

## DESIGN ENVELOPE 4302 DUALARM | 1015-011.0 | SUBMITTAL

Armstrong seal reference number

☐ Others:

□ c1 (a)

File No: 100.4420IN **Date:** AUGUST 14, 2015 Supersedes: 100.4420IN **Date:** JUNE 15, 2015

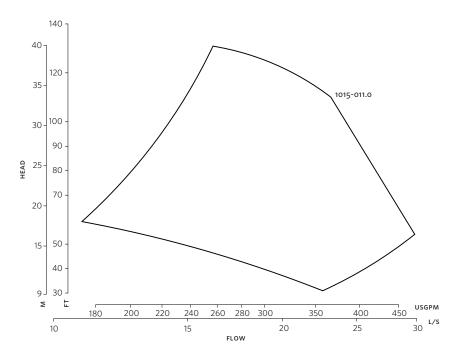
| Job:  |                       | Representative:                           |   |
|---|-----------------------|---|---|
|   |                       | Order No:                                 | Date:   |
| Engineer:   |                       | Submitted by:                             | Date:   |
| Contractor:   |                       | Approved by:                              | Date:   |
| PUMP DESIGN DATA  |                       | CONTROLS DATA                             |   |
| No. of pumps:   | Tag:                  | Sensorless Control:                       | Standard  |
| Capacity: m³/h(USgpm) Liquid:   |                       | Minimum system pressure to be maintained: | m (ft)*   |
| Temperature:°C (°F)   | Specific gravity:     | Protocol (standard):                      | ☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN  |
| Suction: 100mm (4")   | Discharge: 100mm (4") | Protocol (optional):                      | $\square$ LonWorks $^{\circledR}$   |
|   |                       | Enclosure:                                | ☐ Indoor - IP55<br>☐ Outdoor - IP66   |
| MOTOR DESIGN DATA   |                       | : Fused disconnect switch:                |   |
| kW: RPM:  | Enclosure:            | :<br>Duty/standby                         |   |
| Volts: Hertz: 50 Hz Phase: 3  |                       | pre-wired bridge:                         |   |
| Efficiency: ☐ IE2 ☐ IE3 ☐ EFF2 Frame size:  |                       | EMI/RFI control:                          | Integrated filter designed to meet EN61800-3  |
| MAXIMUM PUMP OPERAT   | ING CONDITIONS        | Harmonic suppression:                     | Dual Dc-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements**  |
| PN 16   |                       | Cooling:                                  | Fan-cooled through back channel   |
| 16 bars at 149°C (232 psig at 300°F)<br>7 bars at 150°C (100 psig at 300°F)   |                       | Ambient temperature:                      | -10°C to +45°C up to 1000<br>meters above sea level<br>(-14°F to +113°F, 3300 ft)   |
| <b>PN 25</b> 25 bars at 149°C (375 psig at 300°F) 21 bars at 150°C (260 psig at 300°F)  |                       | Analog ı/o:                               | Two current or voltage inputs, one current output   |
|   |                       | Digital ı/o:                              | Six programmable inputs (two can be configured as outputs)  |
| <ul> <li>Tolerance of ±3 mm (±0.125") should be used</li> <li>For exact installation, data please write factory for certified dimensions</li> </ul> |                       | Pulso inputs                              | Two programmable  |
|   |                       | :   | Two programmable  |
|   |                       | Communication port:                       |   |
|   |                       | . Communication port:                     | 1 K3405, 1-030  |
| MECHANICAL SEAL DESIG   | ON DATA               | •   | ure is not known: Default to 40% of design head   |
| See file no. 43.50 for standard mechanical seal details as indicated below  |                       | guaranty performance to any syster        | drive via built-in DC line reactors. This does not<br>m wide harmonic specification or the costs to<br>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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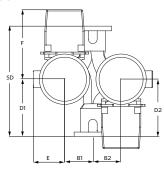
Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

#### **DIMENSION DATA**

|   | INDOOR     |  |
|---|------------|--|
|   | IP55       |  |
| Frame size:                                 | 160M       |  |
| Size:                                       | 1015-011.0 |  |
| kW:   | 5.5        |  |
| RPM:  | 3000       |  |
| AB:   | 846(33.30) |  |
| B1:   | 173(06.81) |  |
| B2:   | 173(06.81) |  |
| C1:   | 308(12.12) |  |
| C2:   | 321(12.63) |  |
| D1:   | 352(13.94) |  |
| D2:   | 352(13.94) |  |
| E:  | 208(08.27) |  |
| F:  | 430(16.92) |  |
| P:  | 315(12.40) |  |
| SD:   | 676(26.61) |  |
| T:  | 147(05.87) |  |
| XY:   | 734(28.98) |  |
| Weight:                                     |            |  |
| Dimensions - mm (inch)<br>Weight - kg (lbs) |            |  |

#### INDOOR



# AB XY

#### TORONTO

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