

DESIGN ENVELOPE 4200H | END SUCTION BASE MOUNTED | SINGLE PHASE | 0410S005.0 | SUBMITTAL

File No: 100.3454

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

Job:			Representative:				
			Order N	No:	Date:		
Engineer:			Submitted by:		Date:		
Contractor:			Approved by:		Date:		
PUMP DESIGN	I DATA		:	CONTROLS DATA			
		Tag:	:	Power supply:	Volts: 200-240VAC Freq: 50/60Hz	: Phase: 1	
		Head:	:	Sensorless control:	Standard		
		Viscosity:	:	Minimum system pressure to be maintained:		ft (m)*	
Temperature:°F (°C) Specific gravity: Suction: 5"(125mm) Tapped holes					: ☐ Modbus rtu ☐ Bacnet™ Ms/tp ☐ Johnson® N2 ☐ Siemens® FLN		
Discharge: 4"(100mm) Flanged				Protocol (optional):	□ LonWorks®		
UL STD 778 & CSA STD C22.2 NO.108 certified				Enclosure:	: ☐ Indoor – UL TYPE 12		
01 31D //O a c3	A SID CZZIZ NO	7.100 certified	į	Disconnect switch:	\square Non-fused		
				емі/RFI control:	1-phase IVS102 unit		
MOTOR DESIGN DATA HP: 5 RPM: 1200 Frame size: 215TC			Harmonic suppression:	Dual Dc-link reactors (Equivalent: 5% Ac line reactor) Supporting IEEE 519-1992 requirements**			
Enclosure: TEFC	Volts: 208	Freq: 60 Hz	:	Cooling:	: Fan-cooled through back channel		
Phase: 3 Efficiency: NEMA premium 12.12				Ambient temperature:	: -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)		
MAXIMUM PUMP OPERATING CONDITIONS				Analog ı/o:	Two current or voltage inputs, one current output		
ANSI 125				Digital ı/o:	Six programmable inputs (two can be configured as outputs)		
175 psig at 140°F (12 bars at 60°C)				Pulse inputs:	: Two programmable		
100 psig at 300°F (7 bars at 149°C)				Relay outputs:	: Two programmable		
ANSI 250				Communication port:	t: 1-RS485, 1-USB		
375 psig at 100°F	(26 bars at 38°c	:)	:				

*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.

MECHANICAL SEAL DATA

Seal type: AB2 Stationary seat: Sintered silicon carbide
Secondary seal: Viton Rotating hardware: Stainless steel

Spring: Stainless steel

OPTIONAL EQUIPMENT

and discharge gauge ports

certified dimensions

275 psig at 300°F (19 bars at 149°C)

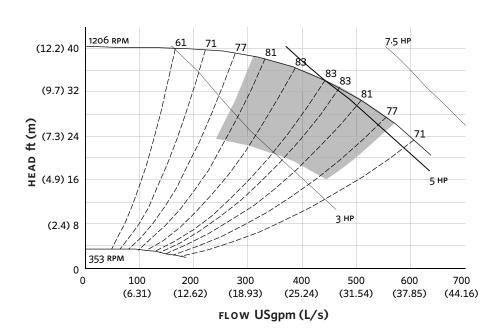
• Tolerance of ±0.125" (±3 mm) should be used

• For exact installation, data please write factory for

• Pump equipped with casing drain plug and 1/4" NPT suction

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EXTENDED SPEED



Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

DIMENSION DATA

INDOOR (UL TYPE 12/ODP)

Frame size: 215TC

Size: 5×4×10

HP: 5

RPM: 1200

RPM: 1200

HA: 16.00 (406)

нв: 40.00 (1016)

нс: 33.78 (858)

HD: 13.00 (330)

HE: 7.37 (187)

ne. 7.37 (107)

HF: 18.00 (457)

2HF: 36.00 (914)

HG: 3.00 (76)

HI: 32.12 (816)

HL: 4.50 (114)

HV: 16.98 (431)

NaN1: 2.00 (51)

NaN2: 7.95 (202)

x: 12.50 (318)

Y: 4.00 (102)

Weight: 616 (279.5)

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

INDOOR



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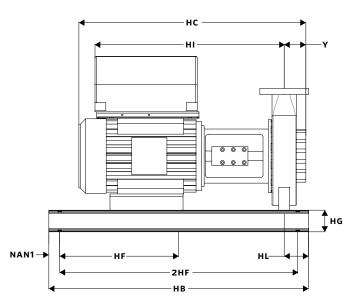
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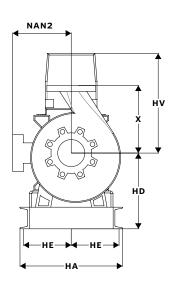
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