

B&P Elektromotoren

**Electro Adda
AC Induction marine
and navy motors**

DESIGNED AND MANUFACTURED IN ITALY



110.000
motors delivered per year

25.000 mq
of manufacturing premises

150 ea
group employees



POWER SUSTAINABILITY
thanks to solar panels

Electro Adda SpA 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.

FROM
1948



100% Italian family business



Electro Adda GmbH



Electro Adda Uk, Co, Ltd



Electro Adda S.p.A.



W&P WINDING & PRODUCTION
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

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

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:



iStock™

Credit: Suphanat Khumsap

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



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

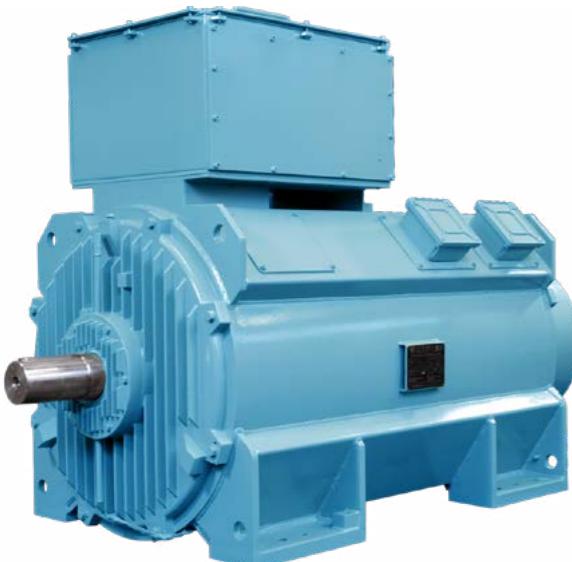
Suitable for inverter supply
IEC60034-1 MIL Standards BVNR483
LOW EMC
Marine and naval rules
LR & BV type approvals – including naval constructions



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



FECL 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 include:

Detailed design which may include FEM calculations (electrical and mechanical) to confirm compliance with requirements

