

# **DESIGN ENVELOPE** 4200H | END SUCTION BASE MOUNTED SPLIT-COUPLED | 0813-125.0 | SUBMITTAL

File No: 100.3366 Date: APRIL 18, 2016 Supersedes: NEW Date: NEW

Jop:	Representative:		
	Order No:	Date:	
Engineer:	Submitted by:	Date:	
Contractor:	Approved by:	Date:	
PUMP DESIGN DATA	CONTROLS DATA		

# No. of pumps: \_\_\_\_\_ Tag: \_\_\_\_\_ Capacity: \_\_\_\_\_USgpm (L/s) Head: \_\_\_\_\_ft (m) Liquid: \_\_\_\_\_ \_\_\_\_\_ Viscosity: \_\_\_\_\_ Temperature: \_\_\_\_\_\_°F (°C) Specific gravity: \_\_\_\_ Suction: 10"(250mm) Flanged Discharge: 8"(200mm) Flanged

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

# MOTOR DESIGN DATA

HP: 125	rpm: 1800	Frame size: 444TC	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 <sup>1</sup>/<sub>4</sub>" 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):	□ LonWorks <sup>®</sup>	
Enclosure:	□ Indoor – UL TYPE 12	
Fused disconnect switch:		
EMI/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:	<ul> <li>-10°c to +45°c up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)</li> </ul>	
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.

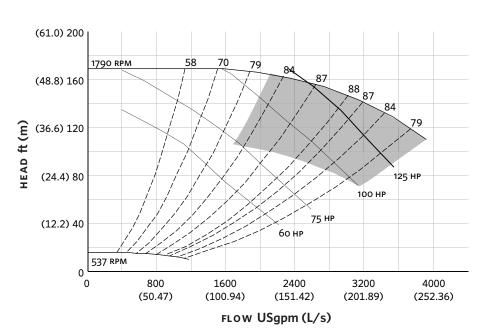
#### MECHANICAL SEAL DATA

Seal type: AB2	
Secondary seal: Viton	
Spring: Stainless steel	

Stationary seat: Sintered silicon carbide Rotating hardware: Stainless steel

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# EXTENDED SPEED



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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)	
Frame size:	444TC	
Size:	10×8×13	
HP:	125	
RPM:	1800	
HA:	24.94 (633)	
нв:	70.00 (1778)	
HC:	61.68 (1567)	
HD:	18.50 (470)	
HE:	11.84 (301)	
HF:	33.00 (838)	
2HF:	66.00 (1676)	
HG:	4.00 (102)	
HI:	52.94 (1345)	
HL:	6.50 (165)	
HV:	25.96 (659)	
	2.00 (51)	
NaN2:	18.00 (457)	
	18.00 (457)	
	6.00 (152)	
Weight:	2822 (1279.9)	
Dimensions – inch (mm)		

INDOOR

NAN1-

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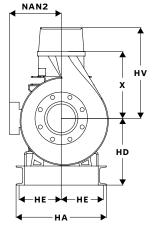
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Weight - Ibs (kg)