8"
Encapsulated Motors



Optional: SAND FIGHTER

Submersible Motors
Quality in the Well

These 8" encapsulated motors, manufactured in ISO 9001 certified facilities, are built for dependable operation in 8" diameter or larger water wells.
It is fitted with water lubricated radial and thrust bearings for maintenance-free operation. A special diaphragm ensures pressure compensation inside the motor. The motor is filled with a special FES91 fluid, providing frost protection down to -15ºC storage temperture.
The Sand fighter® SiC seal system is the option for sandy applications.

Product advantages:

- Hermetically sealed stator, anti track, self healing stator resin prevents motor burn out
- Removable “Water Bloc” lead connector
- 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
- Non contaminating FES91 -filled design

Technical Specifications
Standard Motor:

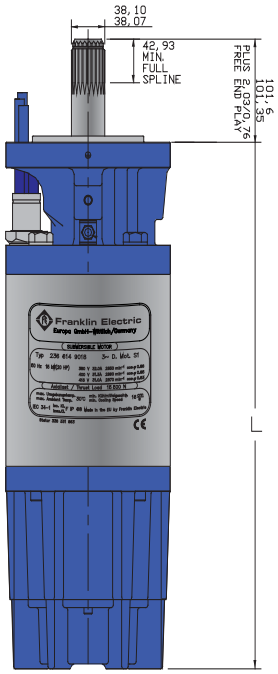
- 30 ... 150 kW
- 8" NEMA flange
- Protection: IP 68
- Starts per hour: 10
- Installation: vertical/horizontal
- Standard Voltage: 380-415V/50Hz, 460V/60Hz
- Voltage tolerance 50Hz: -10% / +6% U_N [380-415V = (380-10%) – (415+6%)]
- Voltage tolerance 60Hz: ±10%U_N
- Motor protection: Select thermal overloads according to DIN 60947-4-1, trip class 10 or 10A, trip time < 10 s at 5 x I_N
- Insulation: Class F
- DOL / YΔ - start (pos. of cables 90°)
- Rated ambient temperature: 30°C
- Cooling flow: min. 0,16 m/s
- Built-in Subtrol Heat Sensor
- Motor lead in 8 m length (KTW approved)

Options

- Other voltages
- Motors complete in 316 SS
- PT 100 temperature sensor (sold separately)
- „Sand fighter®“ Motor with SiC- Mechanical seal

8" Encapsulated Motors
3~ /400 V / 50 Hz

P_N [kW]	Thrust F [N]	n_N [min^{-1}]	I_N [A]	I_A [A]	η [%]	cos φ [%]	T_N [Nm]	T_A [Nm]	L [mm]	m [kg]
30	45000	2900	61	418	86	0,84	97	255	925	145
37	45000	2920	74	534	87	0,86	121	295	1000	157
45	45000	2920	89	645	87	0,85	145	395	1077	172
55	45000	2920	108	862	88	0,87	182	563	1394	202
75	45000	2925	145	1157	87	0,87	242	561	1496	240
93	45000	2930	190	1332	87	0,83	302	567	1748	318
110	45000	2930	222	1597	88	0,84	363	769	1976	381
130	45000	2920	252	1738	88	0,87	424	927	2179	420
150	45000	2920	284	1858	88	0,88	485	1034	2408	494



Technical changes without notice / Techn. Änderungen vorbehalten / Modifications techniques réservées sans préavis / 5930