

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

