

# **DESIGN ENVELOPE** 4200H | END SUCTION BASE MOUNTED SPLIT-COUPLED | 0511-020.0 | **SUBMITTAL**

File No: 100.3330

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

Job:		sentative:	
	Order	No:	Date:
Engineer: Si		itted by:	Date:
Contractor: Appr		oved by:	Date:
PUMP DESIGN DATA		CONTROLS DATA	
No. of pumps:	Tag:	Sensorless Control:	Standard
Capacity:USgpm (L/s)		Minimum system pressure to be maintained:	ft (m)*
Liquid:°F (°C)	•	Protocol (standard):	☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN
Suction: 6"(150mm) Flanged		Protocol (optional):	$\square$ LonWorks®
Discharge: 5"(125mm) Flanged		Enclosure:	☐ Indoor – UL TYPE 12
		Fused disconnect switch:	
UL STD 778 & CSA STD C22.2 NO.108 certified		EMI/RFI control:	Integrated filter designed to meet EN61800-3
MOTOR DESIGN DATA		Harmonic suppression:	Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements**
HP: 20 RPM: 1200 Frame si	ze: 256TC Enclosure: TEFC	Cooling:	Fan-cooled through back channel
Volts: Hertz: 6 Efficiency: NEMA premium 12.12	o Hz Phase: 3	Ambient temperature:	-10°C to +45°C up to 1000 meters abov sea level (-14°F to +113°F, 3300 ft)
Efficiency. NEMA premium 12.12		Analog ı/o:	Two current or voltage inputs, one current output
MAXIMUM PUMP OPERATING CONDITIONS		Digital ı/o:	Six programmable inputs (two can be configured as outputs)
ANSI 125		Pulse inputs:	Two programmable
175 psig at 140°F (12 bars at 60°C)		Relay outputs:	Two programmable
100 psig at 300°F (7 bars at 149°C)		Communication port:	1-RS485, 1-USB
<b>ANSI 250</b> 375 psig at 100°F (26 bars at 38°C)		•	sure 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.

# Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

# OPTIONAL EQUIPMENT

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

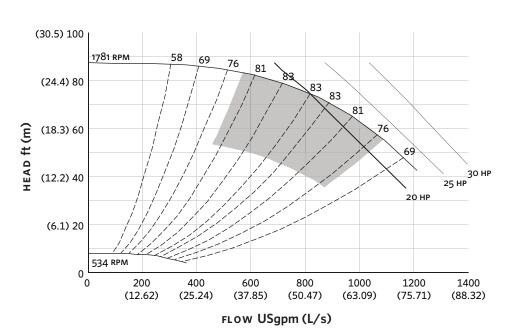
## MECHANICAL SEAL DATA

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

**Spring:** Stainless steel

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: 256TC

**Size:** 6×5×11.5

**HP:** 20

**RPM:** 1800

на: 18.94 (481)

нв: 48.00 (1219)

HB. 40.00 (1217)

**HC:** 40.32 (1024)

**HD:** 14.00 (356)

**HE:** 8.84 (225)

**HF:** 22.00 (559)

**2HF:** 44.00 (1118)

**HG:** 4.00 (102)

**HI:** 31.80 (808)

**HL:** 6.50 (165)

**HV:** 17.67 (449)

**NaN1:** 2.00 (51)

**NaN2:** 10.10 (257)

**x:** 14.00 (356)

**y:** 6.00 (152)

**Weight:** 875 (396.8)

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

### INDOOR



+1 416 755 2291

#### BUFFALO

+1 716 693 8813

#### BIRMINGHAM

+44 (0) 8444 145 145

#### MANCHESTER

+44 (0) 8444 145 145

#### BANGALORE

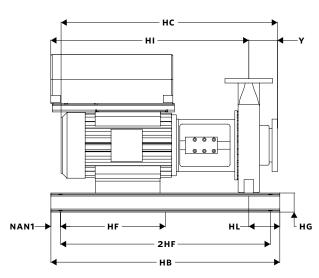
+91 (0) 80 4906 3555

#### SHANGHAI

+86 21 3756 6696

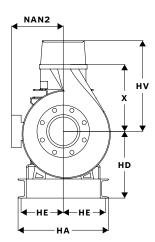
#### SÃO PAULO

+55 11 4781 5500



ARMSTRONG FLUID TECHNOLOGY

ESTABLISHED 1934



ARMSTRONGFLUIDTECHNOLOGY.COM