FACTSHEET

Immersible motors

Proven performance, even under 30 feet

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

BALDOR • RELIANCE

A diverse product line is offered to satisfy the most demanding requirements with the following standard features:

- Horsepower range 5 to 250 Hp
- NEMA frame size range 210 to 449
- Totally Enclosed, Non-vent or Blower-cooled enclosures (IP67)
- Vertical, shaft down mounting configuration
- P-base or C-face end brackets
- 3600, 1800, 1200, and 900 rpm
- 3-phase, 50 or 60 Hz
- Continuous in air operation
- Premium Efficiency electrical designs
- Winding thermostats
- Space heaters, 120 V
- 25-foot power cable length
- Patented immersible motor sealing system

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.

Optional features:

- Variable frequency operation on variable torque applications
- Horizontal mounting (TENV only)
- Alternate power cable lengths
- Alternate shaft materials for strength and corrosion-resistance
- Immersible blower motor (TEBC only)
- Other custom features available

Immersible motors are ideal for dry pit applications in flood plains or other applications where the possibility of flooding exists but would not normally occur.

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.

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.

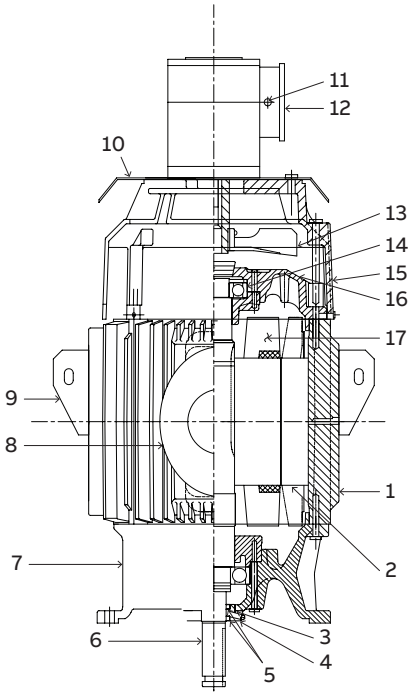
460 volt, 3 phase

HP	3600 RPM frame	1800 RPM frame	1200 RPM frame	900 RPM frame
5	210	210	210	250
7.5	210	210	250	250
10	210	250	250	320
15	250	250	250	320
20	250	250	250	320
25	280	280	320	320
30	280	280	320	360
40	320	320	320	360
50	320	320	320	400
60	360	360	360	400
75	360	360	360	440
100	400	400	400	440
125	400	440	400	440
150	440	440	440	440
200	440	440	440	440
250	440	440	440	-

210 frame are TENV 250 and above are TEBC

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



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