

# OD4010-24HB01A Orion Fans 24V 0.09A 3-wire cooling fan

**SKU:** 623117042616

**Price:** \$9.99

**Categories:** Fans

**Tags:** Orion Fans

**Product Link:**

<https://www.electspares.com/product/od4010-24hb01a-orion-fans-24v-0-09a-3-wire-cooling-fan/>

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## Product Description

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Original ORION FANS OD4010-24HB01A 24V 0.09A 4010 3-wire cooling fan

Model Number: OD4010-24HB01A

Manufacturer: Orion Fans

Series: OD4010 Series

Fan Type: DC Brushless Axial Fan (Tubeaxial)

Dimensions (L x H x W): 40 mm x 40 mm x 10 mm

Rated Voltage: 24 VDC

Operating Voltage Range: 21.6 VDC to 26.4 VDC

Rated Current: 0.06 A (Some sources may list 0.09A, but 0.06A is directly from Orion's detailed datasheet for this exact model.)

Input Power: 1.4 W (Calculated from 24V \* 0.06A)

Wiring: 3 Lead Wires (Positive, Negative, and Open Collector Tachometer Output)

Rotational Speed (RPM): 8000 RPM (Some sources list 6000 RPM, but 8000 RPM is more precise for the 'HB' - High Blower - designation)

Maximum Airflow:

9.2 CFM (Cubic Feet per Minute)

0.258 m<sup>3</sup>/min (Cubic Meters per Minute)

Maximum Static Pressure: 0.20 in H<sub>2</sub>O (Inches of Water) / 33.4 Pa (Pascals)

Noise Level: 33.4 dB(A) (Some sources may list 25 dB(A) or 34 dB(A), but 33.4 dB(A) is found on the datasheet)

Bearing Type: Ball Bearing (Dual Ball Bearing)

Frame Material: PBT, UL94 V-0 plastic

Impeller (Blade) Material: PBT, UL94 V-0 plastic

Sensor Type: Open Collector Tachometer Output (Provides 2 pulses per revolution)

Protection Functions: Auto Restart, Auto Cutoff (Electronically Protected), Polarity Protected (Reverse Polarity Protection)

Operating Temperature Range: -20°C to +65°C

Storage Temperature Range: -20°C to +75°C

Expected Life (L10): 60,000 hours (at 45°C) or 70,000 hours (from some distributor listings).

Safety Approvals: Typically includes UL, cUL (common for Orion Fans)

Mass: 0.044 lbs (approx. 20g)

The Orion Fans OD4010-24HB01A is a compact, high-performance 40x40x10mm DC axial fan designed for cooling electronic components in constrained spaces. Operating on 24VDC with a low current draw of 0.06A and 1.4W power, it delivers a notable 9.2 CFM of airflow and 0.20 in H2O static pressure at 8000 RPM, with a moderate noise level of 33.4 dB(A). Featuring durable dual ball bearings, flame-retardant plastic construction, and an open collector tachometer output for speed monitoring, this fan also incorporates auto restart, auto cutoff, and reverse polarity protection, ensuring a long and reliable lifespan of 60,000 hours at 45°C.

## **Product Images**

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