

4" HIGH THRUST SUBMERSIBLE MOTORS

Single-Phase 3 & 5 hp & Three-Phase 3-10 hp

Motors

Drives

Controls

Protection

Application Data:

These motors are built for superior dependability in 4" diameter or larger water wells. Temperature and time rating continuous in 86 °F (30 °C) water at 1/4 ft/sec flow past motor. Rotation: single-phase, CCW facing shaft end; three-phase, electrically reversible.

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

Basic Features:

- Single-phase Voltage 230 V 60 Hz, 220 V 50 Hz
- Three-phase Voltages 200 V, 230 V, 380 V, 575 V 60 Hz, 460/380 V 60/50 Hz
- 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
- Built-in Lightning Arrestors (single-phase)
- Removable Water-Bloc™ Lead installed in 60 Hz and dual frequency rated water well motors. Consult factory for additional leads.
- NEMA Pump Mounting Dimensions
- UL 778 Recognized (North American Voltages)
- CSA C22.2 #108 Certified
- Sand Fighter Slinger

Special Features:

- **316 Stainless Steel:** Special construction option for acid, low pH, and saline applications.
- **Oil Stripper:** Special construction option for secondary oil recovery wells, geothermal, or other applications with high ambient temperatures. Consult factory for details.
- **World Wide Adaptability:** All standard voltage and Hertz ratings are offered. Contact Franklin Electric for availability.

Control Boxes:

- Franklin's single-phase submersible Control Boxes are suitable for outdoor mounting with operation over temperature ranges of +14 °F (-10 °C) to +122 °F (50 °C).
- 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.

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.



Availability

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

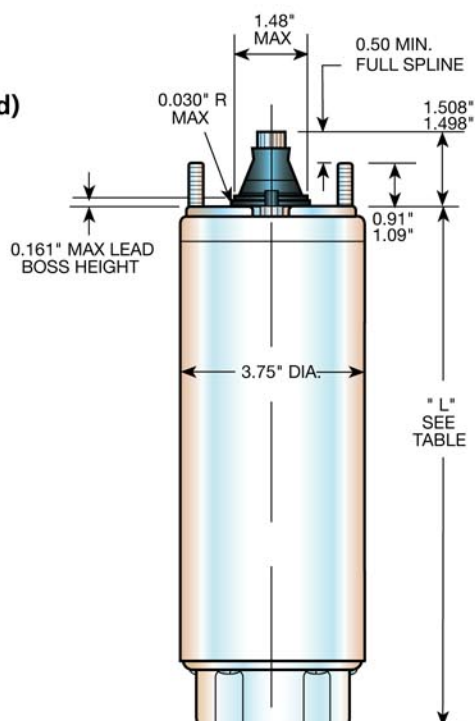
HP	KW	"L" DIM INS	SHIPPING WEIGHT	
			LBS	KGS
3	2.2	23.2	56	25.4
5	3.7	29.2	71	32.2

Three-Phase (Special control required)

HP	KW	"L" DIM INS	SHIPPING WEIGHT	
			LBS	KGS
3	2.2	20.2	44	20.0
5	3.7	23.2	56	25.4
7.5	5.5	29.2	71	32.2
10	7.5	32.9	77	34.9

60 Hz - 3,450 rpm

50 Hz - 2,875 rpm



Construction Materials

Component	Environment Type		
	Standard Water Well	Chemical (316 STNLS)	Oil Stripper
1 Top Casting	303 SS	316 SS	316 SS
2 Bottom Casting	303 SS Over Iron	316 SS	316 SS
3 Stator Shell	301 SS	316 SS	316 SS
4 Stator Ends	Low Carbon Steel	316 SS	316 SS
5 Shaft Extension	17-4 SS	17-4 SS	17-4 SS
6 Fasteners	300 Series SS	316 SS	316 SS
7 Seal Cover	Acetal	316 SS	316 SS
8 Seal	Nitrile Rupper Lip Seal	Sand Fighter™ SiC Mech Seal	Sand Fighter™ Viton
9 Diaphragm	Nitrile Rubber	Nitrile Rubber	Viton
10 Diaphragm Cup	304 SS	316 SS	316 SS
11 Diaphragm Spring	316 SS	316 SS	316 SS
12 Diaphragm Cover	316 SS	316 SS	316 SS
13 Slinger	Nitrile Rubber	Nitrile Rubber	Viton
14 Lead Wire (or Cable)	XLPE ^①	XLPE ^①	XLPE ^①
15 Lead Potting	Epoxy	Epoxy	Epoxy
16 Lead Clamp	316 SS	316 SS	316 SS
17 Filter	Delrin & Polyester	316 SS Plug	316 SS Plug

^① Removable type leads installed. Consult Submersible Service Hotline at 800.348.2420 for information regarding replacement leads.

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

4" Submersible Motors Super Stainless



Applications

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

Basic Features

- Corrosion-resistant stainless steel exterior
- Stainless steel splined shaft
- Hermetically-sealed windings
- StatorShield™ resin system
- Filter check valve
- Water lubrication
- Kingsbury-type thrust bearing
- Pressure-equalizing diaphragm
- Built-in lightning arrestors (All single-phase; 200 & 300 V three-phase)
- Removable water bloc lead
- Franklin-manufactured control boxes available for single-phase motors
- UL 778 recognized (North American voltages)
- CSA certified
- ANSI/NSF 61 certified
- Industry standard NEMA mounting dimensions

Special Features

- Flow inducer sleeve not required in water up to 86 °F (30 °C) for motors through 2 hp.
- Two-wire motors are split-phase designs with integral starting components and do not require a control box. They feature Franklin's patented 2-wire BIAC starting switch which provides Reverse Impact Torque to aid starting in adverse environments and prevents extreme fast cycling (e.g. water logged tank).
- Three-wire motors through 1 hp use Franklin's exclusive three-wire QD (Quick Disconnect) Control Box with the patented QD Relay. This relay provides the ultimate in operational life.
- Single-phase motors can be used with Pumptec products to protect against dry-run and other installation conditions that can damage motors and/or pumps. See Single-phase Protection Devices for details.

Constant Pressure Options

- Use Franklin's MonoDrive controller with 1½ hp three-wire single-phase motors to provide constant water pressure.
- Three-phase motors can be used with SubDrive controllers to provide constant water pressure.

Pollution Recovery Option

- Pollution Recovery motors are equipped for use in monitoring and recovery wells in which hydrocarbons and other chemicals may be present.
- Special Viton® rubber parts and other chemical resistant materials as listed in Construction Materials chart.

4" Submersible Motors Super Stainless

4-Inch Super Stainless Motor Specifications

Hz	Ph	Hp Range	kW Range	Poles	RPM	Max. Ambient Temp.	Duty Rating
60	2-Wire	0.3 - 1.5	0.25 - 1.1	2	3450	86 °F / 30 °C	Continuous
50	2-Wire	0.5 - 1.5	0.37 - 1.1	2	2875	86 °F / 30 °C	Continuous
60	3-Wire	0.3 - 3	0.25 - 2.2	2	3450	86 °F / 30 °C	Continuous*
50	3-Wire	0.3 - 3	0.25 - 2.2	2	2875	86 °F / 30 °C	Continuous*
60	Three-Phase	0.5 - 3	0.37 - 2.2	2	3450	86 °F / 30 °C	Continuous*
50	Three-Phase	0.5 - 3	0.37 - 2.2	2	2875	86 °F / 30 °C	Continuous*

4-Inch Pollution Recovery Motor Specifications

Hz	Ph	Hp Range	kW Range	Poles	RPM	Max. Ambient Temp.	Duty Rating
60	2-Wire	0.3 - 1.5	0.25 - 1.1	2	3450	86 °F / 30 °C	Continuous
50	2-Wire	0.5 - 1.5	0.37 - 1.1	2	2875	86 °F / 30 °C	Continuous
60	3-Wire	0.3 - 2	0.25 - 1.5	2	3450	86 °F / 30 °C	Continuous*
50	3-Wire	0.3 - 2	0.25 - 1.5	2	2875	86 °F / 30 °C	Continuous*
60	Three-Phase	0.5 - 2	0.37 - 1.5	2	3450	86 °F / 30 °C	Continuous*
50	Three-Phase	0.5 - 2	0.37 - 1.5	2	2875	86 °F / 30 °C	Continuous*

* 3 hp motors require 0.25 ft/sec flow past motor.

