

# DESIGN ENVELOPE 4312 TWIN | 0608-005.0 | submittal

File No: 100.4787 Date: JANUARY 14, 2016 Supersedes: NEW Date: NEW

Job:	Representative:	
	_ Order No:	Date:
Engineer:	_ Submitted by:	_Date:
Contractor:	_ Approved by:	_ Date:

## PUMP DESIGN DATA

No. of pumps:	Tag:	
Capacity:USgpm (L/s)	Head:ft (m)	Minimu
Liquid:	Viscosity:	•
Temperature:°F (°C)	Specific gravity:	P
Suction: 6" (150mm)	Discharge: 6" (150mm)	
ознро Seismic Certification o	SP-0422-10	
		•

UL STD 778 & CSA STD C22.2 NO.108 certified

## MOTOR DESIGN DATA

HP:	RPM:	Frame size:	Enclosure:
Volts:		Hertz: 60 Hz	Phase: 3

Efficiency: NEMA premium 12.12

## MAXIMUM PUMP OPERATING CONDITIONS

### ANSI 125

175 psig at 150°F (12 bars at 65°C) 140 psig at 250°F (10 bars at 121°C)

• Tolerance of ±0.125" (±3 mm) should be used

• For exact installation, data please write factory for certified dimensions

## MECHANICAL SEAL DESIGN DATA

See file no. 43.50 for standard mechanical seal details as indicated below

Armstrong seal reference number

□ c1 (a) □ Others: \_

## CONTROLS DATA

Sensorless Control: Standard

Minimum system pressure to be maintained:		ft (m)*
Protocol (standard):		□ bacnet™ ms/tp □ Siemens® fln
Protocol (optional):	□ LonWorks®	
Enclosure:	□ Outdoor - UL	TYPE 4X with eather Shield

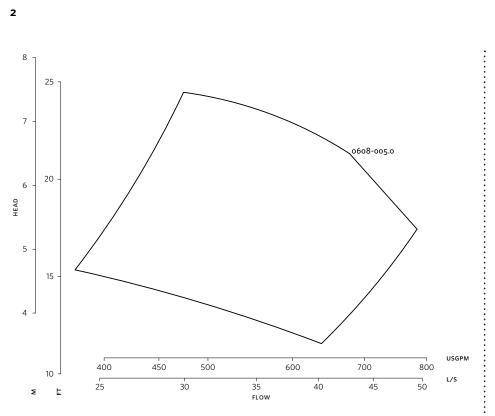
## Fused disconnect switch: $\Box$

Duty/standby pre-wired bridge:	
EMI/RFI control:	Integrated filter designed to meet EN61800-3
Harmonic suppression:	Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements**
Cooling:	Fan-cooled through back channel
Ambient temperature:	-10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)
Analog ı/o:	Two current or voltage inputs, one current output
Digital ı/o:	Six programmable inputs (two can be configured as outputs)
Pulse inputs:	Two programmable
Relay outputs:	Two programmable

Communication port: 1-RS485, 1-USB

\*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 meet a 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 for such mitigation.

**submittal** 0608-005.0



Performance curves are for reference only. Confirm current performance data with Armstrong ACE Online selection software.

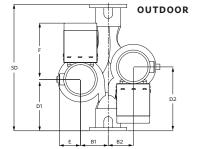
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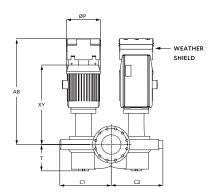
## DIMENSION DATA

213TC	215TC
6×6×8	6×6×8
5	5
1800	1800
32.32(821)	32.32(821)
11.81(300)	11.81(300)
11.81(300)	11.81(300)
20.37(517)	20.37(517)
20.90(531)	20.90(531)
12.60(320)	12.60(320)
17.32(440)	17.32(440)
8.25(210)	8.25(210)
16.69(424)	16.69(424)
11.25(286)	11.25(286)
27.56(700)	27.56(700)
8.78(223)	8.78(223)
29.75(756)	29.75(756)
734(332.9)	771(349.6)
	17.32(440) 8.25(210) 16.69(424) 11.25(286) 27.56(700) 8.78(223) 29.75(756)

Dimensions - inch (mm)

Weight – Ibs (kg)





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