

## 6" Submersible Motor DR56



### Applications

These motors are built for dependable operation in 6" diameter or larger water wells.

### Basic Features

- Up to 122 °F (50 °C) ambient temperature.
- Hermetically sealed stator
- Innovative high temperature winding encapsulation system
- 10,000 lb KINGSBURY-type thrust bearing
- FES91 Exclusive water soluble bearing lubrication
- Double-flange NEMA mounting for ease of handling and pump mounting
- Stainless steel splined shaft for maximum shaft/coupling contact
- Full 3450 RPM 60 Hz design point for superior pump performance
- SAND FIGHTER™ Sealing System
- Subtrol heat sensor standard
- Franklin Electric's exclusive Water-Bloc™ lead connection
- 316 SS and Y-Δ designs are available, consult factory.
- Extended warranty available when registered with FE SubMonitor overload protection

### Special Options

- Sand Fighter® models are equipped with:
  - Franklin's exclusive Sand Fighter Sealing System for sand or other abrasives well water.
  - Franklin's exclusive on winding SubTrol® heat sensor for use with SubMonitor®.
- SubMonitor is a state-of-the-art electronic motor overload that is sold separately.
  - Mounts in the above ground panel requiring no additional wiring to the motor.
  - User friendly, field proven.
  - Protection monitors for balanced power, overload, underload, overheating, rapid cycling and more.
  - Can be used with or without a SubTrol heat sensor.
  - Supplies superior on winding heat protection when manufactured with the SubTrol heat sensor.

Consult factory for other voltage, Hertz and horsepower ratings not listed in this catalog.  
Specifications are subject to change without notice. Contact Franklin Electric if current materials are required for bid specifications.

# 6" Submersible Motor DR56

## Standard 6" Motor Specifications

Hz	Ph	Hp Range	kW Range	Poles	RPM	Max. Ambient Temp.	Duty Rating
60	3	50 & 60	37 & 45	2	3450	122 °F / 50 °C	Continuous at 0.5 ft/sec flow past motor

## 6" Construction Materials

Component	Construction Type	
	Sand Fighter™	316 SS
UL Insulation Class Rating	Class F	Per Sand Fighter
Motor Ambient Temperature Rating	122 °F / 50 °C	Per Sand Fighter
Stator Resin Type	Hi-Temp	Per Sand Fighter
Motor Fill Solution (Water Soluble/Non-Toxic)	FES92	Per Sand Fighter
Top End Bell & Thrust Housing	Epoxy Coated Gray Iron	316 SS
On Winding SubTrol® heat sensor	Yes	Yes
Stator Shell	300 SS Series	316 SS
Stator Ends	Carbon Steel	316 SS
Shaft Extension	17-4 SS	17-4 SS
Bushing	Bronze	316 SS
Bushing Retainer	300 SS Series	316 SS
Shaft Mechanical Seal	Sand Fighter Seal System	Sand Fighter Seal System
Mechanical Seal Rubber Components	Viton	Viton
Diaphragm Material	Viton	Viton
Diaphragm Plate	300 SS Series	316 SS
Diaphragm Spring	300 SS Series	17-7 SS
Shaft Slinger	Viton	Viton
Lead Wire	XLPE	XCPE
Lead Potting	Epoxy	Epoxy
Lead Jam Nut	Brass	316 SS
Thrust Bearing Rating (122 °F / 50 °C)	10,000 lbs	10,000 lbs
Method Of Connecting System Ground To Motor	Ground Wire In Power Lead Connector	Per Sand Fighter

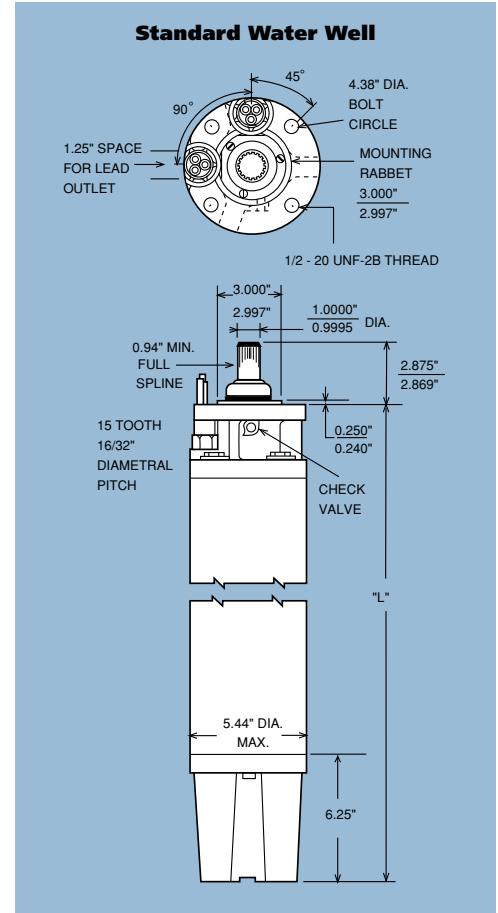
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## 6" Dimensions and Weights

