

AC Induction marine and navy motors

DESIGNED AND MANUFACTURED IN ITALY

2276

11.15



110.000 motors delivered per year

25.000 m² of manufacturing premises

150ea group employees

POWER SUSTAINABILITY thanks to solar panels

Aerial view of HQ and main production plant in Beverate di Brivio, LC (Lake of Como)

Electro Adda S.p.A. at a glance

Established in 1948, Electro Adda remains a family company with 75+ years of experience in AC Low voltage motors and generators engineered and made in Italy.

Through a global sales service and distribution network – including after sales – we are serving 73 countries with a power range up to 1.5MW

Electro Adda is a totally independent market player active in all major segments (industrial, marine and navy, metals, lifting & material handling, hoists, defense, automotive, renewable energy, O&G, railways) While design activities are developed by the internal technical department, manufacturing process is fully performed inside our factories.

A large test bay is capable to conduct functional tests – including tests on load.

MADE IN ITALY

From design to manufacturing, the whole process is made in Italy in our headquarters in Beverate di Brivio, LC Lake of Como Area in Northern Italy. Engineered the product, from raw material our internal production creates punched laminations, machining (shaft & frames), electrical and assembly department create the finished unit. Our testing laboratory will check and confirm performance before delivery.



100% Italian family business



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WINDIN CRODUCTION The motor in our hands W&P – production of electrical winding

COMPLIANCE WITH DEMANDING

- Designed and built taking into account vessel inclinations (static & dynamic)
- Certified painting systems
- Deck and offshore (wet environments) and below deck (dry environments)
- Mounting configurations, speeds, protection degree and enclosures can be adapted to meet specific vessel installation constraints
- Shock capability up to 300g
- Low magnetic signature

Certification

Quality is endorsed by third party accreditations ISO 9001-2015, UL (#E340019-E247839), Atex (#CESI03Atex286Q), Marine, Naval, CSA (#201661) and project identified bodies. Compliance with appointed classification societies is achieved for marine and naval applications:















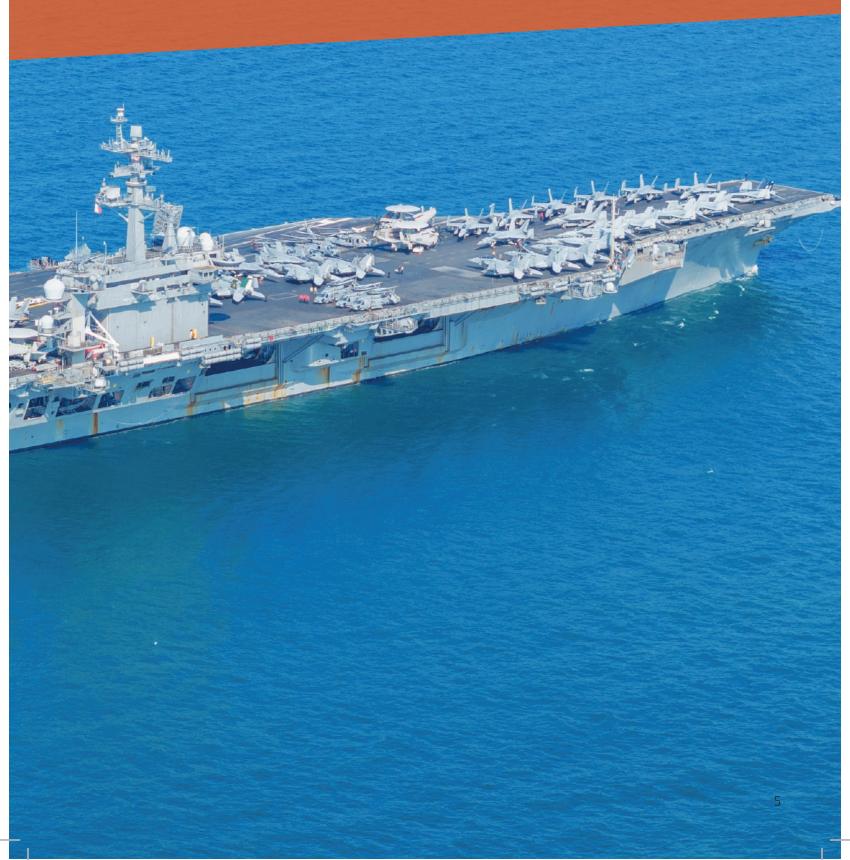


ClassNK



MARINE & NAVAL APPLICATIONS

- DEF and MIL Standards
- LOW EMC
- Structural borne noise measurement
- 1/3 octave band vibrations and noise readings
- BV & LR type approval
- Functional test



