

DESIGN ENVELOPE 4280 END SUCTION | SINGLE PHASE | 1508-005.0 | SUBMITTAL

File No: 100.3622
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: 3" (75mm) Flanged
Discharge: 1.5" (40mm) Flanged
OSHDP Seismic Certification osp-0422-10
UL STD 778 & CSA STD C22.2 NO.108 certified

MOTOR DESIGN DATA

HP: 5 RPM: 1800 Frame size: 184JM
Enclosure: TEFC Volts: 208 Freq: 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

Power supply: Volts: 200-240VAC
Freq: 50/60Hz Phase: 1

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

Disconnect switch: Non-fused

EMI/RFI control: 1-phase IVS102 units do not meet the EN61800-3 directive

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

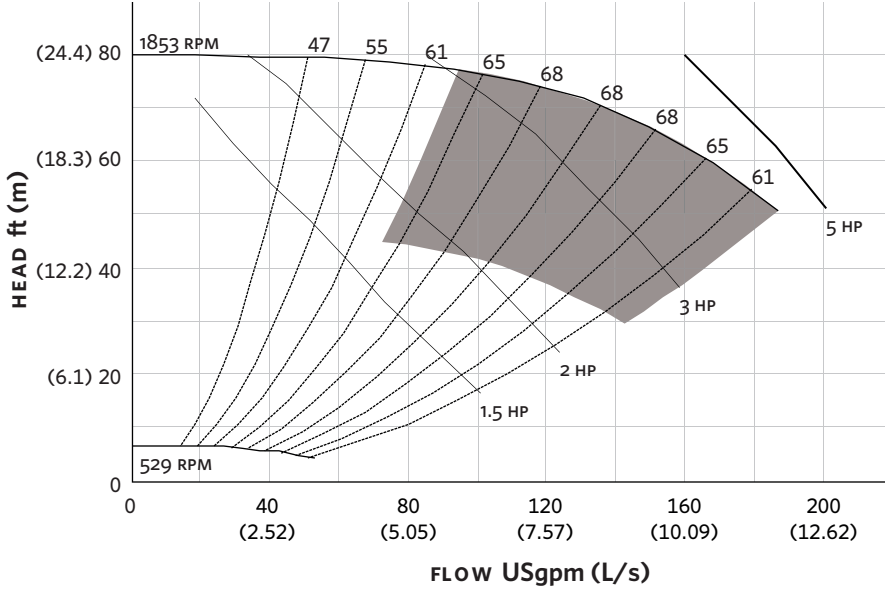
Relay outputs: Two programmable

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:** 3×1.5×8
- HP:** 5
- RPM:** 1800
- A:** 9.08 (231)
- B:** 7.09 (180)
- C MAX:** 21.09 (536)
- D1:** 5.63 (143)
- D2:** 4.50 (114)
- 2E:** 7.50 (191)
- F:** 5.50 (140)
- H:** 0.47 (12)
- HD:** 6.89 (175)
- HI:** 24.13 (613)
- HV:** 16.23 (412)
- N:** 6.30 (160)
- NAN1:** 6.00 (152)
- X:** 8.50 (216)
- Y:** 4.00 (102)
- Casing foot hole:** 0.63 (16)
- Weight:** 305 (138.3)

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

INDOOR

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