4-Inch Construction Materials

Component	Construction Type	
	Standard Water Well	Pollution Recovery
Castings	304 SS over Iron	304 SS over Iron
Stator Shell	301 SS	301 SS
Shaft Extension	17-4 SS or 303 SS	303 SS
Fasteners	305 SS or 302 SS	316 SS
Seal Cover	Acetal	Tefzel®
Seal	Nitrile Rubber Lip	Viton®
Diaphragm	Nitrile Rubber	Viton®
Slinger	Nitrile Rubber	Viton®
Lead Wire (or Cable)	XLPE	Lead not furnished with motor
Lead Potting	Epoxy	Lead not furnished with motor
Lead Jam Nut	303 SS	Lead not furnished with motor

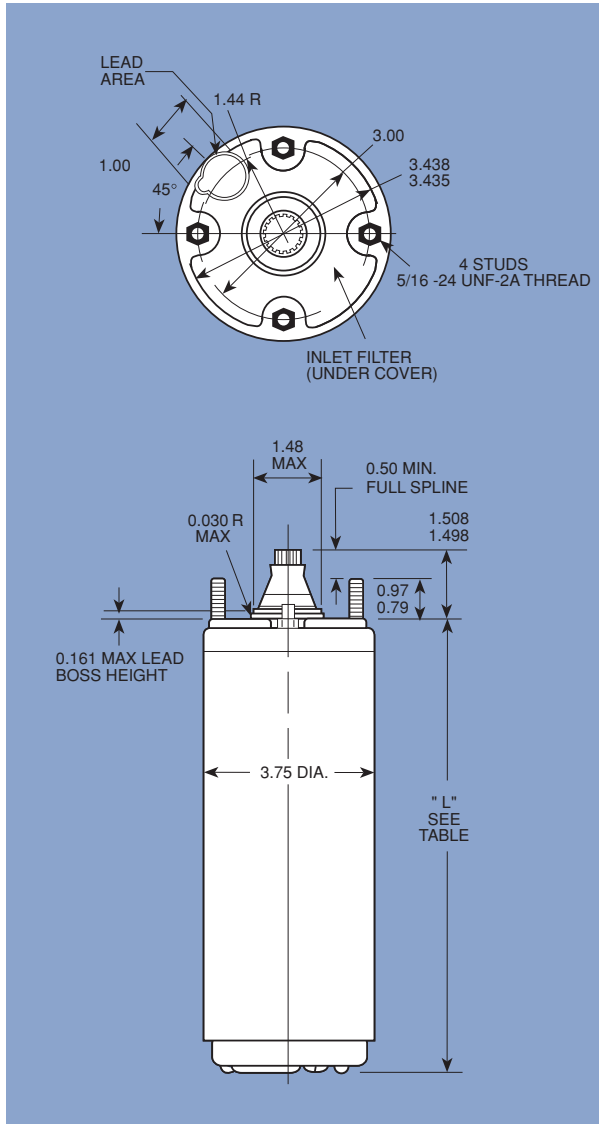
Specifications subject to change without notice. Contact Franklin Electric if current material types are required for bid specifications.

Viton® is a registered trademark of DuPont Dow Elastomers.

Tefzel® is a registered trademark of E.I. du Pont Nemours and Company.

4" Submersible Motors Super Stainless

4-Inch Dimensions and Weights



Single-Phase Motors - 2-wire

HP	KW	"L" (inches)	SHIPPING WEIGHT		MOTOR CARTON SIZE (in inches)
			LBS	KG	
1/3	0.25	8.78	16	7.3	4 x 4.375 x 16
0.5	0.37	9.53	18	8.2	4 x 4.375 x 16
0.75	0.55	10.66	21	9.5	4 x 4.375 x 19
1	0.75	11.75	24	10.9	4 x 4.375 x 19
1.5	1.1	15.12	31	14.1	4 x 4.375 x 21

Single-Phase Motors - 3-wire

HP	KW	"L" (inches)	SHIPPING WEIGHT		MOTOR CARTON SIZE (in inches)
			LBS	KG	
1/3	0.25	8.78	17	7.7	4 x 4.375 x 16
0.5	0.37	9.53	19	8.6	4 x 4.375 x 16
0.75	0.55	10.66	21	9.5	4 x 4.375 x 19
1	0.75	11.75	24	10.9	4 x 4.375 x 19
1.5	1.1	13.62	28	12.7	4 x 4.375 x 21
2	1.5	15.12	33	15.0	5 x 4.375 x 21
3	2.2	19.06	41	18.6	6 x 4.375 x 21

Three-Phase Motors

HP	KW	"L" (inches)	SHIPPING WEIGHT		MOTOR CARTON SIZE (in inches)
			LBS	KG	
0.5	0.37	9.53	18	8.2	4 x 4.375 x 16
0.75	0.55	10.66	21	9.5	4 x 4.375 x 16
1	0.75	11.75	24	10.9	4 x 4.375 x 19
1.5	1.1	11.75	24	10.9	4 x 4.375 x 19
2	1.5	13.62	28	12.7	4 x 4.375 x 21
3	2.2	16.06	35	15.9	4 x 4.375 x 21

All dimensions listed above are for models supplied with lead. Consult factory for other models.

4" Submersible Motors Super Stainless

4-Inch 2-wire Models

HP (kW)	DESCRIPTION						MODEL	STOCK STATUS	DOWNWARD THRUST RATING
	W/PH	CONSTRUCTION	VOLTS	HZ	S.F.	LEAD IN MTR			
1/3 hp 0.25 kW	2-WIRE	WATER WELL	115	60	1.75		244 502 01--S		300 LBS (1500 N)
			115	60	1.75	YES	244 502 90--S	YES	
			230	60	1.75		244 503 01--S		
			230	60	1.75	YES	244 503 90--S	YES	
		POLLUTION RECOVERY	115	60	1.75		244 502 09--S		
			230	60	1.75		244 503 09--S		
1/2 hp 0.37 kW	2-WIRE	WATER WELL	115	60	1.60		244 504 01--S		300 LBS (1500 N)
			115	60	1.60	YES	244 504 90--S	YES	
			220	50	1.00		244 555 01--S		
			230	60	1.60		244 505 01--S		
			230	60	1.60	YES	244 505 90--S	YES	
		POLLUTION RECOVERY	115	60	1.60		244 504 09--S		
3/4 hp 0.55 kW	2-WIRE	WATER WELL	220	50	1.00		244 557 01--S		300 LBS (1500 N)
			230	60	1.50		244 507 01--S		
			230	60	1.50	YES	244 507 90--S	YES	
		POLLUTION RECOVERY	230	60	1.50		244 507 09--S		
1 hp 0.75 kW	2-WIRE	WATER WELL	220	50	1.00		244 558 12--S		650 LBS (3000 N)
			230	60	1.40		244 508 12--S		
			230	60	1.40	YES	244 508 90--S	YES	
		POLLUTION RECOVERY	230	60	1.40		244 508 23--S		
1.5 hp 1.1 kW	2-WIRE	WATER WELL	220	50	1.00		244 359 12--S		650 LBS (3000 N)
			230	60	1.30		244 309 12--S		
			230	60	1.30	YES	244 309 90--S	YES	
		POLLUTION RECOVERY	230	60	1.30		244 309 23--S		

NOTES:

1. Pack Designation: --S = Single Pack, available in any quantity. All 3 hp motors are single-packed.
2. Contact factory for lead time for non-stocked items.
3. Pallet packs available but not shown. Please contact customer service for availability.

