

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.)

- Turtle Type Pressure Activated Level Switch.
- 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.

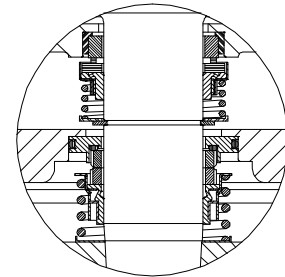
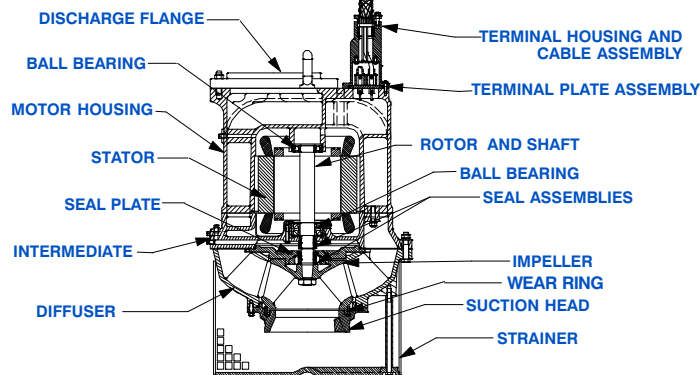
(575V) 1 AWG; 3 Power Conductors, 2 Ground Conductors and 1 Ground Check.

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).*



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Specifications Subject to Change Without Notice

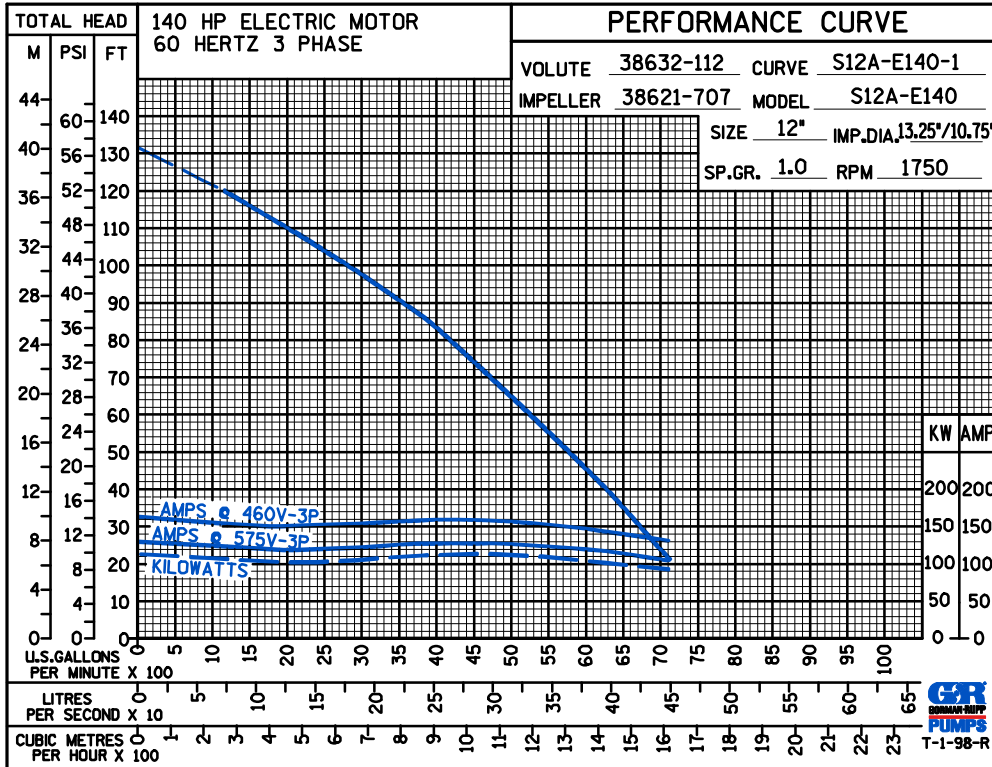
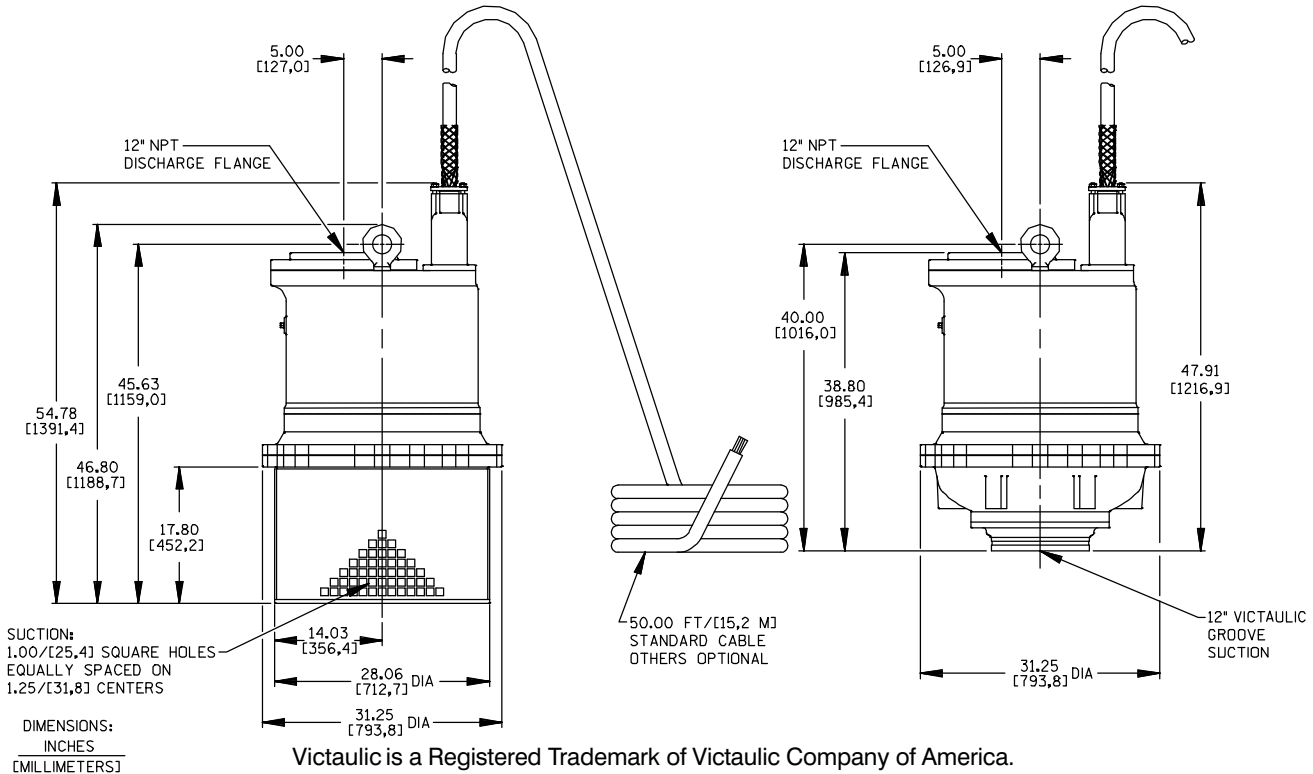
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Specification Data

SECTION 130, PAGE 1700

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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