

A complete line of single-phase control boxes is available from Franklin Electric.

### ***SUBTROL-PLUS® OVERLOAD OPTION FOR THREE-PHASE MOTORS***

A field proven and contractor friendly premium proven motor protection system. It protects the motor against overload, underload, overheating and rapid cycling. It also extends the motor warranty to a full three years. The motor must be manufactured with a Subtrol-Plus® heat sensor.



**MADE IN THE U.S.A.**

## **6" ENCAPSULATED SUBMERSIBLE MOTORS**

5 through 15 horsepower single-phase.

5 through 60 horsepower three-phase.

200 to 575 volts-60 and 50 hertz.

### **APPLICATION DATA**

These motors are built for dependable operation in 6" diameter or larger water wells. Temperature and time ratings are continuous in 86° F (30° C) water at 1/2 ft./sec. flow past motor. Rotation: single-phase, CCW facing shaft end; three-phase, electrically reversible.

### **BASIC FEATURES**

- Full 3450 RPM design point
- Maximum temperature winding wire NEMA class 200
- Anti-track self-healing resin system
- Hermetically-sealed windings
- Removable Water-Bloc™ lead
- Double flange design
- Stainless steel shell
- Stainless steel splined shaft
- Kingsbury-type water lubricated thrust bearing
- Pressure equalizing diaphragm
- Sand slinger
- 3-lead & 6-lead (Wye Delta) configurations for 3-phase
- Copper bar rotor

### **SPECIAL FEATURES**

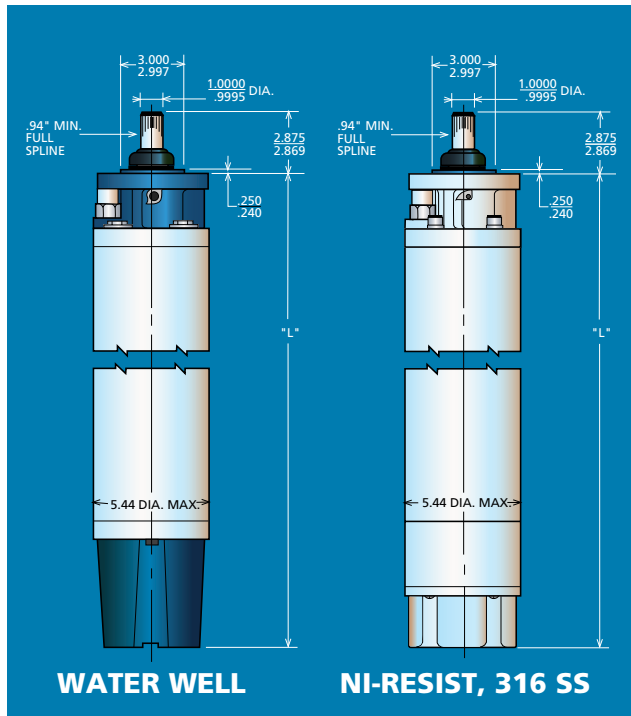
- **Ni-Resist:** Special construction option for some Salt Water and high pH applications. All Ni-Resist motors include a Subtrol-Plus heat sensor.
- **316 Stainless Steel:** Special construction option for Acid, low pH, and Seawater applications. All 316 SS motors include a Subtrol-Plus heat sensor.
- **Sand Fighter™** models available for sandy wells.
- Mining And Offshore Application Motors available with flat jacketed nitrile lead and Sand Fighter™ sealing system, consult factory.



**Franklin Electric**

# 6" Submersible Motors

## DIMENSIONS



## AVAILABILITY<sup>①</sup>

**Single-Phase** Capacitor start, capacitor run (control box required)

HP	KW	WATER WELL "L" DIM		NI-RESIST 316 SS "L" DIM		316 SS SHIPPING WEIGHT	
		INS	CM	INS	CM	LBS	KGS
5	3.7	25.4	64.6	25.0	63.6	112	51
7½	5.5	28.0	71.1	27.6	70.1	125	57
10	7.5	30.6	77.7	30.2	76.6	143	65
15	11.0	33.1	84.2	32.7	83.1	156	71

### Three-Phase

5	3.7	22.9	58.1	22.5	57.1	103	47
7½	5.5	24.2	61.4	23.8	60.4	110	50
10	7.5	25.4	64.6	25.0	63.6	118	54
15	11.0	28.0	71.1	27.6	70.1	131	60
20	15.0	30.6	77.6	30.2	76.6	147	67
25	18.5	33.1	84.2	32.7	83.1	158	72
30	22.0	35.7	90.7	35.3	89.6	176	80
40	30.0	40.8	103.7	40.4	102.6	206	94
50	37.0	55.3	140.5	55.7	141.5	304	138
60	45.0	61.3	155.7	61.7	156.8	334	152

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

## CONSTRUCTION MATERIALS

Component	Environment Type		
	Standard Water Well	Ni-Resist	316 SS
Castings	Gray Iron	Ni-Resist Type 1B	316 SS
Stator Shell	301 SS	316 SS	316 SS
Stator Ends	Low Carbon Steel	316 SS	316 SS
Shaft Extension	303 SS, Except 17-4 SS On 40-60hp	17-4 SS	17-4 SS
Fasteners	300 & 400 Series SS	316 SS	316 SS
Seal Cover	304 SS & Sintered Bronze	316 SS	316 SS
Seal	Carbon/Ceramic Face	Sand Fighter™ Seal System	Sand Fighter™ Seal System
Diaphragm	Nitrile Rubber	Nitrile Rubber	Nitrile Rubber
Diaphragm Plate	304 SS	316 SS	316 SS
Diaphragm Spring	302 SS	17-7 SS	17-7 SS
Slinger	Nitrile Rubber	Type 100 Hydrin	Type 100 Hydrin
Lead Wire (or Cable)	Hypalon 75°C	Hypalon 75°C	Hypalon 75°C
Lead Potting	Epoxy	Epoxy	Epoxy
Filter	Delrin & Polyester	316 SS Plug	316 SS Plug
Insulation	Class F	Class F	Class F

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



**Franklin Electric**

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