DESIGN ENVELOPE 4312 TWIN | 5020-005.5 | SUBMITTAL

File No: 100.4752IN
Date: AUGUST 14, 2015
Supersedes: 100.4752IN
Date: MAY 27, 2015

Job: _____ Representative: _____

_____ Order No: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____

Capacity: _____ m^3/h(USgpm) Head: _____m (ft)

Liquid: _____ Viscosity: _____

Temperature: _____°C (°F) Specific gravity: _____

Suction: 50mm (2") Discharge: 50mm (2")

MOTOR DESIGN DATA

kW:_____ RPM: _____ Enclosure: _____

Volts: _____ Hertz: 50 Hz Phase: 3

Efficiency: ☐ IE2 Frame size: _____

MAXIMUM PUMP OPERATING CONDITIONS

PN 16

16 bars at 149°C (232 psig at 300°F)

7 bars at 150°C (100 psig at 300°F)

PN 25

25 bars at 149°C (375 psig at 300°F)

21 bars at 150°C (260 psig at 300°F)

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

MECHANICAL SEAL DESIGN DATA

See file no. 43.50 for standard mechanical seal details as indicated below

Armstrong seal reference number

☐ C1 (a) ☐ Others: _____

CONTROLS DATA

Sensorless control: Standard

Minimum system pressure to be maintained: _____ m (ft)*

Protocol (standard): ☐ Modbus RTU ☐ BACnet™ MS/TP ☐ Johnson® N2 ☐ Siemens® FLN

Protocol (optional): ☐ LonWorks®

Enclosure: ☐ Indoor – IP55 ☐ Outdoor – IP66

Fused disconnect switch: ☐

Duty/standby pre-wired bridge: ☐

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.

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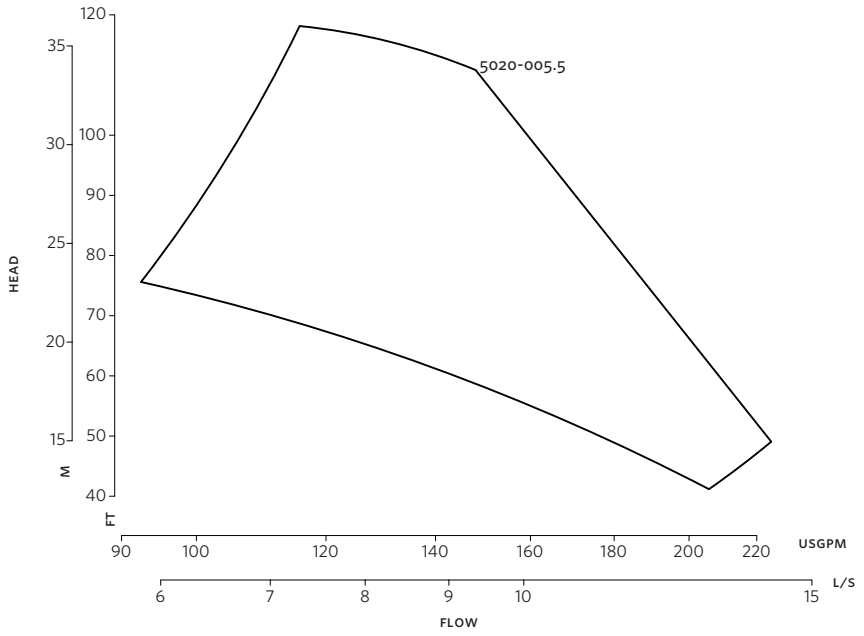


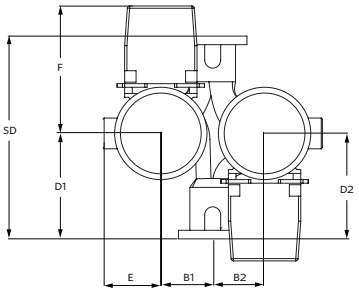
DIMENSION DATA

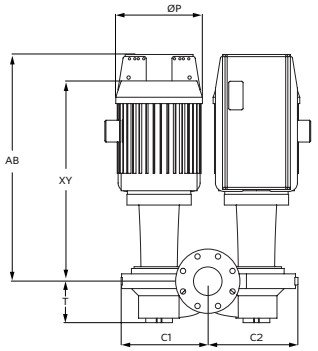
	INDOOR IP55
Frame size:	132S
Size:	5020-005.5
kW:	5.5
RPM:	3000
AB:	698(27.57)
B1:	208(08.27)
B2:	220(08.75)
C1:	353(13.98)
C2:	365(14.46)
D1:	210(08.35)
D2:	230(07.37)
E:	175(06.97)
F:	212(08.34)
P:	280(11.02)
SD:	400(15.74)
T:	130(05.11)
XY:	713(28.16)
Weight:	128.82(283)

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

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

INDOOR





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