

Submersible Motors

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DATE: December 1, 2000
SUPERSEDES: 6-1-96

3-Phase • 4" Water Well • Super Stainless Motors



APPLICATIONS

These motors are built for dependable operation in 4" diameter or larger water wells. 200 & 230 volt ratings include built-in lightning arrestors. **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 carbon sleeve and Kingsbury-type thrust bearings.

Control Box: See footnote.^①

End Bells: Stainless steel jacketed iron casting.

Leads: Removable type, factory installed in 60 Hz and dual-frequency rated water well motors only. See "4-Inch Motor Leads" page for additional leads.^②

Rotation: Electrically reversible.

PACKAGING

Pallet packaging is available for shipment of 40 units of one motor model only. Quantities of less than 40 units will be individually boxed and have a price adder.

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.

^②WARRANTY IS VOID if Franklin supplied leads or cables are not used.

^③60/50 Hz. 3450/2875 RPM.

60 HZ, THREE-PHASE, 3450 RPM

HP	KW	DOWNWARD THRUST LBS	VOLTS	SERVICE FACTOR	MOTOR MODEL NUMBER
1/2	.37	300	200	1.60	234 501 92
		300	230	1.60	234 511 92
		300	460	1.60	234 521 94
3/4	.55	300	200	1.50	234 502 92
		300	230	1.50	234 512 92
		300	460	1.50	234 522 94
1	.75	650	200	1.40	234 503 92
		650	230	1.40	234 513 92
		650	380	1.40	234 543 94
		650	460	1.40	234 523 94
		650	575	1.40	234 533 94
1 1/2	1.1	650	200	1.30	234 504 92
		650	230	1.30	234 514 92
		650	380	1.30	234 544 94
		650	460/380 ^③	1.30/1.0	234 524 94
		650	575	1.30	234 534 94
2	1.5	650	200	1.25	234 305 92
		650	230	1.25	234 315 92
		650	380	1.25	234 345 94
		650	460/380 ^③	1.25/1.0	234 325 94
		650	575	1.25	234 335 94
3*	2.2	900*	200	1.15	234 306 26
		900*	230	1.15	234 316 26
		900*	380	1.15	234 346 26
		900*	460/380 ^③	1.15/1.0	234 326 26
		900*	575	1.15	234 336 26

50 HZ, THREE-PHASE, 2875 RPM

HP	KW	DOWNWARD THRUST LBS	VOLTS	SERVICE FACTOR	MOTOR MODEL NUMBER
1/2	.37	300	220	1.0	234 551 41
		300	380	1.0	234 561 31
3/4	.55	300	220	1.0	234 552 41
		300	380	1.0	234 562 31
1	.75	300	220	1.0	234 553 41
		300	380	1.0	234 563 31
1 1/2	1.1	650	220	1.0	234 554 19
		650	460/380 ^③	1.30/1.0	234 524 94
2	1.5	650	220	1.0	234 355 19
		650	460/380 ^③	1.25/1.0	234 325 94
3*	2.2	900*	220	1.0	234 356 25
		900*	460/380 ^③	1.15/1.0	234 326 26