4" Submersible Motors Super Stainless

4-Inch 3-wire Models

HP (KW)	DESCRIPTION						MOTOR MODEL	CONTROL BOX MODEL	STOCK STATUS	DOWNWARD THRUST RATING
	W/PH	CONSTRUCTION	VOLTS	HZ	S.F.	LEAD IN MTR				
1/3 hp 0.25 kW	3-WIRE	WATER WELL	115	60	1.75		214 502 44--S	280 102 49		300 LBS (1500 N)
			115	60	1.75	YES	214 502 90--S	280 102 49	YES	
			220	50	1.00		214 553 41--S	280 353 01		
			230	60	1.75		214 503 44--S	280 103 49		
			230	60	1.75	YES	214 503 90--S	280 103 49	YES	
		POLLUTION RECOVERY	115	60	1.75		214 502 49--S	280 102 49		
			230	60	1.75		214 503 49--S	280 103 49		
1/2 hp 0.37 kW	3-WIRE	WATER WELL	115	60	1.60		214 504 44--S	280 104 49		300 LBS (1500 N)
			115	60	1.60	YES	214 504 90--S	280 104 49	YES	
			220	50	1.00		214 555 41--S	280 355 01	YES	
			230	60	1.60		214 505 44--S	280 105 49		
			230	60	1.60	YES	214 505 90--S	280 105 49	YES	
		POLLUTION RECOVERY	115	60	1.60		214 504 49--S	280 104 49		
			230	60	1.60		214 505 49--S	280 105 49		
3/4 hp 0.55 kW	3-WIRE	WATER WELL	220	50	1.00		214 557 41--S	280 357 01	YES	300 LBS (1500 N)
			230	60	1.50		214 507 44--S	280 107 49		
			230	60	1.50	YES	214 507 90--S	280 107 49	YES	
		POLLUTION RECOVERY	230	60	1.50		214 507 49--S	280 107 49		
		SERIES 600M	230	60	1.50	YES	214 507 0600S		YES	
1 hp 0.75 kW	3-WIRE	WATER WELL	220	50	1.00		214 558 19--S	280 358 01	YES	650 LBS (3000 N)
			230	60	1.40		214 508 12--S	280 108 49		
			230	60	1.40	YES	214 508 90--S	280 108 49	YES	
		POLLUTION RECOVERY	230	60	1.40		214 508 23--S	280 108 49		
		SERIES 600M	230	60	1.40	YES	214 508 0610S		YES	
1.5 hp 1.1 kW	3-WIRE	WATER WELL	220	50	1.00		224 350 19--S	282 350 81	YES	650 LBS (3000 N)
			230	60	1.30		224 300 19--S	282 300 81	YES	
			230	60	1.30	YES	224 300 92--S	282 300 81	YES	
		POLLUTION RECOVERY	230	60	1.30		224 300 23--S	282 300 81		
		SERIES 600M	230	60	1.30	YES	224 300 0610S		YES	
2 hp 1.5 kW	3-WIRE	WATER WELL	220	50	1.00		224 351 19--S	282 351 81	YES	650 LBS (3000 N)
			230	60	1.25		224 301 19--S	282 301 81	YES	
			230	60	1.25	YES	224 301 92--S	282 301 81	YES	
		POLLUTION RECOVERY	230	60	1.25		224 301 23--S	282 301 81		
		SERIES 600M	230	60	1.25	YES	224 301 0610S		YES	
3 hp 2.2 kW	3-WIRE	WATER WELL	220	50	1.00		224 352 25	282 352 81	YES	900 LBS (4000 N)
			230	60	1.15		224 302 25	282 302 81		
			230	60	1.15	YES	224 302 26	282 302 81	YES	
		SERIES 600M								
			230	60	1.15	YES	224 302 0620		YES	

NOTES:

1. Pack Designation: --S = Single Pack, available in any quantity. All 3 hp motors are single-packed.
2. Contact factory for lead time for non-stocked items.
3. Pallet packs available but not shown. Please contact customer service for availability.

4" Submersible Motors Super Stainless

4-Inch Three-Phase Models

HP (KW)	DESCRIPTION						MODEL	STOCK STATUS	DOWNWARD THRUST RATING
	W/PH	CONSTRUCTION	VOLTS	HZ	S.F.	LEAD IN MTR			
1/2 hp 0.37 kW	3-PHASE	WATER WELL	200	60	1.60		234 501 41--S		300 LBS (1500 N)
			200	60	1.60	YES	234 501 92--S		
			220	50	1.00		234 551 41--S		
			230	60	1.60		234 511 41--S		
			230	60	1.60	YES	234 511 92--S		
			380/415	50	1.00		234 561 31--S	YES	
			460	60	1.60		234 521 31--S		
			460	60	1.60	YES	234 521 94--S		
		POLLUTION RECOVERY	200	60	1.60		234 501 49--S		
			230	60	1.60		234 511 49--S		
			460	60	1.60		234 521 49--S		
3/4 hp 0.55 kW	3-PHASE	WATER WELL	200	60	1.50		234 502 41--S		300 LBS (1500 N)
			200	60	1.50	YES	234 502 92--S		
			220	50	1.00		234 552 41--S		
			230	60	1.50		234 512 41--S		
			230	60	1.50	YES	234 512 92--S		
			380/415	50	1.00		234 562 31--S	YES	
			460	60	1.50		234 522 31--S		
			460	60	1.50	YES	234 522 94--S		
		POLLUTION RECOVERY	200	60	1.50		234 502 49--S		
			230	60	1.50		234 512 49--S		
			460	60	1.50		234 522 49--S		
		SERIES 600M	230	60	1.50	YES	234 512 0600S	YES	
			460	60	1.50	YES	234 522 0600S		
1 hp 0.75 kW	3-PHASE	WATER WELL	200	60	1.40		234 503 19--S		650 LBS (3000 N)
			200	60	1.40	YES	234 503 92--S		
			220	50	1.00		234 553 41--S		
			230	60	1.40		234 513 19--S		
			230	60	1.40	YES	234 513 92--S	YES	
			380/415	50	1.00		234 563 31--S	YES	
			460	60	1.40		234 523 16--S		
			460	60	1.40	YES	234 523 94--S	YES	
		POLLUTION RECOVERY	200	60	1.40		234 503 23--S		
			230	60	1.40		234 513 23--S		
			460	60	1.40		234 523 23--S		
		SERIES 600M	230	60	1.40	YES	234 513 0610S	YES	
			460	60	1.40	YES	234 523 0610S		

