

## **DESIGN ENVELOPE 4312 TWIN**

# SINGLE PHASE | 0406-001.0 | SUBMITTAL

Job: \_\_\_\_\_\_ Representative: \_\_\_\_\_

File No: 100.4840

Date: OCTOBER 27, 2014

Supersedes: NEW

Date: NEW

	Order No:	Date:
Engineer:	Submitted by:	Date:
Contractor:	Approved by:	Date:
PUMP DESIGN DATA	CONTROLS DATA	
No. of pumps: Tag:	Power sup	ply: Volts: 200-240VAC
Capacity:USgpm (L/s) Head:f	it (m)	Freq: 50/60Hz Phase: 1
Liquid: Viscosity:	Soncorloss con	trol: Standard
Temperature:°F (°C) Specific gravity:	Minimum system press	
Suction: 4" (100mm) Discharge: 4" (100m	: to be maintain	ned: ft (m)*
Jaction: 4 (10011111) Discharge: 4 (10011	Protocol (Standa	rd): ☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN
	Protocol (antion	nal):   LonWorks®
MOTOR DESIGN DATA	•	ure: Indoor - UL TYPE 12
нр: 1	:	☐ Outdoor - UL TYPE 4X with
		weather shield
Enclosure: Volts: 208 Freq: 60 Hz		☐ Outdoor – UL TYPE 4X less weather shield
Phase: 3 Efficiency: NEMA premium	: Disconnect swi	tch: ☐ Non-fused
	Duty/stan	dby
	pre-wired brid	dge: □
MAXIMUM PUMP OPERATING CONDITIONS	S EMI/RFI CON	trol: 1-phase IVS102 units do not meet the
ANSI 125		EN61800-3 directive
175 psig at 150°F (12 bars at 65°C)	Harmonic suppress	ion: Dual Dc-link reactors (Equivalent: 5%
140 psig at 250°F (10 bars at 121°C)		AC line reactor) Supporting IEEE 519-1992 requirements**
T	Cool	ing: Fan-cooled through back channel
<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>	•	ure: -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)
	•	I/o: Two current or voltage inputs, one current output
MECHANICAL SEAL DESIGN DATA	Digital	i/o: Six programmable inputs (two can be configured as outputs)
See file no. 43.50 for standard mechanical seal detail.	s as Pulse inp	uts: Two programmable
indicated below	•	uts: Two programmable
Armstrong seal reference number	Communication p	ort: 1-RS485, 1-USB
☐ A1 (c) ☐ Others:	**The IVS 102 drive is a low harmonic guaranty performance to any sys	ressure is not known: Default to 40% of design head c drive via built-in DC line reactors. This does not tem wide harmonic specification or the costs to meet a slied with the system electrical details, Armstrong will

for such mitigation.

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

Performance curves are for reference only.

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

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ARMSTRONG FLUID TECHNOLOGY ESTABLISHED 1934

### **DIMENSION DATA**

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	145TC	145TC
Size:	4×4×6	4×4×6
HP:	1	1
RPM:	1450	1450
AB:	24.18 (614)	30.21(767)
В1:	9.65(245)	9.65(245)
B2:	9.65(245)	9.65(245)
C1:	15.76(400)	15.76(400)
C2:	16.12(409)	16.12(409)
D1:	11.42(290)	11.42(290)
D2:	11.42(290)	11.42(290)
E:	4.13(105)	6.09(155)
F:	12.58(319)	18.50(470)
P:	8.63(219)	7.28(185)
SD:	19.29(490)	19.29(490)
T:	7.01(178)	7.01(178)
XY:	22.28(566)	20.78(528)
Weight:	496(225.0)	62(28.1)

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



