

# Submersible Pump

## Model S4B1-E50

### Size 4"



#### PUMP SPECIFICATIONS

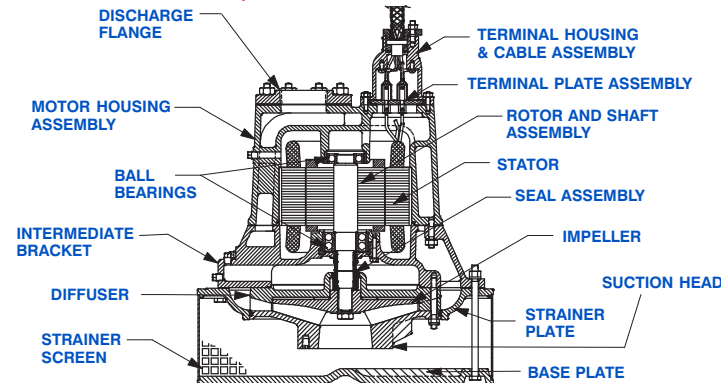
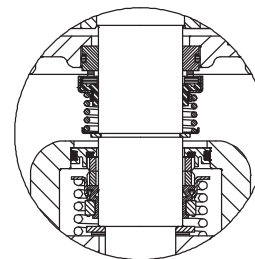
- Diffuser:** Ductile Iron 80-60-03;  
Maximum Operating Pressure 132 psi (910 kPa).\*
- Semi-Open Type, Six Vane Impeller:** Ductile Iron 80-60-03.
- Suction Head:** Ductile Iron 80-60-03.
- Motor Housing:** Aluminum Alloy 356-T6.
- Intermediate Bracket:** Aluminum Alloy 356-T6.
- Strainer Plate:** Aluminum Alloy 356-T6.
- Motor Shaft:** Stainless Steel 17-4 PH.
- Bearings:** Upper, Open Single Row Ball.  
Lower, Sealed Double Row Ball.
- Discharge Flange:** Gray Iron 30.
- Gaskets:** Cork <sup>w/</sup>Nitrile Binder (NC710) and Vegetable Fiber.
- O-Ring:** Synthetic Rubber (DuPont Neoprene® or Equivalent).
- Wetted Hardware:** Standard Plated Steel and Stainless Steel.
- Strainer:** Urethane Coated Steel; 48% Open Area, 0.62" (15,7 mm) Square Openings.
- Hoisting Bail.** Urethane Coated Steel.
- Standard Equipment:** NEMA Type 3R Rainproof Control Box. Provides On-Off, Circuit Breaker and Motor Overload Protection. (See Section 130, Page 95.)
- Optional Equipment:** Staging Adapter Kit. Turtle Type Pressure Activated Level Switch. Float Activated Level Switch. (See Sec. 130, Page 150.)



#### MOTOR/CABLE SPECIFICATIONS

- Motor:** Oil Filled Enclosure; 50 H.P.; 1750 R.P.M.;  
Three Phase: 460/575 Volt, 60 Hz, 71/57 Full Load Amps, 46 kW (Max.)
- Power Cable:** (460V) 6 Wire; Type GGC; 4 AWG. 3 Power Conductors, plus 2 Ground Conductors and 1 Ground Check. (575V) 6 Wire; Type GGC; 6 AWG. 3 Power Conductors, plus 2 Ground Conductors and 1 Ground Check. Nominal Length 50 Feet (15 m) Standard. (Specify Alternate Length at Time of Order.)
- Recommended Generator Size:** 60 kW Across the Line Start, 40 kW for Reduced Voltage Starting.

\* Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.



#### SEAL SPECIFICATIONS

- Tandem, Oil Lubricated.
  - Upper Seal:** Type 2, Mechanical. Carbon Rotating Face. Ni-Resist Stationary Face. Buna-N Elastomers. Stainless Steel 18-8 Cage and Spring.
  - Lower Seal:** Type 2, Mechanical. Tungsten Titanium Carbide Rotating and Stationary Faces. Stainless Steel 316 Stationary Seat. Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Stainless Steel 18-8 Cage and Spring.
- Maximum Temperature of Liquid Pumped, 122°F (50°C).\*



A John M. Ellsworth Company

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