



# 4" SUPER STAINLESS SUBMERSIBLE MOTORS

## 1/3 - 1.5 HP, 2 WIRE: 1/3 - 3 HP 3 WIRE, SINGLE- & THREE-PHASE

### APPLICATIONS

These motors are built for dependable operation in 4" diameter or larger water wells. Continuous rating in 86 °F (30 °C) water.

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

### FEATURES

- Corrosion-Resistant All Stainless Steel Exterior Construction
- Stainless Steel Splined Shaft
- Hermetically-Sealed Windings
- Anti-Track Self-Healing Resin System
- Water Lubrication
- Filter Check Valve
- Kingsbury-Type Thrust Bearing
- Pressure Equalizing Diaphragm
- Built-In Lightning Arrestors (all single-phase; 200 and 230 Volt three-phase)
- Removable "Water-Bloc" lead installed In North American 60 Hz water well motors. Consult factory for additional leads.
- UL 778 Recognized (North American Voltages)
- CSA Certified
- NSF/ANSI 61 Certified
- NEMA Mounting Dimensions
- Rotation: single-phase - CCW; three-phase electrically reversible

### SPECIAL FEATURES

- No flow inducer sleeve 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 on-winding thermal overload protection, 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.
- Three-wire 60 Hz motors 1/3 - 1 hp use Franklin's exclusive 3-wire QD (Quick-Disconnect) Control Box with the patented QD Relay. This relay provides the ultimate in operational life.



**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

#### 2-Wire, Split-Phase, 60 Hz, 3450 RPM

HP	KW	Volts	"L" Dim Inches	Shipping Weight	
				LBS	KG
1/3	0.25	115 OR 230	8.77	16	7.2
1/2	0.37	115 OR 230	9.51	18	8.1
3/4	0.55	230	10.64	21	9.5
1	0.75	230	11.51	24	10.9
1.5	1.1	230	14.91	31	14.1

#### 2-Wire, Split-Phase, 50 Hz, 2875 RPM

HP	KW	Volts	"L" Dim Inches	Shipping Weight	
				LBS	KG
1/2	0.37	220	9.51	18	8.1
3/4	0.55	220	10.64	21	9.5
1	0.75	220	11.51	24	10.9
1.5	1.1	220	14.91	31	14.1

#### 3-Wire, Capacitor Start, 60 Hz, 3450 RPM ①

HP	KW	Volts	"L" Dim Inches	Shipping Weight	
				LBS	KG
1/3	0.25	115 OR 230	8.77	17	7.7
1/2	0.37	115 OR 230	9.51	19	8.6
3/4	0.55	230	10.64	21	9.5
1	0.75	230	11.51	24	10.9
1.5	1.1	230	13.38	28	12.7
2	1.5	230	14.16	33	15.0
3	2.2	230	18.00	39	18

#### 3-Wire, Capacitor Start, 50 Hz, 2875 RPM ①

HP	KW	Volts	"L" Dim Inches	Shipping Weight	
				LBS	KG
1/3	0.25	220	8.77	17	7.7
1/2	0.37	220	9.51	19	8.6
3/4	0.55	220	10.64	21	9.5
1	0.75	220	11.51	24	10.9
1.5	1.1	220	13.38	28	12.7
2	1.5	220	14.16	33	15.0
3	2.2	220	18.00	39	18

### Three-Phase

#### 200, 230, 380, 460, 575, Volt-60 Hz; 220, 280 Volt-50 Hz

Consult factory for dimensional and weight data.

## CONSTRUCTION MATERIALS

Component	Standard Water Well
1 Casting	304 SS Over Iron
2 Stator Shell	301 SS
3 Shaft Extension	17-4 SS
4 Fasteners	305 SS or 302 SS
5 Seal Cover	Acetal
6 Seal	Nitrile Rubber Lip
7 Diaphragm	Nitrile Rubber
8 Diaphragm Cover	301 SS
9 Slinger	Nitrile Rubber
10 Lead Wire (or Cable)	XLPE ②
11 Lead Potting	Expoxy
12 Lead Jam Nut	303 SS

① Franklin Electric control box required.

② Removable type installed in North American 60 Hz rated water well motors. Consult factory for additional leads

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

