Submersible Pump
Electric Motor Driven
Models S6A1 460V 3P and S6A1 575V 3P
Size 6”

PUMP SPECIFICATIONS
- Diffuser: Ductile Iron No. 80-60-03; Maximum Operating Pressure 77 psi (54 kg/cm²).*
- Suction Head: Ductile Iron No. 80-60-03.
- Motor Shaft: Stainless Steel Type 17-4 PH.
- Bearings: Upper, Open Single Row Ball Bearing.
  Lower, Two Seals, Double Row Ball Bearing.
- Discharge Flange: Gray Iron No. 30.
- Gaskets: Cork with Nitrile Binder (NC710) and Vegetable Fiber.
- O-Ring: Neoprene.
- Wetted Hardware: Standard Plated Steel and Stainless Steel.
- Strainer: Urethane Coated Steel; 59% Open Area, 1.0” (25.4 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
- Liquid Level Control
  a. Turtle Type Pressure Activated Level Switch. (See Sec. 130, Page 150.)
  b. Float Activated Level Switch. (See Sec. 130, Page 150.)
- Staging Adapter Kit: Part No. 48272-008.

MOTOR/CABLE SPECIFICATIONS
- Motor: Oil Filled Enclosure; 60 H.P.; 1750 R.P.M.;
  Three Phase: 460/575 Volt, 60 Hz,
  65/52 Full Load Amps, 45 kW (Max.)
- Power Cable: 6 Wire, Type GGC, 6 AWG; 3 Power Conductors, and 3 Ground Conductors.
  Nominal Length 50 Feet (15 m) Standard.
  (Specify Alternate Length at Time of Order.)
- Recommended Generator Size: 100 kW Across-the-Line Start.
  50 kW for Reduced Voltage Starting.

SEAL SPECIFICATIONS
- Tandem, Oil Lubricated.
- Lower Seal: Type 2, Mechanical. Tungsten Titanium Carbide Rotating and Stationary Faces. Stainless Steel Type 316, Stationary Seat. Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Stainless Steel Type 18-8 Cage and Spring.

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

* Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.
APPROXIMATE DIMENSIONS and WEIGHTS

- NET WEIGHT: 986 LBS. (447 KG.)
- SHIPPING WEIGHT: 1070 LBS. (485 KG.)
- EXPORT CRATE: 35.2 CU. FT. (1.0 CU. M.)

SUCTION:
- 1.00 (25.4) SQUARE HOLES
- EQUALLY SPACED ON 1.25 (31.8) CENTERS

DIMENSIONS:
- INCHES
- MILLIMETERS

6" VICTAULIC ADAPTER SUCTION

VIEW WITH STRAINER REMOVED

50 FT. (15.2 M) STANDARD CABLE

TOTAL HEAD | 60 HP ELECTRIC MOTOR | PERFORMANCE CURVE
--- | --- | ---
M | PSI | FT
--- | --- | ---
44 | 60 | 140
42 | 50 | 130
40 | 40 | 120
38 | 30 | 110
36 | 20 | 100
34 | 10 | 90
32 | 0 | 80
30 | -10 | 70
28 | -20 | 60
26 | -30 | 50
24 | -40 | 40
22 | -50 | 30
20 | -60 | 20
18 | -70 | 10
16 | -80 | 0

VOLUTE | 10035-A | CURVE | S6A-1
--- | --- | --- | ---
IMPELLER | 10033 | MODEL | S6A

- SIZE 6"
- IMP. DIA. 10.75"
- SP. GR. 1.0
- RPM 1750

THE GORMAN-RUPP COMPANY ● MANSFIELD, OHIO

Specifications Subject to Change Without Notice
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