

# **DESIGN ENVELOPE** 4200H | END SUCTION BASE MOUNTED | SINGLE PHASE | 0408-001.5 | **SUBMITTAL**

File No: 100.3444

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

Job:			Representative:		
			_ Order	No:	Date:
Engineer: Contractor:					
No. of pumps:		Tag:		Power supply:	Volts: 200-240VAC Freq: 50/60Hz
Capacity:	_USgpm (L/s)	Head:	_ft (m)	Sensorless control:	
•		Viscosity:		Minimum system pressure	ft (m)*
Temperature:	°F (°C)	Specific gravity:		, ,	
Suction: 6"(150 mm) Tapped holes				Protocoi (Stanuaru).	☐ Johnson® N2 ☐ Siemens® FLN
Discharge: 4"(100mm) Flanged				Protocol (optional):	$\square$ LonWorks $^{\circledR}$
UL STD 778 & CSA STD C22.2 NO.108 certified				Enclosure:	☐ Indoor – UL TYPE 12
010.0770 a co.		on the continue		Disconnect switch:	
				EMI/RFI control:	1-phase IVS102 units do not meet the EN61800-3 directive
9	RPM: 1200	Frame size: 182TC		Harmonic suppression:	Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements**
Enclosure: TEFC		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

\*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.

Communication port: 1-RS485, 1-USB

#### 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

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

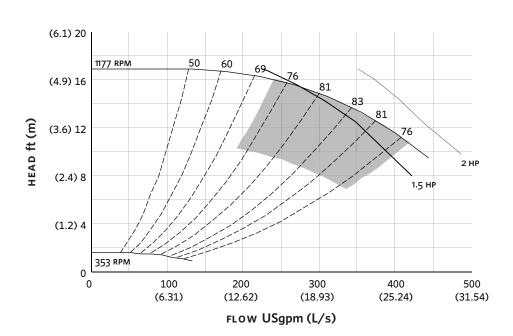
• For exact installation, data please write factory for

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

**ANSI 250** 

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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: 182TC

Size:  $6 \times 4 \times 8$ 

**HP:** 1.5

**RPM:** 1200

**HA:** 14.00 (355)

**HB:** 30.00 (762)

**HC:** 29.63 (753)

**HD:** 11.25 (286)

**HE:** 6.37 (162)

**HF:** 13.00 (330)

**2HF:** 26.00 (660)

**HG:** 3.00 (76)

**HI:** 25.48 (647)

**HL:** 4.50 (114)

**HV:** 14.49 (368)

**NaN1:** 2.00 (51)

**NaN2:** 7.17 (182)

**x:** 11.00 (279)

**y:** 4.00 (102)

Weight: 431 (195.7)

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

## INDOOR

ESTABLISHED 1934



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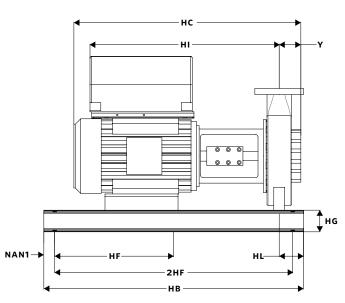
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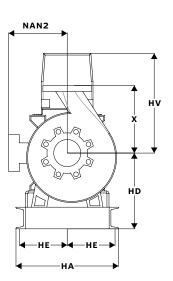
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