

6" Rewindable Motors

Standard: **SAND FIGHTER**

Optional: **STAINLESS STEEL 316 SS** **STAINLESS STEEL 904 L**



Submersible Motors Quality in the Well

These 6" rewound motors, manufactured in ISO 9001 certified facilities, are built for dependable operation in 6" diameter or larger water wells. Water lubricated thrust and radial bearings enable a maintenance free operation. A special diaphragm ensures pressure compensation inside the motor. The motor is filled with a special FES93 fluid, providing frost protection down to -15°C storage temperature.

The Sand fighter® SiC seal system is the option for sandy applications. For applications in aggressive media, motors made of 316SS and 904L are available.

Product advantages:

- Cable material according to drinking water regulations (KTW approved)
- Sand slinger and mechanical seal for high performance in sand
- High efficiency electrical design for low operation cost
- All motors prefilled and 100% tested
- Max. storage temperature -15°C - + 60°C
- Design for retrofitable PT100 sensor
- Approved Franklin Electric „Kingsbury Type“ thrust bearing
- Non contaminating FES 93 -filled design
- Sand fighter® SiC seal system is standard
- Motors complete 304SS

Technical Specifications

Standard Motor:

- 4,0 - 37,0kW
- 6" NEMA flange with Studs (M 12)
- Protection: IP 68
- Starts per hour: max. 20
- Installation position: vertical / horizontal (**37 kW** motors may not be installed horizontally)
- Motor Lead in 4m length (KTW approved)
- Standard Voltage: 380-415V/50Hz, 460V/60Hz
- Voltage tolerance 50Hz: -10% / +6% U_N [380-415V = (380-10%) – (415+6%)]
- Voltage tolerance 60Hz: $\pm 10\% U_N$
- Motor protection: Select thermal overloads according to EN 60947-4-1, trip class 10 or 10A, trip time < 10 s at $5 \times I_N$
- YΔ - start (pos. of cables 90°)
- Standard motor with PVC winding insulation (37kW in standard with PE2/PA insulation) for max. ambient temp. of 30°C with a min. cooling flow:
 - 4 kW - 15 kW $v = 0,2 \text{ m/s}$
 - 18,5 kW - 37 kW $v = 0,5 \text{ m/s}$

Options

- Other voltages
- Motors in complete GG-304SS, 316 SS and 904 L on request
- Motors up to 30kW with PE2/PA winding insulation for max. ambient temp. of 50°C at the same cooling conditions as standard (37 kW max. 45°C)
- PT 100 temperature sensor (sold separately)
- Sand fighter® Motor with SiC-Shaft Seal (Standard in 304SS, 316SS and 904L)
- Lead in different lengths up to 50m

6" Rewindable Motors										
3~ /400 V / 50 HZ										
P _N [kW]	Thrust [N]	n _N [min-1]	I _N [A]	I _A [A]	η [%]	cos φ [%]	T _N [Nm]	T _A [Nm]	L [mm]	m [kg]
4	15500	2930	10,6	51	0,76	0,73	13,1	17,3	679	43
5,5	15500	2890	13,3	51	0,76	0,81	18,2	17,3	679	43
7,5	15500	2880	17,7	63	0,77	0,82	24,8	21,5	699	45
9,3	15500	2870	21,4	78	0,78	0,82	31,0	29,0	729	48
11	15500	2880	25,2	98	0,79	0,83	36,4	35,3	759	51
13	15500	2900	29,6	125	0,80	0,81	42,8	50,3	809	56
15	15500	2890	33,1	148	0,81	0,83	49,4	60,4	854	61
18,5	15500	2880	42,0	182	0,81	0,80	61,2	84,3	899	65
22	15500	2900	49,0	231	0,82	0,80	72,5	102,2	989	74
26	15500	2900	56,7	284	0,83	0,83	85,6	134,7	1094	85
30	27500	2910	66,4	347	0,83	0,80	98,4	151,0	1194	95
37	27500	2900	81,9	433	0,83	0,80	121,6	215,8	1274	102

