

## DESIGN ENVELOPE 4280 END SUCTION

# SINGLE PHASE | 2506-002.0 | SUBMITTAL

**MECHANICAL SEAL DATA** 

Stationary seat: Silicone carbide

**Rotating hardware:** Stainless steel

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

File No: 100.3610

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

Job:		Representative:					
Engineer: S  Contractor: /			Order No:		_ Date:		
			Submitted by:	[			
			Approved by:				
PUMP DESIGN	I DATA		CONTROLS DATA				
		Tag:ft (m)	i ower suppry.	Volts: 200-240\ Freq: 50/60Hz			
Temperature:	°F (°C)	Viscosity: Specific gravity:	Minimum system pressure		(I / ) *		
Suction: 3" (75mm) Flanged Discharge: 2.5" (60mm) Flanged  OSHPD Seismic Certification OSP-0422-10			:	:ft (m)* : □ Modbus RTU □ BACnet™ MS/TP □ Johnson® N2 □ Siemens® FLN			
UL STD 778 & CSA STD C22.2 NO.108 certified			•	Protocol (optional): ☐ LonWorks®  Enclosure: ☐ Indoor - UL TYPE 12			
MOTOR DESIGN DATA			Disconnect switch:	☐ Non-fused			
HP: 2 Enclosure: TEFC		Freq: 60 Hz		1-phase IVS102 units do not meet the EN61800-3 directive Dual DC-link reactors (equivalent: 5%			
Phase: 3 Efficiency: NEMA premium 12.12  MAXIMUM PUMP OPERATING CONDITIONS			S Cooling:	AC line reactor) supporting IEEE 519-1992 requirements** : Fan-cooled through back channel			
<b>ANSI 125</b> 175 psig at 150°F (12 bars at 65°C)				-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, 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)			Digital ı/o:	Six programmable inputs (two can be configured as outputs)			
			•	ts: Two programmable			
<ul> <li>Tolerance of ±0.125" (±3 mm) should be used</li> <li>For exact installation, data please write factory for certified dimensions</li> </ul>			Communication port:				
cer anea annensions			* If minimum maintained system pressure is not known. Default to 40% of design head				

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.

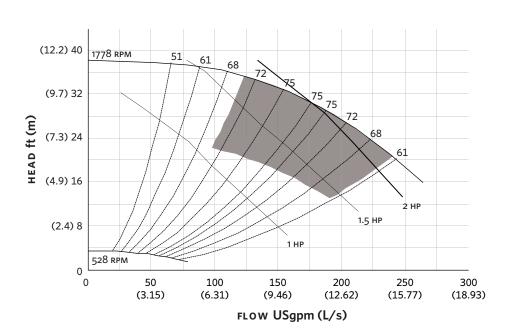
 $^{\star\star}\text{The}\:\textsc{ivs}\:\textsc{102}$  drive is a low harmonic drive via built-in DC line reactors. This does not

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

levels are exceeded Armstrong can also recommend additional harmonic 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

#### **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: 145JM

**Size:** 3×2.5×6

**HP:** 2

**RPM:** 1800

**A:** 5.50 (140)

**B:** 5.91 (150)

**CMAX:** 19.68 (500)

**D1:** 5.63 (143)

**D2:** 3.50 (89)

**2E:** 7.09 (180)

**F:** 5.00 (127) **H:** 0.40 (10)

**HD:** 5.71 (145)

**HI:** 23.61 (600)

**HV:** 14.72 (374)

**N:** 5.77 (146)

**NaN1:** 6.00 (152)

x: 8.25 (210)

**y:** 4.00 (102)

Casing foot hole: 0.63 (16)

Weight: 244 (110.7)

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

#### INDOOR



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#### MANCHESTER

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#### BANGALORE

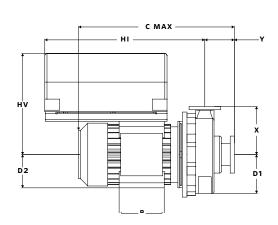
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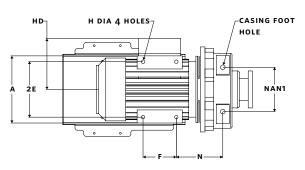
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