

# 6" SAND FIGHTER SUBMERSIBLE MOTORS



Motors  
Drives  
Controls  
Protection

## Single-Phase 5-15 hp & Three-Phase 5-40 hp

### Application Data:

The Sand Fighter™ sealing system is a Franklin Electric exclusive. This innovative sealing system utilizes proprietary manufacturing methods and an optimized mechanical seal with silicon-carbide seal faces. Sand Fighter is an ideal motor choice for abrasive applications.

The Sand Fighter motor is a standard 30 °C (86 °F) water well motor manufactured with the Sand Fighter sealing system as standard. Many of the popular ratings are available from stock.

Franklin's SubMonitor overload protection option extends motor warranty to three years. The SubMonitor protection system guards the motor against overload, underload, overheating and rapid cycling.

\* Contact factory for warranty details.

### Basic Features:

- FE exclusive Sand Fighter sealing system
- Subtrol-plus heat sensor equipped
- A complete line of single-phase control boxes are available from Franklin Electric.
- Full 3450 RPM @ 60 Hz design point for superior pump head & flow yield
- Full rated Hp output at 30 °C (86 °F) Ambient & 0.5 ft/sec flow by the motor
- High temperature winding wire rated 180 °C (356 °F)
- Hermetically-sealed winding area to seal the winding from moisture
- Winding resin encapsulation ensures the stability of the windings; thus, extends motor life
- FE encapsulating resin provides unique anti-tracking properties, higher surge resistance & excellent heat transfer
- FE FES91 water soluble fill and bearing lubrication solution is environmentally safe - no oil
- FE exclusive Water-Bloc™ connection allows the lead to be replaced in the field
- Copper bar rotors provide more consistent performance than other designs
- Double flange design increases ease and safety of handling the motor and mounting the pump
- Steel/carbon Kingsbury-type thrust bearings provide the best performance in water lubricated motors
- Stainless steel shell provides corrosion resistance
- Cast iron epoxy coated end frames provide durability
- Spline shaft provides maximum shaft/coupling contact
- Spring loaded equalizing diaphragm provides superior pressure compensation



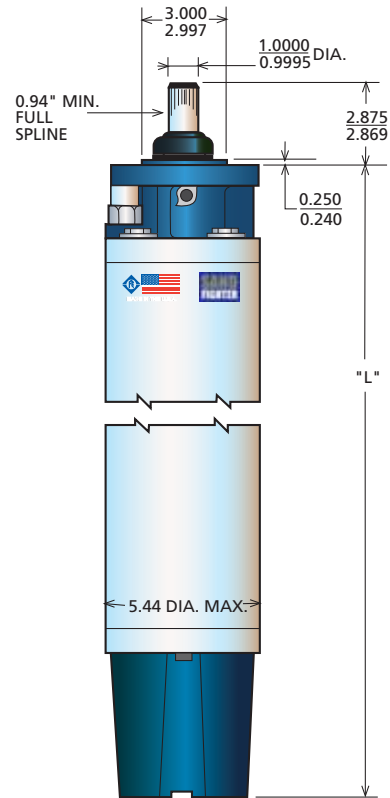
# Availability

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

HP	KW	DOWNWARD THRUST	VOLTS	HZ	SERVICE FACTOR
5	3.7	3500 lbs.	230	60	1.15
7.5	5.5	3500 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, 60 Hz - 3450 RPM

HP	KW	DOWNWARD THRUST	VOLTS	HZ	SERVICE FACTOR
5	3.7	3500 lbs. 15500 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460	60	1.15
			575	60	1.15
7.5	5.5	3500 lbs. 15500 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460	60	1.15
			575	60	1.15
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



## Construction Materials

Component	Material
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 40-60 hp
5 Fasteners	300 & 400 Series SS
6 Seal Cover	304 SS & Sintered Bronze
7 Seal	Sand Fighter™ SiC/SiC Mech Seal
8 Diaphragm	Nitrile Rubber
9 Diaphragm Plate	304 SS
10 Diaphragm Spring	302 SS
11 Slinger	Nitrile Rubber
12 Lead Wire (or Cable)	XLPE
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.



**Franklin Electric**

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