## ODB13391 Series

DC Motorized Impeller, 24V, 48V  
133x91mm (5.24"x3.58")

### Frame
- Die Cast Aluminum

### Impeller
- PBT, UL94 V-0 Plastic

### Connection
- 4x Lead Wires, 20 AWG

### Motor
- Brushless DC, Electronically Protected, Polarity Protected

### Bearing System
- Dual Ball Bearings

### Dielectric Strength
- 500VAC/min < 1mA

### Insulation Resistance
- 10M ohm between leadwires and frame (500 VDC)

### Operating Temperature
- -10°C ~ +60°C

### Storage Temperature
- -40°C ~ +75°C

### Life Expectancy
- 50,000 hours (L10 at 25°C)

### Other Available Options
- Alarm

### Other Speeds Available

### Weight
- 1.54 lbs

### Part Number
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Rated Voltage</th>
<th>Rated Power</th>
<th>Nominal Current</th>
<th>Rated Speed (RPM)</th>
<th>Airflow (CFM)</th>
<th>Noise Level (dB)</th>
<th>Max. Static Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>ODB13391-24HB10A</td>
<td>24 VDC</td>
<td>63.6 W</td>
<td>2.65 A</td>
<td>4600</td>
<td>326</td>
<td>68</td>
<td>1.9&quot; H₂O</td>
</tr>
<tr>
<td>ODB13391-48HB10A</td>
<td>48 VDC</td>
<td>60 W</td>
<td>1.25 A</td>
<td>4600</td>
<td>326</td>
<td>68</td>
<td>1.9&quot; H₂O</td>
</tr>
</tbody>
</table>

### PWM
- Low Voltage: <0.5V
- High Voltage: >2.6V
- High Voltage Max: ≤12V
- Max Sink Current: 8mA
- Frequency Range: 100Hz-100KHz
- Typical Frequency: 25KHz
- RPM at 0% Duty Cycle: 0 RPM
- RPM will be full speed if PWM input is disconnected.

### Tach
- Max Voltage = 24V
- Max Current = 5mA
- Low Voltage = 0.5V
- Pulses per rotation = 2

### Diagrams

- PWM Source
- Orion Fan
- Customer Tach Circuit

---

Knight Electronics, Inc.  
10557 Metric Drive  
Dallas, TX 75243  
214-340-0265  

Orion Fans  
Information and data is subject to change without prior notification.