



Potvrda br.
Certificate No.

03-001976/031682

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 U PROTUEKSPLOZIJSKOJ IZVEDBI
THREE-PHASE SQUIRREL-CAGE EXPLOSION PROOF INDUCTION MARINE MOTORS
7 ABT 71-315

PROIZVOĐAČ:
MANUFACTURER:

KONČAR-MES d.o.o.
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, IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-7:2015/A1:2017, IEC 60079-31:2013

DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEDINI.
FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

ODOBRENJE VRIJEDI DO: 2027-10-06
APPROVAL IS VALID UNTIL:

Mjesto i datum: Split, 2023-10-07
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 u protueksplozivnoj izvedbi tip 7 ABT 71 do 315
Three-phase power squirrel-cage explosion proof induction marine motors type 7 ABT 71 to 315

Tehnički podaci / Specifications:

Tipovi zaštite/ Type of protection:

- motor Ex db i spojna kutija Ex db ili Ex eb / motor Ex db and terminal box Ex db or Ex eb
- motor Ex db sa stalno spojenim kabelima / motor Ex db with permanently connected cables

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

Tip: 7 ABT 71 do 7 ABT 315 / Type: 7 ABT 71 to 7 ABT 315

Veličina – osna visina: IEC 71 – 80 – 90 – 100 – 112 – 132 – 160 – 180 – 200 – 225 – 250 – 280 – 315

Frame sizes – Shaft height motors: IEC 71 – 80 – 90 – 100 – 112 – 132 – 160 – 180 – 200 – 225 – 250 – 280 – 315

Hlađenje: zrak – metoda hlađenja IC411, IC410 i IC416 / Cooling: Air – Cooling method IC411, IC410 and IC416

Rotor: kratkospojnik / Rotor: Squirrel cage

Napajanje – nazivni napon: do 750 V / Power supply – Rated voltage: up to 750 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-H / Insulation class: F-H

Temperaturna klasa: B / Temperature rise class: B

Temperatura okoline: -20°C do +60°C / Ambient temperature: -20°C to +60°C

Nazivna snaga za S1 službu do 225 kW / Rated power at S1 duty up to 225 kW

Stupanj mehaničke zaštite: IP55 – IP65 – IP56 – IP66 – IP67 / Degree of protection: IP55 – IP65 – IP56 – IP66 – IP67

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.

Ova potvrda o tipnom odobrenju ne pokriva ex-certifikaciju.
Ex-certification is not covered by this certificate.

DOKUMENTACIJA ZA TIPNO ODOBRENJE:
TYPE APPROVAL DOCUMENTATION:

KONČAR-MES Tehnički opis s pripadajućim dokumentima, nacrt br. A524200 s izmjenama do dodoatka 10 datuma 06/2021.
KONCAR-MES Technical description with belonging documents, drawing no. A524200 with changes up to Annex 10 dated 06/2021.

Potvrda o ispitivanju CESI 03 ATEX 280X/10 datuma 29/06/2021.
Examination certificate CESI 03 ATEX 280X/10 dated 29/06/2021.

OZNAČAVANJE PROIZVODA:
MARKING OF PRODUCT:

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

Dodatno označavanje / Additional marking

II 2G Ex db IIB T3 Gb or II 2G db eb IIB T3 Gb

II 2G Ex db IIC T3/T4/T5/T6 Gb or II 2G Ex db eb IIC T3/ T4/ T5/T6 Gb

II 2D Ex tb IIC T100°C/T130°C/T160°C Db

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.