ARMSTRONG

DESIGN ENVELOPE 4280 END SUCTION |

0610-007.5 | SUBMITTAL

File No: 100.3564
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: 8" (200mm) Tapped holes

Discharge: 6" (150mm) Flanged

OSHPD Seismic Certification OSP-0422-10

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

MOTOR DESIGN DATA

HP: 7.5 RPM: 1200 Frame size: 254JM

Enclosure: TEFC Volts: _____ Hertz: 60 Hz

Phase: 3 Efficiency: NEMA premium 12.12

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C)

140 psig at 250°F (10 bars at 121°C)

ANSI 250

300 psig at 150°F (20 bars at 65°C)

250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- For exact installation, data please write factory for certified dimensions

MECHANICAL SEAL DATA

Seal type: 2A **Stationary seat:** Silicone carbide

Secondary seal: EPDM **Rotating hardware:** Stainless steel

Spring: Stainless steel

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®

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: -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

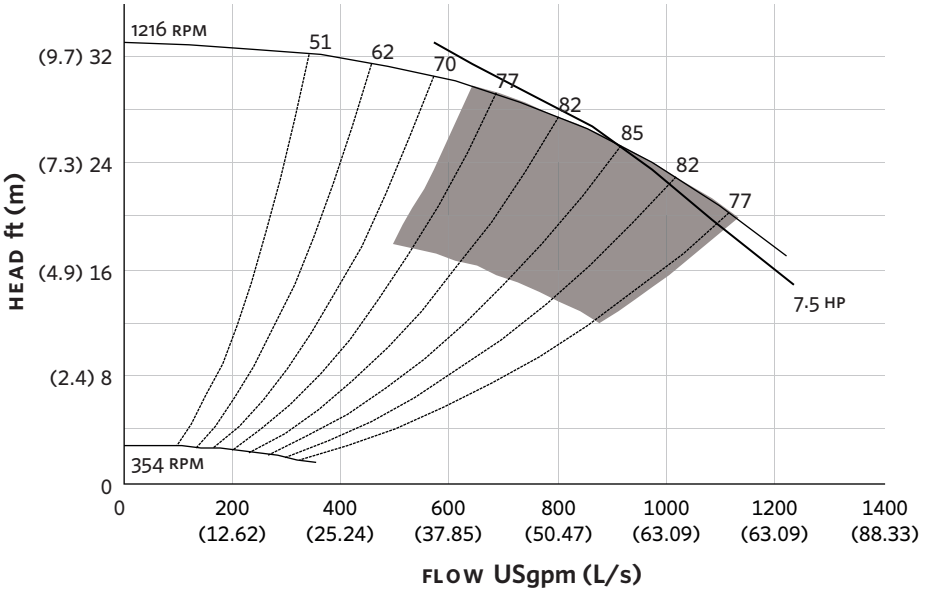
**The IVS 102 drive is a low harmonic drive via built-in DC line reactors. This does not guaranty performance to any system wide harmonic specification or the costs to meet a system wide specification. If supplied with the system electrical details, Armstrong will run a computer simulation of the system wide harmonics. If system harmonic levels are exceeded Armstrong can also recommend additional harmonic mitigation and the costs for such mitigation.

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C	up to 200°F / 93°C	over 200°F / 93°C
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

SUBMITTAL
0610-007.5

Design Envelope
4280 end suction

EXTENDED SPEED



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

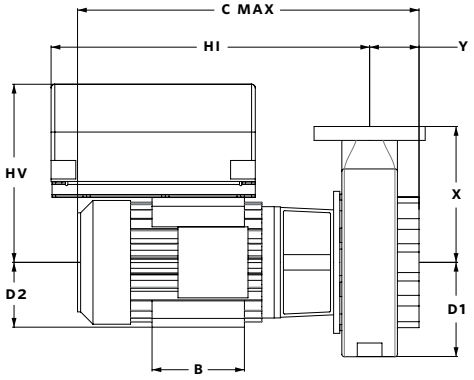
DIMENSION DATA

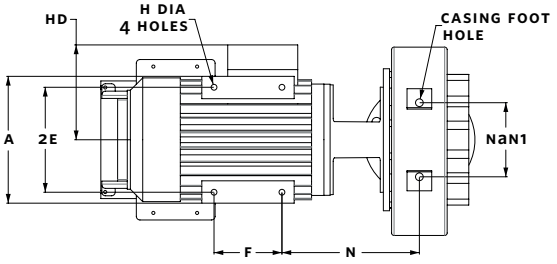
INDOOR
(UL TYPE 12/ODP)

Frame size:	254JM
Size:	8×6×10
HP:	7.5
RPM:	1200
A:	12.36 (314)
B:	10.35 (263)
C MAX:	28.23 (717)
D1:	10.00 (254)
D2:	6.25 (159)
2E:	10.00 (254)
F:	8.25 (210)
H:	0.59 (15)
HD:	9.41 (239)
HI:	23.57 (599)
HV:	15.42 (392)
N:	9.00 (229)
NaN1:	9.75 (248)
X:	13.00 (330)
Y:	4.00 (102)
Casing foot hole:	0.63 (16)
Weight:	638 (289.4)

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

INDOOR





TORONTO
+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