4" Submersible Motors Super Stainless

4-Inch Three-Phase Models

HP (KW)	DESCRIPTION						MODEL	STOCK STATUS	DOWNWARD THRUST RATING
	W/PH	CONSTRUCTION	VOLTS	HZ	S.F.	LEAD IN MTR			
1.5 hp 1.1 kW	3-PHASE	WATER WELL	200	60	1.30		234 504 19--S		650 LBS (3000 N)
			200	60	1.30	YES	234 504 92--S	YES	
			220	50	1.00		234 554 19--S		
			230	60	1.30		234 514 19--S		
			230	60	1.30	YES	234 514 92--S	YES	
			460/380	60/50	1.30/1.00		234 524 16--S		
			460/380	60/50	1.30/1.00	YES	234 524 94--S	YES	
			575	60	1.30		234 534 16--S		
			575	60	1.30	YES	234 534 94--S	YES	
		POLLUTION RECOVERY	200	60	1.30		234 504 23--S		
			230	60	1.30		234 514 23--S		
			460/380	60/50	1.30/1.00		234 524 23--S		
		SERIES 600M	230	60	1.30	YES	234 514 0610	YES	
			460/380	60	1.30/1.00	YES	234 524 0610		
2 hp 1.5 kW	3-PHASE	WATER WELL	200	60	1.25		234 305 16--S		650 LBS (3000 N)
			200	60	1.25	YES	234 305 92--S	YES	
			220	50	1.00		234 355 19--S		
			230	60	1.25		234 315 16--S	YES	
			230	60	1.25	YES	234 315 92--S	YES	
			460/380	60/50	1.25/1.00		234 325 16--S	YES	
			460/380	60/50	1.25/1.00	YES	234 325 94--S	YES	
			575	60	1.25		234 335 16--S		
			575	60	1.25	YES	234 335 94--S	YES	
		POLLUTION RECOVERY	200	60	1.25		234 305 23--S		
			230	60	1.25		234 315 23--S		
			460/380	60/50	1.25/1.00		234 325 23--S		
		SERIES 600M	230	60	1.25	YES	234 315 0610	YES	
			460/380	60	1.25/1.00	YES	234 325 0610		
3 hp 2.2 kW	3-PHASE	WATER WELL	200	60	1.15		234 306 25		900 LBS (4000 N)
			200	60	1.15	YES	234 306 26	YES	
			220	50	1.00		234 356 25		
			230	60	1.15		234 316 25		
			230	60	1.15	YES	234 316 26	YES	
			380	60	1.15		234 346 25		
			380	60	1.15	YES	234 346 26	YES	
			460/380	60/50	1.15/1.00		234 326 25		
			460/380	60/50	1.15/1.00	YES	234 326 26	YES	
			575	60	1.15		234 336 25		
			575	60	1.15	YES	234 336 26	YES	
		SERIES 600M	230	60	1.15	YES	234 316 0620		
			460/380	60	1.15/1.00	YES	234 326 0620		

NOTES:

1. Pack Designation: --S = Single Pack, available in any quantity. All 3 hp motors are single-packed.
2. Contact factory for lead time for non-stocked items.
3. Pallet packs available but not shown. Please contact customer service for availability.

6" Submersible Motors Standard



Applications

These motors are built for dependable operation in 6" diameter or larger water wells.

Basic Features

- Double flanged NEMA mounting design
- Stainless steel splined shaft
- StatorShield™ Franklin's six feature encapsulation system
- High capacity Kingsbury type water lubricated thrust bearing
- Factory filled with Franklin's non-toxic water soluble fill solution
- Field replaceable lead using Franklin's exclusive Water Bloc™ technology
- Full 3450 rpm 60 Hz design point
- External sand slinger on shaft
- Mechanical face seal at shaft exit
- Copper bar rotor
- All models variable frequency drive (VFD) approved
- Single-phase models must be used with a Franklin Electric control box

Special Options

- Sand Fighter™ Models are equipped with:
 - Franklin's Exclusive Sand Fighter Sealing System for sand or other abrasives well water.
 - Franklin's Exclusive on winding SubTrol™ heat sensor for use with SubMonitor™.
- 316 Stainless Steel construction models come standard with:
 - Franklin's Exclusive Sand Fighter Sealing System for sand or other abrasives well water.
 - Franklin's Exclusive on winding SubTrol heat sensor for use with SubMonitor™.
- SubMonitor is a state-of-the-art electronic motor overload that is sold separately.
 - Mounts in the above ground panel requiring no additional wiring to the motor.
 - User friendly, field proven.
 - Protection monitors for balanced power, overload, underload, overheating, rapid cycling and more.
 - Can be used with or without a SubTrol heat sensor.
 - Supplies superior heat protection when manufactured with the SubTrol heat sensor.

Consult factory for other voltage, hertz and horsepower ratings not listed in this catalog.

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

6" Submersible Motors Standard

Standard 6-Inch Motor Specifications

Hz	Ph	Hp Range	kW Range	Poles	RPM	Max. Ambient Temp.	Duty Rating
60	1	5 - 15	3.7 - 11	2	3450	86 °F / 30 °C	Continuous at 0.5 ft/sec flow past motor
60	3	5 - 40	3.7 - 30	2	3450	86 °F / 30 °C	Continuous at 0.5 ft/sec flow past motor
60	3	50 - 60	37 - 45	2	3450	122 °F / 50 °C	Continuous at 0.5 ft/sec flow past motor
50	1	5 - 15	3.7 - 11	2	2875	86 °F / 30 °C	Continuous at 0.5 ft/sec flow past motor
50	3	5 - 40	3.7 - 30	2	2875	86 °F / 30 °C	Continuous at 0.5 ft/sec flow past motor
50	3	50 - 60	37 - 45	2	2875	122 °F / 50 °C	Continuous at 0.5 ft/sec flow past motor

6-Inch Construction Materials

Component	Construction Type		
	Standard Water Well	Sand Fighter™	Corrosion Resistant (316 SS)
UL Insulation Class Rating	Class F	Per Standard Water Well	Per Standard Water Well
Motor Ambient Temperature Rating	86 °F / 30 °C (5-40 hp) 122 °F / 50 °C (50-60 hp)	Per Standard Water Well	Per Standard Water Well
Stator Resin Type	FE Standard (5-40 hp) FE Hi-Temp (50-60 hp)	Per Standard Water Well	Per Standard Water Well
Motor Fill Solution (Water Soluble/Non-Toxic)	FES91	Per Standard Water Well	Per Standard Water Well
Top End Bell & Thrust Housing	Epoxy Coated Gray Iron	Per Standard Water Well	316 SS
On Winding SubTrol™ heat sensor	No (5-40 hp) Yes (50-60 hp)	Yes	Yes
Stator Shell	300 SS Series	Per Standard Water Well	316 SS
Stator Ends	Carbon Steel	Per Standard Water Well	316 SS
Shaft Extension	300 SS Series (5-30 hp) 17-4 SS (40-60 hp)	Per Standard Water Well	17-4 SS
Bushing	Bronze	Per Standard Water Well	316 SS
Bushing Retainer	300 SS Series	Per Standard Water Well	316 SS
Shaft Mechanical Seal	Carbon Ceramic Seal (5-40 hp) Sand Fighter™ Seal System (50-60 hp)	Sand Fighter Seal System	Sand Fighter Seal System
Mechanical Seal Rubber Components	Nitrile (5-40 hp) Viton® (50-60 hp)	Per Standard Water Well	Per Standard Water Well
Diaphragm Material	Nitrile (5-40 hp) Viton® (50-60 hp)	Per Standard Water Well	Per Standard Water Well
Diaphragm Plate	300 SS Series	Per Standard Water Well	316 SS
Diaphragm Spring	300 SS Series	Per Standard Water Well	25-6 MO SS
Shaft Slinger	Nitrile (5-40 hp) Viton® (50-60 hp)	Per Standard Water Well	Nitrile
Lead Wire	XLPE	Per Standard Water Well	Per Standard Water Well
Lead Potting	Epoxy	Per Standard Water Well	Per Standard Water Well
Lead Jam Nut	Brass	Per Standard Water Well	316 SS
Thrust Bearing Rating (86 °F / 30 °C)	3500 lbs (5-30 hp) 6000 lbs (40-60 hp)	Per Standard Water Well	Per Standard Water Well
Method Of Connecting System Ground To Motor	Ground Wire In Power Lead Connector	Per Standard Water Well	Per Standard Water Well

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

Viton® is a registered trademark of DuPont Dow Elastomers.

