

DESIGN ENVELOPE 4280 END SUCTION |

SINGLE PHASE | 0106-003.0 | SUBMITTAL

MECHANICAL SEAL DATA

Stationary seat: Silicone carbide

Rotating hardware: Stainless steel

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

File No: 100.3600

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

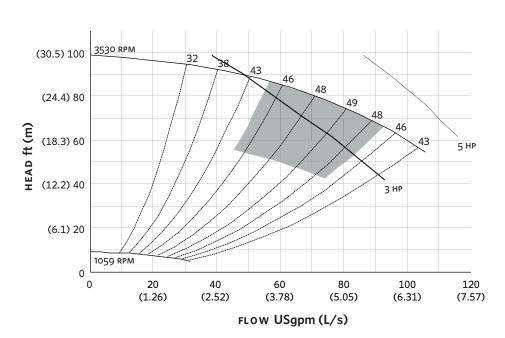
Job:		Representative:					
		Order No: Submitted by:					
Engineer:							
			Approved by:		Date:		
PUMP DESIGN	DATA		CONTROLS DAT	Α			
		Tag:ft (m)		supply:	Volts: 200-240V Freq: 50/60Hz		
Liquid:		Viscosity:	Sensorless				
Temperature:°F (°C) Specific gravity: Suction: 1.5" (40mm) Flanged					:ft (m)*		
Discharge: 1" (25mm) Flanged oshpp Seismic Certification osp-0422-10			Protocol (sta	ndard):	: ☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN		
UL STD 778 & CSA STD C22.2 NO.108 certified			Protocol (op	tional):	\square LonWorks $^{\mathbb{R}}$		
			En	closure:	e: ☐ Indoor – UL TYPE 12		
MOTOR DESIGN DATA			Disconnect	switch:	ı: □ Non-fused		
Enclosure: TEFC Volts: 2		Frame size: 182JM Freq: 60 Hz NEMA premium 12.12		EMI/RFI control: 1-phase IVS102 units do not me EN61800-3 directive Harmonic suppression: Dual Dc-link reactors (equivale			
			-			AC line reactor) supporting IEEE 519-1992 requirements**	
MAXIMUM PUMP OPERATING CONDITIONS			•	_	: Fan-cooled through back channel		
ANSI 125 175 psig at 150°F (12 bars at 65°C)			: Ambient temp	erature:	: -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)			Ana	alog ı/o:	: Two current or voltage inputs, one current output		
ANSI 250 300 psig at 150°F (20 bars at 65°C) 250 psig at 250°F (17 bars at 121°C)			Dig	jital ı/o:	: Six programmable inputs (two can be configured as outputs)		
			Pulse	Pulse inputs: Two programmable			
 Tolerance of ±0.125" (±3 mm) should be used For exact installation, data please write factory for certified dimensions 			•	•	tputs: Two programmable		
			Communicati	on 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	
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: 182JM

Size: 1.5×1×6

HP: 3

RPM: 3600

A: 9.08 (231)

B: 6.10 (155)

CMAX: 20.20 (513)

D1: 5.25 (133)

D2: 4.50 (114)

2E: 7.50 (191)

F: 4.50 (114)

H: 0.47 (12)

HD: 6.65 (169)

HI: 24.11 (612)

HV: 16.23 (412)

N: 6.28 (159)

NaN1: 6.00 (152)

x: 6.50 (165)

y: 4.00 (102)

Casing foot hole: 0.63 (16)

Weight: 239 (108.4)

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

INDOOR



+1 716 693 8813

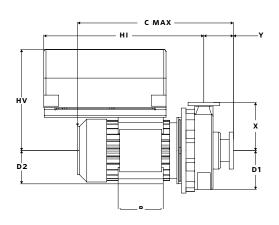
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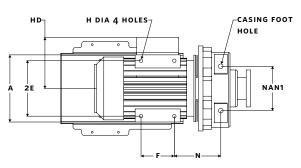
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ARMSTRONG FLUID TECHNOLOGY ESTABLISHED 1934