

### **DESIGN ENVELOPE 4300 VIL**

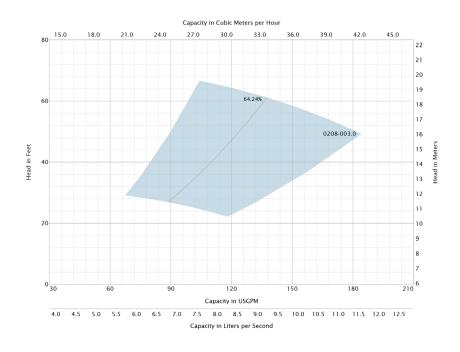
## SINGLE PHASE | 0208-003.0 | SUBMITTAL

File No: 100.4277 Date: OCTOBER 27, 2014 Supersedes: NEW Date: NEW

Job:	Representative:		
	Order No:	Date:	
Engineer:	Submitted by:	Date:	
Contractor:	Approved by:	Date:	
PUMP DESIGN DATA	: CONTROLS DATA		
No. of pumps: Tag: _ Capacity:USgpm (L/s) Head:	•	oly: Volts: 200-240VAC Freq: 50/60Hz Phase: 1	
Liquid: Visco	sity: Sensorless Cont		
Temperature: °F (°C) Specification: 2" (50mm) Disch	fic gravity: to be maintaine arge: 2" (50mm)	re ed: ft (m)*	
Suction: 2 (Somm)	Orientati	on: ☐ L1 (default) ☐ L2 ☐ L3 ☐ L4  rd): ☐ Modbus RTU ☐ BACnet™ MS/T	
MOTOR DESIGN DATA	Protocol (option	☐ Johnson® N2 ☐ Siemens® FLN  al): ☐ LonWorks®	
HP: 3 RPM: 1740 Fra Enclosure: Volts: 208 Fra Phase: 3 Efficiency: NEMA pra	eq: 60 Hz	ure: ☐ Indoor – UL TYPE 12 ☐ Outdoor – UL TYPE 4X with Weather Shield ☐ Outdoor – UL TYPE 4X less	
	Disconnect swit	Weather Shield :ch: □ Non-fused	
MAXIMUM PUMP OPERATING CO	NDITIONS EMI/RFI cont	rol: 1-phase IVS102 units do not meet the EN61800-3 directive	
ANSI 125 175 psig at 150°F (12 bars at 65°C) 100 psig at 300°F (7 bars at 150°C)	Harmonic suppressi	on: Dual pc-link reactors (Equivalent: 5% Ac line reactor) Supporting IEE 519-1992 requirements**	
ANSI 250	Cooli	ng: Fan-cooled through back channel	
375 psig at 150°F (26 bars at 65°C) 260 psig at 300°F (21 bars at 150°C)	Ambient temperatu	ure: -10°c to +45°c up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)	
<ul> <li>Tolerance of ±0.125" (±3 mm) should be</li> <li>For exact installation, data please write</li> </ul>	e useu :	I/o: Two current or voltage inputs, one current output	
certified dimensions		<ul><li>i/o: Six programmable inputs (two car be configured as outputs)</li></ul>	
	Pulse inpu	uts: Two programmable	
MECHANICAL SEAL DESIGN DATA	Relay outpu	uts: Two programmable	
See file no. 43.50 for standard mechanica	Communication po	ort: 1-RS485, 1-USB	
indicated below	*If minimum maintained system pi **The ivs 102 drive is a low harmor	*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	
Armstrong seal reference number	• • • • • • • • • • • • • • • • • • • •	stem wide harmonic specification or the costs to on. If supplied with the system electrical details,	
☐ A1 (c) ☐ Others:	•	simulation of the system wide harmonics. If system	

Armstrong will run a computer simulation of the system wide harmonics. If system harmonic levels are exceeded Armstrong can also recommend additional harmonic  $\label{eq:mitigation} \mbox{mitigation and the costs for such mitigation}.$ 

2



Performance curves are for reference only.

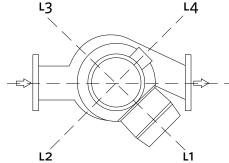
 $Confirm\ current\ performance\ data\ with\ Armstrong\ {\tt ACE}\ Online\ selection\ software.$ 

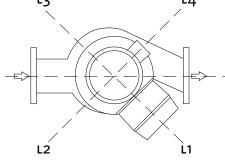
#### **DIMENSION DATA**

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	182	182
Size:	2×2×8	2×2×8
HP:	3	3
RPM:	1740	1740
AB:	29.23(742)	35.26(896)
в:	5.80(147)	5.80(147)
c:	5.80(147)	5.80(147)
D:	8.50(216)	8.50(216)
E:	14.42(366)	17.92(455)
F:	14.42(366)	17.90(455)
P:	10.38(264)	9.56(243)
s:	9.50(241)	9.50(241)
SD:	18.00(457)	18.00(457)
T:	5.09(129)	5.09(129)
XY:	26.54(674)	26.42(671)
Weight:	249(112.9)	280(127.0)

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

INDOOR





# SD SD SHIELD ΧY ΑВ

OUTDOOR

#### TORONTO

+1 416 755 2291

#### BUFFALO

+1 716 693 8813

#### BIRMINGHAM

+44 (0) 8444 145 145

#### MANCHESTER

+44 (0) 8444 145 145

#### BANGALORE

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#### SHANGHAI

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