

PRODUCT NOTE

# Submersible motors

Proven performance, even at a depth of 200 feet



**BALDOR • RELIANCE®**

**Product scope**

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

\*3600 rpm available in 180TY to 250TY frames

**Tough, corrosion resistant construction**

- Frame and end shields are all cast iron construction
- 316 stainless steel hardware
- 416 stainless steel shaft
- Non wicking epoxy sealed cable entry with butt spliced connections
- O-rings on all machined fits

Offering a solution for both wet and dry pit applications, 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.

**Optional features:**

- U/L listed and CSA certified for Class 1 Division 1 Groups C & D with a T3C temperature code
- Type 21 tandem mechanical seals designed to withstand 100 psi \*\*
- Dual moisture probes to detect any moisture in oil chamber
- Inverter rated insulation system, Class 1 Division 1 Group D, T2A. Meets NEMA MG1, Part 31
- Standard cable length is 25 feet, longer lengths available

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

Note: Stock ratings of 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.

# Submersible motors

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

Frame	15 min. in air	Continuous in air	Premium efficient 15 min. in air	Single phase 15 min. in air	Single phase continuous in air
180TY	7.5	3	5	3	1
210TY	20	5	10	5	1.5
250TY	40	10	20	-	-
320TY	75	20	60	-	-
360TY	150	40	125	-	-
440TY	450	150	350	-	-

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.

\*\* Recommended not to operate in dry-run condition

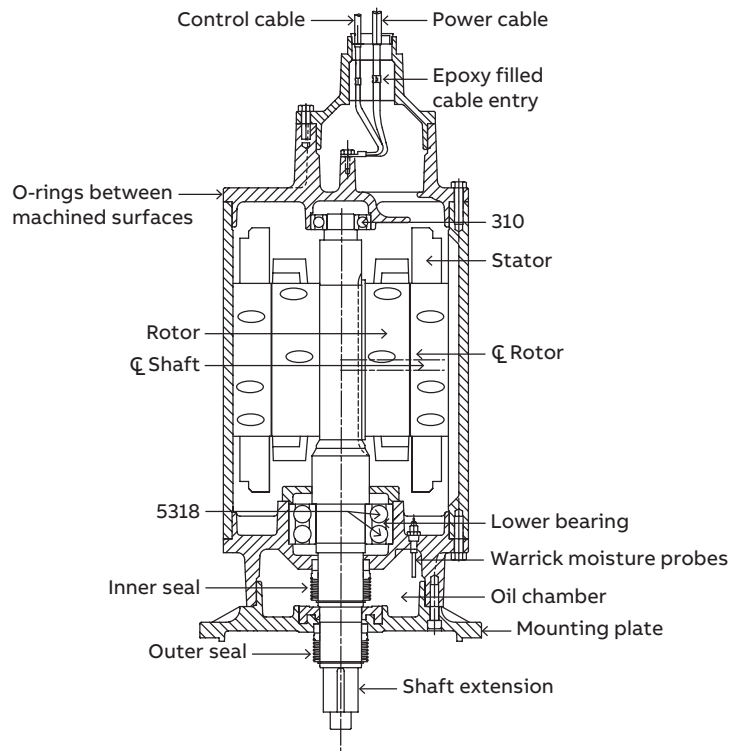


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