 200MP**PROIZVOĐAČ:**

MANUFACTURER:

Siemens AG**I IA AS MF**

Werner-von-Siemens-Str. 50

92224 AMBERG

Germany

PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

Hrvatski registar brodova: **Pravila za klasifikaciju brodova,**
Dio 12. – Električna oprema, Dio 13. – Automatizacija

Croatian Register of Shipping: *Rules for the classification of ships,*
Part 12. – Electrical Equipment, Part 13. – Automation

IEC 60945 (2002), IACS UR E10**DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEĐINI.**

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

ODOBRENJE VRIJEDI DO:

APPROVAL IS VALID UNTIL:

2018-09-04

Mjesto i datum

Place and date

Split, 2014-09-04

M.P.

(Seal)

Marinko Popović, dipl.ing.

Napomena: Ova potvrda nije valjana ako se proizvod ili način njegove proizvodnje promijenio u odnosu na tipno ispitani proizvod. Proizvođač treba obavijestiti Hrvatski registar brodova o bilo kojoj izmjeni na proizvodu kako bi ishodio valjanu potvrdu.

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.

PODROBNIJI OPIS PROIZVODA:*DETAIL PRODUCT DESCRIPTION:*

Ovakav sustav, koristeći navedene module te programsku podršku, nadzire i upravlja sustavom automatizacije broda.
This system, by use of bellow mentioned modules with application software suport, monitors and controls ship's automation.

**Power supply modules – PS 25W/ PS 60W,
 Load Power Supply Modules – PM 70W/ PM 190W,
 Memory Cards – 4MB or higher,
 Controllers – CPU 1511/ CPU 1513/ CPU 1515/ CPU 1516,
 Signal Modules – SM 521/ SM 522/ SM 531/ SM 532,
 Communication Modules – CM PtP/RS232/RS422/RS485,
 Communication Module/Processors – CM/CP 1542 Profibus/ CP 1543 Profinet,
 Interface Modules – IM 155 PN/DP
 Technology Modules – TM Count/ TM PosInput**

TEHNIČKA DOKUMENTACIJA / NACRTI:*TECHNICAL DOCUMENTATION / DRAWINGS:*

**Siemens SIMATIC S7-1500 System Manual, Edition 02/2014,
 Siemens SIMATIC ET 200MP IM 155-5 DP ST interface module Manual A5E32346748-AA, 08/2013,
 Siemens SIMATIC ET 200MP IM 155-5 PN ST interface module Manual A5E03612323-02, 08/2013.**

PODRUČJE PRIMJENE / POSEBNI I GRANIČNI UVJETI:*APPLICATIONS / LIMITATIONS:*

Za slučaj instalacije na komandnom mostu i prostor glavne palube, potrebno je ugraditi dodatne filtere u sustavu napajanja prema specifikaciji proizvođača – filter EPCOS B814113C ili slično.

Moduli PM 70W, PM 190W, TM Count i TM PosInput ne smiju se ugraditi na mostu i prostoru glavne palube.

Linije napajanja sustava 24 V moraju biti zaštićene sa DEHN Blitzductorom br. narudžbe 918 402.

In case of installations on Bridge and Deck Zone, additional filter for power supply circuit is to be added according to makers specification filter EPCOS B814113C or equivalent..

Modules PM 70W, PM 190W, TM Count and TM posInput are not supposed to be installed on Bridge and Deck Zone.

24 V power lines are to be protected by DEHN Blitzductor Order No. 918 402.

DOKUMENTACIJA ZA TIPNO ODOBRENJE:*TYPE APPROVAL DOCUMENTATION:*

**Siemens Test-Certificate S7-1500 Version 07/2013, dated 2013-07-08,
 Siemens Specification for Type Tests and Test Report of Marine Electrical Equipment I IA AS RD ST Type Test – 2013-03,
 CRS witness test, Amberg – June 2014.**

OZNAČAVANJE PROIZVODA:*MARKING OF PRODUCT:*

Ime proizvođača, tip proizvoda, serijski broj-identifikacija i sigurna udaljenost od magnetskog kompasa.

The Manufacturer and Type Designation of the product, serial number and safe distance to magnetic compass.

UVJETI ZA CERTIFIKACIJU:*CONDITIONS OF CERTIFICATION:*

Na brodovima HRB klase potrebno je dostaviti tehničku dokumentaciju stvarne izvedbe na odobrenje za svaku pojedinačnu primjenu.

On the CRS classed vessels, documentation for the actual application is to be submitted for approval in each case of application.

Raščlana

13.13.02

Zamjenjuje potvrdu

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