

|                 |                    |                  |               |           |       |
|-----------------|--------------------|------------------|---------------|-----------|-------|
| PROJECT:        | Criculators        | UNIT TAG:        | _____         | QUANTITY: | 1     |
| REPRESENTATIVE: | Hurley Engineering | TYPE OF SERVICE: | Recirculation | DATE:     | _____ |
| ENGINEER:       | TBD                | SUBMITTED BY:    | Devin Carle   | DATE:     | _____ |
| CONTRACTOR:     | TBD                | APPROVED BY:     | _____         | DATE:     | _____ |
|                 |                    | ORDER NO.:       | _____         | DATE:     | _____ |

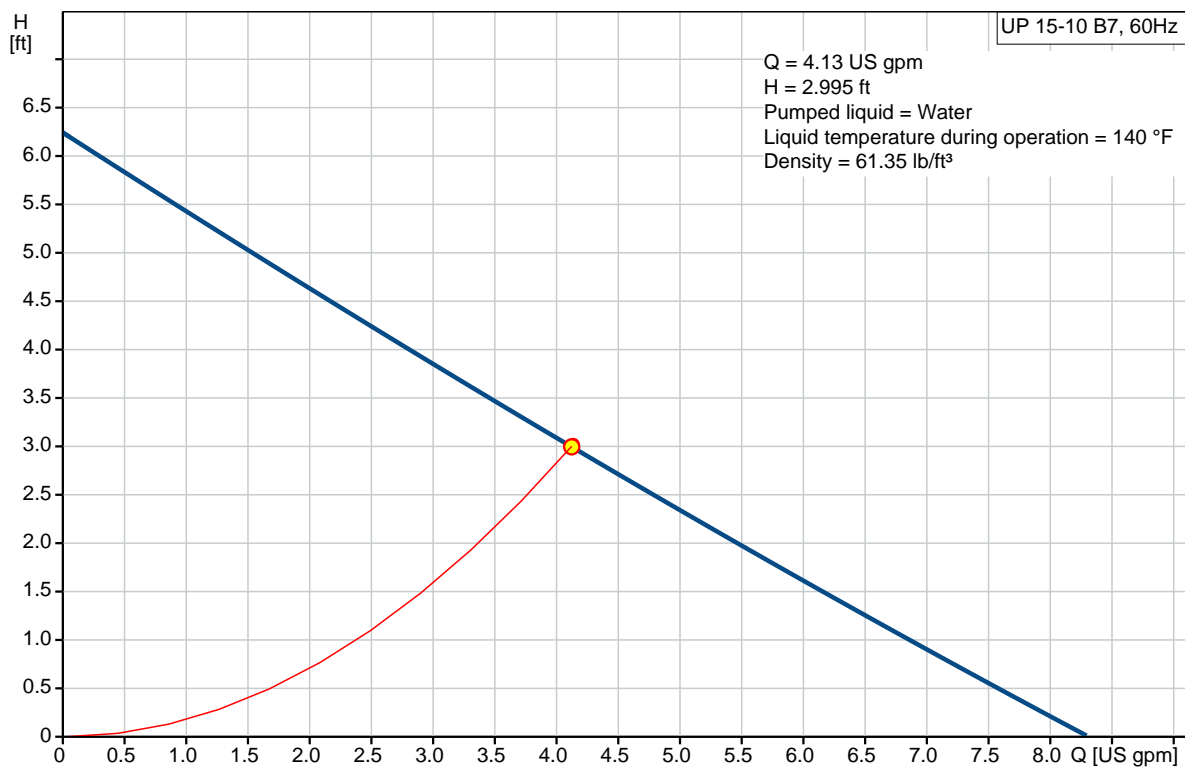


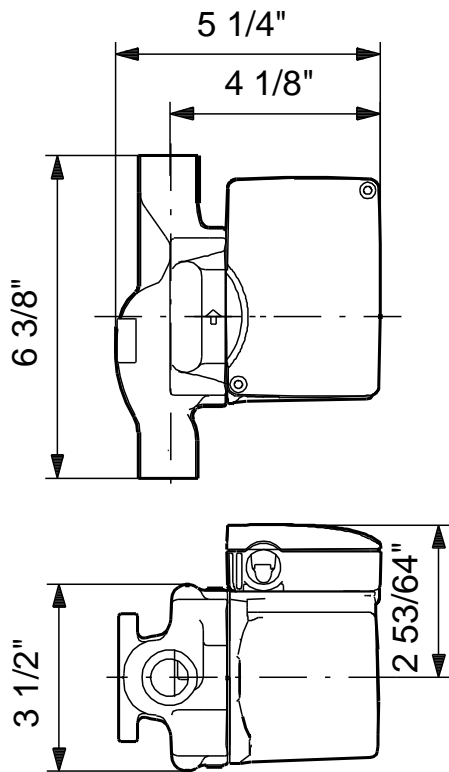
### UP 15-10 B7

Circulator pumps

Product photo could vary from the actual product


| Conditions of Service   | Pump Data                                  | Motor Data                   |
|-------------------------|--------------------------------------------|------------------------------|
| Flow: 4.13 US gpm       | Maximum operating pressure: 145.04 psi     | Max. power input: 25 W       |
| Head: 2.995 ft          | Liquid temperature range: 35.6 .. 219.2 °F | Rated voltage: 115 V         |
| Efficiency: _____       | Maximum ambient temperature: 104 °F        | Main frequency: 60 Hz        |
| Liquid: Water           | Approvals: UL, CSA                         | Insulation class: F          |
| Temperature: 140 °F     | Type of connection: Bronze Sweat           | Motor protection: CONTACT    |
| NPSH required: ft       | Flange standard: USA Sweat                 | Thermal protection: internal |
| Viscosity: _____        | Pipe connection: 3/4" Sweat                |                              |
| Specific Gravity: 0.985 | Product number: 59896226                   |                              |





