

DESIGN ENVELOPE 4200H | END SUCTION BASE MOUNTED SPLIT-COUPLED | 0410S010.0 | SUBMITTAL

File No: 100.3296 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: 5"(125mm) Tapped hole	es
Discharge: 4"(100mm) Flanged	

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

MOTOR DESIGN DATA

HP: 10	rpm: 1800	Frame size: 215TC	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	R
Spring: Stainless steel	

Stationary seat: Sintered silicon carbide Rotating hardware: Stainless steel

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EXTENDED SPEED



нс

HI

2HF

нв

0 0 0

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:	215TC
Size:	5×4×10
HP:	10
RPM:	1800
HA:	16.00 (406)
нв:	40.00 (1016)
HC:	33.78 (858)
HD:	13.00 (330)
HE:	7.37 (187)
HF:	18.00 (457)
2HF:	36.00 (914)
HG:	3.00 (76)
HI:	29.54 (750)
HL:	4.50 (114)
HV:	14.42 (366)
NaN1:	2.00 (51)
NaN2:	7.95 (202)
х:	12.50 (318)
Y:	4.00 (102)
Weight:	642 (291.3)
Dimensions – in	

нν

HD

HE

HA

Weight – Ibs (kg)

NAN2

INDOOR

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