



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

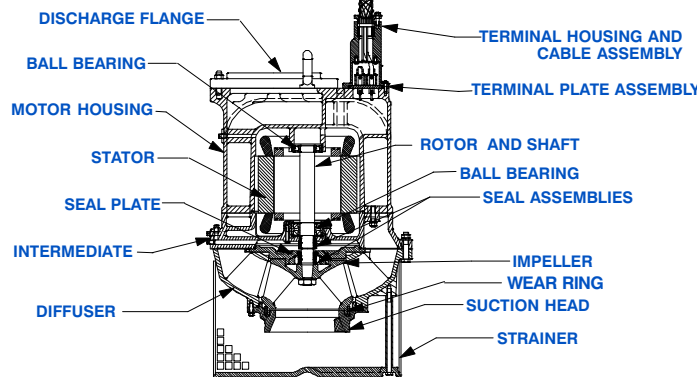
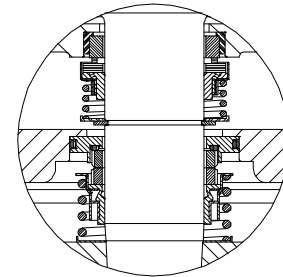
- Motor:** Oil Filled Enclosure; 140 H.P.; 1750 R.P.M.; Three Phase:
460/575 Volt, 60 Hz, 171/137 Full Load Amps, 117 kW (Max.)
- Power Cable:** 6 Wire; Type GGC;
- (460V)** 2/0 AWG 3 Power Conductors, 2 Ground Conductors and 1 Ground Check.
- (575V)** 1 AWG; 3 Power Conductors, 2 Ground Conductors and 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.*

WARNING!

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



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).*



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Specifications Subject to Change Without Notice

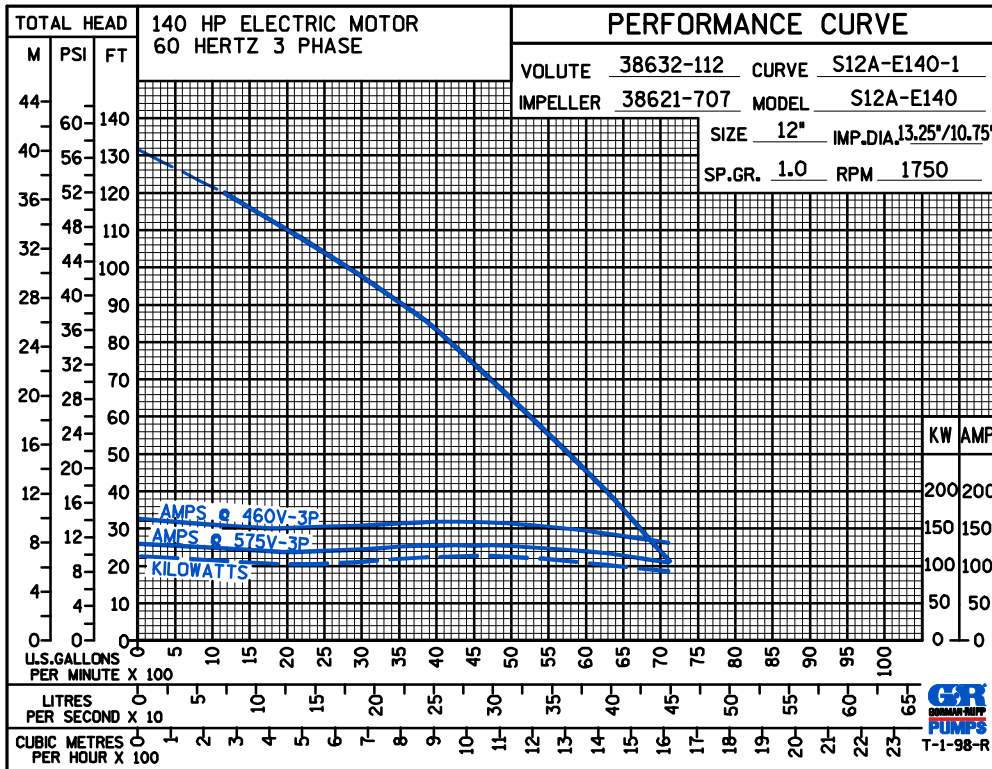
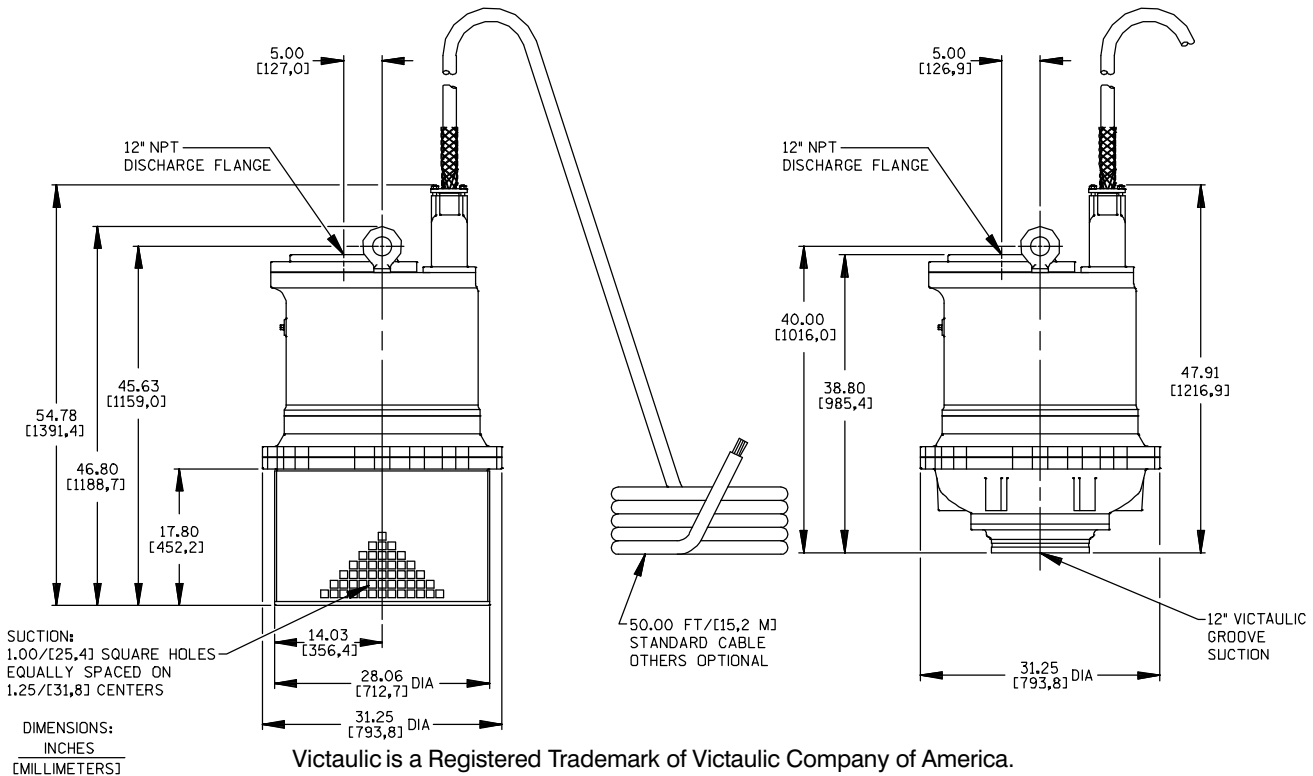
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Specification Data

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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