6" Submersible Motors Standard

6-Inch Dimensions and Weights

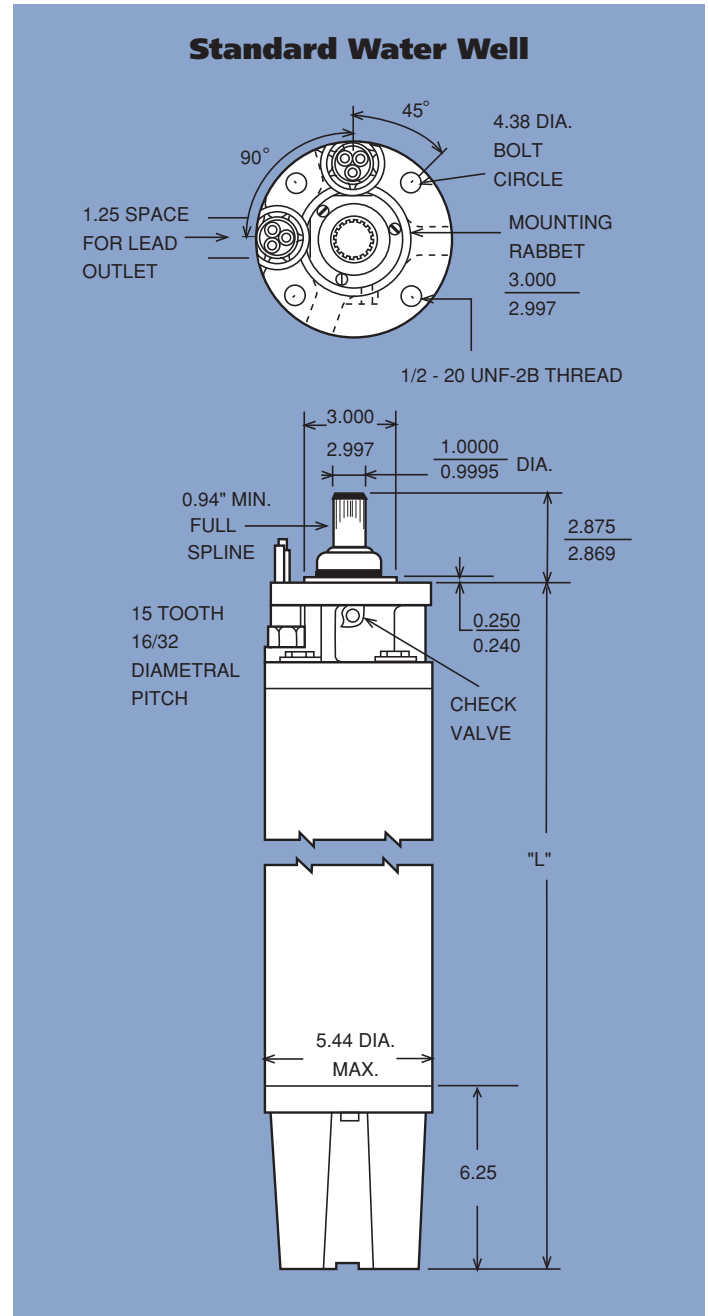
Standard Single-Phase Water Well

HP	KW	"L" (inches)	SHIPPING WEIGHT		MOTOR CARTON SIZE (in inches)
			LBS	KG	
5	3.7	25.4	110	50	7.50 x 10.75 x 34.50
7.5	5.5	28	123	56	7.50 x 10.75 x 34.50
10	7.5	30.6	141	64	7.50 x 10.75 x 37.00
15	11	33.1	154	70	7.50 x 10.75 x 42.25

Standard Three-Phase Water Well

HP	KW	"L" (inches)	SHIPPING WEIGHT		MOTOR CARTON SIZE (in inches)
			LBS	KG	
5	3.7	22.9	101	46	7.50 x 10.75 x 34.50
7.5	5.5	24.2	108	49	7.50 x 10.75 x 34.50
10	7.5	25.4	116	53	7.50 x 10.75 x 34.50
15	11	28.0	129	59	7.50 x 10.75 x 34.50
20	15	30.6	145	66	7.50 x 10.75 x 37.00
25	18.5	33.1	156	71	7.50 x 10.75 x 42.25
30	22	35.7	174	79	7.50 x 10.75 x 42.25
40	30	40.8	202	92	7.50 x 10.75 x 47.25
50	37	55.3	300	136	8.75 x 10.50 x 71.75
60	45	61.3	330	150	8.75 x 10.50 x 71.75

6-Lead Y-Δ models available. (Add 5 lbs to shipping weight.)



