



4" MAGFORCE HIGH EFFICIENCY MOTORS

1.5 - 5 HP, ENCAPSULATED, THREE-PHASE

Franklin Electric 4" MagForce High Efficiency motors are the next generation of submersibles powered by permanent magnet technology. Leveraging the unwavering reliability of Franklin Electric's submersible motor design, MagForce High Efficiency Motors offer improved performance over standard induction motors while also providing the features, benefits and robustness you trust for servicing water well applications.



FEATURES

- High efficiency electrical design for low operational costs
- 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
- Continuous rating in 86° F (30 °C) water
- Removable "Water-Bloc" lead
- UL 778 recognized
- CSA certified
- ANSI/NSF 61 certified
- NEMA mounting dimensions

ORDERING INFORMATION

Pair performance with convenience when recommending SubDrive QuickPAKs powered by 4" MagForce High Efficiency Motors. You get maximum performance that's prepackaged for easy selection. Individual motors are also available as service components.

HP	Voltage	Hz	SF Amps	Thrust Rating	Model**
1.5	230	120*	4.8	900 lb.	2340556731S
2			6.4		2340526731S
3			8.1		
5			13.9	1500 lb.	2340543432S

*MagForce motors utilize a 4-pole motor design. Although they are rated for 120Hz electrical input power, the actual shaft speed is half of the electrical input frequency.
 **For replacement only

OUTPUT WIRE SIZING FOR 4" MAGFORCE HIGH EFFICIENCY MOTOR

Drive Model	Motor Series	HP	SF Amps	AWG 600V Copper Wire Sizes, 75C Insulation, Motor Cable Lengths (in feet)				
				14	12	10	8	6
SubDrive 20	2340556731	1.5	4.8	520	830	1000	-	-
SubDrive 20	2340526731	2	6.4	390	620	990	1000	-
SubDrive 30		3	8.1	300	490	780	1000	-
SubDrive 50	2340543432	5	13.9	180	290	460	700	1000

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.



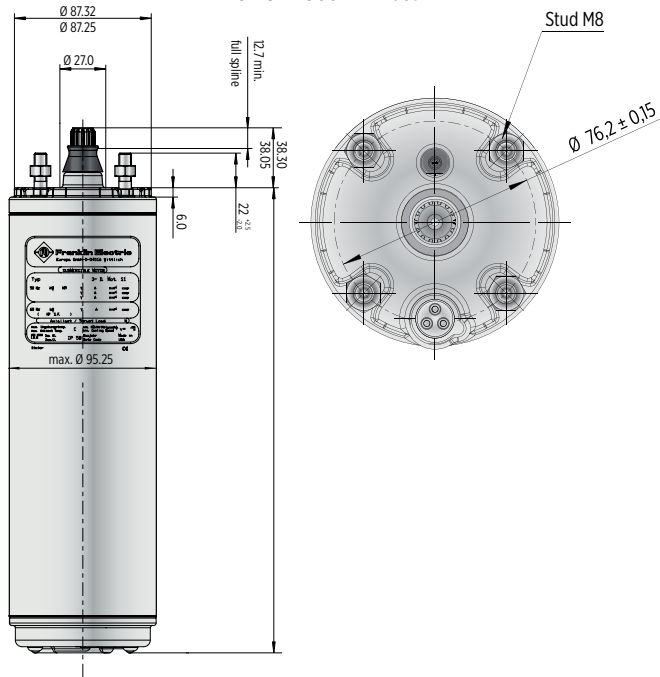
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CONSTRUCTION MATERIALS

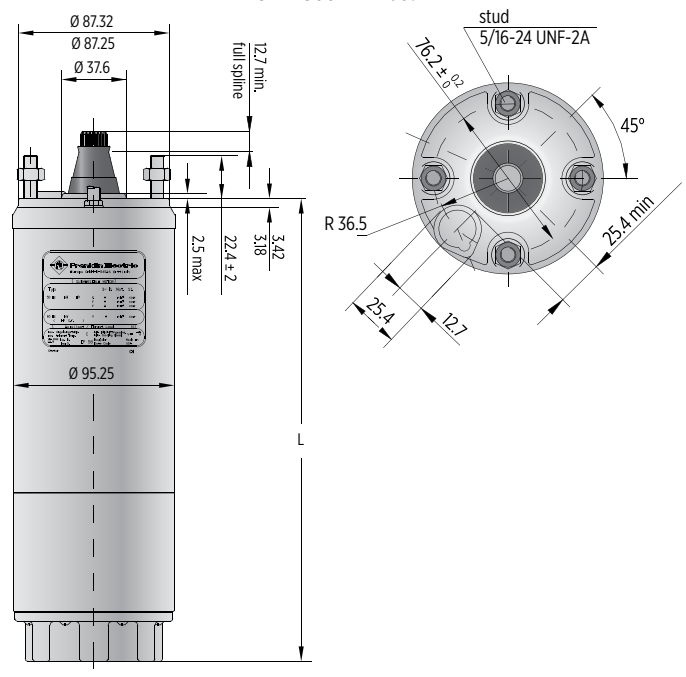
Component	Material
Casting	304 SS Over Iron
Stator Shell	304 SS
Shaft Extension	17-4 SS
Fasteners	305 XX or 302 SS
Seal Cover	Acetal
Seal Cover	Nitrile Rubber Lip
Diaphragm	Nitrile Rubber
Diaphragm Cover	301 SS
Slinger	Nitrile Rubber
Lead Wire (or Cable)	XLPE
Lead Potting	Epoxy
Lead Jam Nut	303 SS

DIMENSIONS

1.5 - 3HP 900LB Thrust



5HP 1500LB Thrust



Model	Thrust	L	Total Length	Weight	Weight	Total Length
	[LB]	[mm]	[mm]	[kg]	[lbs]	[in]
2340556731S	900	240.6	278.7	6.1	13.4	10.9
2340526731S	900	263.1	301.2	7.1	15.6	11.9
2340543432S	1500	353.1	391.2	14.6	32.2	15.4