

# DESIGN ENVELOPE 4312 TWIN 5020-011.0 SUBMITTAL

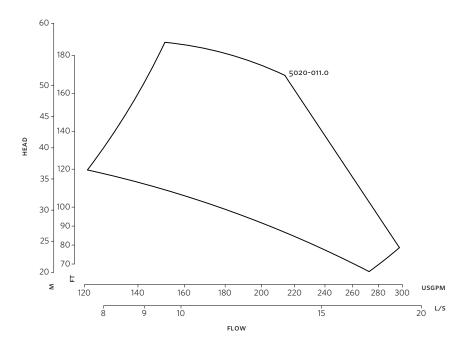
File No: 100.4756IN **Date:** AUGUST 14, 2015 Supersedes: 100.4756IN Date: MAY 27, 2015

Job:		Representative:	
		Order No:	Date:
Engineer:		Submitted by:	Date:
Contractor:		Approved by:	Date:
PUMP DESIGN DATA		CONTROLS DATA	
No. of pumps:	Tag:	Sensorless control:	Standard
Capacity: m³/h(USgpm) F Liquid: V		Minimum system pressure to be maintained:	m (ft)*
Temperature:°C (°F)	•	Protocol (standard):	☐ Modbus rtu ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN
Suction: 50mm (2")	Discharge: 50mm (2")	Protocol (optional):	$\square$ LonWorks $^{\circledR}$
		Enclosure:	☐ Indoor - 1P55 ☐ Outdoor - 1P66
MOTOR DESIGN DATA		Fused disconnect switch:	
kW: RPM: Volts: Hertz: 5		Duty/standby pre-wired bridge:	
Efficiency:   Frame size:		:	Integrated filter designed to meet EN61800-3
MAXIMUM PUMP OPERAT	ING CONDITIONS	Harmonic suppression:	Dual Dc-link reactors (Equivalent: 5% Ac line reactor) Supporting IEEE 519-1992 requirements**
PN 16		Cooling:	Fan-cooled through back channel
16 bars at 149°C (232 psig at 300°F) 7 bars at 150°C (100 psig at 300°F)		Ambient temperature:	-10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)
PN 25 25 bars at 149°C (375 psig at 300°F) 21 bars at 150°C (260 psig at 300°F)  • Tolerance of ±3 mm (±0.125") should be used • For exact installation, data please write factory for certified dimensions		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
MECHANICAL SEAL DESIGN DATA		*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	
See file no. 43.50 for standard mechanical seal details as indicated below		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	
Armstrong seal reference number		mitigation and the costs for such mit	

□ c1 (a)

☐ Others:

2



Performance curves are for reference only.

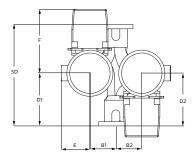
Confirm current performance data with Armstrong ACE Online selection software.

#### **DIMENSION DATA**

	INDOOR
	IP55
Frame size:	160M
Size:	5020-011.0
kW:	11
RPM:	3000
AB:	935(36.81)
В1:	208(08.27)
B2:	220(08.75)
C1:	353(13.98)
C2:	365(14.46)
D1:	210(08.35)
D2:	230(07.37)
E:	208(08.27)
F:	430(16.92)
P:	315(12.40)
SD:	400(15.74)
T:	130(05.11)
XY:	894(32.28)
Weight:	199.58(439)

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

## INDOOR



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