

# DYB0420B2S-P082 AVC 12VDC 40x40x28mm 4-Wire Axial Fan Datasheet



**Brand:** AVC

**SKU:** 848207641504

**Category:** Axial & Centrifugal Fans

**Price:** \$8.99

**E-mail:** [sales@equipspares.com](mailto:sales@equipspares.com)

**Web:** <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/dyb0420b2s-p082-avc-12vdc-40x40x28mm-4-wire-axial-fan>

## Product Description

The AVC DYB0420B2S-P082 is a high-performance DC Axial Fan engineered for critical thermal management in compact industrial enclosures and high-density server environments. This unit utilizes a robust Dual Ball Bearing architecture, ensuring exceptional rotational stability, reduced friction, and extended operational lifespan under continuous high-speed loads. The aerodynamic impeller design is optimized for high static pressure, making it ideal for overcoming significant system impedance in dense component layouts. Operating at 12VDC with a substantial current draw of 0.65A, this 40mm fan delivers aggressive airflow relative to its form factor. The integration of a 4-wire interface facilitates precise Pulse Width Modulation (PWM) speed control, allowing for dynamic thermal regulation and acoustic optimization based on real-time system temperature requirements.

Model Number: DYB0420B2S-P082

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.65 A

Power Input: 7.80 W

Rated Speed: 13000 RPM (Nominal)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 24.8 CFM (42.1 m<sup>3</sup>/h)

Max. Static Pressure: 1.95 inH<sub>2</sub>O (486 Pa)

Dimensions: 40 x 40 x 28 mm

Weight: 48 g

Termination: 4-Wire Leads with Connector

Control Interface: PWM (Pulse Width Modulation)

Sensor Output: Tachometer (RPM Signal)

Housing Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Life Expectancy: 70,000 Hours at 40°C

Safety Approvals: UL, cUL, TUV, CE

The DYB0420B2S-P082 is specifically designed for high-density electronic environments requiring aggressive cooling solutions to prevent thermal throttling. Common deployment scenarios include 1U server racks, network switches, and telecommunications equipment where space is strictly limited but heat dissipation demands are critical. The DYB0420B2S-P082 is also frequently utilized in compact power supplies, RAID arrays, and industrial automation controllers, providing the necessary static pressure to force air through dense heatsinks and restricted airflow channels efficiently.

## Supplemental Images

---

