

DESIGN ENVELOPE 4280 END SUCTION

1508-003.0 | SUBMITTAL

File No: 100.3532

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

		Order No:	Date:			
Engineer:		Submitted by:	Date:			
		Approved by:	Date:			
PUMP DESIGN DATA		CONTROLS DATA				
No. of pumps:	Tag:	: Sensorless control:	Standard			
Capacity:USgpm (L/s) Liquid:			ft (m)*			
Temperature:°F (°C)		Duata and (atamalanal).	☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN			
Suction: 3" (75mm) Flanged		Protocol (optional):	☐ LonWorks®			
Discharge: 1.5" (40mm) Flange	ed	Enclosure:	☐ Indoor – UL TYPE 12			
OSHPD Seismic Certification OSP-042		Fused disconnect switch:				
UL STD 778 & CSA STD C22.2 NO.108	certified	ЕМІ/RFI control:	: Integrated filter designed to meet EN61800-3			
MOTOR DESIGN DATA HP: 3 RPM: 1800	Frame size: 182JM	Harmonic suppression:	Dual pc-link reactors (equivalent: 5% Ac line reactor) supporting IEEE 519-1992 requirements**			
Enclosure: TEFC Volts:	Hertz: 60 Hz	Cooling:	Fan-cooled through back channel			
Phase: 3 Efficiency: NEMA premium 12.12		Ambient temperature:	-10°C to +45°C up to 1000 meters abov sea level (-14°F to +113°F, 3300 ft)			
MAXIMUM PUMP OPER	ATING CONDITIONS		: Two current or voltage inputs, one current output			
ANSI 125 175 psig at 150°F (12 bars at 65°C		Digital ı/o:	Six programmable inputs (two can b configured as outputs)			
140 psig at 250°F (10 bars at 121°		Pulse inputs:	: Two programmable			
140 psig at 250 F (10 Dat's at 121°	C)	Relay outputs:	Two programmable			
ANSI 250		Communication port:	1-RS485, 1-USB			
300 psig at 150°F (20 bars at 65°C) 250 psig at 250°F (17 bars at 121°C)		•	*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			

Representative:

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

• Tolerance of ±0.125" (±3 mm) should be used

certified dimensions

MECHANICAL SEAL DATA

• For exact installation, data please write factory for

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
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 (0-ring)	EPDM (L-cup)	EPDM (0-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

and the costs for such mitigation.

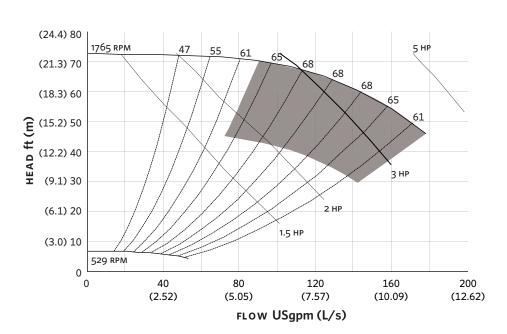
guaranty performance to any system wide harmonic specification or the costs to meet

a system wide specification. If supplied with the system electrical details, Armstrong

levels are exceeded Armstrong can also recommend additional harmonic mitigation

will run a computer simulation of the system wide harmonics. If system harmonic

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: 182JM

Size: 3×1.5×8

HP: 3

RPM: 1800

A: 7.50 (191)

B: 6.10 (155)

CMAX: 21.09 (536)

D1: 5.63 (143)

D2: 4.50 (114)

2E: 9.08 (231)

F: 4.50 (114)

H: 0.47 (12)

HD: 6.89 (175)

HI: 21.65 (550)

HV: 13.67 (347)

N: 6.30 (160)

NaN1: 6.00 (152)

x: 8.50 (216)

y: 4.00 (102)

Casing foot hole: 0.63 (16)

Weight: 295 (133.8)

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

INDOOR



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BUFFALO

+1 716 693 8813

BIRMINGHAM

+44 (0) 8444 145 145

MANCHESTER

+44 (0) 8444 145 145

BANGALORE

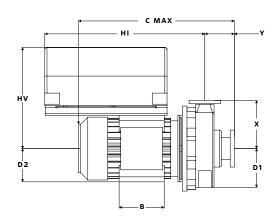
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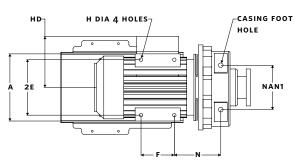
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