

4" Encapsulated Motors



4" Super Stainless 3 Phase



Submersible Motors

Quality in the Well

Franklin Electric 4" encapsulated three phase Motors, manufactured to ISO 9001 standards, for three phase power supply. The motor offer you a maintenance free long life submersible pump application.

The motor is filled with a special FES93 fluid, providing frost protection down to -15°C storage temperature. A special diaphragm ensures pressure compensation inside the motor.

Product advantages:

- Hermetically sealed stator. Anti track, self healing stator resin prevents motor burn out
- High efficiency electrical design (low operation cost, cooler winding temperature)
- Removable "Water Bloc™" lead connector
- Cable material according to drinking water regulations (KTW approved)
- Water lubricated radial and thrust bearings
- All motors prefilled and 100% tested.
- Non contaminating, FES93- filled design

Technical Specifications

Standard Motor:

- 4" NEMA flange
- Degree of protection: IP68
- Insulation: Cl. B
- Rated ambient temp.: 30°C
- Cooling flow: Motors 2,2 kW and larger: min. 8cm/s
- Starts/h: 20
- Mounting: vertical/horizontal
- Voltage tolerance: 380-415V/50Hz, 460V/60Hz; -10% / +6% U_N [380-415V = (380-10%) – (415+6%)]
- Motor protection: Select thermal overloads according to EN 60947-4-1, Trip time <10 s at $5 \times I_N$

Options

- Motor cable VDE / KTW approved (1,5m; 2,5m; special lengths available)
- Special voltages on request
- YΔ - start (pos. of cables 90°) in motors 316SS on request
- Motor complete in AISI 316SS with SiC seal

4"										
3~ / 400 V / 50 Hz										
P _A [kW]	Charge Ax. [N]	n _N [min ⁻¹]	I _N [A]	I _A [A]	η [%]	Cos φ	T _N [Nm]	T _A [Nm]	L [mm]	m [kg]
0,37	1500	2865	1,1	4,7	66	0,70	1,2	2,5	223,0	7,3
0,55	1500	2855	1,6	6,4	67	0,75	1,9	3,5	242,1	8,3
0,75	1500	2870	2,1	9,3	69	0,75	2,5	5,3	270,8	9,6
1,1	3000	2840	3,0	14,5	73	0,76	3,7	10,6	298,5	10,8
1,5	3000	2855	4,0	19,2	73	0,76	5,0	12,6	327,2	12,1
2,2*	4000	2840	5,9	28,9	75	0,75	7,5	23,6	355,9	13,5
	6500	2840	5,9	28,9	75	0,75	7,5	23,6	440,4	16,1
3,0*	4000	2850	7,8	41,6	76	0,75	9,9	31,5	422,8	16
	6500	2850	7,8	41,6	76	0,75	9,9	34,0	507,1	19,1
3,7*	6500	2850	9,1	49	77	0,79	12,4	38,8	545,2	20,9
4,0*	6500	2855	10,0	58	78	0,78	13,7	46,1	583,3	24,1
5,5*	6500	2850	13,7	76	76	0,79	18,7	51,8	697,6	29,4
7,5*	6500	2820	18,8	102	74	0,79	25,1	89,9	773,8	33,0
*	High Thrust Version									