**Materials:**

Pump housing: Bronze  
DIN W.-Nr. 2.1176.01  
Impeller: Composite, PES

| Count                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
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| 1                            | <p data-bbox="288 405 448 441"><b>UP 15-10 B7</b></p> <div data-bbox="325 488 655 741">  </div> <p data-bbox="692 757 1150 781">Product photo could vary from the actual product</p> <p data-bbox="288 788 568 813">Product No.: <a href="#">59896226</a></p> <p data-bbox="288 819 823 904">The pump is of the canned rotor type, i.e. pump and motor form an integral unit without shaft seal and with only two gaskets for sealing.</p> <p data-bbox="288 909 847 934">The bearings are lubricated by the pumped liquid.</p> <p data-bbox="288 938 635 963">The pump is characterized by:</p> <ul data-bbox="341 967 884 1115" style="list-style-type: none"> <li>* Ceramic shaft and radial bearings.</li> <li>* Carbon axial bearing.</li> <li>* Stainless steel rotor can and bearing plate.</li> <li>* Corrosion-resistant impeller, Composite, PES.</li> <li>* Bronze pump housing.</li> </ul> <p data-bbox="288 1144 762 1202">The motor is a 1-phase motor.<br/>                     No additional motor protection is required.</p> <p data-bbox="288 1234 384 1258"><b>Liquid:</b></p> <table data-bbox="288 1263 836 1382"> <tr> <td>Pumped liquid:</td> <td>Water</td> </tr> <tr> <td>Liquid temperature range:</td> <td>35.6 .. 219.2 °F</td> </tr> <tr> <td>Selected liquid temperature:</td> <td>140 °F</td> </tr> <tr> <td>Density:</td> <td>61.35 lb/ft³</td> </tr> </table> <p data-bbox="288 1413 427 1438"><b>Technical:</b></p> <table data-bbox="288 1442 810 1529"> <tr> <td>Actual calculated flow:</td> <td>4.13 US gpm</td> </tr> <tr> <td>Resulting head of the pump:</td> <td>2.995 ft</td> </tr> <tr> <td>Approvals on nameplate:</td> <td>UL, CSA</td> </tr> </table> <p data-bbox="288 1561 419 1585"><b>Materials:</b></p> <table data-bbox="288 1590 903 1677"> <tr> <td>Pump housing:</td> <td>Bronze</td> </tr> <tr> <td></td> <td>DIN W.-Nr. 2.1176.01</td> </tr> <tr> <td>Impeller:</td> <td>Composite, PES</td> </tr> </table> <p data-bbox="288 1709 443 1733"><b>Installation:</b></p> <table data-bbox="288 1738 823 1973"> <tr> <td>Maximum ambient temperature:</td> <td>104 °F</td> </tr> <tr> <td>Ambient max at 176°F liquid:</td> <td>176 °F</td> </tr> <tr> <td>Maximum operating pressure:</td> <td>145.04 psi</td> </tr> <tr> <td>Flange standard:</td> <td>USA Sweat</td> </tr> <tr> <td>Type of connection:</td> <td>Bronze Sweat</td> </tr> <tr> <td>Pipe connection:</td> <td>3/4" Sweat</td> </tr> <tr> <td>Pressure stage:</td> <td>10</td> </tr> <tr> <td>Port-to-port length:</td> <td>6 3/8 in</td> </tr> </table> <p data-bbox="288 2004 480 2029"><b>Electrical data:</b></p> | Pumped liquid: | Water | Liquid temperature range: | 35.6 .. 219.2 °F | Selected liquid temperature: | 140 °F | Density: | 61.35 lb/ft³ | Actual calculated flow: | 4.13 US gpm | Resulting head of the pump: | 2.995 ft | Approvals on nameplate: | UL, CSA | Pump housing: | Bronze |  | DIN W.-Nr. 2.1176.01 | Impeller: | Composite, PES | Maximum ambient temperature: | 104 °F | Ambient max at 176°F liquid: | 176 °F | Maximum operating pressure: | 145.04 psi | Flange standard: | USA Sweat | Type of connection: | Bronze Sweat | Pipe connection: | 3/4" Sweat | Pressure stage: | 10 | Port-to-port length: | 6 3/8 in |
| Pumped liquid:               | Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Liquid temperature range:    | 35.6 .. 219.2 °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Selected liquid temperature: | 140 °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Density:                     | 61.35 lb/ft³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Actual calculated flow:      | 4.13 US gpm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Resulting head of the pump:  | 2.995 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Approvals on nameplate:      | UL, CSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Pump housing:                | Bronze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
|                              | DIN W.-Nr. 2.1176.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Impeller:                    | Composite, PES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Maximum ambient temperature: | 104 °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Ambient max at 176°F liquid: | 176 °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Maximum operating pressure:  | 145.04 psi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Flange standard:             | USA Sweat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Type of connection:          | Bronze Sweat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Pipe connection:             | 3/4" Sweat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Pressure stage:              | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |
| Port-to-port length:         | 6 3/8 in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |       |                           |                  |                              |        |          |              |                         |             |                             |          |                         |         |               |        |  |                      |           |                |                              |        |                              |        |                             |            |                  |           |                     |              |                  |            |                 |    |                      |          |



Company name: Hurley Engineering  
Created by:  
Phone:

