FEATURES

Impeller: Cast iron, ASTM A48, Class 30, two vane semi-open, non-clog design with pump out vanes for mechanical seal protection. Computer balanced for smooth operation. Silicon bronze impeller is an option.

Casing: Heavy duty gray cast iron, ASTM A48, Class 30. Volute type casing with 4”, 125#, flanged, horizontal discharge conforming to ANSI standards. Compatible with A10-40, A10-60 cast iron or A10-40B, A10-60B cast iron and brass (non-sparking) slide rail assembly.

Seals: Tandem mechanical seal system in an oil filled seal chamber. Each seal operates independently to ensure fail safe performance. Standard seals are carbon rotary and ceramic stationary. Outer seals are designed for easy replacement. Optional seals are available.

Seal Sensor Probes: Pump has a standard dual probe moisture detection system located in an oil filled seal chamber. The sensor leads must be connected to a “seal fail circuit” in the control panel.
APPLICATIONS
Designed for a variety of hazardous commercial and industrial applications such as:
- Sewage systems
- Flood and pollution control
- Dewatering and effluent
- Hospitals
- Trailer courts
- Hotels and motels

SPECIFICATIONS
Pump:
- Maximum solid size: 3.0"
- Discharge size: 4" ANSI 125# Flange
- Maximum capacity: 650 GPM
- Maximum total head: 52’

MOTOR SPECIFICATIONS
- Maximum ambient temperature: 40°C (104°F)
- Rated for continuous duty with motor fully submerged
- Service Factor: 1.15
- HP range:
  - Three phase: 2 to 7.5 HP
- 60 Hz Voltages available:
  - Three phase: 200, 230, 460 and 575
- Insulation: Class F
- Single row ball bearings

MOTOR FEATURES
- Explosion Proof Motor: For use in hazardous locations. Rated Class 1, Groups C & D.
- Standards: All motors conform to the latest requirements of NEMA, IEEE, ANSI and NEC standards.
- Air filled motor
- Class F insulation
- Thermal Protection System: The motor is equipped with two automatic reset on-winding thermostats to protect it from high temperatures.
- Operating Design: Motors are designed for continuous submerged operation. The maximum allowable run time in air is 15 minutes.
- Bearings: Single row greased for life sealed bearings. Rated for minimum L10 life of 17,500 hours. The bearings are designed to carry the radial and thrust loads.
- Cable Entry: Power and control cables are epoxy encapsulated to prevent wicking even if the cable jacket is punctured. Buna-N grommets provide an additional cable seal.
- Shaft: The shaft is 416 stainless steel.
- Power and Control Cables: Standard length is 25’, optional 50’ is available. The power leads are sized from 14/4 to 10/4 depending on HP and voltage, rated as SOW and SOOW. The control cable is 18/5 SOW cable.

AGENCY LISTINGS
Tested to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association
File #218526

CONTROL PANEL REQUIREMENTS
To maintain warranty coverage and agency listings, Control Panels must have:
- Moisture Detection System - to warn of a seal failure.
- Thermal Protection System - winding thermostats open the pilot circuit of the magnetic motor controller before dangerous temperatures are reached.
- Overload (Over Current) Protection - Class 10, quick-trip: type overload protection must be provided in both three phase and single phase controls.
- Intrinsically Safe Relays - use “intrinsically safe relays” in a Class 1, Division 1, environment to power the float switches. They eliminate the danger of a spark if a switch cord becomes damaged. Intrinsically Safe Relays are available as an option from most panel suppliers. Other level control systems are available and may be applicable for this service, consult with your control manufacturer.

Typical Control Option:
- Guaranteed Pump Submergence Float - Many engineers specify a redundant OFF float or a Guaranteed Pump Submergence Circuit. This provides a second OFF float as protection from “OFF” float failure or hang up which protects the pump(s) from running dry.

