

## **DESIGN ENVELOPE 4312 TWIN**

# SINGLE PHASE | 0206-001.0 | SUBMITTAL

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

File No: 100.4820

Date: OCTOBER 27, 2014

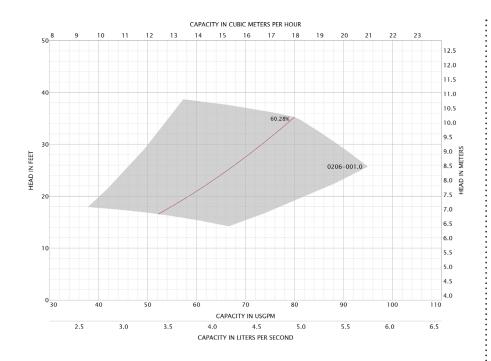
Supersedes: NEW

Date: NEW

	Order No:	Date:
Engineer:	Submitted by:	Date:
Contractor:	Approved by:	Date:
PUMP DESIGN DATA	CONTROLS DATA	
No. of pumps: Tag:	Power supp	ly: Volts: 200-240VAC
Capacity:USgpm (L/s) Head:	ft (m)	Freq: 50/60Hz Phase: 1
Liquid: Viscosity:	Sensorless contr	
Temperature:°F (°C) Specific gravit	: Minimum system pressu	
Suction: 2" (50mm) Discharge: 2"	: to be maintaine	ed:ft (m)* d): □ Modbus RTU □ BACnet™ MS/TP
Saction 2 Commity Discharge. 2	Protocol (standard	☐ Johnson® N2 ☐ Siemens® FLN
	Protocol (ontions	II):    LonWorks®
MOTOR DESIGN DATA	•	re:  Indoor - UL TYPE 12
нр: 1	:	☐ Outdoor – UL TYPE 4X with
	:	weather shield
Enclosure: Volts: 208 Freq: 60 F	<u>:</u>	☐ Outdoor – UL TYPE 4X less weather shield
Phase: 3 Efficiency: NEMA premiui	m : Disconnect swite	
	Duty/standl	by
	pre-wired bridg	
MAXIMUM PUMP OPERATING CONDI	TIONS EMI/RFI contr	ol: 1-phase IVS102 units do not meet the
ANSI 125		EN61800-3 directive
175 psig at 150°F (12 bars at 65°C)	Harmonic suppression	on: Dual oc-link reactors (Equivalent: 5%
140 psig at 250°F (10 bars at 121°C)		AC line reactor) Supporting IEEE 519-1992 requirements**
	Coolin	ng: Fan-cooled through back channel
<ul> <li>Tolerance of ±0.125" (±3 mm) should be used</li> <li>For exact installation, data please write factor</li> </ul>		re: -10°c to +45°c up to 1000 meters above
certified dimensions	in y lor	sea level (-14°F to +113°F, 3300 ft)
	Analog 1,	<b>70:</b> Two current or voltage inputs, one current output
MECHANICAL SEAL DESIGN DATA	Digital 1,	<b>/o:</b> Six programmable inputs (two can be configured as outputs)
See file no. 43.50 for standard mechanical sea	I details as Pulse inpu	ts: Two programmable
indicated below	•	ts: Two programmable
Armstrong seal reference number	Communication po	rt: 1-RS485, 1-USB
☐ A1 (c) ☐ Others:	**The IVS 102 drive is a low harmonic of	ssure is not known: Default to 40% of design head Irive via built-in DC line reactors. This does not m wide harmonic specification or the costs to meet a

for such mitigation.

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



Performance curves are for reference only.

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

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### **DIMENSION DATA**

	INDOOR	OUTDOOR
	(UL TYPE 12/ODP)	(UL TYPE 4X/TEFC)
Frame size:	143TC	143TC
Size:	2×2×6	2×2×6
HP:	1	1
RPM:	1750	1750
AB:	23.93(608)	29.96(761)
B1:	7.87(200)	7.87(200)
B2:	7.87(200)	7.87(200)
C1:	12.34(314)	12.34(314)
C2:	12.34(314)	12.34(314)
D1:	7.28(185)	7.28(185)
D2:	7.28(185)	7.28(185)
E:	4.13(105)	6.09(155)
F:	12.58(319)	18.50(470)
P:	8.63(219)	7.28(185)
SD:	12.99(330)	12.99(330)
T:	5.30(135)	5.30(135)
XY:	22.03(560)	20.53(521)
Weight:	386(175.1)	400(181.4)

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