Date: 3/23/2020

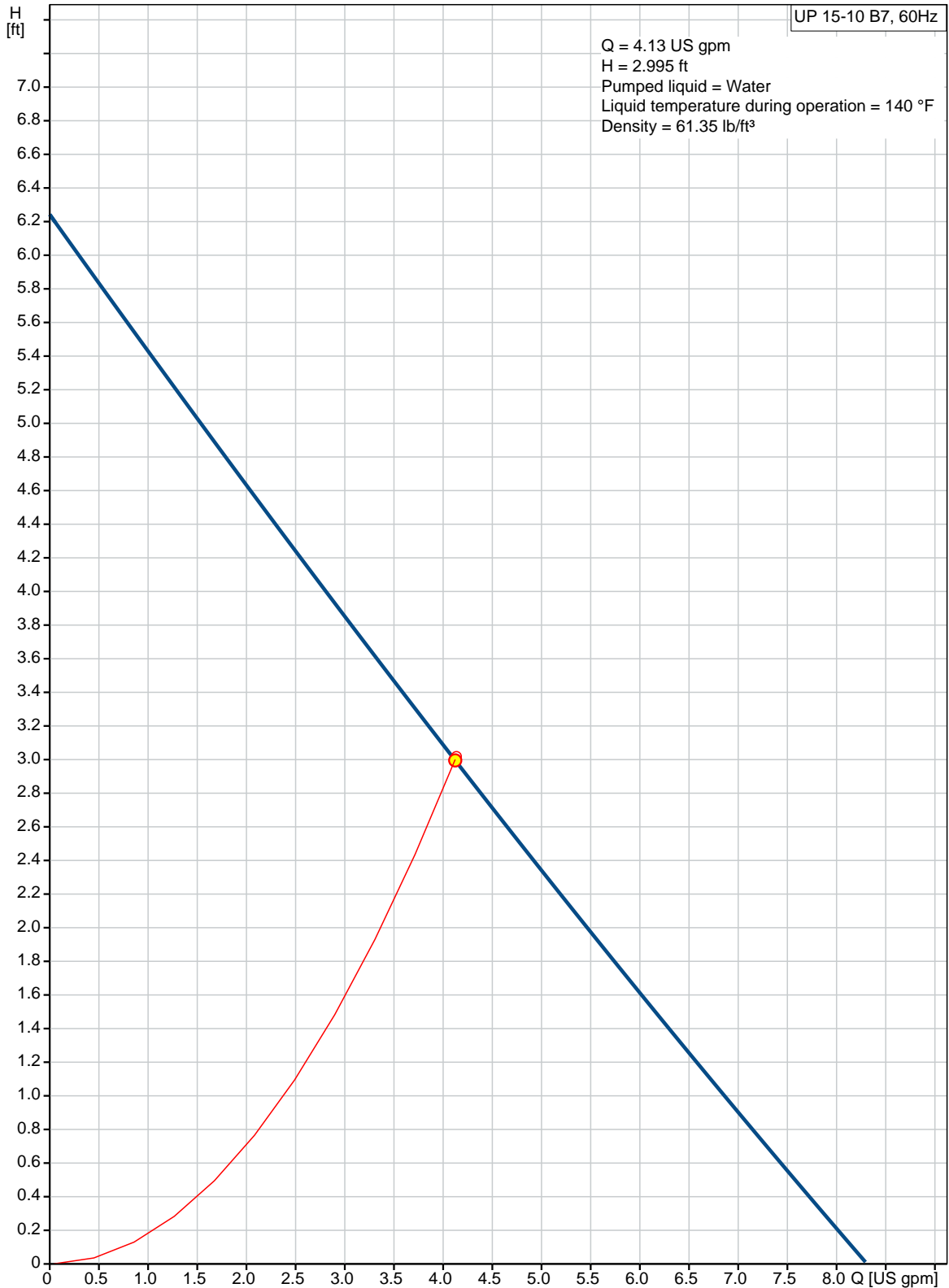
| Count | Description                                                                                                                                                                                         |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | Max. power input: 25 W<br>Main frequency: 60 Hz<br>Rated voltage: 1 x 115 V<br>Current in speed 3: 0.22 A<br>Capacitor size - run: 2 µF/400 V<br>Number of poles: 2<br>Insulation class (IEC 85): F |
|       | <b>Others:</b><br>Gross weight: 6.7 lb<br>Country of origin: US<br>Custom tariff no.: 8413.70.2005                                                                                                  |