6" Submersible Motors Standard

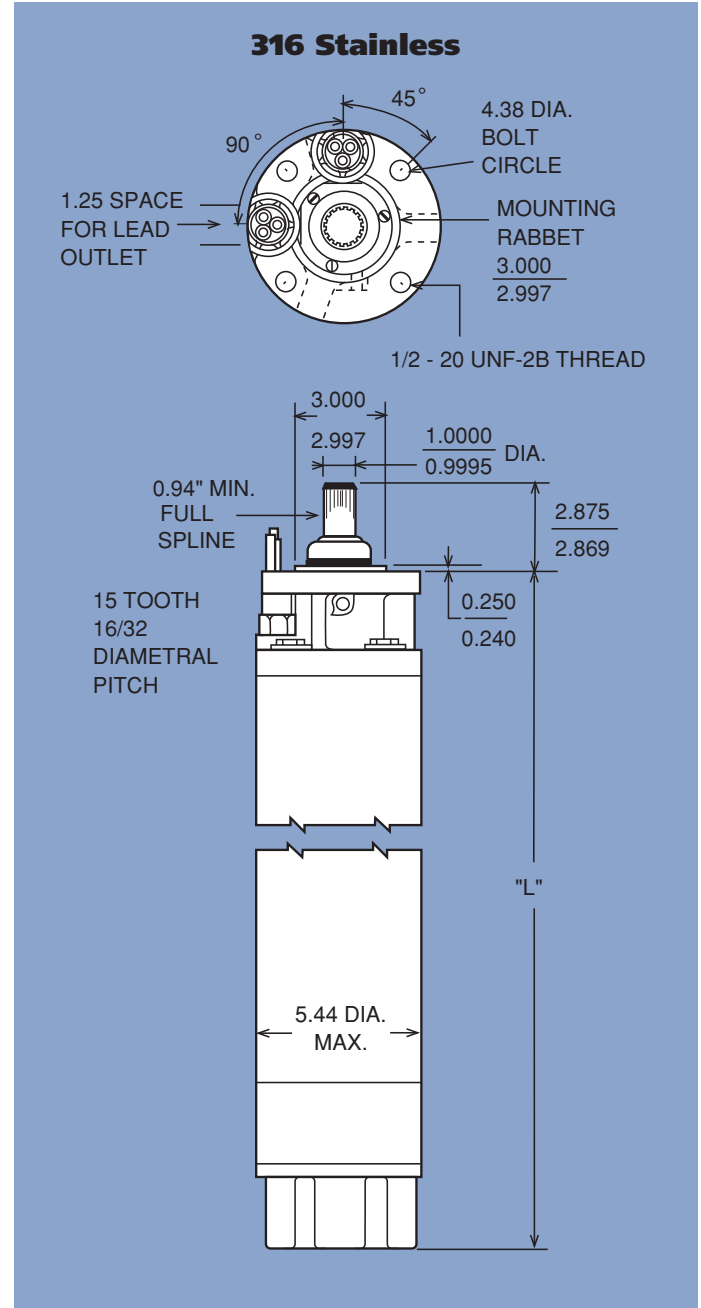
316 SS Shell Single-Phase 3-Lead

HP	KW	"L" (inches)	SHIPPING WEIGHT		MOTOR CARTON SIZE (in inches)
			LBS	KG	
5	3.7	25.4	110	50	7.50 x 10.75 x 34.50
7.5	5.5	28	123	56	7.50 x 10.75 x 34.50
10	7.5	30.6	141	64	7.50 x 10.75 x 37.00
15	11	33.1	154	70	7.50 x 10.75 x 42.25

316 SS Shell 3-Lead

HP	KW	"L" (inches)	SHIPPING WEIGHT		MOTOR CARTON SIZE (in inches)
			LBS	KG	
5	3.7	22.5	101	46	7.50 x 10.75 x 34.50
7.5	5.5	23.8	108	49	7.50 x 10.75 x 34.50
10	7.5	25.0	116	53	7.50 x 10.75 x 34.50
15	11	27.6	129	59	7.50 x 10.75 x 34.50
20	15	30.2	145	66	7.50 x 10.75 x 37.00
25	18.5	32.7	156	71	7.50 x 10.75 x 42.25
30	22	35.3	174	79	7.50 x 10.75 x 42.25
40	30	40.4	202	92	7.50 x 10.75 x 47.25
50	37	59.2	300	136	8.75 x 10.50 x 71.75
60	45	65.2	330	150	8.75 x 10.50 x 71.75

6-Lead Y-Δ models available. (Add 5 lbs to shipping weight.)



6" Submersible Motors Standard

6-Inch Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
5 hp 3.7 kW	WATER WELL	1P	230	60	Not Available	1.15	3	#10 w/GND	226 110 90	YES
		3P	200-208	60	Not Available	1.15	3	#10 w/GND	236 650 90	YES
		3P	220	50	Not Available	1.00	3	#10 w/GND	236 680 90	
		3P	220	50	Not Available	1.00	6-90°	#10 w/GND	236 670 90	
		3P	230	60	Not Available	1.15	3	#10 w/GND	236 600 90	YES
		3P	230	60	Not Available	1.15	6-90°	#10 w/GND	236 720 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 660 90	
		3P	380	60	Not Available	1.15	6-90°	#10 w/GND	236 780 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 690 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 610 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90°	#10 w/GND	236 710 90	
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 620 90	
	SAND FIGHTER	1P	230	60	Not Available	1.15	3	#10 w/GND	226 110 80	YES
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 650 81	YES
		3P	220	50	YES	1.00	3	#10 w/GND	236 680 81	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 670 81	
		3P	230	60	YES	1.15	3	#10 w/GND	236 600 81	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 720 81	
		3P	380	60	YES	1.15	3	#10 w/GND	236 660 81	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 780 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 690 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 610 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 710 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 620 81	YES
	316 SS	1P	230	60	Not Available	1.15	3	#10 w/GND	226 110 39	
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 650 40	
		3P	220	50	YES	1.00	3	#10 w/GND	236 680 40	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 670 40	
		3P	230	60	YES	1.15	3	#10 w/GND	236 600 40	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 720 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 660 40	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 780 40	
		3P	415	50	YES	1.15	3	#10 w/GND	236 690 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 610 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 710 40	
		3P	575	60	YES	1.15	3	#10 w/GND	236 620 40	

6" Submersible Motors Standard

6-Inch Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
7.5 hp 5.5 kW	WATER WELL	1P	230	60	Not Available	1.15	3	#10 w/GND	226 111 90	YES
		3P	200-208	60	Not Available	1.15	3	#10 w/GND	236 651 90	YES
		3P	220	50	Not Available	1.00	3	#10 w/GND	236 681 90	
		3P	220	50	Not Available	1.00	6-90°	#10 w/GND	236 671 90	
		3P	230	60	Not Available	1.15	3	#10 w/GND	236 601 90	YES
		3P	230	60	Not Available	1.15	6-90°	#10 w/GND	236 721 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 661 90	YES
		3P	380	60	Not Available	1.15	6-90°	#10 w/GND	236 781 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 691 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 611 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90°	#10 w/GND	236 711 90	YES
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 621 90	
	SAND FIGHTER	1P	230	60	Not Available	1.15	3	#10 w/GND	226 111 80	YES
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 651 81	YES
		3P	220	50	YES	1.00	3	#10 w/GND	236 681 81	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 671 81	
		3P	230	60	YES	1.15	3	#10 w/GND	236 601 81	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 721 81	
		3P	380	60	YES	1.15	3	#10 w/GND	236 661 81	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 781 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 691 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 611 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 711 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 621 81	YES
	316 SS	1P	230	60	Not Available	1.15	3	#10 w/GND	226 111 39	
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 651 40	
		3P	220	50	YES	1.00	3	#10 w/GND	236 681 40	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 671 40	
		3P	230	60	YES	1.15	3	#10 w/GND	236 601 40	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 721 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 661 40	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 781 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 691 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 611 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 711 40	
		3P	575	60	YES	1.15	3	#10 w/GND	236 621 40	

6" Submersible Motors Standard

6-Inch Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
10 hp 7.5 kW	WATER WELL	1P	230	60	Not Available	1.15	3	#10 w/GND	226 112 90	YES
		3P	200-208	60	Not Available	1.15	3	#10 w/GND	236 652 90	YES
		3P	220	50	Not Available	1.00	3	#10 w/GND	236 682 90	
		3P	220	50	Not Available	1.00	6-90°	#10 w/GND	236 672 90	
		3P	230	60	Not Available	1.15	3	#10 w/GND	236 602 90	YES
		3P	230	60	Not Available	1.15	6-90°	#10 w/GND	236 722 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 662 90	YES
		3P	380	60	Not Available	1.15	6-90°	#10 w/GND	236 782 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 692 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 612 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90°	#10 w/GND	236 712 90	YES
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 622 90	
	SAND FIGHTER	1P	230	60	Not Available	1.15	3	#10 w/GND	226 112 80	YES
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 652 81	YES
		3P	220	50	YES	1.00	3	#10 w/GND	236 682 81	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 672 81	
		3P	230	60	YES	1.15	3	#10 w/GND	236 602 81	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 722 81	
		3P	380	60	YES	1.15	3	#10 w/GND	236 662 81	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 782 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 692 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 612 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 712 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 622 81	YES
	316 SS	1P	230	60	Not Available	1.15	3	#10 w/GND	226 112 39	
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 652 40	
		3P	220	50	YES	1.00	3	#10 w/GND	236 682 40	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 672 40	
		3P	230	60	YES	1.15	3	#10 w/GND	236 602 40	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 722 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 662 40	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 782 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 692 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 612 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 712 40	
		3P	575	60	YES	1.15	3	#10 w/GND	236 622 40	

