

DESIGN ENVELOPE 4300 VIL

SINGLE PHASE | 0208-005.0 | SUBMITTAL

File No: 100.4278

Date: OCTOBER 27, 2014

Supersedes: NEW

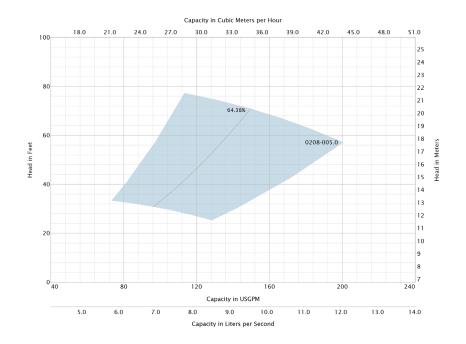
Date: NEW

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:	:	upply: Volts: 200-240VAC Freq: 50/60Hz Phase: 1	
Liquid: Viscos	sity: Sensorless Co	ntrol: Standard	
Temperature: °F (°C) Specification: 2" (50mm) Discharge	to be maintal	ined: ft (m)*	
2.00	: Orienta	ation: ☐ 11 (default) ☐ 12 ☐ 13 ☐ 14 dard): ☐ Modbus RTU ☐ BACnet™ MS/TI	
MOTOR DESIGN DATA	Protocol (option	☐ Johnson® N2 ☐ Siemens® FLN onal): ☐ LonWorks®	
HP: 5 RPM: 1825 Framework Enclosure: Volts: 208 Free	Ellele	osure: ☐ Indoor – UL TYPE 12 ☐ Outdoor – UL TYPE 4x with Weather Shield	
Phase: 3 Efficiency: NEMA pre	mium	☐ Outdoor – UL TYPE 4x less Weather Shield	
	Disconnect sv	witch: □ Non-fused	
MAXIMUM PUMP OPERATING CO	NDITIONS EMI/RFI CO	ntrol: 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 suppres	ssion: Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements**	
ANSI 250	Co	oling: 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 tempera	ature: -10°c to +45°c up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)	
 Tolerance of ±0.125" (±3 mm) should be For exact installation, data please write 	useu	og I/o: Two current or voltage inputs, one current output	
certified dimensions		al I/o: Six programmable inputs (two car be configured as outputs)	
	Pulse in	nputs: Two programmable	
MECHANICAL SEAL DESIGN DATA	Relay out	tputs: Two programmable	
See file no. 43.50 for standard mechanical	Communication	port: 1-RS485, 1-USB	
indicated below	*If minimum maintained systen	*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	
Armstrong seal reference number	guaranty performance to any		
☐ A1 (c) ☐ Others:	•	ation. If supplied with the system electrical details, ter 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



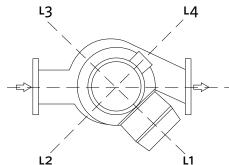
Performance curves are for reference only.

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

DIMENSION DATA

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	184	184
Size:	2×2×8	2×2×8
HP:	5	5
RPM:	1825	1825
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:	261(118.4)	289(131.1)

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



TORONTO

+1 416 755 2291

BUFFALO

+1 716 693 8813

BIRMINGHAM

+44 (0) 8444 145 145

MANCHESTER

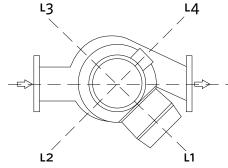
+44 (0) 8444 145 145

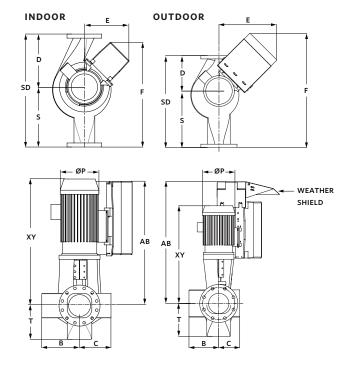
BANGALORE

+91 (0) 80 4906 3555

SHANGHAI

+86 21 3756 6696





ESTABLISHED 1934