Customer oriented solutions for marine and naval duties

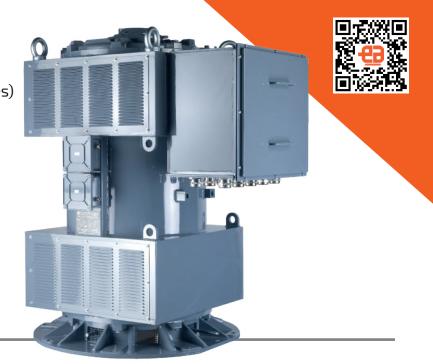
Depending on the specific duty and location (above or below deck), the Electro Adda product portfolio is flexible in terms of protection degree and cooling as follows:

A series

Steel frame

Power 200÷2000 kW Continuous or intermittent duty (S1 or S2 30 minutes) Frame sizes 250÷560 Insulation Class F - Option H Air cooling (IC01, IC06) Protection degree IP 23 50, 60Hz and variable speed Advantages:

- Smaller overall dimensions and lighter motors
- High power density



W series



Steel frame

Power 11÷2000 kW Continuous or intermittent duty (S1 or S2 30 minutes) Frame sizes 132÷560 Insulation Class F - Option H Water cooling (IC7 A1W7) Protection degree IP 55 (IP 56 on request) 50, 60Hz and variable speed Advantages:



- Smaller overall dimensions and lighter motors
- Lower heat release into the working environment
- Lower noise
- No power reduction even at high ambient temperatures
- They can be used at a wide speed range at constant torque without derating
- Suitable for installation in harsh environments
- High power density

C series

Nodular Cast Iron & Steel frame Power 0.75÷1200 kW Frame sizes 71 up to 500 Designed to withstand high shock load on all directions Insulation Class F - Option H Efficiency class IE2/IE3/IE4 2, 4, 6, 8 pole motors and multi speed motors Protection degree – cooling:

- IP 55 IC 411 self-ventilated
- IP 55 IC 416 forced ventilation
 Suitable for inverter supply
 IEC60034-1 MIL Standards BVNR483
 LOW EMC

Marine and naval rules LR & BV type approvals – including naval constructions





FECCL series

With DC electromagnetic disc brake Power 0.13÷280 kW Frame sizes 63÷355 Insulation Class F - Option H Protection degree IP 55 Cooling type

- IC 411 self-ventilated
- IC 416 with forced ventilation

Suitable for inverter supply IEC 60034-1 Standards EAC Certification (on request) UL/CSA certification for USA and Canada markets Marine construction LR approved IE3 efficiency class







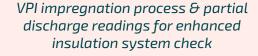
BV and LR Type Approval



DESIGN AND BUILT TO LAST

Electro Adda marine & navy motors are subject to a dedicated manufacturing process which will included: Detailed design which may include FEM calculations (electrical and mechanical) to confirm compliance with requirements

Selection and traceability of materials – where applicable and traceability of materials – where applicable and selectrical steel In house punching and slotting of electrical steel In house punching and slotting and slot