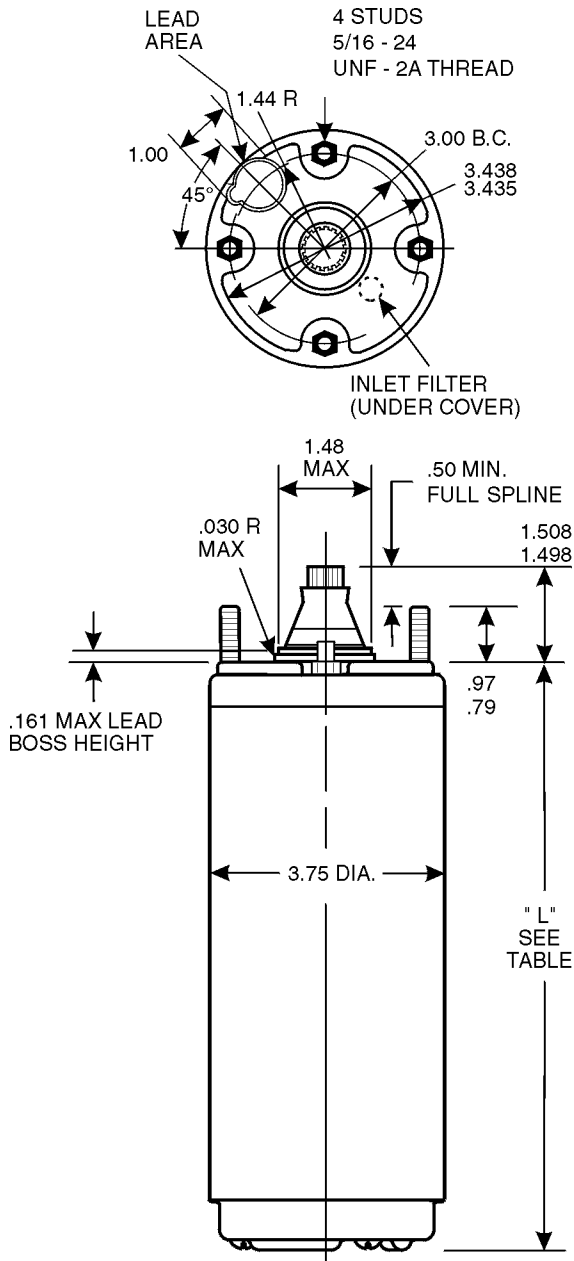
* 1500 LBS downward thrust motors available; see "4-Inch High Thrust" pages.

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.

FOR MOUNTING DIMENSIONS SEE OPPOSITE SIDE.

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3-Phase • 4" Water Well • Super Stainless Motors



SPLINE DATA

- 14 TEETH • 24/48 DIAMETRAL PITCH
- 30° PRESSURE ANGLE • FLAT ROOT, SIDE FIT
- SLIDING CLASS "A" FIT • ASA B5.15-1950

3-WIRE, 60 HZ THREE-PHASE		SINGLE PACK MOTOR		MOTOR CARTON SIZE
HP	"L"	SHIPPING WEIGHT		
		LBS.	KGS.	
1/2	9.53"	18	8.2	4"X4-3/8"X16"
3/4	10.66"	21	9.5	4"X4-3/8"X19"
1	11.75"	24	10.9	4"X4-3/8"X19"
1 1/2	11.75"	24	10.9	4"X4-3/8"X19"
2	13.62"	28	12.7	4"X4-3/8"X21"
3	16.06"	35	15.9	4"X4-3/8"X21"

3-WIRE, 50 HZ THREE-PHASE		SINGLE PACK MOTOR		MOTOR CARTON SIZE
HP	"L"	SHIPPING WEIGHT		
		LBS.	KGS.	
1/2	8.78"	18	8.2	4"X4-3/8"X14"
3/4	9.53"	21	9.5	4"X4-3/8"X14"
1	10.66"	21	9.5	4"X4-3/8"X16"
1 1/2	11.75"	23	10.4	4"X4-3/8"X19"
2	13.62"	27	12.2	4"X4-3/8"X19"
3	16.06"	35	15.9	4"X4-3/8"X21"

CONSTRUCTION MATERIALS

Component	Standard Water Well
Castings	304 SS Over Iron
Stator Shell	301 SS
Shaft Extension	303 SS or 17-4 SS
Fasteners	305 SS or 302 SS
Seal Cover	Acetal
Seal	Nitrile Rubber Lip
Diaphragm	Nitrile Rubber
Diaphragm Cover	Nickel Plated CRS
Slinger	Nitrile Rubber
Lead Wire (or Cable)	XLPE [Ⓞ]
Lead Potting	Epoxy
Lead Jam Nut	303 SS

[Ⓞ]Removable type, factory installed in 60 Hz and 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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