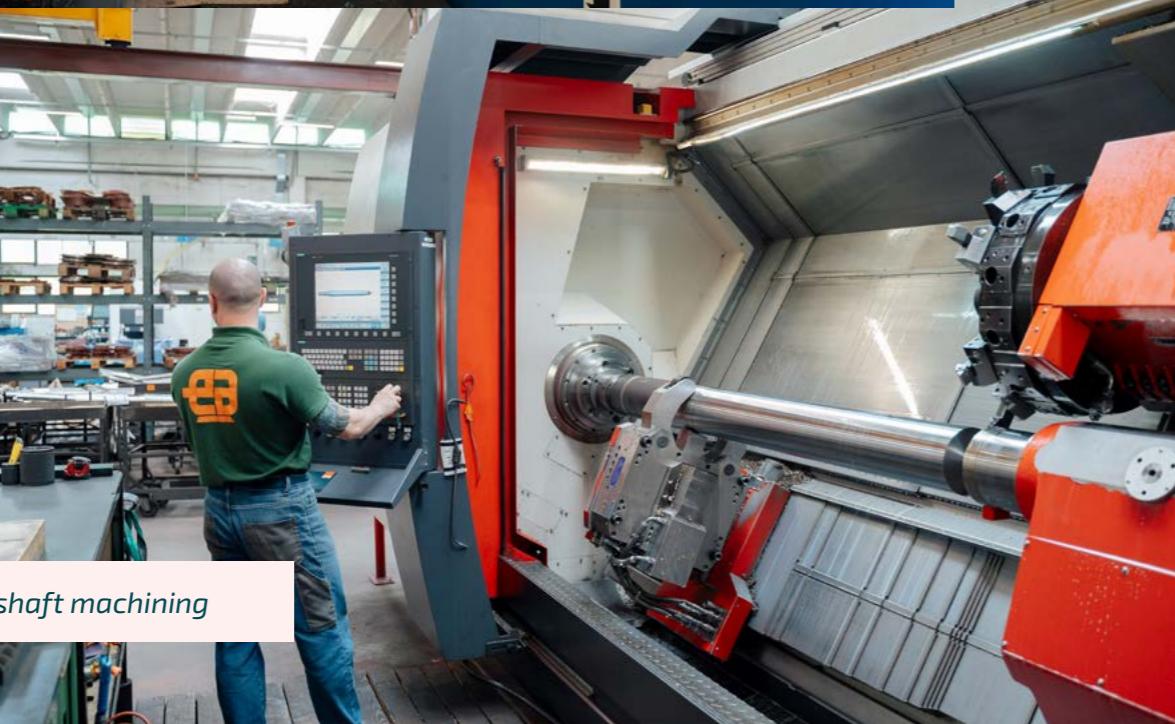
AA → 2" G WATER INLET AND PT100

BB → 2" G WATER INLET AND PT100

Selection and traceability of materials – where applicable

In house punching and slotting of electrical steel

Bespoke quality control plan which will reflect class and client's specification as far as applicable



Functional test in our laboratory including tests on load



FROM STANDARD MARINE TO TAILOR MADE

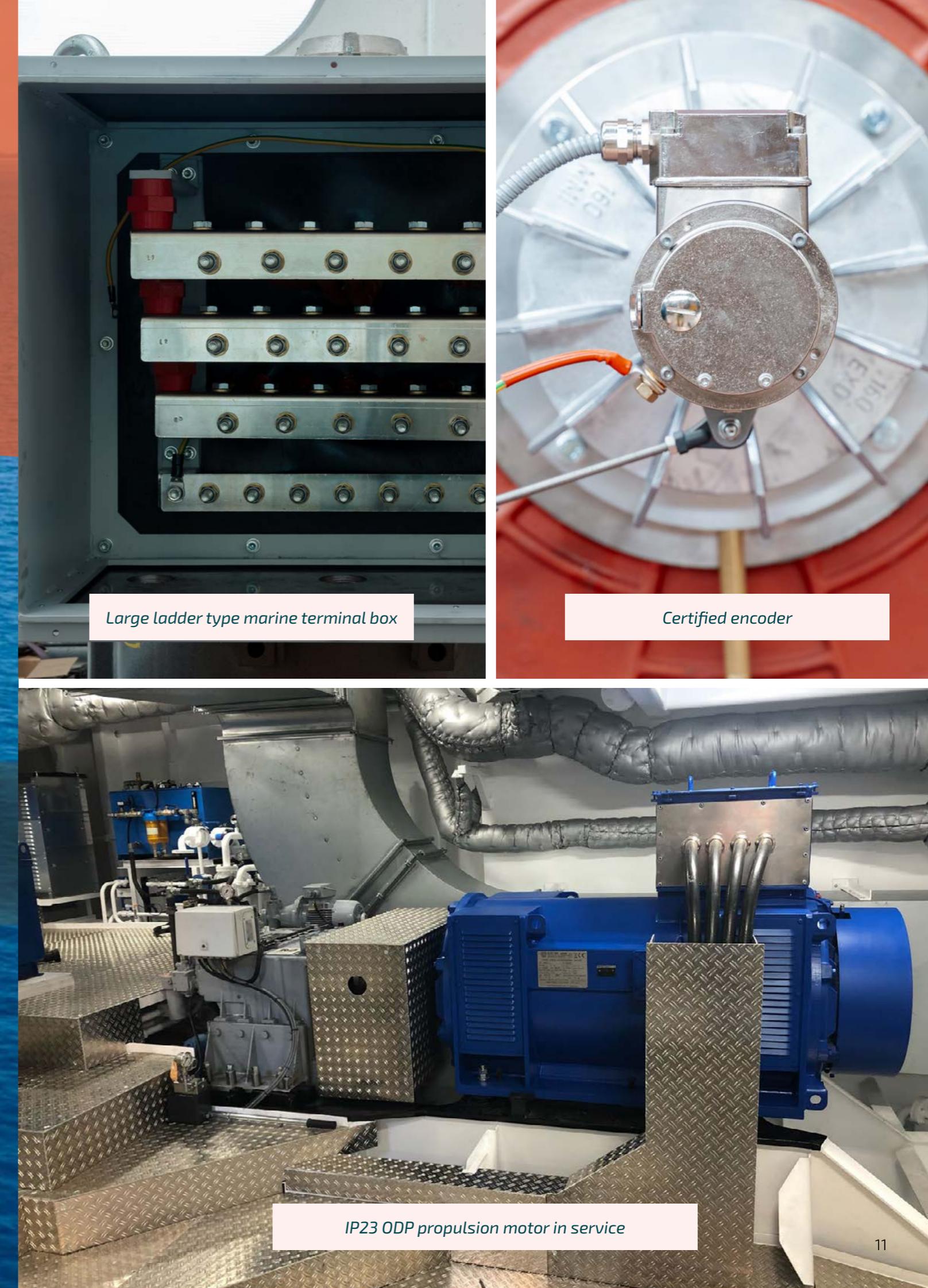
SERVICE: Main propulsion, Auxiliary and PTO/PTI/PTH hybrid propulsion