In house CNC shaft machining

30000

Functional test in our laboratory including tests on load



FROM STANDARD MARINE TO TAILOR MADE

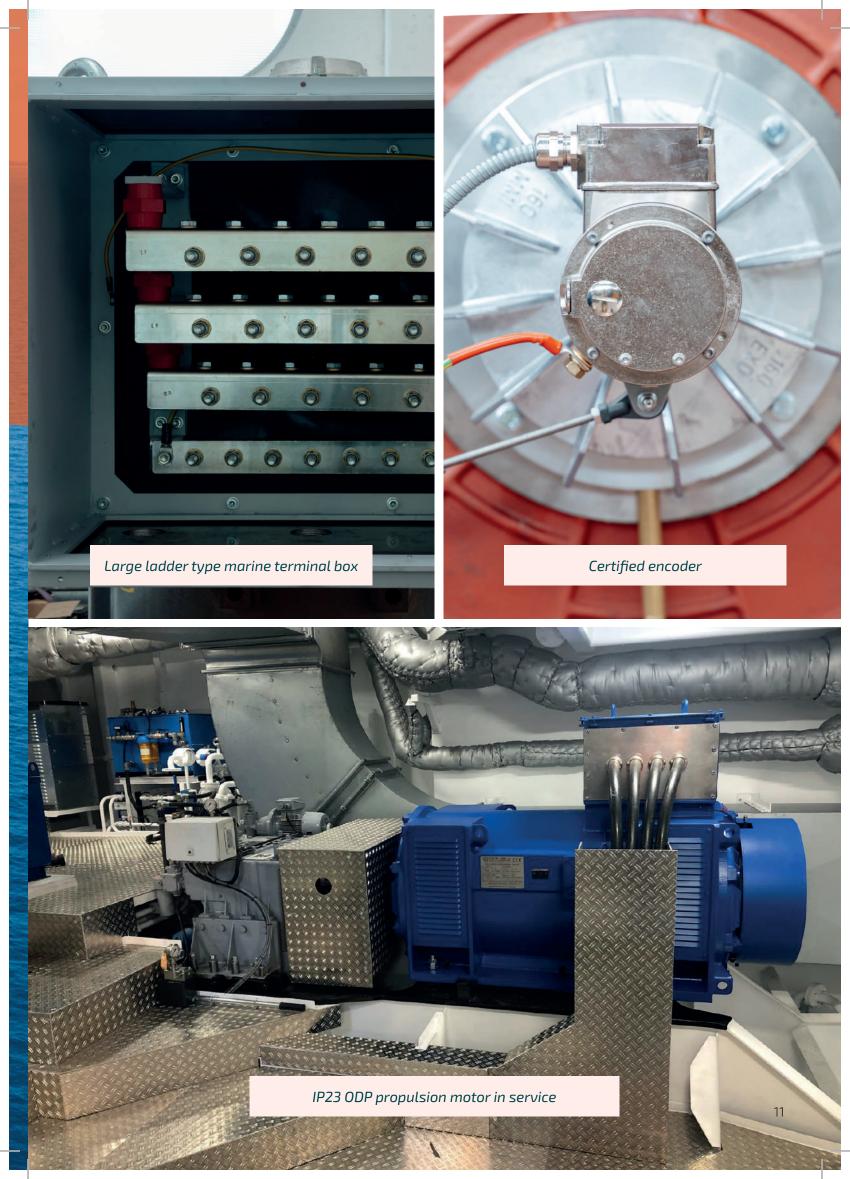
SERVICE: Main propulsion, Auxiliary and PTO/PTI/PTH hybrid propulsion

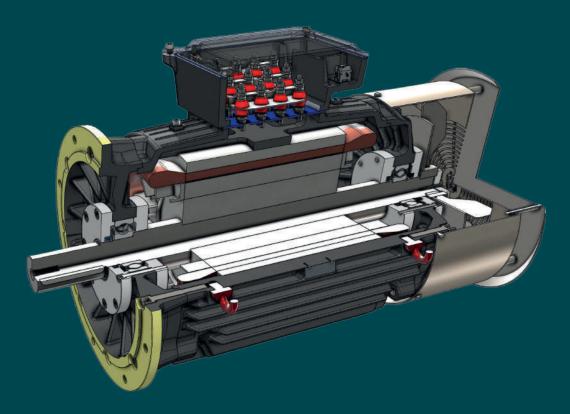
Starting from a clean compact design, the unit can be configured based on application to meet specific requirements with customized design and options:

- Winding and bearing temperature detectors
- Space heaters
- Class H insulation
- Insulated bearing and shaft grounding brush
- Cable glands

- Vibration sensors
- Special painting cycle per ISO 12944
- Special shaft and/or double shaft extension
- Encoder
- Brake
- Type test
- Compliance with major classification societies is available upon request









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