### Standard Three-Phase Water Well

HP	KW	"L" (inches)	Shipping Weight		Motor Carton Size (in inches)
			LBS	KG	
50 & 60	37 & 45	64.14	335	152	8.75 x 10.50 x 71.75



HP (KW)	Construction	Description							Model	Stock Status
		PH	Volts	HZ	Subtrol Heat Sensor	S.F.	# Leads	Wire Size (AWG)		
50 hp / 60 hp 37 kW / 45 kW	Sand Fighter	3P	380	60	Yes	1.15	3	#8 w/GND	276 029 62	Yes
		3P	380	60	Yes	1.15	6-90°	#8 w/GND	276 039 62	
		3P	415	50	Yes	1.00	3	#8 w/GND	276 049 62	
		3P	460/380-415	60/50	Yes	1.15/1.00	3	#8 w/GND	276 009 62	Yes
		3P	460/380-415	60/50	Yes	1.15/1.00	6-90°	#8 w/GND	276 019 62	Yes
		3P	575	60	Yes	1.15	3	#8 w/GND	276 059 62	Yes
	316 SS	3P	380	60	Yes	1.15	3	#8 w/GND	276 029 64	
		3P	380	60	Yes	1.15	6-90°	#8 w/GND	276 039 64	
		3P	415	50	Yes	1.00	3	#8 w/GND	276 049 64	
		3P	460/380-415	60/50	Yes	1.15/1.00	3	#8 w/GND	276 009 64	Yes
		3P	460/380-415	60/50	Yes	1.15/1.00	6-90°	#8 w/GND	276 019 64	
		3P	575	60	Yes	1.15	3	#8 w/GND	276 059 64	

#### NOTES:

1. Models designated above as Sand Fighter® are water well construction.
2. All 316 SS models are equipped with Sand Fighter sealing system.
3. All models listed above include factory-installed leads (13 ft).

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### 6" Models

HP (KW)	Construction	Description							Model	Stock Status
		PH	Volts	HZ	Subtrol Heat Sensor	S.F.	# Leads	Wire Size (AWG)		
<b>5 hp 3.7 kW</b>	Water Well	3P	230/460	60	Not Available	1.15	3	#10 w/GND	236 310 90	No
	Sand Fighter	3P	230/460	60	Yes	1.15	3	#10 w/GND	236 310 81	No
<b>7.5 hp 5.5 kW</b>	Water Well	3P	230/460	60	Not Available	1.15	3	#10 w/GND	236 311 90	Yes
	Sand Fighter	3P	230/460	60	Yes	1.15	3	#10 w/GND	236 311 81	Yes
<b>10 hp 7.5 kW</b>	Water Well	3P	230/460	60	Not Available	1.15	3	#10 w/GND	236 312 90	Yes
	Sand Fighter	3P	230/460	60	Yes	1.15	3	#10 w/GND	236 312 81	Yes
<b>15 hp 11 kW</b>	Water Well	3P	230/460	60	Not Available	1.15	3	#10 w/GND	236 313 90	Yes
	Sand Fighter	3P	230/460	60	Yes	1.15	3	#10 w/GND	236 313 81	Yes
<b>20 hp 15 kW</b>	Water Well	3P	230/460	60	Not Available	1.15	3	#8 w/GND	236 314 90	Yes
	Sand Fighter	3P	230/460	60	Yes	1.15	3	#8 w/GND	236 314 81	Yes
<b>25 hp 18.5 kW</b>	Water Well	3P	230/460	60	Not Available	1.15	3	#8 w/GND	236 315 90	Yes
	Sand Fighter	3P	230/460	60	Yes	1.15	3	#8 w/GND	236 315 81	Yes
<b>30 hp 22 kW</b>	Water Well	3P	230/460	60	Not Available	1.15	3	#8 w/GND	236 316 90	Yes
	Sand Fighter	3P	230/460	60	Yes	1.15	3	#8 w/GND	236 316 81	Yes