ARMSTRONG

DESIGN ENVELOPE 4382 DUALARM

SINGLE PHASE | 0406-005.0 | SUBMITTAL

File No: 100.4670
Date: OCTOBER 27, 2014
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) Discharge: 4" (100mm)

MOTOR DESIGN DATA

HP: 5 RPM: 2900 Frame size: _____
Enclosure: _____ Volts: 208 Freq: 60 Hz
Phase: 3 Efficiency: NEMA premium

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

250 psig at 150°F (17 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

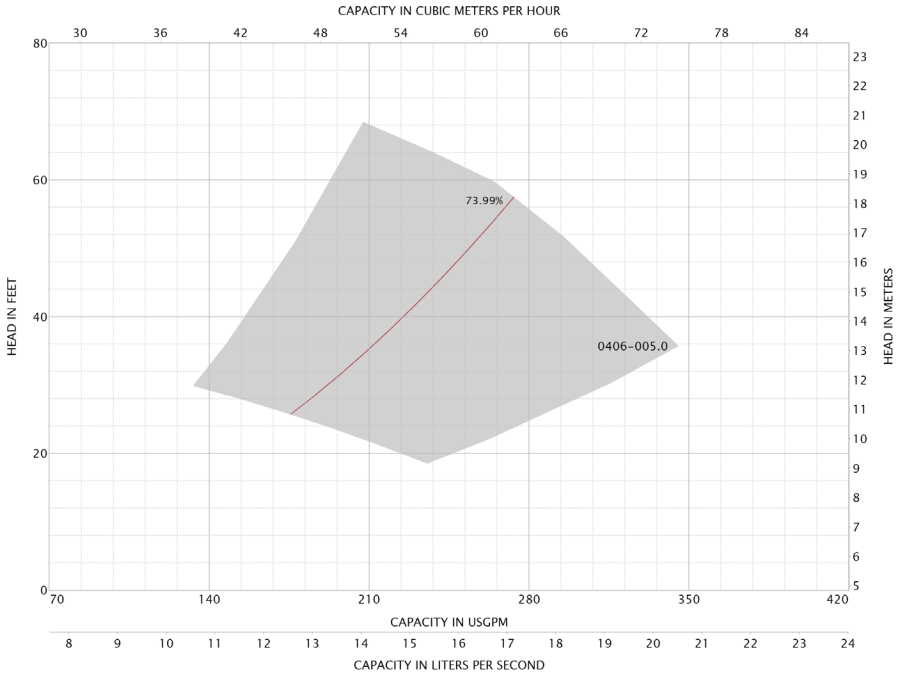
CONTROLS DATA

Power supply: Volts: 200-240VAC
Freq: 50/60Hz **Phase:** 1
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
☐ Outdoor – UL TYPE 4X with Weather Shield
☐ Outdoor – UL TYPE 4X less Weather Shield
Disconnect switch: ☐ Non-fused
Duty/standby pre-wired bridge: ☐
EMI/RFI control: 1-phase IVS102 units do not meet the EN61800-3 directive
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



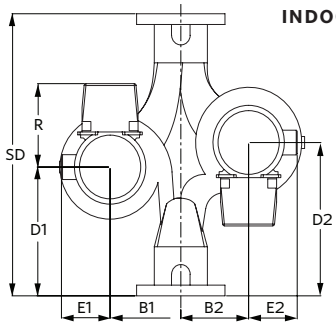
Performance curves are for reference only.
Confirm current performance data with Armstrong ACE Online selection software.

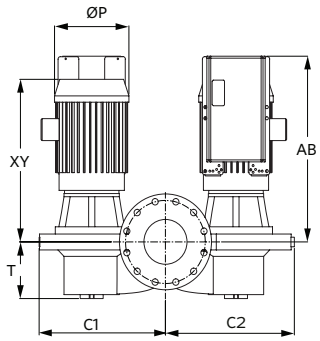
DIMENSION DATA

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	182	184
Size:	4×4×6	4×4×6
HP:	5	5
RPM:	2900	2900
AB:	23.27(591)	29.30(744)
B1:	6.81(173)	6.81(173)
B2:	6.81(173)	6.81(173)
C1:	12.13(308)	12.13(308)
C2:	12.63(321)	12.63(321)
D1:	13.84(352)	13.84(352)
D2:	13.84(352)	13.84(352)
E:	7.50(191)	7.50(191)
F:	16.02(407)	19.50(495)
P:	10.38(264)	9.50(241)
SD:	26.63(676)	26.63(676)
T:	5.80(147)	5.80(147)
XY:	19.25(489)	20.00(508)
Weight:	496(225.0)	–

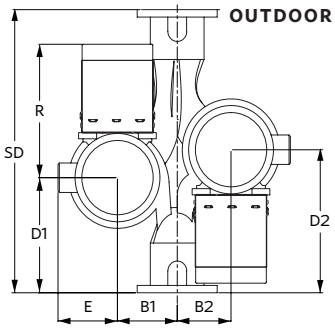
Dimensions – inch (mm)
Weight – lbs (kg)

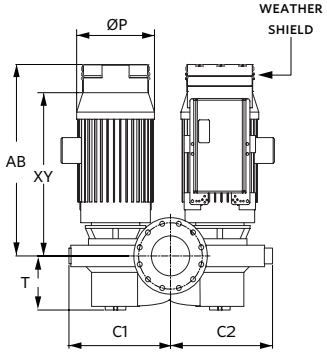
INDOOR





OUTDOOR





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