

DESIGN ENVELOPE 4200H | END SUCTION BASE MOUNTED SPLIT-COUPLED | 0308-002.0 | **SUBMITTAL**

File No: 100.3246 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: 4"(100mm) Flanged | | |
| Discharge: 3"(75mm) Flanged | | |

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

MOTOR DESIGN DATA

| HP: 2 | RPM: 1200 | Frame size: 184TC | Enclosure: TEFC |
|--------|-----------|-------------------|-----------------|
| Volts: | | Hertz: 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

| Sensorless Control: | Standard | |
|--|--|--|
| Minimum system pressure to be maintained: | ft (m)* | |
| Protocol (standard): | □ Modbus rtu □ bacnet™ ms/tp □ Johnson® N2 □ Siemens® fln | |
| Protocol (optional): | \Box LonWorks [®] | |
| Enclosure: | 🗌 Indoor – UL TYPE 12 | |
| Fused disconnect switch: | | |
| ЕМІ/RFI control: | Integrated filter designed to meet EN61800-3 | |
| 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 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 | |

*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.

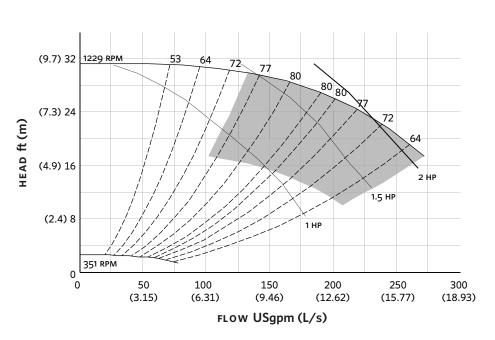
MECHANICAL SEAL DATA

| Seal type: AB2 | |
|-------------------------|---|
| Secondary seal: Viton | F |
| Spring: Stainless steel | |

Stationary seat: Sintered silicon carbide Rotating hardware: Stainless steel

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EXTENDED SPEED



нс

2HF

ΗВ

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

DIMENSION DATA

| INDOOR | |
|---|--|
| (UL TYPE 12/ODP) | |
| 184TC | |
| 4×3×8 | |
| 2 | |
| 1200 | |
| 14.00 (355) | |
| 30.00 (762) | |
| 30.63 (778) | |
| 10.25 (260) | |
| 6.37 (162) | |
| 13.00 (330) | |
| 26.00 (660) | |
| 3.00 (76) | |
| 26.48 (673) | |
| 4.50 (114) | |
| 14.49 (368) | |
| 2.00 (51) | |
| 7.17 (182) | |
| 11.00 (279) | |
| 4.00 (102) | |
| 408 (185.3) | |
| Dimensions – inch (mm) Weight – Ibs (kg) | |
| | |

INDOOR

NAN1-

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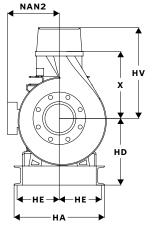
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