

DYPD0838B2SY001 AVC 12VDC 80x80x38mm PWM Axial Fan Datasheet



Brand: AVC

SKU: 936508548158

Category: Axial & Centrifugal Fans

Price: \$17.99

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Product Page:

<https://www.equipspares.com/product/dypd0838b2sy001-avc-12vdc-80x80x38mm-pwm-axial-fan>

Product Description

The AVC DYPD0838B2SY001 is a high-static pressure Axial Fan engineered for mission-critical thermal management in dense server environments and industrial applications. Utilizing a robust Dual Ball Bearing architecture, this unit ensures exceptional operational stability and extended service life under continuous high-load conditions. The 12VDC motor is calibrated for extreme performance, drawing 5.1A to generate substantial airflow and overcome significant system impedance. Its aerodynamic impeller design optimizes air intake efficiency while minimizing turbulence-induced noise, making it an ideal solution for overcoming high thermal impedance in restricted chassis spaces. The structural rigidity of the frame ensures reliability during rapid speed transitions controlled via PWM modulation, maintaining consistent cooling performance.

Model Number: DYPD0838B2SY001

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 5.10 A

Power Consumption: 61.2 W

Rated Speed: 11000 RPM (Nominal)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 165.0 CFM (280.3 m³/h)
Max. Static Pressure: 45.2 mmH₂O (443 Pa / 1.78 inH₂O)
Dimensions: 80 x 80 x 38 mm
Weight: 215 g
Life Expectancy: 70,000 Hours at 40°C
Speed Control: PWM (Pulse Width Modulation)
Signal Output: Tachometer (Frequency Generator)
Noise Level: 68.5 dB(A)
Housing Material: PBT Thermoplastic (UL94V-0)
Impeller Material: PBT Thermoplastic (UL94V-0)
Termination: 4-Wire Lead with Connector
Wire Assignment: Red (+), Black (-), Yellow (Sensor), Blue (PWM)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP40
Motor Protection: Locked Rotor Protection; Reverse Polarity Protection
Certifications: CE, TUV, UL, RoHS

The DYPD0838B2SY001 is primarily deployed in enterprise-grade server racks and blade enclosures where high-density component cooling is mandatory. Its high-pressure output makes it specifically suitable for forcing air through restrictive heatsinks found in CPU cooling modules and redundant power supplies. Additionally, the DYPD0838B2SY001 is utilized in telecommunications base stations, ASIC mining rigs, and industrial automation equipment requiring rapid heat evacuation to prevent thermal throttling. The robust design allows the DYPD0838B2SY001 to operate reliably in 24/7 infrastructure environments.

Supplemental Images

