

# 4" HIGH THRUST SUBMERSIBLE MOTORS

**Single-Phase 2.2 to 3.7 kw & Three-Phase 2.2 to 7.5 kw**

## Application Data

These motors are built for dependable operation in 4" diameter or larger water wells.

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

## Special Features

- 316 Stainless Steel: Special construction option for acid, low pH, and seawater applications
- Hi Temp 75C: Special construction for secondary oil recovery wells, geothermal, or other applications with high ambient temperatures. Consult Factory for construction details.

## Basic Features

- Single-phase: 230V 50Hz
- Three-phase: 380-415V 50Hz
- Corrosion-Resistant All Stainless Steel exterior Construction
- Stainless Steel Splined Shaft
- Hermetically-Sealed Windings
- Anti-Track Self-Healing Resin System
- Water Lubricated Bearings
- Filter Check Valve
- Kingsbury-type Thrust Bearing Rated for 1500 lbs. Downthrust
- Pressure Equalizing Diaphragm
- Built-in Lightning Arrestors (single-phase)
- Removable Water-Bloc™ Lead
- NEMA Mounting Dimensions
- Temperature and time rating continuous in 30°C (86 °F) water at 7.6cm/sec (1/4 ft./sec) flow past motor
- Rotation: single-phase – CCW;  
Three-phase – electrically reversible

## Control Boxes

- Single Phase: 230V 3 wire
- Franklin's single-phase submersible Control Boxes are suitable for outdoor mounting with operation over temperature ranges of -10°C (+14°F) to 50°C (+122°F)
- Start and run winding overloads protect the motor from failure due to abnormal operating conditions

**WARNING:** 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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# Availability

## SINGLE-PHASE

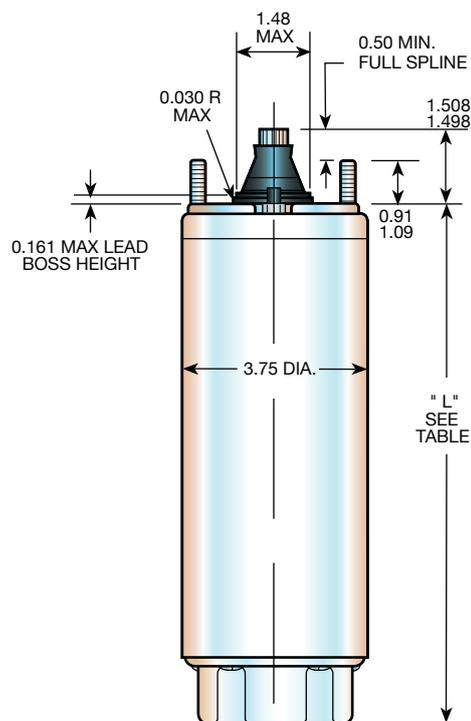
Capacitor start, capacitor run (Control Box) required<sup>②</sup>

HP	KW	"L" Dimension mm	Shipping Weight Kgs
3	2.2	564	25.0
5	3.7	716	31.8

## THREE-PHASE

(Special control required)

HP	KW	"L" Dimension mm	Shipping Weight Kgs
3	2.2	487	19.1
4	3	422	24
5	3.7	564	25.0
5.5	4	583	22
7 1/2	5.5	716	31.8
10	7.5	1115	34.1



# Construction Materials

Components	Standard Materials	316 SS
Casting	304 SS Over Iron	316 SS
Stator Shell	301 SS	316 SS
Stator Ends	Low Carbon Steel	316 SS
Shaft Extension	17-4 SS on 5-10 Hp; 303 SS on 3 Hp	17-4 SS-All
Fasteners	300 Series SS	316 SS
Seal Cover	Acetal	316 SS
Seal	Nitrile Rubber Lip Seal	Viton, Carbon, Ceramic Face Seal
Diaphragm	Nitrile Rubber	Type 200 Hydrin
Diaphragm Plate	304 SS	304 SS
Diaphragm Spring	302 SS	302 SS
Diaphragm Cover	304 SS	316 SS
Slinger	Nitrile Rubber	Nitrile Rubber
Lead Wire (or Cable)	KTW/VDE Flat <sup>①</sup>	KTW/VDE Flat <sup>①</sup>
Lead Potting	Epoxy	Epoxy
Lead Jam Nut	303 SS	316 SS
Filter	Delrin & Polyester	316 SS Plug

① Leads – All High Thrust motors 2.2 to 7.5 kW - 2.5M leads

② Franklin Electric Control Box required for warranty cover Single Phase products comply with IEC/CSIPR14

③ Specifications subject to change without notice. Contact Franklin Electric if material types are required for bid specifications.



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