

DESIGN ENVELOPE 4280 END SUCTION |

SINGLE PHASE | 0308-007.5 | SUBMITTAL

MECHANICAL SEAL DATA

Stationary seat: Silicone carbide

Rotating hardware: Stainless steel

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

File No: 100.3630

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

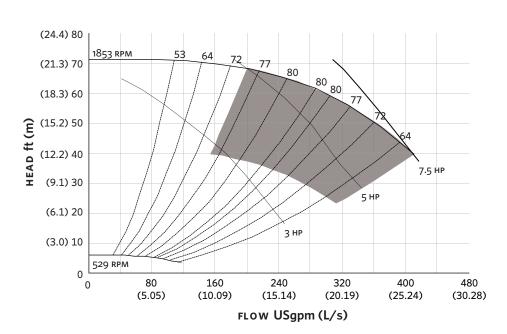
Job:		Representative:					
		Order No:			Date:		
Engineer:			Submitted by:			_ Date:	
			Approved by:		Date:		
PUMP DESIGN	DATA		CONTR	OLS DATA			
		Tag:ft (m)		Power supply:	Volts: 200-240\ Freq: 50/60Hz		
Liquid:		Viscosity:		Sensorless Control: n system pressure			
Suction: 4" (100mr			-	to be maintained:		ft (m)*	
Discharge: 3" (75mm) Flanged oshpp Seismic Certification osp-0422-10			Pı	rotocol (standard):	: ☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN		
UL STD 778 & CSA STD C22.2 NO.108 certified			F	Protocol (optional):	\square LonWorks $^{\circledR}$		
				Enclosure:	: ☐ Indoor – UL TYPE 12		
MOTOR DESIGN DATA				Disconnect switch:	: □ Non-fused		
HP: 7.5 RPM: 18 Enclosure: TEFC Volts: 3		_	Harr			 1-phase IVS102 units do not meet the EN61800-3 directive Dual DC-link reactors (equivalent: 5% 	
Phase: 3	Efficiency:	NEMA premium 12.12	:	nome suppression.	Ac line reactor) supporting IEEE 519-1992 requirements**		
MAXIMUM PUMP OPERATING CONDITIONS			S	Cooling:	: Fan-cooled through back channel		
ANSI 125 175 psig at 150°F (12 bars at 65°C)			Am	bient temperature:	-10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)		
140 psig at 250°F (10 bars at 121°C)			:	Analog ı/o:	: Two current or voltage inputs,		
ANSI 250 300 psig at 150°F (20 bars at 65°C) 250 psig at 250°F (17 bars at 121°C)				Digital ı/o:	one current output Six programmable inputs (two can be configured as outputs)		
			:	Pulse inputs:	Two programma	able	
 Tolerance of ±0.125" (±3 mm) should be used For exact installation, data please write factory for certified dimensions 					Two programmable		
			Co	mmunication 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 NO	N-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

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: 213JP

Size: $4 \times 3 \times 8$

HP: 7.5

RPM: 1800

A: 10.27 (261)

B: 7.48 (190)

C MAX: 27.65 (702)

D1: 6.63 (168)

D2: 5.25 (133)

2E: 8.50 (216)

F: 5.50 (140)

H: 0.47 (12)

HD: 7.68 (195)

HI: 28.37 (721)

HV: 16.98 (431)

N: 11.13 (283)

NaN1: 6.00 (152) x: 11.00 (279)

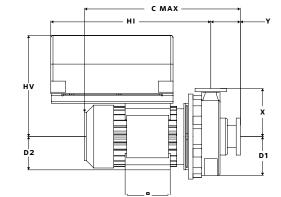
Y: 4.00 (102)

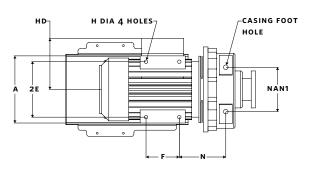
Casing foot hole: 0.63 (16)

Weight: 380 (172.4)

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

INDOOR





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