ARMSTRONG

DESIGN ENVELOPE 4200H | END SUCTION BASE MOUNTED | SINGLE PHASE | 1506-001.0 | SUBMITTAL

File No: 100.3406
Date: APRIL 18, 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)

Liquid: _____ Viscosity: _____

Temperature: _____°F (°C) Specific gravity: _____

Suction: 3"(75mm) Flanged

Discharge: 1.5"(40mm) Flanged

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

MOTOR DESIGN DATA

HP: 1	RPM: 1800	Frame size: 143TC
Enclosure: TEFC	Volts: 208	Freq: 60 Hz
Phase: 3	Efficiency: NEMA premium 12.12	

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 140°F (12 bars at 60°C)

100 psig at 300°F (7 bars at 149°C)

ANSI 250

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 certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

CONTROLS DATA

Power supply: Volts: 200-240VAC Freq: 50/60Hz Phase: 1

Sensorless control: Standard

Minimum system pressure to be maintained: _____ ft (m)*

Protocol (standard): ☐ Modbus RTU ☐ BACnet™ MS/TP ☐ Johnson® N2 ☐ Siemens® FLN

Protocol (optional): ☐ LonWorks®

Enclosure: ☐ Indoor – UL TYPE 12

Disconnect switch: ☐ 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 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 I/O: Two current or voltage inputs, one current output

Digital I/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.

MECHANICAL SEAL DATA

Seal type: AB2

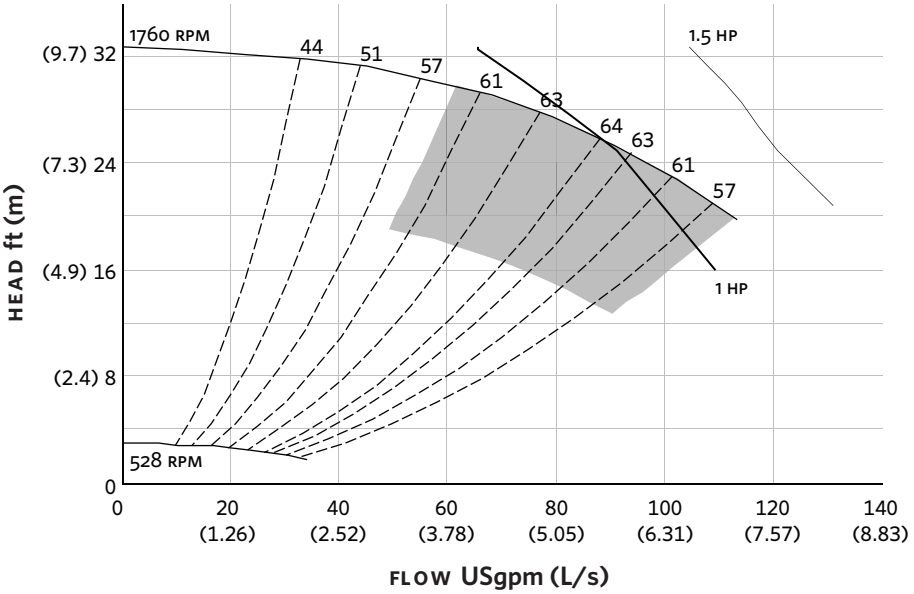
Secondary seal: Viton

Spring: Stainless steel

Stationary seat: Sintered silicon carbide

Rotating hardware: Stainless steel

EXTENDED SPEED



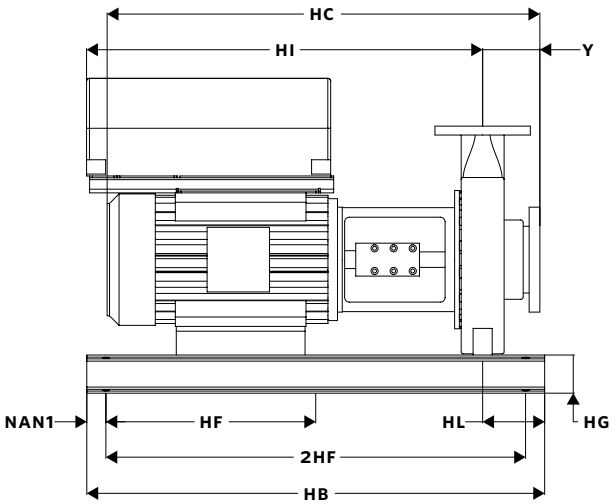
Performance curves are for reference only.
Confirm current performance data with Armstrong ACE Online selection software.

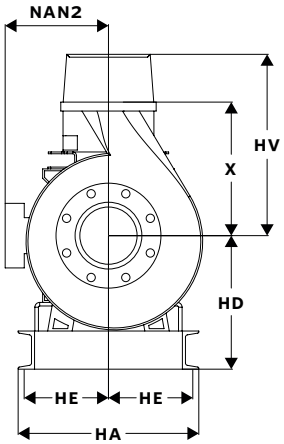
DIMENSION DATA

	INDOOR (UL TYPE 12/ODP)
Frame size:	143TC
Size:	3×1.5×6
HP:	1
RPM:	1800
HA:	14.00 (355)
HB:	30.00 (762)
HC:	25.57 (649)
HD:	8.25 (210)
HE:	6.37 (162)
HF:	13.00 (330)
2HF:	26.00 (660)
HG:	3.00 (76)
HI:	24.61 (625)
HL:	4.50 (114)
HV:	13.09 (333)
NAN1:	2.00 (51)
NAN2:	5.90 (150)
X:	6.50 (165)
Y:	4.00 (102)
Weight:	285 (129.1)

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

INDOOR





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