



Potvrda br.
Certificate No.

03-001793/031497

POTVRDA O TIPNOM ODOBRENJU TYPE APPROVAL CERTIFICATE

Potvrđuje se da ovaj proizvod udovoljava Pravilima za klasifikaciju brodova, Dio 1. - Opći propisi, Odjeljak 3. - Tipno odobrenje proizvoda.
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.

TIP I OPIS PROIZVODA:
TYPE AND DESCRIPTION OF PRODUCT:

TROFAZNI BRODSKI ASINKRONI KAVEZNI MOTORI ZATVORENE IZVEDBE
THREE-PHASE SQUIRREL-CAGE TOTALLY ENCLOSED INDUCTION MARINE MOTORS
7 ABZ 90-315

PROIZVOĐAČ:
MANUFACTURER:

KONČAR-MES d.d.
Fallerovo šetalište 22
10000 Zagreb
HRVATSKA - CROATIA

PROIZVOD UDOVOLJAVA SLJEDEĆIM PRAVILIMA/PROPISIMA:
THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

HRB PRAVILA ZA KLASIFIKACIJU BRODOVA, Dio 12 – Električna oprema
CRS RULES FOR THE CLASSIFICATION OF SHIPS, Part 12 – Electrical equipment
IEC 60034 series

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: **2023-09-29**
APPROVAL IS VALID UNTIL:

Mjesto i datum: Split, 2021-02-02
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:
DETAILED PRODUCT DESCRIPTION:

Trofazni brodski asinkroni kavezni motori zatvorene izvedbe tip 7 ABZ 90 do 315
Three-phase power squirrel-cage totally enclosed induction marine motors type 7 ABZ 90 to 315

Tehnički podaci / Specifications:

Materijal kućišta: lijevano željezo / Frame material: Cast iron frame

Tip 7 ABZ 90 do 7 ABZ 315 / Type 7 ABZ 90 to 7 ABZ 315

Veličina – osna visina: IEC 90 – 100 – 112 – 132 – 160 – 180 – 200 – 225 – 250 – 280 – 315

Frame sizes – Shaft height motors: IEC 90 – 100 – 112 – 132 – 160 – 180 – 200 – 225 – 250 – 280 – 315

Hlađenje: zrak – metoda hlađenja IC411 / Cooling: Air – Cooling method IC411

Rotor: kratkospojnik / Rotor: Squirrel cage

Napajanje – nazivni napon: 220 do 690 V / Power supply – Rated voltage: 220 to 690 V

Frekvencije: 50 Hz i 60 Hz / Frequency: 50 Hz and 60 Hz

Sinkrona brzina: 750 do 3600 RPM / Synchronous speed: 750 to 3600 RPM

Broj polova: 2 do 8, višepolni i polno preklopivi / Number of poles: 2 to 8, multi poles and multi speed

Tip službe S1 do S10 u skladu s IEC normom / Duty type S1 to S10 according to IEC standard

Klasa izolacije: F ili H / Insulation class: F or H

Temperaturna klasa: B ili F / Temperature rise class: B or F

Temperatura okoline: -30°C do +50°C / Ambient temperature: -30°C to +50°C

Nazivna snaga za S1 službu: 0,37 kW do 250 kW / Rated power at S1 duty: 0,37 kW to 250 kW

Stupanj mehaničke zaštite: IP55 – IP65 – IP56 – IP66 / Degree of protection: IP55 – IP65 – IP56 – IP66

PODRUČJE PRIMJENE / POSEBNI GRANIČNI UVJETI:
APPLICATION / LIMITATIONS:

Motori su namijenjeni za ugradnju na brodove u skladu s HRB Pravilima za klasifikaciju brodova.
Motors intended for ship's use according to CRS Rules for the classification of ships.

DOKUMENTACIJA ZA TIPNO ODOBRENJE:
TYPE APPROVAL DOCUMENTATION:

KONČAR-MES Tehnički opis s pripadajućim dokumentima, nacrt br. A44689/A datuma 07/2005 s izmjenama do dodoatka 4, nacrt br. A44689/D datuma 09/2016.

KONCAR-MES Technical description with belonging documents, drawing no. A44689/A dated 07/2005, with changes up to Annex 4, drawing no. A44689/D dated 09/2016.

OZNAČAVANJE PROIZVODA:
MARKING OF PRODUCT:

Natpisna pločica u skladu s IEC 60034-1.
Name plate according to IEC 60034-1.

UVJETI ZA CERTIFIKACIJU:
CONDITIONS FOR CERTIFICATION:

Za el. strojeve bitnih službi mora se izvršiti pojedinačno ispitivanje u skladu s radnim uputama HRB QW-48.
For el. machines intended for essential services shall be carried out routine test according to CRS working instruction QW-48.