



# Electric Motor Driven Submersible Pump

## Model S12A1-E140

### Size 12"



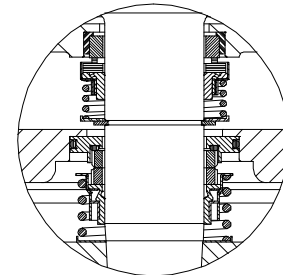
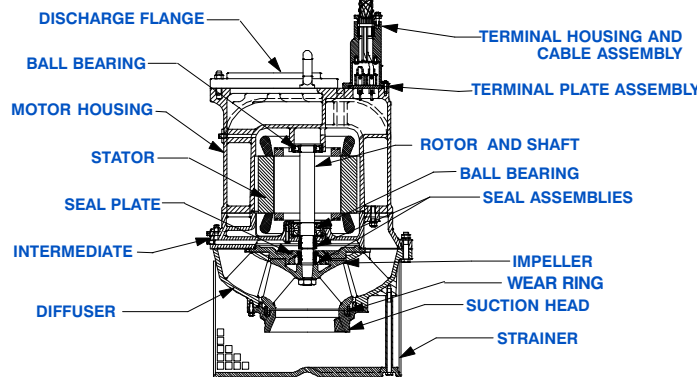
#### PUMP SPECIFICATIONS

- Diffuser:** Ductile Iron 80-60-03.  
Maximum Operating Pressure 90 psi (621 kPa).\*
- Impeller:** Ductile Iron 60-40-18.
- Suction Head:** Gray Iron 30.
- Wear Ring:** Copper Alloy C93200.
- Motor Housing:** Aluminum Alloy 356-T6.
- Intermediate Bracket:** Aluminum Alloy 356-T6.
- Seal Plate:** Gray Iron 30.
- 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 w/ Nitrile Binder (NC710) and Vegetable Fiber.
- O-Ring:** Buna-N
- Wetted Hardware:** Standard Plated Steel and Stainless Steel.
- Strainer:** Urethane Coated Steel; 60% Open Area,  
1.00" (25.4 mm) Square Openings.
- Hoisting Eye Bolts:** Urethane Coated Steel.
- Standard Equipment:**  
**NEMA Type 3R Rainproof Control Box.** Provides On-Off, Circuit Breaker and Motor Overload Protection. [\(See Section 130, Page 100.\)](#)
- Staging Adapter.**
- Optional Equipment**  
**Liquid Level Control:** [\(See Sec. 130, Page 150.\)](#)
  - a. Turtle Type Pressure Activated Level Switch.
  - b. Float Activated Level Switch.



#### MOTOR/CABLE SPECIFICATIONS

- Motor:** Oil Filled Enclosure; 140 H.P.; 1750 R.P.M.; Three Phase:  
460/575 Volt, 60 Hz, 171/137 Full Load Amps, 117 kW (Max.)
- Power Cable:** 6 Wire; Type GGC;  
**(460V)** 2/0 AWG 3 Power Conductors, 2 Ground Conductors and 1 Ground Check.  
**(575V)** 1 AWG; 3 Power Conductors, 2 Ground Conductors and 1 Ground Check.  
Nominal Length 50 Feet (15 m) Standard.  
*(Specify Alternate Length at Time of Order.)*
- Recommended Generator Size:** 200 kW Across the Line Start,  
150 kW for Reduced Voltage Starting.
- \* Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.*



#### SEAL DETAILS

Tandem, Oil Lubricated.

**Upper Seal:** Type 21, 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).\*



## GORMAN-RUPP PUMPS

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Specifications Subject to Change Without Notice