6" Submersible Motors Standard

6-Inch Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
15 hp 11 kW	WATER WELL	1P	230	60	Not Available	1.15	3	#10 w/GND	226 113 90	YES
		3P	200-208	60	Not Available	1.15	3	#10 w/GND	236 653 90	YES
		3P	220	50	Not Available	1.00	3	#10 w/GND	236 683 90	
		3P	220	50	Not Available	1.00	6-90°	#10 w/GND	236 673 90	
		3P	230	60	Not Available	1.15	3	#10 w/GND	236 603 90	YES
		3P	230	60	Not Available	1.15	6-90°	#10 w/GND	236 723 90	YES
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 663 90	YES
		3P	380	60	Not Available	1.15	6-90°	#10 w/GND	236 783 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 693 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 613 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90°	#10 w/GND	236 713 90	YES
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 623 90	
	SAND FIGHTER	1P	230	60	Not Available	1.15	3	#10 w/GND	226 113 80	YES
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 653 81	YES
		3P	220	50	YES	1.00	3	#10 w/GND	236 683 81	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 673 81	
		3P	230	60	YES	1.15	3	#10 w/GND	236 603 81	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 723 81	
		3P	380	60	YES	1.15	3	#10 w/GND	236 663 81	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 783 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 693 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 613 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 713 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 623 81	YES
	316 SS	1P	230	60	Not Available	1.15	3	#10 w/GND	226 113 39	
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 653 40	
		3P	220	50	YES	1.00	3	#10 w/GND	236 683 40	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 673 40	
		3P	230	60	YES	1.15	3	#10 w/GND	236 603 40	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 723 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 663 40	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 783 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 693 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 613 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 713 40	
		3P	575	60	YES	1.15	3	#10 w/GND	236 623 40	

6" Submersible Motors Standard

6-Inch Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
20 hp 15 kW	WATER WELL	3P	200-208	60	Not Available	1.15	3	#8 w/GND	236 654 90	YES
		3P	220	50	Not Available	1.00	3	#8 w/GND	236 684 90	
		3P	220	60	Not Available	1.15	6-90°	#10 w/GND	236 674 90	
		3P	230	60	Not Available	1.15	3	#8 w/GND	236 604 90	YES
		3P	230	60	Not Available	1.15	6-90°	#10 w/GND	236 724 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 664 90	YES
		3P	380	60	Not Available	1.15	6-90°	#10 w/GND	236 784 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 694 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 614 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90°	#10 w/GND	236 714 90	YES
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 624 90	
	SAND FIGHTER	3P	200-208	60	YES	1.15	3	#8 w/GND	236 654 81	YES
		3P	220	50	YES	1.00	3	#8 w/GND	236 684 81	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 674 81	
		3P	230	60	YES	1.15	3	#8 w/GND	236 604 81	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 724 81	YES
		3P	380	60	YES	1.15	3	#10 w/GND	236 664 81	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 784 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 694 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 614 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 714 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 624 81	YES
	316 SS	3P	200-208	60	YES	1.15	3	#8 w/GND	236 654 40	
		3P	220	50	YES	1.00	3	#8 w/GND	236 684 40	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 674 40	
		3P	230	60	YES	1.15	3	#8 w/GND	236 604 40	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 724 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 664 40	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 784 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 694 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 614 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 714 40	
		3P	575	60	YES	1.15	3	#10 w/GND	236 624 40	

6" Submersible Motors Standard

6-Inch Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
25 hp 18.5 kW	WATER WELL	3P	200-208	60	Not Available	1.15	3	#8 w/GND	236 655 90	YES
		3P	220	50	Not Available	1.00	3	#8 w/GND	236 685 90	
		3P	220	50	Not Available	1.00	6-90°	#10 w/GND	236 675 90	
		3P	230	60	Not Available	1.15	3	#8 w/GND	236 605 90	YES
		3P	230	60	Not Available	1.15	6-90°	#10 w/GND	236 725 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 665 90	YES
		3P	380	60	Not Available	1.15	6-90°	#10 w/GND	236 785 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 695 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 615 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90°	#10 w/GND	236 715 90	YES
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 625 90	
	SAND FIGHTER	3P	200-208	60	YES	1.15	3	#8 w/GND	236 655 81	YES
		3P	220	50	YES	1.00	3	#8 w/GND	236 685 81	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 675 81	
		3P	230	60	YES	1.15	3	#8 w/GND	236 605 81	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 725 81	YES
		3P	380	60	YES	1.15	3	#10 w/GND	236 665 81	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 785 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 695 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 615 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 715 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 625 81	YES
	316 SS	3P	200-208	60	YES	1.15	3	#8 w/GND	236 655 40	
		3P	220	50	YES	1.00	3	#8 w/GND	236 685 40	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 675 40	
		3P	230	60	YES	1.15	3	#8 w/GND	236 605 40	
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 725 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 665 40	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 785 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 695 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 615 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 715 40	
		3P	575	60	YES	1.15	3	#10 w/GND	236 625 40	

6" Submersible Motors Standard

6-Inch Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
30 hp 22 kW	WATER WELL	3P	200-208	60	Not Available	1.15	3	#8 w/GND	236 656 90	YES
		3P	220	50	Not Available	1.00	3	#8 w/GND	236 686 90	
		3P	220	50	Not Available	1.00	6-90°	#10 w/GND	236 676 90	
		3P	230	60	Not Available	1.15	3	#8 w/GND	236 606 90	YES
		3P	230	60	Not Available	1.15	6-90°	#10 w/GND	236 726 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 666 90	YES
		3P	380	60	Not Available	1.15	6-90°	#10 w/GND	236 786 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 696 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 616 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90°	#10 w/GND	236 716 90	YES
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 626 90	
	SAND FIGHTER	3P	200-208	60	YES	1.15	3	#8 w/GND	236 656 81	YES
		3P	220	50	YES	1.00	3	#8 w/GND	236 686 81	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 676 81	
		3P	230	60	YES	1.15	3	#8 w/GND	236 606 81	YES
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 726 81	YES
		3P	380	60	YES	1.15	3	#10 w/GND	236 666 81	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 786 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 696 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 616 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 716 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 626 81	YES
	316 SS	3P	200-208	60	YES	1.15	3	#8 w/GND	236 656 40	
		3P	220	50	YES	1.00	3	#8 w/GND	236 686 40	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 676 40	
		3P	230	60	YES	1.15	3	#8 w/GND	236 606 40	
		3P	230	60	YES	1.15	6-90°	#10 w/GND	236 726 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 666 40	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 786 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 696 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 616 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 716 40	
		3P	575	60	YES	1.15	3	#10 w/GND	236 626 40	

