

SUBMERSIBLE MOTORS

Proven performance, even at a depth of 200 feet



Offering a solution for both wet and dry pit applications, ABB Baldor-Reliance® submersible motors provide a proven solution for municipal and industrial wastewater operations, as well as slurry pumps, aerators and mixers.

WET pit motors use the effluent for cooling and can run 15 minutes in air. DRY pit motors are sized to run continuously in air or submerged if needed.

Product scope

	15 min. in air	Continuous in air
Hp	1 to 450	1 to 150
Speeds*	3600 to 600	3600 to 600
Frames	180TY to 440TY	180TY to 440TY

*3600 rpm available in 180TY to 250TY frames

Rugged, corrosion-resistant construction

- Heavy duty cast iron construction
- Epoxy primer and finish coat (C2)
- Stainless steel shaft & hardware
- **Enhanced Ingress Protection (IP68)**
- Non-wicking cable-cap assembly
- O-rings on all machined fits
- Oil chamber with dual moisture sensors

Adaptable to a wide range of operating conditions

- UL listed for Class I Division 1 Groups C&D (T3C)
- Inverter Duty, 10:1 VT @ 1.0 SF (T2A or T3C as specified in the motor nameplate).
- Ambient temperatures up to 65° C (UL) and 90° C (non-UL)
- Type 21 tandem mechanical seals designed to withstand 100 psi**
- 25' cable length (standard)
- Wide range of custom features available, including cable lengths, seal types, shaft materials, mounting plates, and paint systems.

** Total sum of operating depth and reflected pump pressure.

Note: Stock ratings of ABB Baldor-Reliance submersible motors are available from inventory. Certain modifications are available through the Quick Mod program. Custom products are also available to meet specific customer requirements. Contact your local sales office for details.

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UL approved and non-UL approved
Maximum horsepower per frame (based on 1800 rpm)

Frame	Three phase 15 min. in air	Three phase continuous in air
180TY	7.5	3
210TY	20	5
	40	10
320TY	75	20
360TY	150	40
440TY	450	150

Seal	Description	Application
Type 21 carbon ceramic faces	Standard seal offering. A general purpose seal of stainless steel construction with carbon ceramic seal faces.	Used in food processing, petrochemical and wastewater applications with relatively clean effluent.
Type 21 tungsten carbide faces	Same type of seal except with tungsten carbide faces. Harder seal faces.	For more demanding applications, more abrasive fluids.
Type 21 silicon carbide faces	Same type of seal except with silicon carbide faces.	For the most demanding, slurry type applications.
Slurry type seal *	Seal is completely contained in the oil chamber. Non-explosion proof design only.	Used in non-explosion proof slurry applications. Can be used continuous in air.
Hydropad seal **	Special seal design with hydropad scallops to run cooler.	Recommended for applications with low specific gravity or lighter film between the faces.

* Slurry design is not UL approved and is limited to 15 psi.
** Not recommended for dry-run conditions

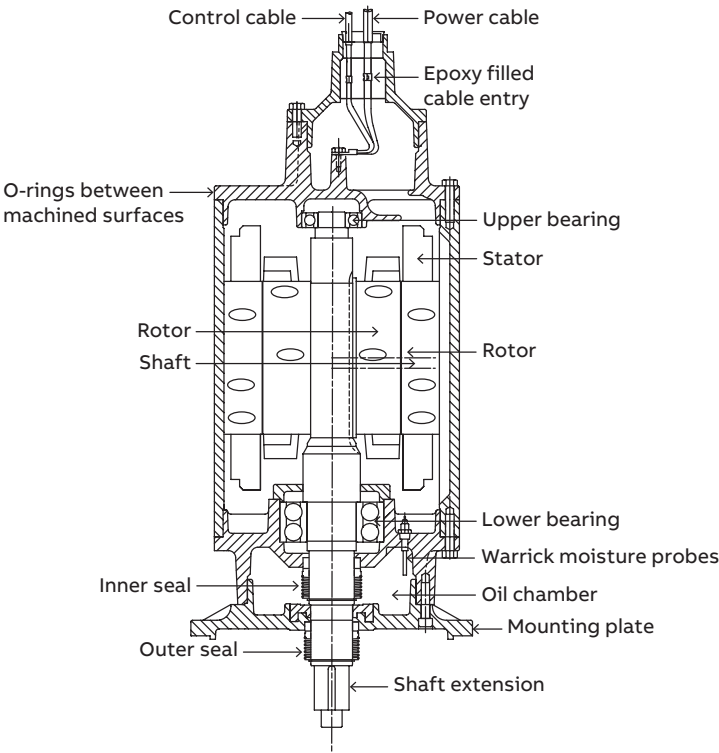


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