ODB22071 Series

DC Motorized Impeller, 24V, 48V
220x71mm (8.7”x2.80”)

Frame
- Die Cast Aluminum

Impeller
- PBT, UL94 V-0 Plastic

Connection
- 4x Lead wires, 20 AWG

Motor
- Brushless DC, IC Protected, Polarity Protected

Bearing System
- Dual Ball Bearings

Dielectric Strength
- 500VAC/min

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)

Available Options
- Alarm
- Other Speeds Available

Weight
- 3.09 lbs

<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>ODB22071-24HB10A</td>
<td>24 VDC</td>
<td>105.6 W</td>
<td>4.4 A</td>
<td>2800</td>
<td>580</td>
<td>68</td>
<td>2.10” H₂O</td>
</tr>
<tr>
<td>ODB22071-48HB10A</td>
<td>48 VDC</td>
<td>129.6 W</td>
<td>2.7 A</td>
<td>3000</td>
<td>621</td>
<td>69</td>
<td>2.26” H₂O</td>
</tr>
</tbody>
</table>

PWM Source

Orion Fan

Customer Tach Circuit

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

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