



MADE IN THE U.S.A.

**SAND  
FIGHTER**

## 6" SAND FIGHTER™ SUBMERSIBLE MOTORS FOR SANDY WELLS

*5 through 15 horsepower single-phase  
5 through 60 horsepower three-phase*

### 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!

### BASIC FEATURES

- Exclusive SAND FIGHTER™ sealing system
- Full 3450 RPM design point
- 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

A complete line of single-phase control boxes are available from Franklin Electric.

### **SUBTROL-PLUS® OVERLOAD OPTION FOR THREE-PHASE MOTORS**

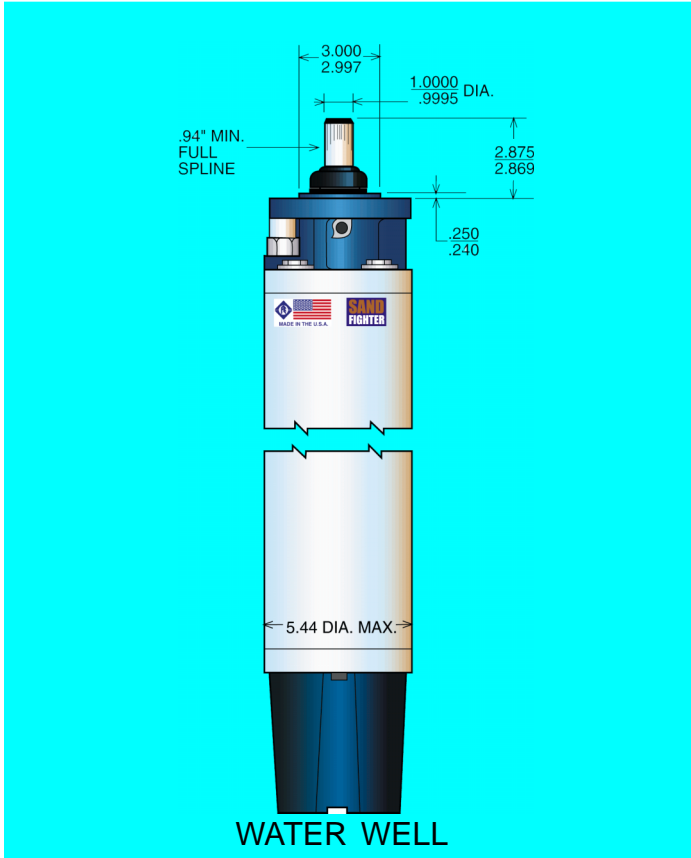
A field proven and contractor friendly premium motor protection system. It protects the motor against overload, underload, overheating and rapid cycling. It also extends the motor warranty to a full three years. Motor must be manufactured with Subtrol-Plus® heat sensor, standard in 40-60Hp models and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



**Franklin Electric**

# 6" SAND FIGHTER™ SUBMERSIBLE MOTORS

## DIMENSIONS



## CONSTRUCTION MATERIALS

### Component

Component	Sandfighter Water Well
1. Castings	Gray Iron
2. Stator Shell	301 SS
3. Stator Ends	Low Carbon Steel
4. Shaft Extension	303 SS, Except 17-4 SS On 40-60Hp
5. Fasteners	300 & 400 Series SS
6. Seal Cover	304 SS & Sintered Bronze
7. Seal	Sand Fighter™ SIC/SIC Mechanical Seal
8. Diaphragm	Nitrile Rubber
9. Diaphragm Plate	304 SS
10. Diaphragm Spring	302 SS
11. Slinger	Nitrile Rubber
12. Lead Wire (or Cable)	Hypalon
13. Lead Potting	Epoxy
14. Filter	Delrin & Polyester

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

## AVAILABILITY

Single-Phase, Capacitor start, capacitor run , 60Hz - 3450 RPM

HP	KW	DOWNWARD THRUST	VOLTS	HZ	SERVICE FACTOR
5	3.7	1500 lbs.	230	60	1.15
7 1/2	5.5	1500 lbs.	230	60	1.15
10	7.5	3500 lbs.	230	60	1.15
15	11.0	3500 lbs.	230	60	1.15

Three-Phase, 60Hz - 3450 RPM

HP	KW	DOWNWARD THRUST	VOLTS	HZ	SERVICE FACTOR			
5	3.7	1500 lbs. 6500 N	200	60	1.15			
			230	60	1.15			
			380	60	1.15			
			460	60	1.15			
			575	60	1.15			
7 1/2	5.5	1500 lbs. 6500 N	200	60	1.15			
			230	60	1.15			
			380	60	1.15			
			460	60	1.15			
			575	60	1.15			
10	7.5	3500 lbs. 15500 N	200	60	1.15			
			230	60	1.15			
			380	60	1.15			
			460	60	1.15			
			575	60	1.15			
15	11	3500 lbs. 15500 N	200	60	1.15			
			230	60	1.15			
			380	60	1.15			
			460	60	1.15			
			575	60	1.15			
20	15	3500 lbs. 15500 N	200	60	1.15			
			230	60	1.15			
			380	60	1.15			
			460	60	1.15			
			575	60	1.15			
25	18.5	3500 lbs. 15500 N	200	60	1.15			
			230	60	1.15			
			380	60	1.15			
			460	60	1.15			
			575	60	1.15			
30	22	3500 lbs. 15500 N	200	60	1.15			
			230	60	1.15			
			380	60	1.15			
			460	60	1.15			
			575	60	1.15			
40	30	6000 lbs. 27500 N	380	60	1.15			
			460	60	1.15			
			575	60	1.15			
			50	37	6000 lbs. 27500 N	380	60	1.15
						460	60	1.15
575	60	1.15						
60	45	6000 lbs. 27500 N				380	60	1.15
						460	60	1.15
			575	60	1.15			



**Franklin Electric**

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