



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 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.



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

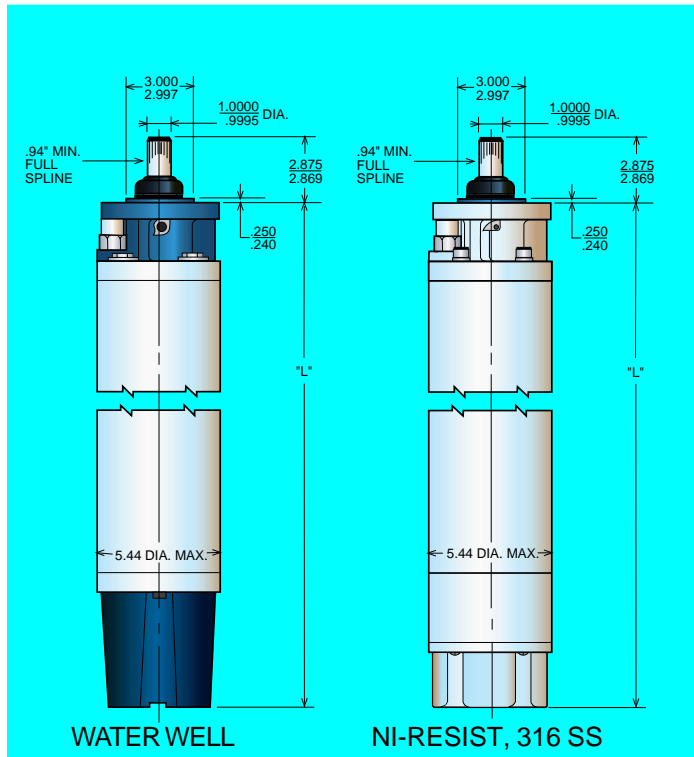
- Full 3450 RPM design point
- Maximum temperature winding wire NEMA class 200
- Anti-track self-healing resin system
- Hermetically-sealed windings
- Removable Water-Bloc™ lead
- Double flange design
- Stainless steel shell
- Stainless steel splined shaft
- Kingsbury-type water lubricated thrust bearing
- 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.

6-INCH SUBMERSIBLE MOTORS

DIMENSIONS



AVAILABILITY^①

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

hp	kw	Water Well "L" Dim.		Ni-Res, 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
7 ¹ / ₂	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
7 ¹ / ₂	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
1. Castings	Gray Iron	Ni-Resist Type 1B	316 SS
2. Stator Shell	301 SS	316 SS	316 SS
3. Stator Ends	Low Carbon Steel	316 SS	316 SS
4. Shaft Extension	303 SS, Except 17-4 SS On 40-60hp	17-4 SS	17-4 SS
5. Fasteners	300 & 400 Series SS	316 SS	316 SS
6. Seal Cover	304 SS & Sintered Bronze	316 SS	316 SS
7. Seal	Carbon/Ceramic Face	Sand Fighter™ Seal System	Sand Fighter™ Seal System
8. Diaphragm	Nitrile Rubber	Nitrile Rubber	Nitrile Rubber
9. Diaphragm Plate	304 SS	316 SS	316 SS
10. Diaphragm Spring	302 SS	17-7 SS	17-7 SS
11. Slinger	Nitrile Rubber	Type 100 Hydrin	Type 100 Hydrin
12. Lead Wire (or Cable)	Hypalon 75°C	Hypalon 75°C	Hypalon 75°C
13. Lead Potting	Epoxy	Epoxy	Epoxy
14. Filter	Delrin & Polyester	316 SS Plug	316 SS Plug
15. 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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