

# 6" ENCAPSULATED SUBMERSIBLE MOTORS

**Single-Phase 5-15 hp & Three-Phase 5-40 hp  
200-575 volts 60 & 50 Hz**

**Motors**

Drives

Controls

Protection

## Application Data:

These motors are built for dependable operation in 6-inch diameter or larger water wells. Temperature and time ratings are continuous in 86 °F (30 °C) water at 1/2 ft./sec. flow past the motor. Rotation: single-phase, CCW facing shaft end; three-phase, electrically reversible.

## Basic Features:

- Full 3450 RPM design point
- Maximum temperature winding wire NEMA class 200
- Anti-track self-healing resin system
- Hermetically-sealed windings
- Removable Water-Bloc™ lead
- Double flange design
- Stainless steel shell
- Kingsbury-type water lubricated thrust bearing
- Pressure equalizing diaphragm
- Sand slinger
- 3-lead & 6-lead (Wye Delta) configurations for 3-phase
- Copper bar rotor

## 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.
- **Sand Fighter™** models available for sandy wells. All Sand Fighter models include Subtrol-Plus heat sensor.

## SUBMONITOR® OVERLOAD OPTION FOR THREE-PHASE MOTORS

A field proven and contractor friendly premium motor protection system. It protects the motor against overload, underload, excessive winding temperature and rapid cycling. It also extends the motor warranty to a full three years.\* The motor must be manufactured with a Subtrol-Plus® heat sensor.

\*Contact factory for warranty details.



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## Availability

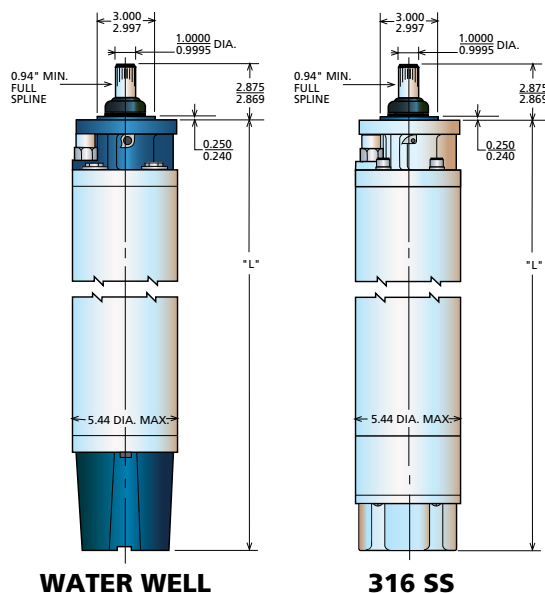
**Single-Phase** Capacitor start, Capacitor run (control box required)

| HP  | KW   | "L" Dim |      | 316 SS<br>"L" Dim |      | Shipping Weight |    |
|-----|------|---------|------|-------------------|------|-----------------|----|
|     |      | IN      | CM   | IN                | CM   | LBS             | KG |
| 5   | 3.7  | 25.4    | 64.6 | 25.0              | 63.6 | 112             | 51 |
| 7.5 | 5.5  | 28.0    | 71.1 | 27.6              | 70.1 | 125             | 57 |
| 10  | 7.5  | 30.6    | 77.7 | 30.2              | 76.6 | 143             | 65 |
| 15  | 11.0 | 33.1    | 84.2 | 32.7              | 83.1 | 156             | 71 |

**Three-Phase**

| HP  | KW   | "L" Dim |       | 316 SS<br>"L" Dim |       | Shipping Weight |    |
|-----|------|---------|-------|-------------------|-------|-----------------|----|
|     |      | IN      | CM    | IN                | CM    | LBS             | KG |
| 5   | 3.7  | 22.9    | 58.1  | 22.5              | 57.1  | 103             | 47 |
| 7.5 | 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 |

Note: 60 Hz - 3,450 RPM 50 Hz - 2,875 RPM



## Construction Materials

| Component            | Standard Water Well             | 316 SS                    |
|----------------------|---------------------------------|---------------------------|
| Castings             | Gray Iron                       | 316 SS                    |
| Stator Shell         | 310 SS                          | 316 SS                    |
| Stator Ends          | Low Carbon Steel                | 316 SS                    |
| Shaft Extension      | 303 SS, Except 17-4 SS on 40 hp | 17-4 SS                   |
| Fasteners            | 300 & 400 Series SS             | 316 SS                    |
| Seal Cover           | 304 SS & Sintered Bronze        | 316 SS                    |
| Seal                 | Carbon/Ceramic Face             | Sand Fighter™ Seal System |
| Diaphragm            | Nitrile Rubber                  | Nitrile Rubber            |
| Diaphragm Plate      | 304 SS                          | 316 SS                    |
| Diaphragm Spring     | 302 SS                          | 17-7 SS                   |
| Slinger              | Nitrile Rubber                  | Nitrile Rubber            |
| Lead Wire (or Cable) | XLPE                            | XLPE                      |
| Lead Potting         | Epoxy                           | Epoxy                     |
| Filter               | Delrin & Polyester              | 316 SS Plug               |
| Insulation           | Class F                         | Class F                   |

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



**Franklin Electric**

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