

## 4" HIGH THRUST SUBMERSIBLE MOTORS

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<b>Single Phase:</b>	<b>3 &amp; 5 horsepower</b> <b>230 volts - 60 hertz; 220 volts - 50 hertz</b>
<b>Three Phase:</b>	<b>3 through 10 horsepower</b> <b>200, 230, 380, 575 volts - 60 hertz</b> <b>220 volts - 50 hertz; 460/380 volts - 60/50 hertz</b>

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### APPLICATION DATA

These motors are built for dependable operation in 4" diameter or larger water wells. Temperature and time rating continuous in 86½F (30½C) water at 1/4 ft/sec flow past motor. Rotation: 1-phase, CCW facing shaft end; 3-phase, electrically and mechanically reversible.

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

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### 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 (1 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
  - CSA C22.2 #108 Certified
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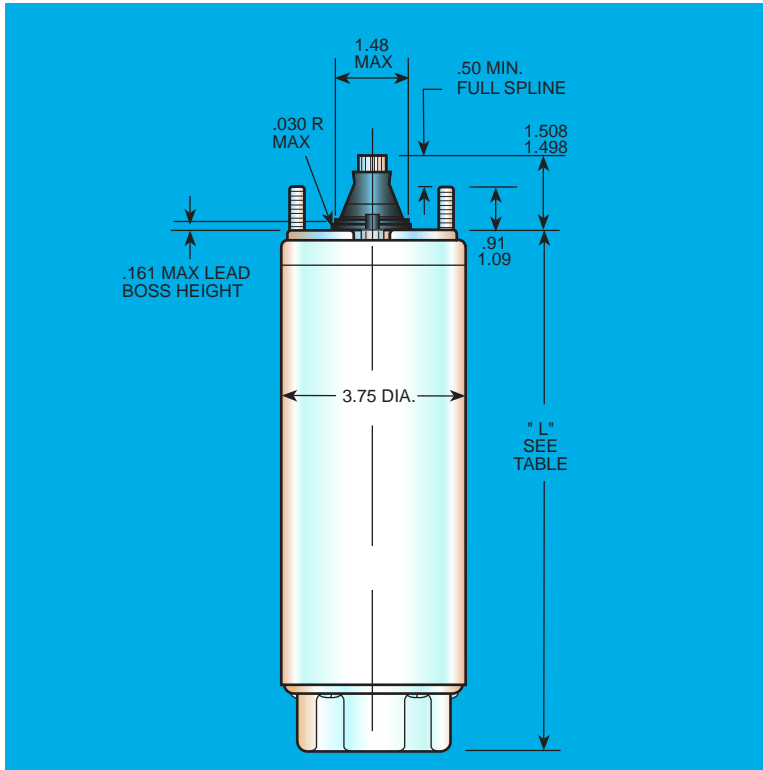
### SPECIAL FEATURES

- **Ni-Resist:** Special construction option for some salt water and high pH applications.
- **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. Consult Factory 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.**

# 4" HIGH THRUST SUBMERSIBLE MOTORS

## DIMENSIONS



## AVAILABILITY

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

Hp	kW	"L" Dimension ins	Shipping Weight	
			lbs	kg
3	2.2	22.2	49	22.3
5	3.7	28.2	64	29.1

### Three Phase (Special control required)

Hp	kW	"L" Dimension ins	Shipping Weight	
			lbs	kg
3	2.2	19.2	38	17.3
5	3.7	22.2	49	22.3
7 1/2	5.6	28.2	64	29.1
10	7.5	43.9	120	54.4

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

## CONSTRUCTION MATERIALS

### Component

### Environment Type

Component	Environment Type		
	Standard Water Well	Saltwater (Ni-Resist) ③	Chemical (316 STNLS) ③
1. Castings	303S.S. Over Iron	Ni-Resist Type 1B	316S.S.
2. Stator Shell	301S.S.	316S.S.	316S.S.
3. Stator Ends	Low Carbon Steel	316S.S.	316S.S.
4. Shaft Extension	17-4S.S. on 5-10 Hp; 303S.S. on 3 Hp	17-4S.S.-All	17-4S.S.-All
5. Fasteners	300 Series S.S.	316S.S.	316S.S.
6. Seal Cover	Acetal	316S.S.	316S.S.
7. Seal	Nitrile Rubber Lip Seal	Viton, Carbon, Ceramic Face Seal	Viton, Carbon, Ceramic Face Seal
8. Diaphragm	Nitrile Rubber	Type 200 Hydrin	Type 200 Hydrin
9. Diaphragm Plate	304S.S.	304S.S.	304S.S.
10. Diaphragm Spring	302S.S.	302S.S.	302S.S.
11. Diaphragm Cover	304S.S.	316S.S.	316S.S.
12. Slinger	Nitrile Rubber	Nitrile Rubber	Nitrile Rubber
13. Lead Wire (or Cable)	XLPE ①	②	②
14. Lead Potting	Epoxy	Epoxy ②	Epoxy ②
15. Lead Jam Nut	303S.S.	316S.S. ②	316S.S. ②
16. Filter	Delrin & Polyester	316 S.S.Plug	316 S.S.Plug

① Removable type, factory-installed in 60 Hz and dual frequency rated water well motors. Consult catalog page 4-10 for additional leads.

② Ordered separately

③ Not available in 10 Hp

Specifications subject to change without notice. Contact F.E. if current material types are required for bid specifications.



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