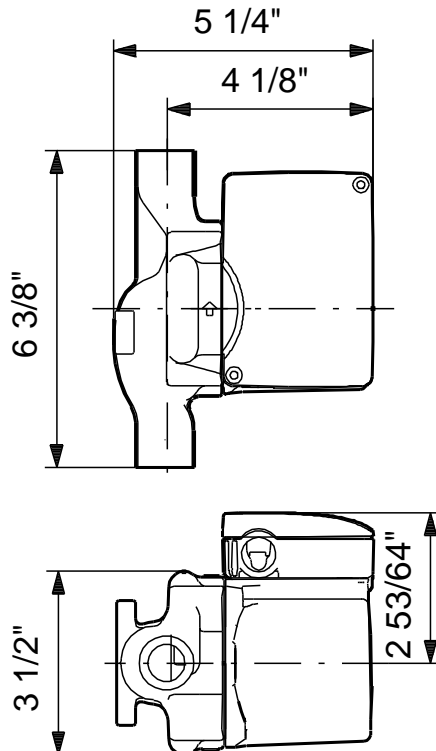
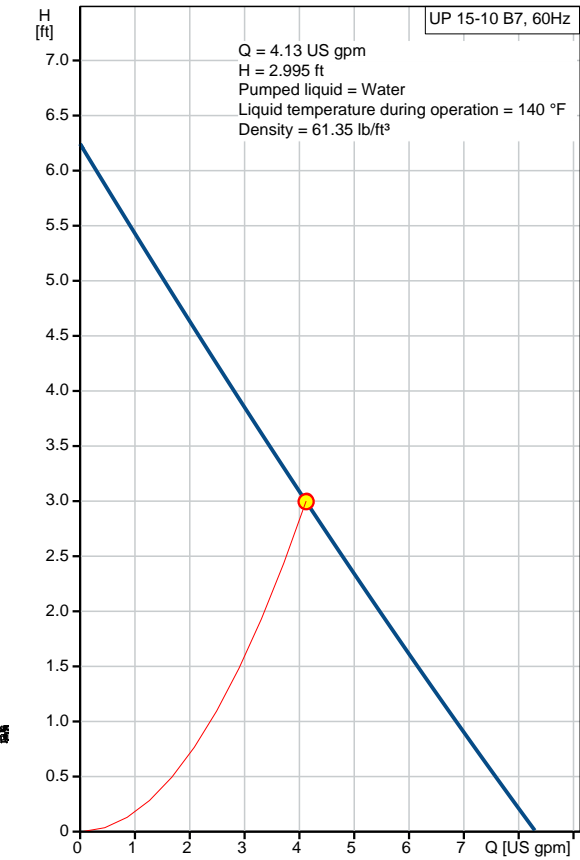
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Phone:

Date: 3/23/2020

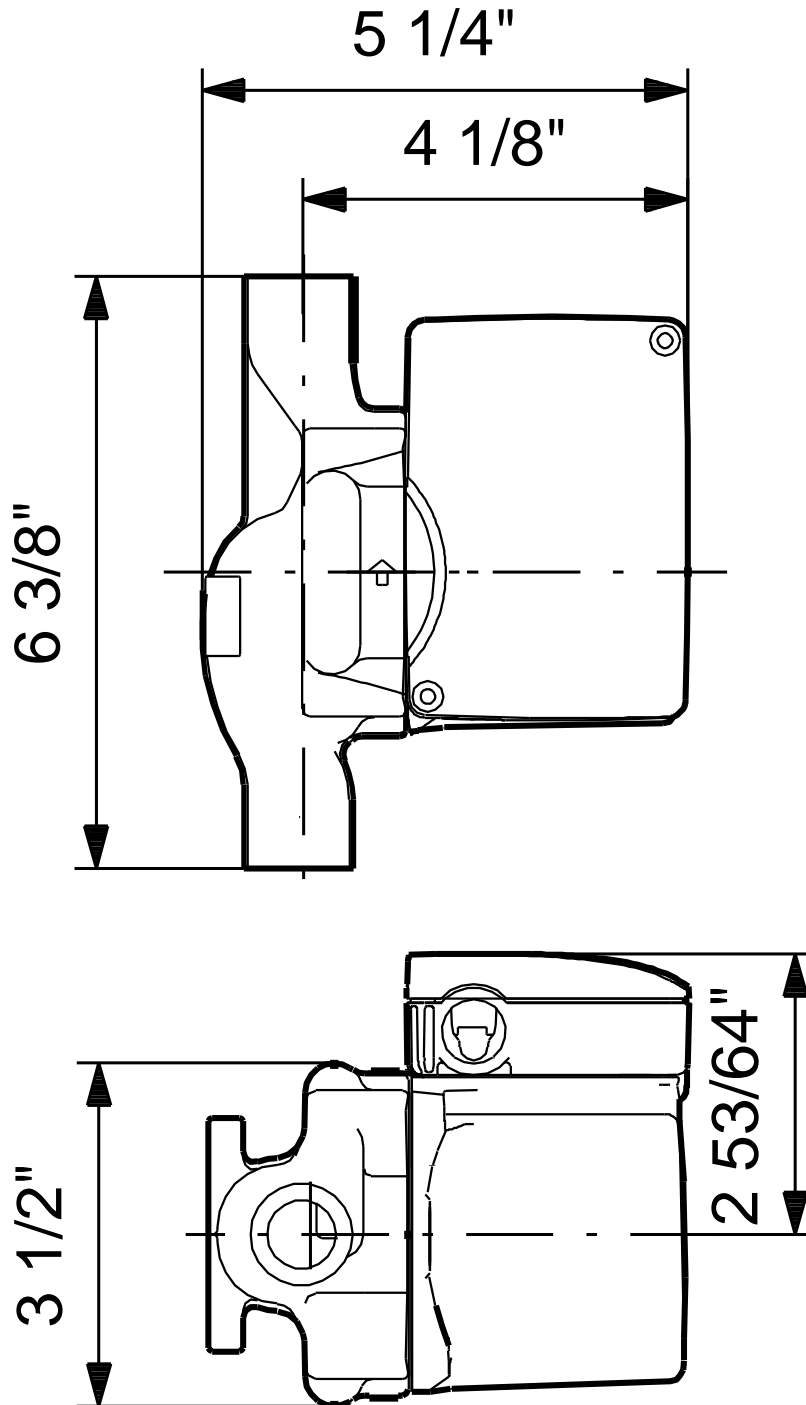
### 59896226 UP 15-10 B7 60 Hz



| Description                  | Value                    |
|------------------------------|--------------------------|
| <b>General information:</b>  |                          |
| Product name:                | UP 15-10 B7              |
| Product No.:                 | 59896226                 |
| EAN:                         | 5700393028081            |
|                              | 5700393028081            |
| <b>Technical:</b>            |                          |
| Speed Number:                | 1                        |
| Actual calculated flow:      | 4.13 US gpm              |
| Max flow:                    | 8.37 US gpm              |
| Resulting head of the pump:  | 2.995 ft                 |
| Head max:                    | 6.234 ft                 |
| Approvals on nameplate:      | UL, CSA                  |
| <b>Materials:</b>            |                          |
| Pump housing:                | Bronze                   |
|                              | DIN W.-Nr. 2.1176.01     |
| Impeller:                    | Composite, PES           |
| <b>Installation:</b>         |                          |
| Maximum ambient temperature: | 104 °F                   |
| Ambient max at 176°F liquid: | 176 °F                   |
| Maximum operating pressure:  | 145.04 psi               |
| Flange standard:             | USA Sweat                |
| Type of connection:          | Bronze Sweat             |
| Pipe connection:             | 3/4" Sweat               |
