



# Electric Motor Driven Submersible Pump

## Model S3A1 and S3A1-E5

### Size 3"



**PUMP SPECIFICATIONS**

- Diffuser:** Ductile Iron 80-60-03;  
Maximum Operating Pressure 71 psi (490 kPa).\*
- Impeller:** Ductile Iron 60-40-18.
- Suction Head:** Ductile Iron 65-45-12.
- Intermediate:** Aluminum Alloy 356-T6.
- Motor Housing:** Aluminum Alloy 356-T6.
- Motor Shaft:** Stainless Steel 416.
- Bearings:** Upper, Open Single Row Ball Bearing.  
Lower, Open Double Row Ball Bearing.
- Discharge Elbow:** Aluminum Alloy 356-T6.
- Gaskets:** Cork with Nitrile Binder (NC710).
- O-Rings:** Buna-N.
- Wetted Hardware:** Standard Plated Steel and Stainless Steel.
- Strainer:** Urethane Coated Steel. 50.6% Open Area,  
0.38" (9.6 mm) Diameter Openings.
- Hoisting Bail:** Urethane Coated Steel.

**Standard Equipment**

**NEMA Type 3R Rainproof Control Box.** (See Section 130, Pages 80 and 85.)  
Provides On-Off, Circuit Breaker and Motor Overload Protection.

**Optional Equipment**

- Liquid Level Control:** (See Sec. 130, Page 150.)
  - a. Turtle Type Pressure Activated Level Switch.
  - b. Float Activated Level Switch.

**Staging Adapter Kit.**

**MOTOR/CABLE SPECIFICATIONS**

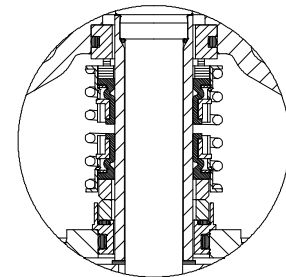
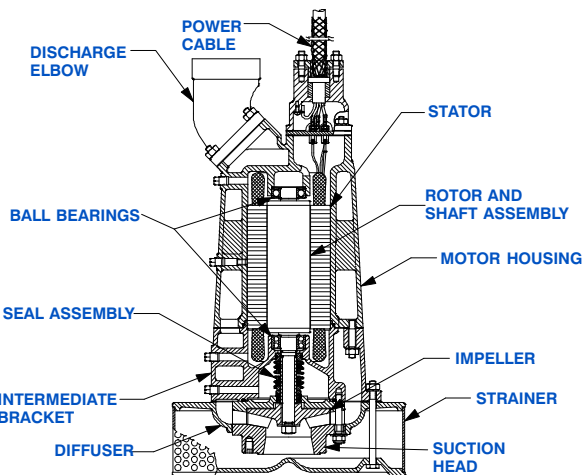
- Motor:** Oil Filled Enclosure; 5.0 H.P.; 3450 R.P.M.
- Single Phase:** 230 Volt, 60 Hz, 28 Full Load AMPS, 5.4 kW (Max.)
- Three Phase:** 200/230/460/575 Volt, 60 Hz, 18/16/8/6.5 Full Load AMPS, 5.3 kW (Max.)
- Power Cable:** 4 Wire; Type SO/SOW/SOOW; 10 AWG; 3 Power Conductors, Plus 1 Ground. Nominal Length 50 Feet (15 m). Standard.  
(Specify Alternate Length at Time of Order.)
- Recommended Generator Size:** 15 kW Across the Line Start.

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



**WARNING!**

Do not use in explosive atmosphere or for pumping volatile flammable liquids.



**SEAL SPECIFICATIONS**

Double, Mechanical, Type 2, Oil Lubricated. Buna-N and Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Brass Cage and Stainless Steel 18-8 Spring.  
Upper Faces:  
Carbon Rotating Face, Ni-Resist Stationary Face.  
Lower Faces:  
Tungsten Titanium Carbide Rotating and Stationary Faces.

Maximum Temperature of Liquid Pumped 122°F (50°C).\*



**GORMAN-RUPP PUMPS**

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Specifications Subject to Change Without Notice

