MUKMOVA
Model Numbers: 25301 & 25303

PRODUCT DESCRIPTION
Single stage open vane, semi vortex self priming centrifugal pumps driven by single or three phase TEFC motors.

APPLICATIONS
Ideal for pumping effluent water or water containing soft solids in suspension, such as:
- Dairy or piggery waste
- Liquid food transfer
- Water transfer

FEATURES & BENEFITS
Semi vortex open vane impeller
- Allows safe pumping of soft solids with little chance of blockage
Solid cast iron casing and impeller
- Long service life
Mechanical seal is grease packed with grease nipple
- Easy maintenance
- Able to withstand abrasives in the pumped fluid for longer
Inspection cover held by two wingnuts
- Easy access for cleaning
- Quick clearance adjustments
Choice of 240 / 480 volt single phase and 415 volt three phase, 50Hz models
- Making installation possible in most sites with electric power
Single phase models are capacitor start / capacitor run design
- Ensures ample starting torque with less likelihood of jamming when solids are present
Automatic resetting motor overload in all single phase models
- Protects the motor in the event of blockage or voltage supply problems
Davey manufactured TEFC, IP56 motor
- Resistant to vermin, dust and jets of water
- Able to be installed in washdown areas safely (subject to local regulations)
Oversized motor used, with ample power reserve
- More reliable in poor voltage and/or high ambient temperature installations
- Able to pump water with heavy soft solids without overloading the motor (up to SG 1.2)

OPERATING LIMITS
Max. flow (nil suction) 600lpm
Max. self prime (height) 6m
Max. soft solids (size) 20mm
Max. water temperature 70°C
Min. water temperature 1°C
Max. ambient temperature 50°C
Max. specific gravity 1.2

Inlet size 21/2” BSP(F)
Outlet sizes 2” BSP(F)

Also available in 220 volt 60Hz single phase and 380 volt 60Hz three phase.
**MATERIALS OF CONSTRUCTION**

<table>
<thead>
<tr>
<th>PART</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction cover</td>
<td>Cast iron*</td>
</tr>
<tr>
<td>Pump body &amp; yoke</td>
<td>Cast iron*</td>
</tr>
<tr>
<td>Inspection cover</td>
<td>Cast iron*</td>
</tr>
<tr>
<td>Impeller</td>
<td>Cast iron*</td>
</tr>
<tr>
<td>Inspection cover shims</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Inspection cover</td>
<td>Bronze 1/8”BSW</td>
</tr>
<tr>
<td>wingnuts (size)</td>
<td>Ceramic</td>
</tr>
<tr>
<td>Seal ring (stationary)</td>
<td>Carbon</td>
</tr>
<tr>
<td>Seal ring (rotating)</td>
<td>BP energrease LS2</td>
</tr>
<tr>
<td>Seal grease</td>
<td>Nitrile rubber</td>
</tr>
<tr>
<td>Orings &amp; gaskets</td>
<td>Glass filled nylon 6</td>
</tr>
<tr>
<td>Priming plug</td>
<td></td>
</tr>
</tbody>
</table>

*Grade AS1830/T-180

**TECHNICAL SPECIFICATIONS**

**HYDRAULIC PERFORMANCE**

![Graph showing total head vs flow rate]

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Phase</th>
<th>Input Power (P1)</th>
<th>Output Power (P2)</th>
<th>Capacitor - start</th>
<th>Capacitor - run</th>
<th>Full Load Current</th>
<th>Locked Rotor Current</th>
<th>Motor eff (%) @ FL</th>
<th>Insulation class</th>
<th>IP rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>25301</td>
<td>240V</td>
<td>Single</td>
<td>2.6kW</td>
<td>2.1kW</td>
<td>120μF</td>
<td>40μF</td>
<td>11A</td>
<td>70A</td>
<td>80%</td>
<td>Class F</td>
<td>IP56</td>
</tr>
<tr>
<td>25303</td>
<td>480V</td>
<td>Single</td>
<td>2.6kW</td>
<td>2.1kW</td>
<td>120μF</td>
<td>40μF</td>
<td>11A</td>
<td>60.9A</td>
<td>80%</td>
<td>Class F</td>
<td>IP56</td>
</tr>
</tbody>
</table>

**BASE MOUNTING HOLES**

All dimensions in mm unless otherwise stated.

- Single phase units should be restricted to no more than 20 starts per hour.
- Three phase units must be connected via a magnetic contactor with “quick-trip” or M10 rated overloads. Single phasing protection is strongly recommended.

**INSTALLATION & PRIMING**

- Fit strainer to bottom of suction pipe **only** where blockage of such a strainer is unlikely.
- A foot valve is **not** required.
- To prime, fill pump body with water then allow pump to run until drawing water.
- 415V 3 phase motors **must** be connected to a suitable magnetic contactor with M10 rated “quick trip” thermal overloads.

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**DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>25301</th>
<th>25303</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packed weight</td>
<td>94kg</td>
<td>88kg</td>
</tr>
</tbody>
</table>

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