

Submersible Motors

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 DATE: April 1, 2002
 SUPERSEDES: 12-1-00

50 Hz • 4" High Thrust • Water Well Motors



**SINGLE-PHASE, CAPACITOR START, CAPACITOR RUN, 2875 RPM
 (Control Box Required)**

HP	KW	DOWNWARD THRUST LBS	VOLTS	SERVICE FACTOR	MOTOR MODEL NUMBER	CONTROL BOX MODEL NUMBER
3	2.2	1500	220	1.0	224 352 34	282 352 81
5	3.7	1500	220	1.0	224 353 34	282 253 90

THREE-PHASE (Special Controls Required^①)

HP	KW	DOWNWARD THRUST LBS	VOLTS	SERVICE FACTOR	MOTOR MODEL NUMBER
3	2.2	1500	220	1.0	234 356 34
		1500	460/380 ^②	1.15/1.0	234 326 52
5	3.7	1500	220	1.0	234 357 34
		1500	460/380 ^②	1.15/1.0	234 327 52
7 1/2	5.5	1500	220	1.0	234 358 34
		1500	460/380 ^②	1.15/1.0	234 328 52
10	7.5	1500	460/380 ^②	1.15/1.0	234 595 34

FOR MOUNTING DIMENSIONS SEE OPPOSITE SIDE.

APPLICATIONS

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

Do not use motor in swimming areas.

SPECIFICATIONS

Temperature and Time Rating: Continuous in 86°F (30°C) max. water temperature at 1/4 ft/sec flow past motor

Enclosure: Hermetically sealed stator, stainless steel outer shell

Shaft: Splined, stainless steel

Bearings: Water lubricated sleeve and Kingsbury-type thrust bearings

Control Box: Single-phase controls available from Franklin Electric.^③

Three-phase controls not available from Franklin Electric.^①

Leads: Removable type, factory installed in 460/380V water well motors. See "4-Inch Motor Leads" page for additional leads.^③

Protection: Manual reset thermal overload protection in single-phase control box; SPECIAL for three-phase.^① Single-phase motors equipped with built-in lightning arrestors.

Rotation: Single-phase - CCW facing shaft end. Three-phase - electrically reversible.

MODIFICATIONS:

Voltage, hertz and Hp ratings not listed above are available with a price adder. Consult factory for price and delivery. Corrosion resistant construction available; see "4-Inch Corrosion Resistant Motors" page.

FOOTNOTES:

^①Franklin does not manufacture three-phase controls. Standard three-phase magnetic starter with ambient compensated quick-trip overload protection in all three legs is required for positive motor protection. WARRANTY IS VOID where this protection is not employed.

^②60/50 Hz. 3450/2875 RPM.

^③WARRANTY IS VOID if Franklin supplied leads or cables are not used.

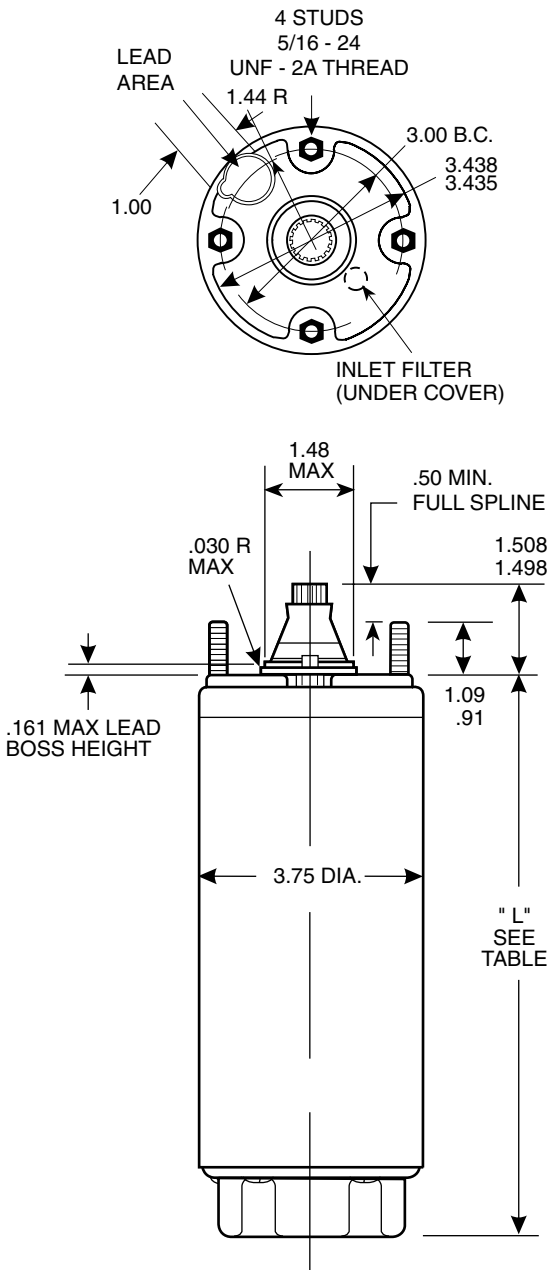
^④Refer to "Accessories" section for single-phase control box.

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.



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50 Hz • 4" High Thrust • Water Well Motors



SPLINE DATA

- 14 TEETH • 24/48 DIAMETRAL PITCH
- 30½ PRESSURE ANGLE • FLAT ROOT, SIDE FIT
- SLIDING CLASS "A" FIT • ASA B5.15-1950

4" HIGH THRUST - SINGLE-PHASE

HP	"L"	SHIPPING WEIGHT		MOTOR CARTON SIZE
		LBS.	KGS.	
3	22.2"	54	24.5	6" X 6" X 26"
5	28.2"	70	31.7	6" X 6" X 32"

4" HIGH THRUST - THREE-PHASE

HP	"L"	SHIPPING WEIGHT		MOTOR CARTON SIZE
		LBS.	KGS.	
3	19.2"	42	19.0	6" X 6" X 23"
5	22.2"	55	24.9	6" X 6" X 26"
7 1/2	28.2"	70	31.7	6" X 6" X 32"
10	30.4"	75	34.0	6" X 6" X 34"

See "Accessories" section for control box weights and dimensions.

CONSTRUCTION MATERIALS

Component	Standard Water Well
Castings	303 SS Over Iron
Stator Shell	301 SS
Stator Ends	Low Carbon Steel
Shaft Extension	303 SS, 17-4 SS on 5-10Hp
Fasteners	300 Series SS
Seal Cover	Acetal
Seal	Nitrile Rubber Lip Seal
Diaphragm	Nitrile Rubber
Diaphragm Plate	304 SS
Diaphragm Spring	302 SS
Diaphragm Cover	304 SS
Slinger	Nitrile Rubber
Lead Wire (or Cable)	XLPE [Ⓞ]
Lead Potting	Epoxy
Lead Jam Nut	303 SS
Filter	Delrin & Polyester

[Ⓞ]Removable type, factory installed in dual-frequency rated water-well motors only. See "4-Inch Motor Leads" page for additional leads.

NOTE: All dimensions shown in inches.

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



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