



6" SAND FIGHTER™ SUBMERSIBLE MOTORS FOR SANDY WELLS

*5 through 60 Horsepower, Three-phase
200 to 575 Volts; 60 and 50 Hertz*

APPLICATION DATA

SAND FIGHTER™ motors are built for superior dependability in sandy well applications.

This innovative sealing system utilizes an optimized mechanical seal with silicon-carbide faces in combination with numerous specially developed manufacturing processes.

The SAND FIGHTER™ sealing system completed a three-year development and one year field trial in the Lubbock, Texas market on January 1, 1999.

The results have been extraordinary... not one motor failure caused by sand entry!

SUBTROL-PLUS® OVERLOAD OPTION FOR THREE-PHASE MOTORS

A field proven and contractor friendly premium motor protection system. It protects the motor against overload, underload, overheating and rapid cycling. It also extends the motor warranty to a full three years. Motor must be manufactured with Subtrol-Plus® heat sensor, standard in 40-60 Hp models and offered as an option on 5-30 Hp models.



BASIC FEATURES

- Exclusive SAND FIGHTER™ sealing system
- Maximum temperature winding wire NEMA Class 200
- Anti-tracking, self-healing surge resistant resin system
- Hermetically-sealed electrical windings for maximum life
- Field replaceable lead with the Franklin Electric Water-Bloc™
- Double flange design for ease of pump mounting
- Stainless steel shell for corrosion resistance
- Cast iron end frames with epoxy coating for durability
- Stainless steel splined shaft for maximum shaft/coupling contact
- Kingsbury-type steel/carbon thrust bearing—the best for water lubricated motors

SPECIAL FEATURES

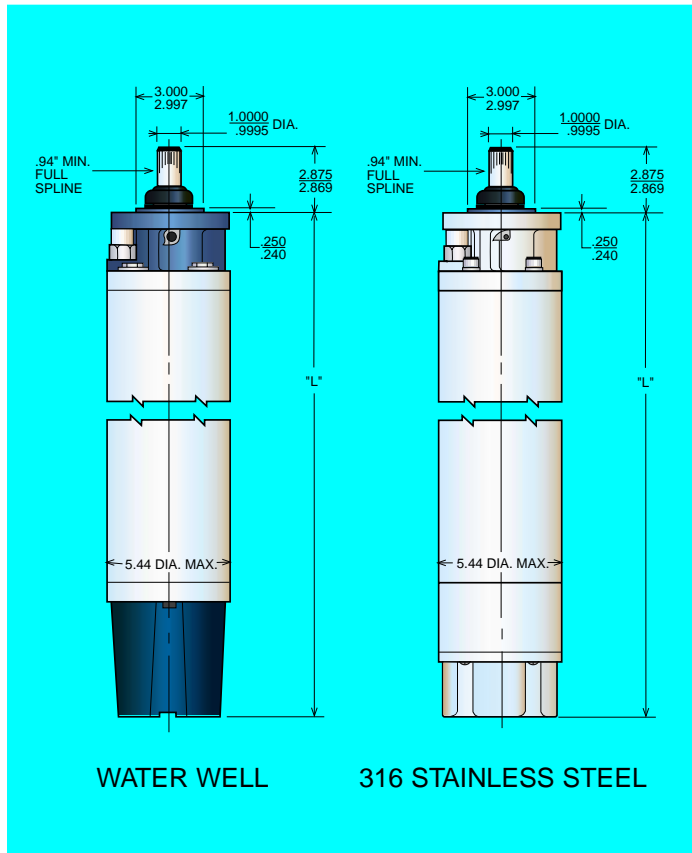
- **316 Stainless Steel:** Special construction option for acid, low pH, and seawater applications. All 316 SS motors include a Subtrol-Plus heat sensor.
- 3-lead & 6-lead (Wye-Delta) configurations for 3-phase



Franklin Electric

6" SAND FIGHTER™ SUBMERSIBLE MOTORS

DIMENSIONS



AVAILABILITY ①

| hp | kw | Water Well "L" Dim. | | 316 SS "L" Dim. | | 316 SS Shipping Weight | |
|----|------|------------------------|-------|--------------------|-------|---------------------------|-----|
| | | ins | cm | ins | cm | lbs | kgs |
| 5 | 3.7 | 22.9 | 58.1 | 22.5 | 57.1 | 103 | 47 |
| 7½ | 5.5 | 24.2 | 61.4 | 23.8 | 60.4 | 110 | 50 |
| 10 | 7.5 | 25.4 | 64.6 | 25.0 | 63.6 | 118 | 54 |
| 15 | 11.0 | 28.0 | 71.1 | 27.6 | 70.1 | 131 | 60 |
| 20 | 15.0 | 30.6 | 77.6 | 30.2 | 76.6 | 147 | 67 |
| 25 | 18.5 | 33.1 | 84.2 | 32.7 | 83.1 | 158 | 72 |
| 30 | 22.0 | 35.7 | 90.7 | 35.3 | 89.6 | 176 | 80 |
| 40 | 30.0 | 40.8 | 103.7 | 40.4 | 102.6 | 206 | 94 |
| 50 | 37.0 | 55.3 | 140.5 | 55.7 | 141.5 | 304 | 138 |
| 60 | 45.0 | 61.3 | 155.7 | 61.7 | 156.8 | 334 | 152 |

① 60 Hz - Nominal 3,450 RPM
50 Hz - Nominal 2,875 RPM



CONSTRUCTION MATERIALS

| Component | Environment Type | |
|--------------------------|-----------------------------------|---------------------------|
| | Sandfighter Water Well | 316 SS |
| 1. Castings | Gray Iron | 316 SS |
| 2. Stator Shell | 301 SS | 316 SS |
| 3. Stator Ends | Low Carbon Steel | 316 SS |
| 4. Shaft Extension | 303 SS, Except 17-4 SS On 40-60hp | 17-4 SS |
| 5. Fasteners | 300 & 400 Series SS | 316 SS |
| 6. Seal Cover | 304 SS & Sintered Bronze | 316 SS |
| 7. Seal | Sand Fighter™ Seal System | Sand Fighter™ Seal System |
| 8. Diaphragm | Nitrile Rubber | Nitrile Rubber |
| 9. Diaphragm Plate | 304 SS | 316 SS |
| 10. Diaphragm Spring | 302 SS | 17-7 SS |
| 11. Slinger | Nitrile Rubber | Type 100 Hydrin |
| 12. Lead Wire (or Cable) | Hypalon 75°C | Hypalon 75°C |
| 13. Lead Potting | Epoxy | Epoxy |
| 14. Filter | Delrin & Polyester | 316 SS Plug |
| 15. Insulation | Class F | Class F |

Specifications subject to change without notice. Contact Franklin Electric if current material types are required for bid specifications.



Franklin Electric

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