

## **DESIGN ENVELOPE 4312 TWIN**

# SINGLE PHASE | 0406-002.0 | SUBMITTAL

Job: \_\_\_\_\_\_ Representative: \_\_\_\_\_

File No: 100.4844

Date: OCTOBER 27, 2014

Supersedes: NEW

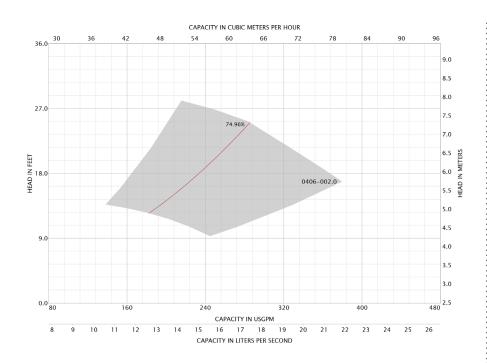
Date: NEW

|  | Order No:                                | Date:  |
|--|--|--|
| Engineer:  | Submitted by:                            | Date:  |
| Contractor:  | Approved by:                             | Date:  |
| PUMP DESIGN DATA   | CONTROLS DATA                            |  |
| No. of pumps:  | :  | y: Volts: 200-240VAC<br>Freq: 50/60Hz Phase: 1   |
| Liquid:Viscosity:  | C  | ol: Standard   |
| Temperature:°F (°C) Specific gravity:  | Minimum system pressur to be maintaine   | <b>e</b><br><b>d:</b> ft (m)*  |
| Suction: 4" (100mm) Discharge: 4" (100   | omm) Protocol (standard                  | ): ☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN  |
|  | Protocol (optional                       | ): □ LonWorks®   |
| MOTOR DESIGN DATA  HP: 2 RPM: 1750 Frame size:   | :  | e:  Indoor – UL TYPE 12  Outdoor – UL TYPE 4X with   |
| Enclosure: Volts: 208 Freq: 60 Hz  |  | weather shield □ Outdoor - UL TYPE 4X less weather shield  |
| Phase: 3 Efficiency: NEMA premium  | Disconnect switc                         |  |
|  | Duty/standb                              | у  |
| MAXIMUM PUMP OPERATING CONDITIO  | pre-wired bridg                          | e: 🗆   |
|  | EMI/RFI contro                           | ol: 1-phase IVS102 units do not meet the EN61800-3 directive   |
| <b>ANSI 125</b><br>175 psig at 150°F (12 bars at 65°C)   | Harmonic suppressio                      | n: Dual pc-link reactors (Equivalent: 5%   |
| 140 psig at 250°F (10 bars at 121°C)   |  | AC line reactor) Supporting IEEE 519-1992 requirements**   |
| • Tolerance of ±0.125" (±3 mm) should be used  | Cooling                                  | g: Fan-cooled through back channel   |
| <ul> <li>For exact installation, data please write factory for certified dimensions</li> </ul> | or Ambient temperatur                    | e: -10°C to +45°C up to 1000 meters above<br>sea level (-14°F to +113°F, 3300 ft)  |
|  | Analog 1/0                               | o: Two current or voltage inputs, one current output   |
| MECHANICAL SEAL DESIGN DATA  | Digital ı/                               | o: Six programmable inputs (two can be configured as outputs)  |
| See file no. 43.50 for standard mechanical seal det  | ails as Pulse input                      | s: Two programmable  |
| indicated below  |  | s: Two programmable  |
| Armstrong seal reference number  | Communication por                        | <b>t:</b> 1-RS485, 1-USB   |
| □ A1 (c) □ Others:   | **The IVS 102 drive is a low harmonic dr | sure is not known: Default to 40% of design head<br>ive via built-in DC line reactors. This does not<br>n wide harmonic specification or the costs to meet a |

for such mitigation.

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

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Performance curves are for reference only.

 ${\it Confirm \ current \ performance \ data \ with \ Armstrong \ {\it ACE \ Online \ selection \ software.}}$ 

# INDOOR

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### MANCHESTER

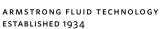
+44 (0) 8444 145 145

### BANGALORE

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### SHANGHAI

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### **DIMENSION DATA**

|             | INDOOR           | OUTDOOR           |
|-------------|------------------|-------------------|
|             | (UL TYPE 12/ODP) | (UL TYPE 4X/TEFC) |
| Frame size: | 145TC            | 145TC             |
| Size:       | 4×4×6            | 4×4×6             |
| HP:         | 1.5              | 1.5               |
| RPM:        | 1750             | 1750              |
| AB:         | 29.10(739)       | 35.13(892)        |
| В1:         | 9.65(245)        | 9.65(245)         |
| B2:         | 9.65(245)        | 9.65(245)         |
| C1:         | 15.76(400)       | 15.76(400)        |
| C2:         | 16.12(409)       | 16.12(409)        |
| D1:         | 11.42(290)       | 11.42(290)        |
| D2:         | 11.42(290)       | 11.42(290)        |
| E:          | 4.13(105)        | 6.09(155)         |
| F:          | 14.94(380)       | 18.50(470)        |
| P:          | 8.63(219)        | 7.28(185)         |
| SD:         | 19.29(490)       | 19.29(490)        |
| T:          | 7.01(178)        | 7.01(178)         |
| XY:         | 22.28(566)       | 20.78(528)        |
| Weight:     | 506(229.5)       | 518(235.0)        |

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