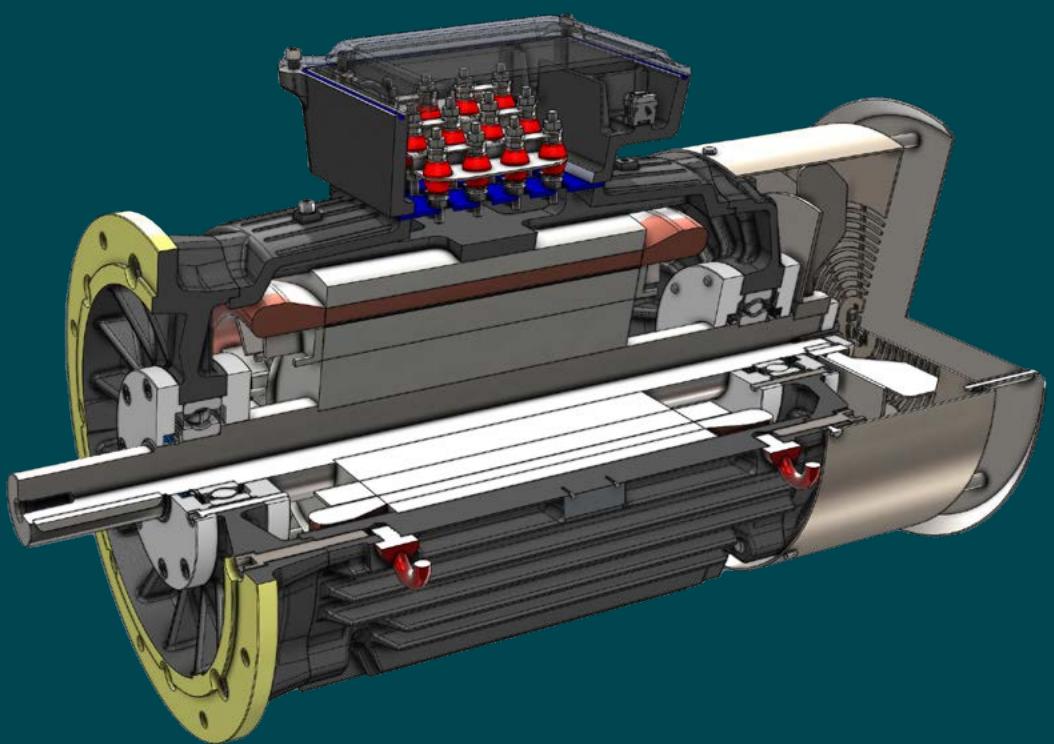
Starting from a clean compact design, the unit can be configured based on application to meet specific requirements with customized design and options:

- 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







B&P ELEKTROMOTOREN BV

Expeditieweg 21
6657 KM Boven-Leeuwen

info@bnpelektromotoren.nl

+31 (0)344 616 267

BTW nr. NL819113918B01

KvK nr. 30237800

ING Bank NL60 INGB 0675 304 792



www.bnpelektromotoren.nl