*See CentriPro™ single phase control panel bulletin (BCP1PC1P-R-) or for three phase (BCPCF-R-).
### PUMP ORDER NUMBERS AND GENERAL INFORMATION

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<th>Pump Order No.</th>
<th>HP</th>
<th>Imp. Dia.</th>
<th>Phase</th>
<th>Volts</th>
<th>RPM</th>
<th>1.15 SF Amps</th>
<th>Impeller Code</th>
<th>Full Load Amps</th>
<th>Locked Rotor Amps</th>
<th>Power Cord</th>
<th>Power Cable Diameter (in.)</th>
<th>18/5 Control Cable Dia. (in.)</th>
<th>Wt. (lbs.)</th>
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### NOMENCLATURE DESCRIPTION

1st - 4th Characters

- **4** = 4” 125# ANSI Flanged Discharge
- **X** = Explosion Proof, Dual Seal with Seal Fail (moisture) Sensors
- **W** = Wastewater (Sewage)
- **S** = Semi-open Impeller

5th Character - Phase

- **3** = Three Phase
- **4** = Three Phase with Pilot Duty Thermal Sensors

6th Character - Horsepower

- **G** = 2
- **J** = 5
- **H** = 3
- **K** = 7.5

7th Character - Voltage

- **2** = 200
- **4** = 460
- **8** = 380
- **3** = 230
- **5** = 575

8th Character - Discharge Style

- **A** = ANSI Vertical Flange for Horizontal Discharge

9th Character - Motor RPM / Hertz

- **1** = 3500/60
- **5** = 2900/50
- **2** = 1750/60
- **6** = 1450/50
- **3** = 1150/60
- **7** = 950/50

10th Character - Impeller Code

- **G** = 7.69” 7.5 HP @ 1.15 Service Factor
- **H** = 7.12” 5 HP @ 1.15 Service Factor
- **J** = 6.31” 3 HP @ 1.15 Service Factor
- **K** = 5.69” 2 HP @ 1.15 Service Factor
- **T** = SPECIAL TRIM

11th Character - Lower (outer) Mechanical Seal

- **1** = Standard Lower Seal - Carbon rotary and ceramic/stationary with BUNA elastomers and 304 SS metal parts.
- **2** = Optional Lower Seal - Silicon carbide/rotary and silicon carbide stationary with Viton elastomers and 304 SS metal parts.
- **3** = Optional Lower Seal - Silicon carbide/rotary and tungsten carbide stationary with Viton elastomers and 304 SS metal parts.

12th Cord Length

- **C** = 25’ (standard)
- **F** = 50’

13th Options

- **1** = Silicon bronze impeller
- **2** = Epoxy coating
- **3** = Both 1 & 2
APPLICATION DATA

<table>
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<tr>
<th>Item No.</th>
<th>Part Name</th>
<th>Material</th>
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<td>300 Series SS</td>
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<td>7</td>
<td>Power and Control Cables</td>
<td>25', SOW/Soow</td>
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</table>

CONSTRUCTION DETAILS

- Power Cable - Type: 10/4, 12/4, 14/4 SOW, SOOW
- Control / Sensor Cable - Type: 18/5 SOW
- Cable Cap Assembly: Leads have a Buna grommet and are encapsulated in epoxy for a positive seal
- Power and Control Cable Lengths: 25' standard, 50' optional
- Motor Enclosure: Cast Iron, ASTM A-48, Class 30 (minimum)
- Motor Shaft: 416 Stainless Steel
- Motor Design: NEMA Design B – Air-filled
- Motor Insulation: Class “F”, 155º C (310º F) insulation
- Motor Thermal Protection: Two (2) normally closed on-winding thermostats open at 153º C (307º F), automatic reset closes at 140º C (284º F)
- Motor Overload Protection: Three phase units require Class 10, quick-trip, ambient compensated overloads in the control panel
- Motor Moisture Protection: Dual moisture sensing probes in an oil-filled seal chamber between inner and outer seals - Connect to a relay in control panel
- Casing: Cast Iron, ASTM A-48, Class 30
- Impeller: Cast Iron, ASTM A-48, Class 30 or Optional Cast Bronze ASTM B584 C87600
- Impeller Type: Semi-open, non-clog with pump out vanes on back shroud, computer dynamically balanced

STANDARD PARTS

- Ball Bearings: Greased for life, single row, upper and lower ball bearings, L10 rating life of 17,500 hours
- Mechanical Seals - Standard: Carbon - rotary / ceramic - stationary / Buna elastomers / 304SS metal parts
- Mechanical Seals - Optional: Silicon carbide - rotary / silicon carbide - stationary / Viton / 304SS
- Standard O-Rings: BUNA-N (nitrile)
- External Hardware: Stainless steel

DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)

MATERIALS OF CONSTRUCTION

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<th>Part Name</th>
<th>Material</th>
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<td>Cast iron – ASTM A48 Class 30</td>
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<td>1179</td>
<td>Silicon bronze – ASTM B584 C87600</td>
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