

NEMA MOTOR

Baldor-Reliance® specialty marine duty motors

Reliability in extreme operating environments



Baldor-Reliance marine duty motors offer energy efficiency and reliability above deck and below deck with specially designed motors to keep essential and non-essential services operating.

Operating in extreme conditions

Marine duty motors are utilized across the marine industry on military vessels, offshore platforms, passenger ships, and ocean-going vessels. Reliability is most important for electric motors utilized in the extreme operating conditions associated with marine applications: i.e. salt laden, humid and corrosive atmospheres.

Comprehensive range of products

Baldor-Reliance marine duty motors are designed and manufactured in accordance with international standards and in compliance with requirements of the main classification societies.

As a compliment to our wide range of standard products, ABB can provide solutions to suit special requirements, enabling us to develop products to meet the specific requirements of ships/vessels, shipyards and OEM's. Type Approval Certification (TAC) is a procedure for the approval of standard and/or routinely manufactured designs.

The design approval is made once, and this approval is valid for all subsequent components of an identical design.

Type Approval Certifications

- IEEE 45
- USCG (United States Coast Guard)
- ABS (American Bureau of Ships - USA)
- Lloyd's Register (Great Britain-UK)
- DNV (Det Norske Veritas Norway)

Applications we support above deck and below deck:

| Above deck | | Below deck | |
|------------------|---|---------------------|---|
| Winches & cranes | Anchor windlass cargo winches Constant-tension winches Lifeboat winches mooring Winches topping winches Highlines Jib cranes | Compressors | Air compressors A/C Compressors refrigeration |
| Drives | Capstans conveyors weapon systems | Pumps | Bow thrusters ballast pumps Cargo pumps circulating Pumps feedwater pumps fire Pumps Fuel pumps |
| | | Fans & air handling | Forced draft blowers exhaust Fans Ventilation fans |

Essential services

Essential services are those which need to be in continuous operation and are fundamental for maintaining the vessel's propulsion, and steering and other important operational functions. A malfunction in any of these services may result in danger to the safety and maneuverability of the vessel.

Examples of essential service applications:

- Steering gear
- Propulsion
- Anchor winches
- Lube and cooling pumps
- Fuel oil transfer pumps
- Engine starting compressors
- Thrusters

Non-essential services

Non-essential services are all other services/applications which do not represent any potential to danger to the safety or steering of the vessel.

Specifications

Stainless steel nameplate

Marine duty insulation system

Corrosion proof hardware

Optional features:

IP55 spray tight enclosure

IP56 watertight enclosure

ABS test & inspection with special software

.25 – 3,000 HP

NEMA & above-NEMA frame sizes



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