

**POTVRDA O TIPNOM ODOBRENJU**  
**TYPE APPROVAL CERTIFICATE**Br / No **03-001423/031106**

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 S7-400 / M7-400****PROIZVOĐAČ:**  
MANUFACTURER:**Siemens AG**  
**I IA SC MF-K**  
Oestliche Rheinbrueckenstr.50  
**76187 Karlsruhe**  
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 ..... Split, 2014-09-04 .....

Place and date

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.

**PODROBNJI 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 405, PS 407**

**Interface modules – IM 178, IM 460, IM 461, IM 463, IM 467**

**Central Processor Unit – CPU 412, CPU 413, CPU 414, CPU 416, CPU 417, CPU 486, CPU 488**

**Digital input/output – SM 421, SM 422**

**Analogue input/output – SM 431, SM 432**

**Function modules – FM 450, FM 451, FM 452, FM 453, FM 455, FM 456, FM 458**

**Communication processor – CP 140, CP 440, CP 441, CP 443, CP 444**

**Memory card – MC 952**

**Interface sub-module – IF 961, IF 962, IF 964**

**Mounting rack – 400/401/403**

**Fan sub-assembly - 408**

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

**Catalogue ST70.2013,**

**Katalog CA 01 10/2013.**

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

**Sustav je odobren za primjenu na brodovima s dodjeljenom oznakom automatizacije – AUT1, AUT2 i AUT3.**

**Za slučaj instalacije na komandnom mostu i prostor glavne palube, potrebno je ugraditi dodatne filtere u sustavu napajanja prema specifikaciji proizvođača.**

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

*System is approved for use on board a vessels granted with automation notations – AUT1, AUT2 and AUT3.*

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

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

**DOKUMENTACIJA ZA TIPNO ODOBRENJE:***TYPE APPROVAL DOCUMENTATION:*

**Siemens Specification for Type Tests and Test Report of Marine Electrical Equipment AUT7-B8.4P-9604 dated 11.12.1996,**

**Siemens Specification for Type Tests and Test Report of Marine Electrical Equipment A&D AS E423-0103 dated 28.05.01,**

**Siemens Specification for Type Tests and Test Report of Marine Electrical Equipment A&D AS RD ST Type Test -10/2006,**

**Siemens Test Certificate SIMATIC S7-400, Version 01/2012,**

**EU-Declaration of Conformity No. Khe007-01/2014,**

**CRS witness test, Amberg – June 2014.**

**OZNAČAVANJE PROIZVODA:***MARKING OF PRODUCT:*

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

*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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