OD8020 Series

DC Fan, 12V, 24V
80x20mm (3.15”x0.8”)

Frame: PBT, UL94 V-0 plastic
Impeller: PBT, UL94 V-0 plastic
Connection: 2x Lead wires, 26 AWG
Motor: Brushless DC, Auto Restart, Auto Cutoff, Polarity Protected, Electronically Protected
Bearing System: Dual Ball Bearings
Dielectric Strength: 500VAC/min
Insulation Resistance: 10M ohm between leadwires and frame (500 VDC)

Operating Temperature:
-20°C ~ +65°C

Storage Temperature:
-20°C ~ +75°C

Life Expectancy:
60,000 hours (L10 at 45°C)

Available Options:
Tachometer
Alarm
PWM
Sealed Sleeve

Weight: 0.17 lbs

Part Number | Rated Voltage | Input Power | Rated Current | Rated Speed (RPM) | Airflow (CFM) | Noise Level (dB) | Max. Static Pressure |
--- | --- | --- | --- | --- | --- | --- | --- |
OD8020-12HB | 12 VDC | 2.2 W | 0.18 A | 3400 | 40 | 36 | 0.18"H2O |
OD8020-12MB | 12 VDC | 1.8 W | 0.15 A | 2800 | 32 | 29 | 0.11"H2O |
OD8020-12LB | 12 VDC | 1.4 W | 0.12 A | 2400 | 27 | 25 | 0.09"H2O |
OD8020-24HB | 24 VDC | 2.9 W | 0.12 A | 3400 | 40 | 36 | 0.18"H2O |
OD8020-24MB | 24 VDC | 2.4 W | 0.10 A | 2800 | 32 | 29 | 0.11"H2O |
OD8020-24LB | 24 VDC | 2.0 W | 0.08 A | 2400 | 27 | 25 | 0.09"H2O |

Operating Temperature
-20°C ~ +65°C

Storage Temperature
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Life Expectancy
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### OD8020-12HB02A

**DC Fan, 12V**

80x20mm (3.15”x0.8”)

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#### Frame
- PBT, UL94 V-0 plastic

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

#### Connection
- 3x Wire Leads, 26 AWG

#### Motor
- Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected

#### Bearing System
- Dual Ball Bearings

#### Dielectric Strength
- 500VAC/min

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**Operating Temperature**
- -20°C ~ +65°C

**Storage Temperature**
- -20°C ~ +75°C

**Life Expectancy**
- 60,000 hours (L10 at 45°C)

**Weight:** 0.17 lbs

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#### Part Number
- OD8020-12HB02A

#### Rated Voltage
- 12 VDC

#### Voltage Range
- 7 ~ 13.8

#### Input Power
- 2.2 W

#### Rated Current
- 0.18 A

#### Rated Speed (RPM)
- 3400

#### Airflow (CFM)
- 40

#### Noise Level (dB)
- 36

#### Max. Static Pressure
- 0.18”H₂O

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**Alarm Parameters**

- Alarm Max Pull-up Voltage = 12V
- Alarm Max Current = 6mA
- Alarm Low Voltage = ≤0.5V

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

Orion Fans
Information and data is subject to change without prior notification.
## OD8020-24HB02A

**DC Fan, 24V**  
80x20mm (3.15”x0.8”)

### Technical Specifications

<table>
<thead>
<tr>
<th><strong>Frame</strong></th>
<th>PBT, UL94 V-0 plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Impeller</strong></td>
<td>PBT, UL94 V-0 plastic</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>3x Wire Leads, 26 AWG</td>
</tr>
<tr>
<td><strong>Motor</strong></td>
<td>Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected</td>
</tr>
<tr>
<td><strong>Bearing System</strong></td>
<td>Dual Ball Bearings</td>
</tr>
<tr>
<td><strong>Dielectric Strength</strong></td>
<td>500VAC/min</td>
</tr>
</tbody>
</table>

| **Operating Temperature** | -20°C ~ +65°C |
| **Storage Temperature** | -20°C ~ +75°C |
| **Life Expectancy** | 60,000 hours (L10 at 45°C) |
| **Weight** | 0.17 lbs |

### Electrical Specifications

<table>
<thead>
<tr>
<th><strong>Part Number</strong></th>
<th>OD8020-24HB02A</th>
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</thead>
<tbody>
<tr>
<td><strong>Rated Voltage</strong></td>
<td>24 VDC</td>
</tr>
<tr>
<td><strong>Voltage Range</strong></td>
<td>12 ~ 27.6</td>
</tr>
<tr>
<td><strong>Input Power</strong></td>
<td>2.9 W</td>
</tr>
<tr>
<td><strong>Rated Current</strong></td>
<td>0.12 A</td>
</tr>
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<td><strong>Rated Speed (RPM)</strong></td>
<td>3400</td>
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<td>40</td>
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<td>36</td>
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<td>0.18&quot;H₂O</td>
</tr>
</tbody>
</table>

### Alarm Specifications

- **Alarm Max Pull-up Voltage**: 24V  
- **Alarm Max Current**: 6mA  
- **Alarm Low Voltage**: ≤0.5V

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