

6" ENCAPSULATED SUBMERSIBLE MOTORS

SINGLE-PHASE 5-15 HP AND THREE-PHASE 5-60 HP

200-575 VOLTS 60 AND 50 HZ



APPLICATIONS

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

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
- Over-molded lead for cable resilience.
- Stainless steel shell
- Kingsbury-type water lubricated thrust bearing
- Pressure-equalizing diapragm
- Sand slinger
- 3-lead and 6-lead (Wye Delta) configurations for 3-phase
- Copper bar rotor
- NSF/ANSI 61 Certified

SPECIAL FEATURES

- **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 include SubTrol-Plus™ heat sensor on 40, 50, and 60 hp models.

SUBMONITOR™ OVERLOAD OPTION FOR THREE-PHASE MOTORS

A field proven and contractor friendly premium motor protection system. It protects the motor against overload, underload, excessive winding temperature, 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.

*Contact factory for warranty details.

CLASSIFIED UL
WATER QUALITY
MECHANICAL DEVICE
NSF/ANSI 61 & 372
COLD WATER 6R21

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.

Franklin Electric

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AVAILABILITY

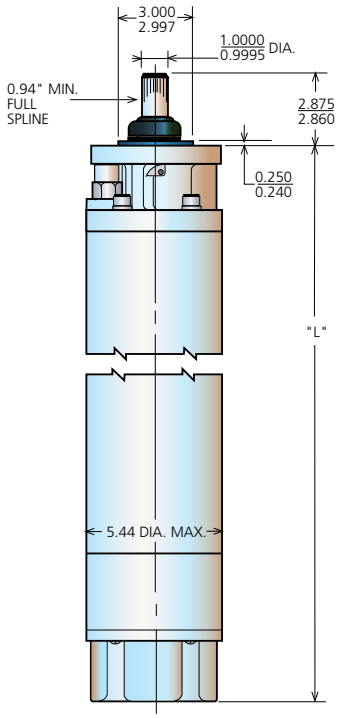
Single-Phase Capacitor start, Capacitor run (Control box required)

HP	KW	"L" Dim		316 SS "L" Dim		Shipping Weight	
		IN	CM	IN	CM	LBS	KG
5	3.7	25.4	64.6	25.0	63.6	112	51
7.5	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

HP	KW	"L" Dim		316 SS "L" Dim		Shipping Weight	
		IN	CM	IN	CM	LBS	KG
5	3.7	22.9	58.1	22.5	57.1	103	47
7.5	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	55.3	140.5	54.9	139.4	300	136
60	45	61.3	155.7	60.9	152.1	330	150

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



CONSTRUCTION MATERIALS

Component	Construction Type	
	Sand Fighter	Corrosion Resistant (316 SS)
UL Insulation Class Rating	Class F	Class F
Motor Ambient Temp. Rating	86 °F/30 °C	86 °F/30 °C
Stator Resin Type	Standard	Standard
Motor Fill Solution (Water Soluble/Non-Toxic)	FES91	FES91
Top End Bell and Thrust Housing	Epoxy-coated Gray Iron	316 SS
Stator Shell	300 Series SS	316 SS
Stator Ends	Carbon Steel	316 SS
Shaft Extension	300 Series SS	17-4 SS
Bushing	316 SS	316 SS
Bushing Retainer	300 Series SS	316 SS
Shaft Mechanical Seal	Sand Fighter Seal System	Sand Fighter Seal System
Mechanical Seal/Rubber Components	Nitrile	Nitrile
Diaphragm Material		
Diaphragm Plate	300 Series SS	316 SS
Diaphragm Spring	300 Series SS	25-6 MO SS
Shaft Slinger	Nitrile	Nitrile
Lead Wire	Overmolded	Overmolded
Lead Potting	Epoxy	Epoxy
Lead Jam Nut	Brass	316 SS
Thrust Bearing Rating (86°F/30°C)	3500 lbs (7.5-30 hp) 6000 lbs (40-60 hp)	3500 lbs (7.5-30 hp) 6000 lbs (40-60 hp)
Method Of Connecting System Ground to Motor	Ground wire in power lead connector	Ground wire in power lead connector

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