10" Rewindable Motors

Standard: SAND FIGHTER Optional: STAINLESS STEEL 316 SS STAINLESS STEEL 904 L

Submersible Motors

Quality in the Well

These 10" rewindable motors, manufactured in ISO 9001 certified facilities, are built for dependable operation in 10" diameter or larger water wells.
It is fitted with water lubricated radial and thrust bearings for maintenance-free operation. The motor is filled with a special FES93 fluid, providing frost protection down to -15ºC storage temperture.
A special diaphragm ensures pressure compensation inside the motor.The Sand fighter® SiC seal system is standard. For applications in aggressive media, motors made of 316SS and 904L are available.

Product advantages:

- Easy to assemble with double flange
- Cable material according to drinking water regulations (KTW approved)
- Sand fighter® SiC seal system 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
- Non contaminating FES 93 filled design

Technical Specifications

Standard Motor:

- 85,0 - 185,0kW
- 10" flange
- Protection: IP 68
- Starts per hour: max. 10
- Installation position: vertical / horizontal (**185 kW** motors may not be installed horizontally)
- Motor Lead in 6 m 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: ±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 x I_N
- DOL / YΔ - start (pos. of cables 90°)
- Standard motor with PVC winding insulation for max. ambient temperature of 25ºC with a min. cooling flow: v = 0,5 m/s

Options

- Other voltages
- Motors in complete 316 SS and 904 L
- PE2/PA winding insulation for max. ambient temp. of **45**°C at the same cooling conditions as standard
- PT 100 temperature sensor (sold separately)
- Lead in different lengths up to 50m

10" 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]
85	60 000	2900	174	828	0,85	0,85	280	316	1419	280
110	60 000	2920	232	1158	0,86	0,82	360	467	1529	315
130	60 000	2920	256	1344	0,88	0,86	425	546	1659	362
150	60 000	2920	298	1590	0,87	0,85	491	635	1769	413
185	60 000	2920	384	2148	0,88	0,81	605	1022	1919	449