

6" Encapsulated Motors



6" Encapsulated Motors „HighTemp 90°C“

Standard: **SAND FIGHTER**



Submersible Motors

Quality in the Well

These 6" encapsulated motors, manufactured to ISO 9001 standards, are built for dependable operation in 6" diameter or larger water wells with ambient temperature up to 90°C.

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 FES92 fluid, providing frost protection down to -15°C storage temperature.

The Sand fighter® SiC seal system is standard.

Product advantages:

- Up to 90°C ambient temperature
- Increase thrust capacity up to 30°C
- No cooling flow in larger wells (12" / open reservoirs) up to 30°C ambient
- Hermetically sealed encapsulated stator, Anti track, self healing stator resin
- Removable "Water Bloc" lead connector
- „Sand fighter®“ Motor with SiC-Mechanical Seal
- High efficiency electrical design for low operation cost
- All motors prefilled and 100% tested. Max. storage temperature -15°C - + 60°C
- High temperature leads

Technical Specifications

Standard Motor:

- 3,7 ... 30 kW
- 6" NEMA double flange
- Protection: IP 68
- Starts per hour: 20
- Installation: vertical/horizontal
- Standard voltage: 380-415V / 50Hz, 460V / 60Hz
Voltage tolerance: +6% / -10% (Standard: 415 + 6% = 440V, 380 - 10% = 342V)
- Motor protection: Select thermal overloads according to DIN 60947-4-1, trip class 10 or 10A, trip time < 10 s at 5 x I_N
- Insulation: Class F
- Rated ambient temperature: 90°C
- Cooling flow: min. 0,16 m/s
- YΔ - start (pos. of cables 90°)
- Motor lead in 4m length

Options

- Other voltages
- Motors complete in 316 SS
- Special Lead lengths up to 45m

6"												
3~ / 400V / 50 Hz												
P _N [kW]	Thrust F [N]	U _N [V]	n _N [min ⁻¹]	I _N [A]	I _A [A]	η [%]			cos φ (Pf.) at % load			T _N [Nm]
						50	75	100	50	75	100	
3,7	15.500	400	2880	8,5	52,5	66	72	75	0,74	0,82	0,86	12,3
5,5	15.500	400	2890	12,3	83,0	70	75	77	0,72	0,81	0,86	18,3
7,5	15.500	400	2890	16,0	110	74	79	81	0,69	0,79	0,85	24,9
11,0	15.500	400	2890	24,2	160	74	79	80	0,67	0,77	0,82	36,6
15,0	15.500	400	2885	33,0	205	75	79	80	0,65	0,77	0,83	49,9
18,5	27.500	400	2890	40,5	266	78	82	83	0,62	0,74	0,82	61,5
22	27.500	400	2885	48,0	304	75	79	81	0,70	0,80	0,85	73,2
30	27.500	400	2885	64,5	441	79	82	83	0,63	0,75	0,82	99,8

