Submittal Data Sheets for ECM Variable Speed Pumps

AM55 Pages 2
AM99 Pages 3
AquaMotionSmart™ Einstein Series™
ECM Circulator

Materials of Construction
- Shaft, Radial Bearings: Aluminum Oxide Ceramic
- Motor housing: Aluminum
- Impeller: Composite
- Pump housing (closed systems): Cast Iron
- Pump housing (open systems), wear ring, bearing support, cartridge sleeve, rotor sleeve: Stainless Steel
- Gaskets: EP (Ethylene Propylene Rubber)

Specifications
- Maximum Shut-off Head: 21 feet
- Maximum Flow: 20 gpm
- Maximum Operating Pressure: 145 psi (10 bar)
- Maximum Water Temp: 230°F (110°C)
- Minimum Water Temp: 40°F (5°C)
- Electrical specifications:
  - Voltage: 120V, 60 Hz Single phase
  - AMP Rating: 0.07 - 0.57A
  - Operating Power: 5W - 38W

AM55 - FVL Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>G</th>
<th>Ship Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM55-FVL, AM55-SFVL</td>
<td>7-1/4</td>
<td>184</td>
<td>5-1/2</td>
<td>140</td>
<td>3-1/2</td>
<td>89</td>
<td>2-3/4</td>
</tr>
</tbody>
</table>
Materials of Construction
- Shaft, Radial Bearings………..Aluminum Oxide Ceramic
- Motor housing ………………Aluminum
- Impeller…………………………Composite
- Pump housing (closed systems)….Cast Iron
- Wear ring, bearing support
cartridge sleeve, rotor sleeve……….Stainless Steel
- Gaskets…………………………Ethylene Propylene Rubber

Specifications
- Maximum Shut-off Head: 40 feet
- Maximum Flow: 42 gpm
- Maximum Operating Pressure: 145 psi (10 bar)
- Maximum Water Temp: 230°F (110°C)
- Minimum Water Temp: 40°F (5°C)
- Electrical specifications:
  - Voltage: 230V, 60 Hz Single phase
  - AMP Rating: 0.02 - 0.55A
  - Operating Power: 5W - 127W

Electrical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts</th>
<th>Watts</th>
<th>Amps</th>
<th>Flanges</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM99-FL</td>
<td>230</td>
<td>5-127</td>
<td>.02-.55</td>
<td>2 bolt</td>
</tr>
<tr>
<td>AM99-FVL</td>
<td>230</td>
<td>5-127</td>
<td>.02-.55</td>
<td>2 bolt</td>
</tr>
</tbody>
</table>

Performance Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Head Range</th>
<th>Flow Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM99-FL</td>
<td>0-40FT</td>
<td>0-42GPM</td>
</tr>
<tr>
<td>AM99-FVL</td>
<td>0-40FT</td>
<td>0-42GPM</td>
</tr>
</tbody>
</table>

Performance curve is not adjusted for AM99-FVL (with check valve)

Mounting Positions

**When the circulator is mounted in this position the system pressure must be 12 psi or more.

For Indoor Use Only

AquaMotion AM99-FL

AquaMotionSmart™ Newton Series™
ECM Circulator

US DESIGN • US BUILT