

6" ENCAPSULATED MOTOR

High-quality encapsulated motor with hermetically-sealed windings

WATER WELL
WW
CI PC / 304SS

OPTIONAL
STAINLESS STEEL
304

OPTIONAL
STAINLESS STEEL
316



**SAND
FIGHTER**

6" ENCAPSULATED STANDARD MOTOR

FEATURES & BENEFITS

- Double-flange NEMA mounting design
- Stainless steel splined shaft
- StatorShield™ - Franklin encapsulation system
- Factory filled with Franklin's FES91 motor fill solution
- Liquid lubricated radial bearings and High capacity Kingsbury type thrust bearing for 100 % maintenance free operation
- Field replaceable lead using Franklin's exclusive Water Bloc technology
- Pressure-equalizing diaphragm, spring pre-loaded
- Standard motors WW (Water well)- Stator 304SS / Castings - CI Powder coated
- SandFighter™ sealing system with SiC/SiC mechanical seal and sand slinger
- High efficiency electrical design for low operation costs
- Drinking water approvals

STANDARD SPECIFICATION

- Ratings: 4 - 45 kW
- Thrust load: 15.5 kN: 4 - 22 kW, 27.5 kN: 30 kW, 45 kN: 37 - 45 kW
- Max. storage temperature - 15 °C - +60 °C
- Nominal ambient temperature (with 0.16 m/s cooling flow):
4 - 30 kW: 30 °C, 37 - 45 kW: 50 °C
- Standard Voltage: 50 Hz: 380-415 V -10 % / +6 % UN [380-415 V = (380-10%) – (415+6 %)]; 60 Hz: 460V / ± 10 % UN
- Protection IP68, Insulation class F
- Motor protection: DIN 61947-4-1
- Frequency of starts: 20 starts/ hour (with min. 3 minutes resting time), equally distributed
- DOL / YΔ - start (pos. of cables 90 °)
- Motor lead length: 4 m
- Vertical and horizontal operation, shaftend heightend
- Rotation counter clock wise facing shaft end (Rotation reversible for 3 phase motors)
- Integrated SubMonitor™ sensor (37 and 45 kW)

OPTIONS

- Higher-graded material: 304SS, 316SS
- Special Voltages
- 45 kN High Thrust version (Standard in 37 kW and 45 kW)
- Retrofittable PT 100 temperature sensor
- Integrated SubMonitor™ sensor (Standard for 37 and 45 kW)
- Special lead lengths up to 50 m



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6" 3~ ENCAPSULATED HIGH TEMP 90 °C MOTOR

Encapsulated motor for reliable operation with ambient temperatures up to 90 °C

- HighTemp 90 °C version for reliable operation with ambient temperatures up to 90 °C (with 0.16 m/s cooling flow)
- Ratings: 3.7 - 30 kW
- Liquid lubricated radial bearings and High capacity Kingsbury type thrust bearing for 100 % maintenance free operation
- SandFighter™ sealing system with SiC/SiC mechanical seal and sand slinger
- Increased thrust capacity up to 30 °C
- Factory filled with Franklin's FES92 motor fill solution
- Standard motors WW (Water well) - Stator: 304SS / Castings - CI Powder coated
- No cooling flow in larger wells necessary (12" / open reservoirs) up to 30 °C ambient temperature
- DOL / YΔ - start (pos. of cables 90 °)



High Temp



- Vertical and horizontal operation, shaftend heightend
- High temperature leads
- All features of the Standard version
 - Standard 6" Encapsulated motor

OPTIONS

- Special Voltages
- Higher-graded material: 316SS
- 45 kN High Thrust version (Standard in 22 kW and 30 kW)
- Retrofittable PT 100 temperature sensor
- HighTemp drop cable



6" 3~ ENCAPSULATED PERMANENT MAGNET MOTOR

Synchronous encapsulated motor for first-class efficiency

- Permanent Magnet Technology
- Up to 15 points (21 %) improved motor efficiency*
- Investment payback of less than two years
- Ratings: 4 - 45 kW, 380 V (100 Hz)
- Voltage Tolerance U_N : ± 10 %
- Nominal speed: 3000 rpm (100 Hz), 3600 rpm (120 Hz)
- Nominal ambient temperature: 30 °C (≤ 22 kW: with 0.16 m/s cooling flow, ≥ 26 kW: with 0.5 m/s cooling flow)
- Standard motors WW (Water well) - Stator: 304SS / Castings - CI Powder coated
- All features of the Standard version
- Vertical and horizontal operation, shaftend heightend



OPTIONS

- 45 kN High Thrust version
 - Higher-graded material: 304SS, 316SS
 - Retrofittable PT 100 temperature sensor
 - Special lead lengths up to 50 m
 - 60 Hz electrical designs
 - High Efficiency System package
 - Synchronous subm. NEMA motor
 - Submersible pump
 - Variable frequency drive
 - Matching output filter
- 6" High Efficiency System

