



## 6" ENCAPSULATED SUBMERSIBLE MOTORS

SINGLE-PHASE 5-15 HP AND THREE-PHASE 5-60 HP

200-575 VOLTS 60 AND 50 HZ

### APPLICATIONS

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.

### 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
- Over-molded lead for cable resilience.
- Stainless steel shell
- Kingsbury-type water lubricated thrust bearing
- Pressure-equalizing diaphragm
- Sand slinger
- 3-lead and 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 include SubTrol-Plus™ heat sensor on 40, 50, and 60 hp models.

### 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.



**WARNING:** Serious or fatal electrical shock or fire hazard may result from failure to follow the instructions for proper installation and use which accompany this equipment. Do not use motor in swimming areas.

# 6" ENCAPSULATED SUBMERSIBLE MOTORS

## AVAILABILITY

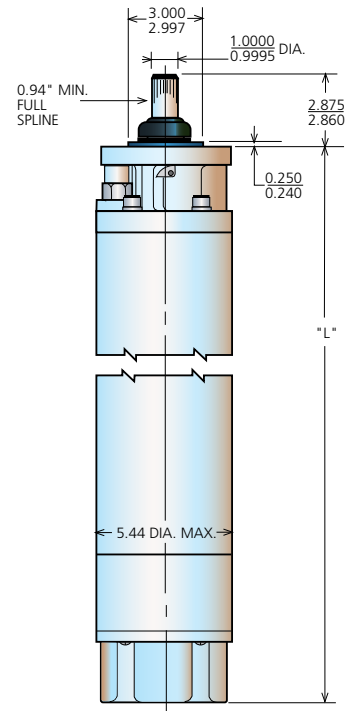
### Single-Phase Capacitor start, Capacitor run (Control box required)

| HP  | KW   | "L" Dim |      | 316 SS "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 "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  |
| 50  | 37   | 55.3    | 140.5 | 54.9           | 139.4 | 300             | 136 |
| 60  | 45   | 61.3    | 155.7 | 60.9           | 152.1 | 330             | 150 |

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



## CONSTRUCTION MATERIALS

| Component                                     | Construction Type                           |                                             |
|-----------------------------------------------|---------------------------------------------|---------------------------------------------|
|                                               | Sand Fighter                                | Corrosion Resistant (316 SS)                |
| UL Insulation Class Rating                    | Class F                                     | Class F                                     |
| Motor Ambient Temp. Rating                    | 86 °F/30 °C                                 | 86 °F/30 °C                                 |
| Stator Resin Type                             | Standard                                    | Standard                                    |
| Motor Fill Solution (Water Soluble/Non-Toxic) | FES91                                       | FES91                                       |
| Top End Bell and Thrust Housing               | Epoxy-coated Gray Iron                      | 316 SS                                      |
| Stator Shell                                  | 300 Series SS                               | 316 SS                                      |
| Stator Ends                                   | Carbon Steel                                | 316 SS                                      |
| Shaft Extension                               | 300 Series SS                               | 17-4 SS                                     |
| Bushing                                       | 316 SS                                      | 316 SS                                      |
| Bushing Retainer                              | 300 Series SS                               | 316 SS                                      |
| Shaft Mechanical Seal                         | Sand Fighter Seal System                    | Sand Fighter Seal System                    |
| Mechanical Seal/Rubber Components             | Nitrile                                     | Nitrile                                     |
| Diaphragm Material                            | 300 Series SS                               | 316 SS                                      |
| Diaphragm Plate                               | 300 Series SS                               | 25-6 MO SS                                  |
| Diaphragm Spring                              | Nitrile                                     | Nitrile                                     |
| Shaft Slinger                                 | Overmolded                                  | Overmolded                                  |
| Lead Wire                                     | Epoxy                                       | Epoxy                                       |
| Lead Potting                                  | Brass                                       | 316 SS                                      |
| Lead Jam Nut                                  | 3500 lbs (7.5-30 hp)<br>6000 lbs (40-60 hp) | 3500 lbs (7.5-30 hp)<br>6000 lbs (40-60 hp) |
| Thrust Bearing Rating (86°F/30°C)             | Ground wire in power lead connector         | Ground wire in power lead connector         |
| Method Of Connecting System Ground to Motor   |                                             |                                             |

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