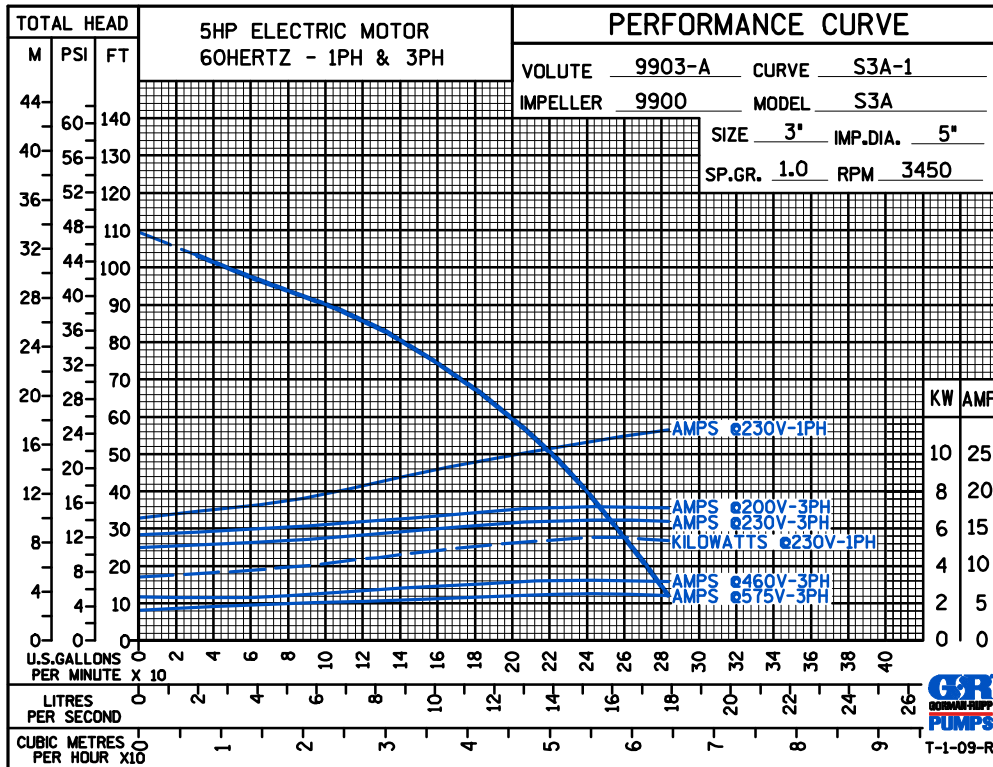
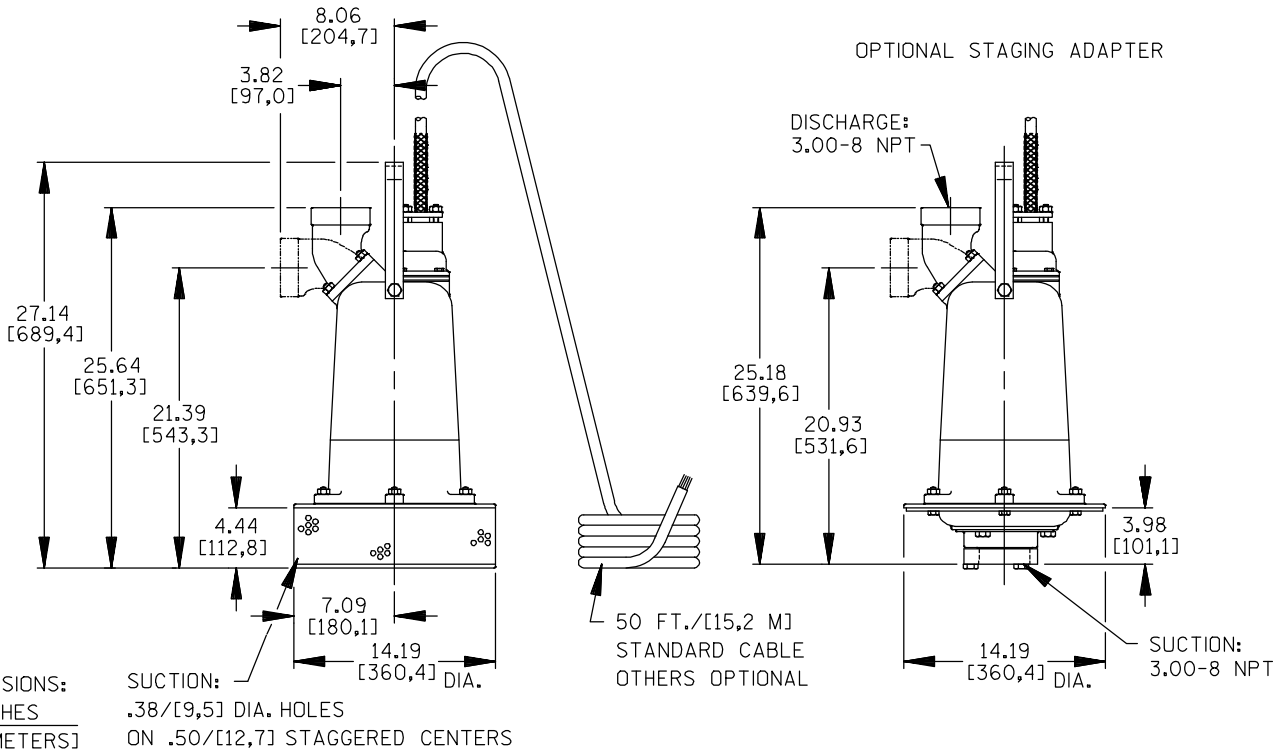
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**Specification Data**

SECTION 130, PAGE 600

APPROXIMATE  
DIMENSIONS and WEIGHTS

**NET WEIGHT:** 145 LBS. (65,8 KG.)  
**SHIPPING WEIGHT:** 160 LBS. (72,6 KG.)  
**EXPORT CRATE SIZE:** 7.6 CU. FT. (0,22 CU. M.)



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