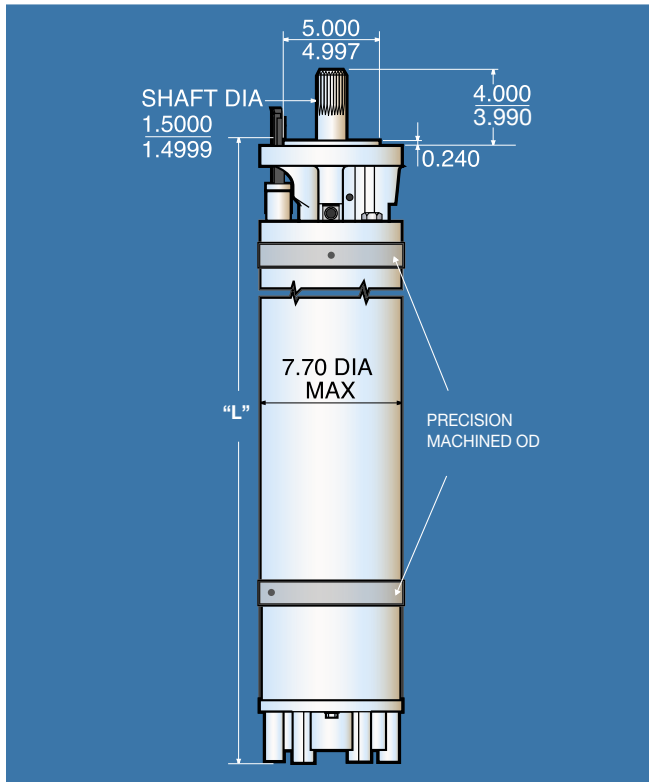


8" Booster Submersible Motors

DIMENSIONS



AVAILABILITY

Three-Phase, 60 Hz - 3525 RPM, 50 Hz - 2900 RPM

| HP | KW | DOWNWARD THRUST @ 40°C | VOLTS | HZ | SERVICE FACTOR | LENGTH "L" |
|-----|----|-------------------------|---------|-------|----------------|------------|
| 40 | 30 | 10,000 LBS. 45,000 N | 380 | 60 | 1.15 | 38.3 |
| | | | 460/380 | 60/50 | 1.15/1.0 | |
| | | | 575 | 60 | 1.15 | |
| 50 | 37 | 10,000 LBS. 45,000 N | 380 | 60 | 1.15 | 41.8 |
| | | | 460/380 | 60/50 | 1.15/1.0 | |
| | | | 575 | 60 | 1.15 | |
| 60 | 45 | 10,000 LBS. 45,000 N | 380 | 60 | 1.15 | 44.8 |
| | | | 460/380 | 60/50 | 1.15/1.0 | |
| | | | 575 | 60 | 1.15 | |
| 75 | 55 | 10,000 LBS. 45,000 N | 380 | 60 | 1.15 | 49.8 |
| | | | 460/380 | 60/50 | 1.15/1.0 | |
| | | | 575 | 60 | 1.15 | |
| 100 | 75 | 10,000 LBS. 45,000 N | 380 | 60 | 1.15 | 57.3 |
| | | | 460/380 | 60/50 | 1.15/1.0 | |
| | | | 575 | 60 | 1.15 | |
| 125 | 93 | 10,000 LBS. 45,000 N | 380 | 60 | 1.15 | 68.8 |
| | | | 460/380 | 60/50 | 1.15/1.0 | |
| | | | 575 | 60 | 1.15 | |

CONSTRUCTION MATERIALS

| Booster Exterior Components | 316 Stainless Steel | Stainless Steel w/ Painted Gray Iron Castings |
|-----------------------------|--------------------------|---|
| 1. Castings | 316 SS | Gray Iron |
| 2. Stator Shell | 316 SS | 304 SS |
| 3. Stator Ends | 316 SS | Low Carbon Steel |
| 4. Shaft Extension | 17-4 SS | 17-4 SS |
| 5. Fastners | 316 SS | 300 & 400 Series SS |
| 6. Seal Cover | 316 SS | 304 SS & Sintered Bronze |
| 7. Seal | Carbon/Ceramic Face Seal | Carbon/Ceramic Face Seal |
| 8. Diaphragm | Viton | Viton |
| 9. Diaphragm Plate | 316 SS | 304 SS |
| 10. Diaphragm Spring | 316 SS & 25-6 MO SS | 302 SS |
| 11. Lead Wire (or Cable) | XLPO 125°C | XLPO 125°C |
| 12. Lead Potting | Epoxy | Epoxy |

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





8" 299 BOOSTER MOTOR COMPACT AND QUIET

40 through 125 horsepower three-phase

APPLICATION DATA

Franklin Electric has developed its first Submersible Motor designed specifically for the many unique challenges of the non-vertical booster market, including systems with reverse osmosis media.

These motors take advantage of Franklin Electric's 60+ years of field-proven design and application experience in the premium grade encapsulated submersible motor industry.

The encapsulated submersible motor has been proven to be the best motor design for booster module applications because of its mechanically-fixed and hermetically-sealed windings.

This motor offers not only superior field features for motor reliability and life, but also brings many features that aid the module manufacturer.

BASIC FEATURES

- High temperature 104°F (40°C) ambient fluid temperature rating in a compact length.
- Removable high temperature leads that are suitable for use in air thus eliminating the need for in booster sleeve splicing. (Example: 40-100Hp 3-lead & 125Hp 6-lead in 460V 60Hz ratings)
- Exclusive FE592 water soluble, high temperature fill solution
- Hermetically sealed stator with resin encapsulated windings
- Special precision machined mounting surfaces for easier alignment of the motor in booster sleeves
- The largest size bearing systems available for the 8" encapsulated motor.
- Oversized fill solution reservoir to assure long life lubrication and increased cooling capacity.
- Franklin Electric exclusive radial and Kingsbury-type thrust bearing designs ensures optimum lubrication and cooling for maximum bearing life.
- Dynamically balanced rotor ensures smooth and quiet operation
- Field replaceable lead with the exclusive field proven Franklin Water Bloc™ connection
- Full 3525 RPM (60Hz) design point for superior pump performance
- Approved for VFD and Reduce Voltage applications
- Special provisions for exchanging motor fill solution when deionized water is required. (The motor fill solution provides superior lubrication to that of deionized water and should always be used when possible.)

