



4" HIGH THRUST SUBMERSIBLE MOTORS

Single Phase: 3 & 5 horsepower

230 volts - 60 hertz; 220 volts - 50 hertz

Three Phase: 3 through 10 horsepower

200, 230, 380, 575 volts - 60 hertz

220 volts - 50 hertz; 460/380 volts - 60/50 hertz

APPLICATION DATA

These motors are built for dependable operation in 4" diameter or larger water wells. Temperature and time rating continuous in 86 °F (30 °C) water at 1/4 ft/sec flow past motor. Rotation: single-phase, CCW facing shaft end; three-phase, electrically reversible.

For further information, refer to Franklin Electric's "Submersible Motors: Application, Installation, Maintenance Manual."

CONTROL BOXES

- Franklin's single-phase submersible control boxes are suitable for outdoor mounting with operation over temperature ranges of +14 °F to +122 °F.
- Start and run winding overloads protect the motor from failure due to abnormal operating conditions.
- Available in 3 and 5 hp ratings, the DELUXE Control Box incorporates a magnetic line contactor to eliminate the need for auxiliary contactors and heavy duty pressure switches.
- A heavy duty terminal strip with box type lugs makes it easy to install up to #2 AWG wire.
- Ground lugs provide a means of grounding the motor and Control Box to the power supply ground in compliance with NEC and other National and local codes.

BASIC FEATURES

- Corrosion-Resistant Construction
- Stainless Steel Splined Shaft
- Hermetically-Sealed Windings
- Anti-Track Self-Healing Resin System
- Water Lubrication
- Filter Check Valve (Water Well)
- Kingsbury-type Thrust Bearing
- Pressure Equalizing Diaphragm
- Sand Fighter Slinger
- Built-In Lightning Arrestors (single-phase)
- Removable "Water-Bloc" lead installed in 60 Hz and dual frequency rated water well motors. Consult factory for additional leads.
- NEMA Mounting Dimensions
- UL 778 Recognized (North American Voltages)
- CSA C22.2 #108 Certified

SPECIAL FEATURES

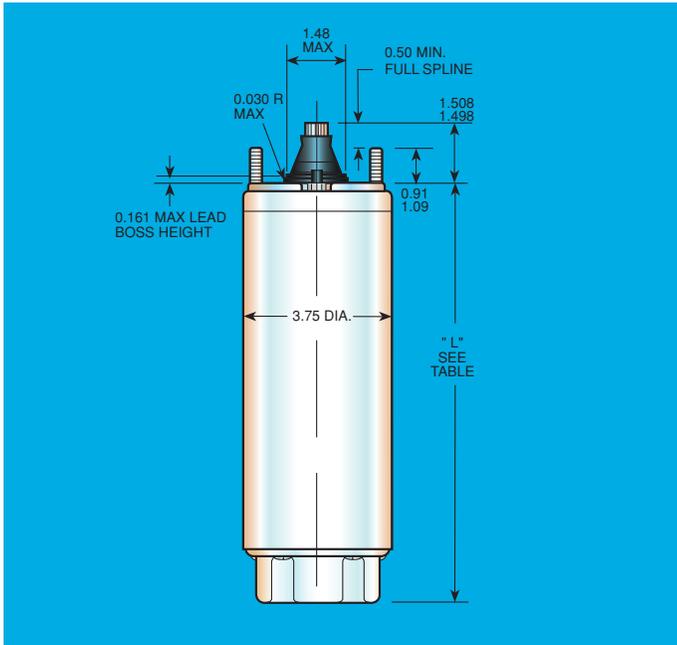
- **316 Stainless Steel:** Special construction option for acid, low pH, and seawater applications.
- **Oil Stripper:** Special construction option for secondary oil recovery wells, geothermal, or other applications with high ambient temperatures. Consult Factory for construction details.
- **World Wide Adaptability:** All standard voltage and hertz ratings are offered. Contact Franklin Electric for availability.



WARNINGS: Serious or fatal electrical shock or fire hazard may result from failure to follow the instructions for proper installation and use which accompany this equipment. Do not use motor in swimming areas.

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DIMENSIONS



AVAILABILITY

Single-Phase Capacitor start, capacitor run
(Control Box required)

HP	kW	"L" Dimension in	Shipping Weight	
			lbs	kgs
3	2.2	23.2	56	25.4
5	3.7	29.2	71	32.2

Three-Phase (Special control required)

HP	kW	"L" Dimension in	Shipping Weight	
			lbs	kgs
3	2.2	20.2	44	20.0
5	3.7	23.2	56	25.4
7-1/2	5.5	29.2	71	32.2
10	7.5	32.9	77	34.9

60 Hz - 3,450 RPM
50 Hz - 2,875 RPM

CONSTRUCTION MATERIALS

Component	Environment Type		
	Standard Water Well	Chemical (316 STNLS)	Oil Stripper
1. Top Casting	303 SS	316 SS	316 SS
2. Bottom Casting	303 SS Over Iron	316 SS	316 SS
3. Stator Shell	301 SS	316 SS	316 SS
4. Stator Ends	Low Carbon Steel	316 SS	316 SS
5. Shaft Extension	17-4 SS	17-4 SS	17-4 SS
6. Fasteners	300 Series SS	316 SS	316 SS
7. Seal Cover	Acetal	316 SS	316 SS
8. Seal	Nitrile Rubber Lip Seal	Sand Fighter™ SiC Mech Seal	Sand Fighter™ Viton
9. Diaphragm	Nitrile Rubber	Nitrile Rubber	Viton
10. Diaphragm Cup	316 SS	316 SS	316 SS
11. Diaphragm Spring	316 SS	316 SS	316 SS
12. Diaphragm Cover	304 SS	316 SS	316 SS
13. Slinger	Nitrile Rubber	Nitrile Rubber	Viton
14. Lead Wire (or Cable)	XLPE ①	XLPE ①	XLPE ①
15. Lead Potting	Epoxy	Epoxy	Epoxy
16. Lead Screws / Clamp	316 SS	316 SS	316 SS
17. Filter	Delrin & Polyester	316 SS Plug	316 SS Plug

① Removable type, factory-installed in 60 Hz and dual frequency rated water well motors. Consult catalog for additional leads. Specifications subject to change without notice. Contact Franklin Electric if current material types are required for bid specifications.



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