6" Submersible Motors Standard

6-Inch Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
40 hp 30 kW	WATER WELL	3P	380	60	Not Available	1.15	3	#8 w/GND	236 667 90	
		3P	380	60	Not Available	1.15	6-90°	#10 w/GND	236 787 90	
		3P	415	50	Not Available	1.00	3	#8 w/GND	236 697 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#8 w/GND	236 617 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90°	#10 w/GND	236 717 90	
		3P	575	60	Not Available	1.15	3	#8 w/GND	236 627 90	
	SAND FIGHTER	3P	380	60	YES	1.15	3	#8 w/GND	236 667 81	YES
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 787 81	
		3P	415	50	YES	1.00	3	#8 w/GND	236 697 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	236 617 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 717 81	YES
		3P	575	60	YES	1.15	3	#8 w/GND	236 627 81	YES
	316 SS	3P	380	60	YES	1.15	3	#8 w/GND	236 667 40	
		3P	380	60	YES	1.15	6-90°	#10 w/GND	236 787 40	
		3P	415	50	YES	1.00	3	#8 w/GND	236 697 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	236 617 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#10 w/GND	236 717 40	
		3P	575	60	YES	1.15	3	#8 w/GND	236 627 40	
50 hp 30 kW	WATER WELL WITH SAND FIGHTER SEAL	3P	380	60	YES	1.15	3	#8 w/GND	276 668 60	YES
		3P	380	60	YES	1.15	6-90°	#8 w/GND	276 788 60	
		3P	415	50	YES	1.00	3	#8 w/GND	276 698 60	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	276 618 60	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#8 w/GND	276 718 60	YES
		3P	575	60	YES	1.15	3	#8 w/GND	276 628 60	YES
	316 SS	3P	380	60	YES	1.15	3	#8 w/GND	276 668 40	
		3P	380	60	YES	1.15	6-90°	#8 w/GND	276 788 40	
		3P	415	50	YES	1.00	3	#8 w/GND	276 698 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	276 618 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#8 w/GND	276 718 40	
		3P	575	60	YES	1.15	3	#8 w/GND	276 628 40	
60 hp 45 kW	WATER WELL WITH SAND FIGHTER SEAL	3P	380	60	YES	1.15	3	#8 w/GND	276 669 60	YES
		3P	380	60	YES	1.15	6-90°	#8 w/GND	276 789 60	
		3P	415	50	YES	1.00	3	#8 w/GND	276 699 60	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	276 619 60	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#8 w/GND	276 719 60	YES
		3P	575	60	YES	1.15	3	#8 w/GND	276 629 60	YES
	316 SS	3P	380	60	YES	1.15	3	#8 w/GND	276 669 40	
		3P	380	60	YES	1.15	6-90°	#8 w/GND	276 789 40	
		3P	415	50	YES	1.00	3	#8 w/GND	276 699 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	276 619 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90°	#8 w/GND	276 719 40	
		3P	575	60	YES	1.15	3	#8 w/GND	276 629 40	

NOTES:

1. Models designated above as Sand Fighter™ are water well construction.
2. All 316 SS and Ni-Resist models are equipped with Sand Fighter sealing system.
3. All models listed above include factory-installed leads (13 ft).

6" SAND FIGHTER SUBMERSIBLE MOTORS



Motors

Drives

Controls

Protection

Single-Phase 5-15 hp & Three-Phase 5-40 hp

Application Data:

The Sand Fighter™ sealing system is a Franklin Electric exclusive. This innovative sealing system utilizes proprietary manufacturing methods and an optimized mechanical seal with silicon-carbide seal faces. Sand Fighter is an ideal motor choice for abrasive applications.

The Sand Fighter motor is a standard 30 °C (86 °F) water well motor manufactured with the Sand Fighter sealing system as standard. Many of the popular ratings are available from stock.

Franklin's SubMonitor overload protection option extends motor warranty to three years. The SubMonitor protection system guards the motor against overload, underload, overheating and rapid cycling.

* Contact factory for warranty details.

Basic Features:

- FE exclusive Sand Fighter sealing system
- Subtrol-plus heat sensor equipped
- A complete line of single-phase control boxes are available from Franklin Electric.
- Full 3450 RPM @ 60 Hz design point for superior pump head & flow yield
- Full rated Hp output at 30 °C (86 °F) Ambient & 0.5 ft/sec flow by the motor
- High temperature winding wire rated 180 °C (356 °F)
- Hermetically-sealed winding area to seal the winding from moisture
- Winding resin encapsulation ensures the stability of the windings; thus, extends motor life
- FE encapsulating resin provides unique anti-tracking properties, higher surge resistance & excellent heat transfer
- FE FES91 water soluble fill and bearing lubrication solution is environmentally safe - no oil
- FE exclusive Water-Bloc™ connection allows the lead to be replaced in the field
- Copper bar rotors provide more consistent performance than other designs
- Double flange design increases ease and safety of handling the motor and mounting the pump
- Steel/carbon Kingsbury-type thrust bearings provide the best performance in water lubricated motors
- Stainless steel shell provides corrosion resistance
- Cast iron epoxy coated end frames provide durability
- Spline shaft provides maximum shaft/coupling contact
- Spring loaded equalizing diaphragm provides superior pressure compensation



Franklin Electric

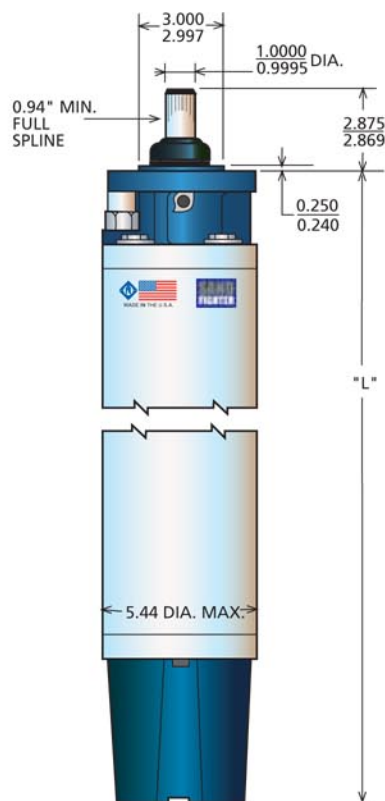
Availability

Single-Phase Capacitor start, capacitor run, 60 Hz - 3450 RPM

HP	KW	DOWNWARD THRUST	VOLTS	HZ	SERVICE FACTOR
5	3.7	3500 lbs.	230	60	1.15
7.5	5.5	3500 lbs.	230	60	1.15
10	7.5	3500 lbs.	230	60	1.15
15	11.0	3500 lbs.	230	60	1.15

Three-Phase, 60 Hz - 3450 RPM

HP	KW	DOWNWARD THRUST	VOLTS	HZ	SERVICE FACTOR
5	3.7	3500 lbs. 15500 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460	60	1.15
			575	60	1.15
7.5	5.5	3500 lbs. 15500 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460	60	1.15
			575	60	1.15
10	7.5	3500 lbs. 15500 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460	60	1.15
			575	60	1.15
15	11	3500 lbs. 15500 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460	60	1.15
			575	60	1.15
20	15	3500 lbs. 15500 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460	60	1.15
			575	60	1.15
25	18.5	3500 lbs. 15500 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460	60	1.15
			575	60	1.15
30	22	3500 lbs. 15500 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460	60	1.15
			575	60	1.15
40	30	6000 lbs. 27500 N	380	60	1.15
			460	60	1.15
			575	60	1.15



Construction Materials

Component	Material
1 Castings	Gray Iron
2 Stator Shell	301 SS
3 Stator Ends	Low Carbon Steel
4 Shaft Extension	303 SS, Except 17-4 SS on 40-60 hp
5 Fasteners	300 & 400 Series SS
6 Seal Cover	304 SS & Sintered Bronze
7 Seal	Sand Fighter™ SiC/SiC Mech Seal
8 Diaphragm	Nitrile Rubber
9 Diaphragm Plate	304 SS
10 Diaphragm Spring	302 SS
11 Slinger	Nitrile Rubber
12 Lead Wire (or Cable)	XLPE
13 Lead Potting	Epoxy
14 Filter	Delrin & Polyester

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