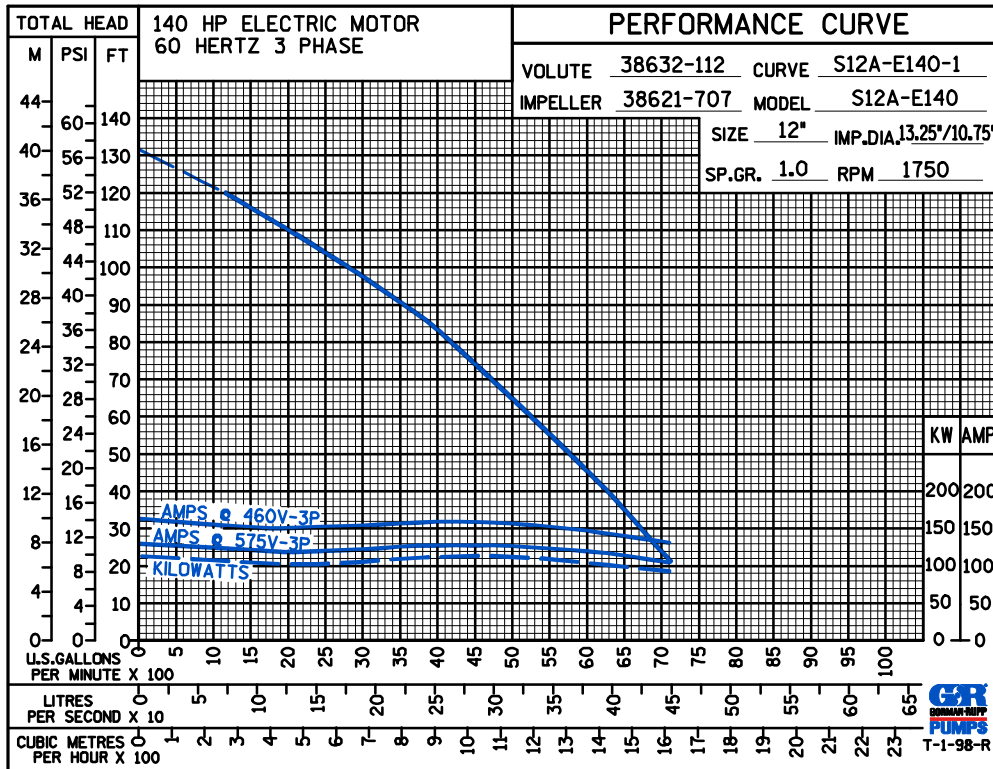
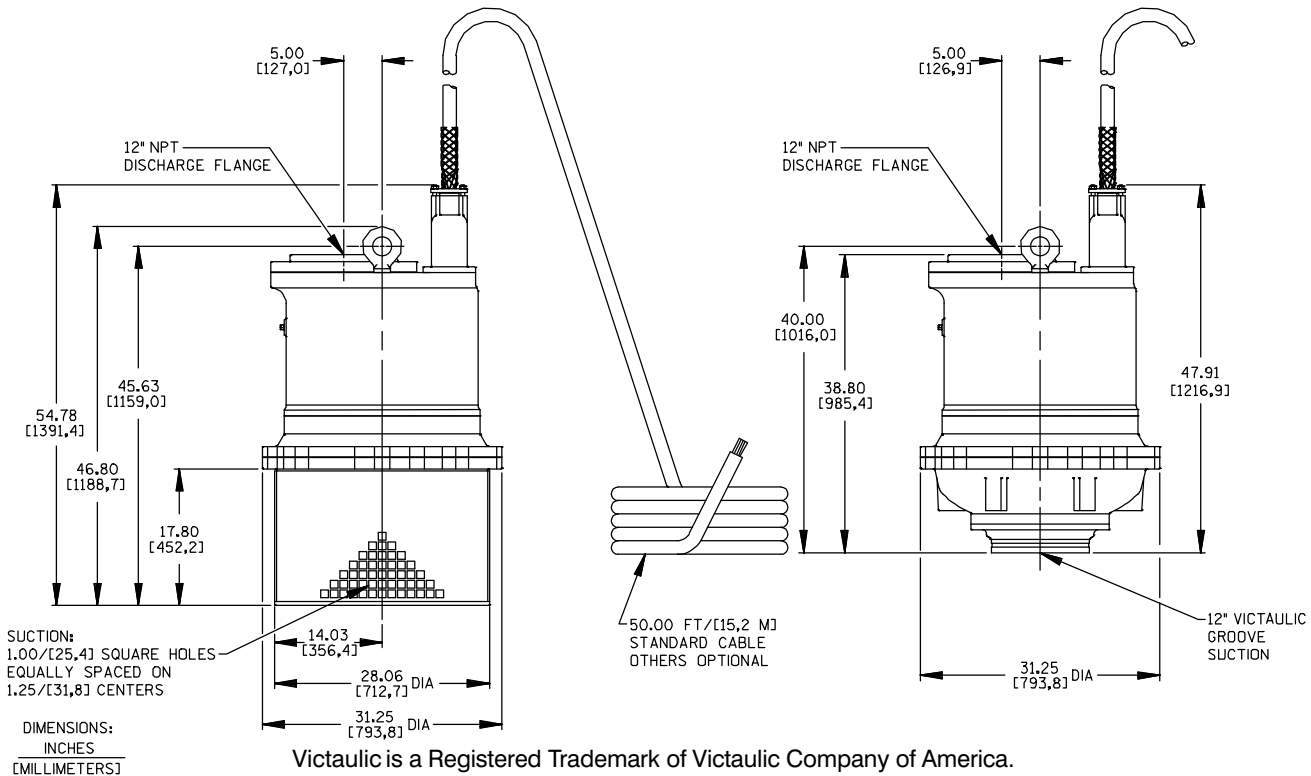
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**Specification Data**

**SECTION 130, PAGE 1700C**

APPROXIMATE  
DIMENSIONS and WEIGHTS

**NET WEIGHT: 1485 LBS. (674 KG.)**  
**SHIPPING WEIGHT: 1840 LBS. (835 KG.)**  
**EXPORT CRATE: 58 CU. FT. (1,6 CU. M.)**



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