

DESIGN ENVELOPE 4200H | END SUCTION BASE MOUNTED | SINGLE PHASE | 1508-002.0 | SUBMITTAL

File No: 100.3428

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

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			Order No:		Date:
Engineer:			Submitted by:		Date:
Contractor:					
PUMP DESIGN DATA				CONTROLS DATA	
		Tag:		Power supply:	Volts: 200-240VAC Freq: 50/60Hz Phase: 1
		Head:		Sensorless control:	Standard
		Viscosity: Specific gravity:		Minimum system pressure to be maintained:	ft (m)*
Suction: 3"(75mm) Flanged				Protocol (standard):	☐ Modbus RTU ☐ BACnet TM MS/TP☐ Johnson® N2 ☐ Siemens® FLN
Discharge: 1.5" (40 mm) Flanged				Protocol (optional):	\square LonWorks $^{\circledR}$
UL STD 778 & CSA STD C22.2 NO.108 certified MOTOR DESIGN DATA				Enclosure:	☐ Indoor – UL TYPE 12
				Disconnect switch:	\square Non-fused
				EMI/RFI control:	1-phase IVS102 units do not meet the EN61800-3 directive
				Harmonic suppression	Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE
		Frame size: 145TC			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
				Digital ı/o:	Six programmable inputs (two can

Representative:

*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.

Pulse inputs: Two programmable

Relay outputs: Two programmable

Communication port: 1-RS485, 1-USB

be configured as outputs)

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

175 psig at 140°F (12 bars at 60°C)

100 psig at 300°F (7 bars at 149°C)

375 psig at 100°F (26 bars at 38°C)

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

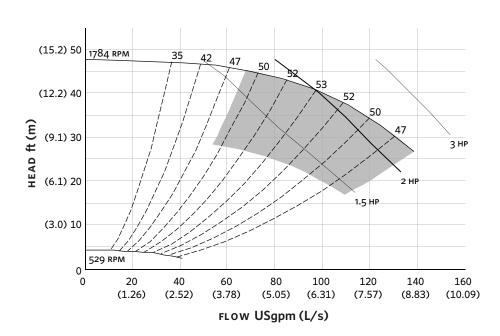
ANSI 125

ANSI 250

Job:

2

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: 145TC

Size: 3×1.5×8

HP: 2

RPM: 1800

KPWI. 1000

HA: 14.00 (355)

нв: 30.00 (762)

HC: 26.57 (675)

HD: 9.25 (235)

HE: 6.37 (162)

HF: 13.00 (330)

2HF: 26.00 (660)

2.00(7()

HG: 3.00 (76)

HI: 26.91 (683)

HL: 4.50 (114)

HV: 15.53 (395)

NaN1: 2.00 (51)

NaN2: 5.90 (150)

x: 8.50 (216)

y: 4.00 (102) **Weight:** 343 (155.8)

Dimensions - inch (mm)

Weight - Ibs (kg)

INDOOR



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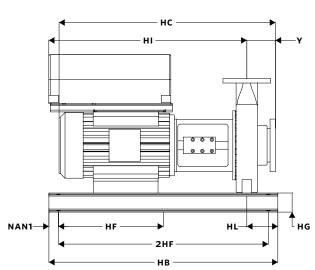
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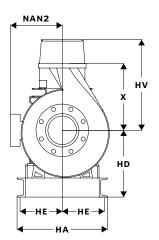
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