

8" Encapsulated Motors



8" Encapsulated Motors „HighTemp 75°C“

Standard: **SAND FIGHTER**



Submersible Motors Quality in the Well

These 8" encapsulated motors, manufactured to ISO 9001 standards, are built for dependable operation in 8" diameter or larger water wells with ambient temperature up to 75°C.

It is fitted with water lubricated radial and thrust bearings for maintenance-free operation. The motor is filled with a special FES92 fluid, providing frost protection down to -15°C storage temperature.

A special diaphragm ensures pressure compensation inside the motor. The Sand fighter® SiC seal system is standard.

Product advantages:

- Up to 75°C ambient temperature
- Increase thrust capacity up to 30°C
- No cooling flow in larger wells (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
- Non contaminating FES 93 filled design

Technical Specifications Standard Motor:

- 30 ... 110 kW
- 8" 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: 75°C
- Cooling flow: min. 0,16 m/s
- YΔ - start (pos. of cables 90°)

Options

- Other voltages
- Motors complete in 316 SS
- Motor lead in 4m length

8" Encapsulated HighTemp 75													
3~ / 400V / 50Hz													
P _N [kW]	Thrust F [N]	U _N [V]	n _N [min ⁻¹]	I _N [A]	I _A [A]	η (Eff.) [%]			cos φ (Pf.)			T _N [Nm]	T _A [Nm]
						at % load			at % load				
						50	75	100	50	75	100		
30	45000	400	2930	65,5	499	72	78	80	0,70	0,78	0,83	97,8	298
37	45000	400	2940	79,6	692	74	80	82	0,70	0,79	0,84	120	398
45	45000	400	2945	93,1	884	77	82	84	0,69	0,78	0,84	146	465
56	45000	400	2930	115	927	78	82	84	0,72	0,81	0,85	182	526
75	45000	400	2935	151	1254	80	84	86	0,71	0,80	0,85	244	695
93	45000	400	2925	186	1482	81	84	86	0,73	0,80	0,86	304	949
110	45000	400	2935	224	1690	81	84	86	0,72	0,81	0,85	358	1002