| Pressure stage:              | 10                       |
| Port-to-port length:         | 6 3/8 in                 |
| <b>Liquid:</b>               |                          |
| Pumped liquid:               | Water                    |
| Liquid temperature range:    | 35.6 .. 219.2 °F         |
| Selected liquid temperature: | 140 °F                   |
| Density:                     | 61.35 lb/ft <sup>3</sup> |
| <b>Electrical data:</b>      |                          |
| Max. power input:            | 25 W                     |
| Main frequency:              | 60 Hz                    |
| Rated voltage:               | 1 x 115 V                |
| Current in speed 3:          | 0.22 A                   |
| Capacitor size - run:        | 2 µF/400 V               |
| Number of poles:             | 2                        |
| Insulation class (IEC 85):   | F                        |
| Motor protection:            | CONTACT                  |
| Thermal protec:              | internal                 |
| <b>Controls:</b>             |                          |
| Pos term box:                | 9H                       |
| <b>Others:</b>               |                          |
| Gross weight:                | 6.7 lb                   |
| Country of origin:           | US                       |
| Custom tariff no.:           | 8413.70.2005             |



**59896226 UP 15-10 B7 60 Hz**



Note! All units are in [in] unless otherwise stated.  
Disclaimer: This simplified dimensional drawing does not show all details.