

**POTVRDA O TIPNOM ODOBRENJU**  
**TYPE APPROVAL CERTIFICATE**

Br /No 03-001398/031084

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:

**TROFAZNI ASINKRONI KAVEZNI MOTOR BRODSKE ZATVORENE IZVEDBE 5 ABT 71-112**  
**SHIP'S USE THREE-PHASE ASYNCHRONOUS CAGE MOTORS CLOSED CONSTRUCTION****U PROTUEKSPLOZIVNOJ ZAŠTITI OZNAKE: II 2G Ex d e IIC T3/T4 Gb**  
**IN EXPLOSION PROTECTION MARKING: II 2G Ex d IIC T3/T4 Gb**  
**II 2D Ex tb IIIC T135°C/T200°C Db IP6x****PROIZVOĐAČ:**

MANUFACTURER:

**KONČAR-MES d.o.o.**  
Fallerovo šetalište 22  
10000 ZAGREB • HRVATSKA - CROATIA

**PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:**

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

**Hrvatski registar brodova: PRAVILA ZA KLASIFIKACIJU BRODOVA, ELEKTRIČNA OPREMA, DIO 12**  
**Croatian Register of Shipping: RULES FOR THE CLASSIFICATION OF SHIPS, ELECTRICAL EQUIPMENT, PART 12****IEC 60034-1, IEC 60034-7, EN 50014, EN 50018, EN 50019, EN 50281-1-1**  
**EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31****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: 2018-03-13**

APPROVAL IS VALID UNTIL:

**Mjesto i datum: Split, 2014-03-13**  
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.**

**PODROBNIJI OPIS PROIZVODA:**  
**DETAILED PRODUCT DESCRIPTION:**

**Type: 5 ABT 71-80-90-100-112**  
**Rated voltage: to 750 V**  
**Maximum rated current: to 8,7 A**  
**Rated frequency: 50 / 60 Hz**  
**Synchronous speed: 750 to 3600 RPM**  
**Number of poles: 2 to 8**  
**Duty type: S1-S10**  
**Insulation class: F-H (with temperature rise: B class)**  
**Ambient temperature: -20°C to +60°C**  
**Rated power: at S1 duty to 4,5 kW**  
**Temperature rise of windings: to 90°K**  
**Degree of mechanical protection: IP 55, IP 65, IP 56, IP 66**

**PODRUČJE PRIMJENE / POSEBNI GRANIČNI UVJETI:**  
**APPLICATION / LIMITATIONS:**

**Motori su namijenjeni za ugradnju na brodove, u skladu s HRB Pravilima za klasifikaciju brodova.**  
*Motors are intended for ship's use according to CRS Rules for Classification of Ships.*

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

**A69192, A69192-S, A69192-11, A69192-12, A69192-13, A69192-14, A69192-15, A69192-2, A69192-3, A69192-41, A 69192-42, A 69192-5, A 67850**

**Odobreni: 2006-03-10**  
*Approved:*

**Izvještaj ispitivanju: "KONČAR" – INSTITUT 21572-05/624 EI**  
*Specific test report: "KONČAR" – MES A15490 A/A688998*

**CESI EXTENSION n. 02/13 2013.05.22.**

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

**U skladu s normom IEC 60079-0**  
*In conformity to standard IEC 60079-0*

**UVJETI ZA CERTIFIKACIJU:**  
**CONDITIONS FOR CERTIFICATION:**

**Ne / No**

**Raščlana**

12.01.02

**Zamjenjuje potvrdu**

03-001189/030857