

DESIGN ENVELOPE 4280 END SUCTION | 0106-005.0 | SUBMITTAL

File No: 100.3502
Date: APRIL 18, 2016
Supersedes: NEW
Date: NEW

Job: _____ Representative: _____

Order No: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
Capacity: _____ USgpm (L/s) Head: _____ ft (m)
Liquid: _____ Viscosity: _____
Temperature: _____ °F (°C) Specific gravity: _____
Suction: 1.5" (40mm) Flanged
Discharge: 1" (25mm) Flanged
OSHDP Seismic Certification **OSP-0422-10**
UL STD 778 & CSA STD C22.2 NO.108 certified

MOTOR DESIGN DATA

HP: 5 RPM: 3600 Frame size: 184JM
Enclosure: TEFC Volts: _____ Hertz: 60 Hz
Phase: 3 Efficiency: NEMA premium 12.12

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)
140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)
250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- For exact installation, data please write factory for certified dimensions

MECHANICAL SEAL DATA

Seal type: 2A Stationary seat: Silicone carbide
Secondary seal: EPDM Rotating hardware: Stainless steel
Spring: Stainless steel

CONTROLS DATA

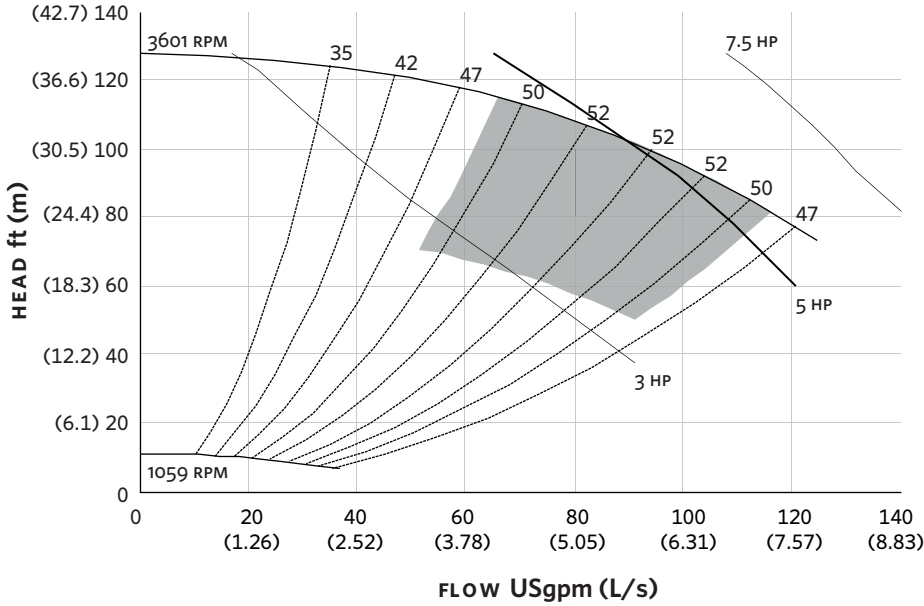
Sensorless control: Standard
Minimum system pressure to be maintained: _____ ft (m)*
Protocol (standard): Modbus RTU BACnet™ MS/TP
 Johnson® N2 Siemens® FLN
Protocol (optional): LonWorks®
Enclosure: Indoor - UL TYPE 12
Fused disconnect switch:
EMI/RFI control: Integrated filter designed to meet EN61800-3
Harmonic suppression: Dual DC-link reactors (equivalent: 5% AC line reactor) supporting IEEE 519-1992 requirements**
Cooling: Fan-cooled through back channel
Ambient temperature: -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)
Analog I/O: Two current or voltage inputs, one current output
Digital I/O: Six programmable inputs (two can be configured as outputs)
Pulse inputs: Two programmable
Relay outputs: Two programmable
Communication port: 1-RS485, 1-USB

*If minimum maintained system pressure is not known: Default to 40% of design head

**The IVS 102 drive is a low harmonic drive via built-in DC line reactors. This does not guaranty performance to any system wide harmonic specification or the costs to meet a system wide specification. If supplied with the system electrical details, Armstrong will run a computer simulation of the system wide harmonics. If system harmonic levels are exceeded Armstrong can also recommend additional harmonic mitigation and the costs for such mitigation.

| FLUID TYPE | ALL GLYCOLS > 30% WT CONC | | ALL OTHER NON-POTABLE FLUIDS | | POTABLE (DRINKING) WATER | |
|----------------|---------------------------|-------------------|------------------------------|------------------------|--------------------------|-------------------|
| | up to 200°F / 93°C | over 200°F / 93°C | up to 200°F / 93°C | over 200°F / 93°C | up to 200°F / 93°C | over 200°F / 93°C |
| Temperature | up to 200°F / 93°C | over 200°F / 93°C | up to 200°F / 93°C | over 200°F / 93°C | up to 200°F / 93°C | over 200°F / 93°C |
| Rotating face | Silicone carbide | | Resin bonded carbon | Antimony loaded carbon | Resin bonded carbon | |
| Seat elastomer | EPDM (L-cup) | EPDM (O-ring) | EPDM (L-cup) | EPDM (O-ring) | EPDM (L-cup) | EPDM (O-ring) |
| Material code | SCSc L EPSS 2A | SCSc O EPSS 2A | C-SC L EPSS 2A | ACSc O EPSS 2A | C-SC L EPSS 2A | C-SC O EPSS 2A |

EXTENDED SPEED



Performance curves are for reference only.
Confirm current performance data with Armstrong ACE Online selection software.

DIMENSION DATA

| INDOOR (UL TYPE 12/ODP) | |
|----------------------------|-------------|
| Frame size: | 184JM |
| Size: | 1.5×1×6 |
| HP: | 5 |
| RPM: | 3600 |
| A: | 9.08 (231) |
| B: | 7.09 (180) |
| C MAX: | 20.20 (513) |
| D1: | 5.25 (133) |
| D2: | 4.50 (114) |
| 2E: | 7.50 (191) |
| F: | 5.50 (140) |
| H: | 0.47 (12) |
| HD: | 6.65 (169) |
| HI: | 21.63 (549) |
| HV: | 13.67 (347) |
| N: | 6.28 (159) |
| NAN1: | 6.00 (152) |
| X: | 6.50 (165) |
| Y: | 4.00 (102) |
| Casing foot hole: | 0.63 (16) |
| Weight: | 269 (122.0) |

Dimensions - inch (mm)
Weight - lbs (kg)

INDOOR

- TORONTO
+1 416 755 2291
- BUFFALO
+1 716 693 8813
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+44 (0) 8444 145 145
- MANCHESTER
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