Immersible motors
Proven performance, even under 30 feet

The Baldor-Reliance® immersible motors are designed for use where the possibility of flooding exists. The motor features totally enclosed, blower-cooled enclosures and are designed with a unique sealing system. This system allows reliable operation for a period of two weeks while submerged under a maximum depth of thirty feet of water.

A diverse product line is offered to satisfy most demanding requirements:
• Horsepower range 5 to 250 Hp
• Frame range 210 to 449
• 3600, 1800, 1200, and 900 rpm
• 50 or 60 Hz

The immersible design has been proven by conducting extensive tests and inspections. The only way to claim that our motors will run underwater for two weeks is to imitate these same field conditions. At the conclusion of the testing, the motors are disassembled and inspected by engineers to assess dryness and structural integrity.

NOTE: Baldor-Reliance immersible motors are offered as custom/non-stock products only and are not available from inventory. Contact your local ABB sales office for pricing and availability.

Optional features:
• Premium efficient designs
• Variable frequency operation on variable torque applications
• Winding temperature detectors (thermostats)
• Space heater
• P-base or C-face mounting
• Vertical or horizontal mounting available
• 25 foot power cable, other lengths available
• Patented immersible motor sealing system

Immersible motors are ideal for dry pit applications in flood plains. The motor exceeds the IP67 requirements of two weeks submersion at a depth of thirty feet.
Immersible motors

The totally enclosed blower-cooled immersible motor is equipped with a Baldor-Reliance fractional or integral HP motor for cooling. A customer supplied float switch disengages the blower motor when the submersion level reaches the top of opposite drive end plate of the primary motor. If the blower motor is submerged, it must be replaced unless equipped with optional immersible blower motor which must be serviced at an ABB approved facility.

460 volt, 3 phase

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The unique sealing arrangement makes the immersible motor the ideal choice for applications where the possibility of flooding exists.

1. Frame
2. Stator
3. “O” ring, seal carrier
4. Seal carriage
5. Seals
6. Shaft
7. Back end bracket
8. Conduit box, cable cap assembly
9. Lifting Plates
10. Drip cover
11. Blower motor cable entry
12. Blower motor
13. Outer fan
14. Front end ball bearing
15. Fan cover
16. Front end bracket
17. Rotor

210 frame are TENV 250 and above are TEBC

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