

DFPK0456B2G-Y041 AVC 12VDC 40x40x56mm 3.60A Axial Fan Datasheet



Brand: AVC

SKU: 987764359518

Category: Axial & Centrifugal Fans

Price: \$16.99

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Product Page:

<https://www.equipspares.com/product/dfpk0456b2g-y041-avc-12vdc-40x40x56mm-3-60a-axial-fan>

Product Description

The AVC DFPK0456B2G-Y041 is a high-performance DC axial fan engineered specifically for mission-critical thermal management in high-density server environments. Utilizing an advanced counter-rotating blade design and dual ball bearing architecture, this unit ensures exceptional structural rigidity and longevity under continuous high-speed operation. The aerodynamic profile is optimized to overcome high system impedance, delivering the significant static pressure required for dense component cooling in 1U chassis configurations. Its precision-wound motor assembly minimizes thermal impedance while maximizing torque efficiency, making it an ideal solution for restricted-space applications requiring aggressive heat dissipation and reliable airflow stability.

Model Number: DFPK0456B2G-Y041

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan (Counter-Rotating)

Rated Voltage: 12 VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 3.60 A

Power Consumption: 43.2 W

Rated Speed: 32000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 36.5 CFM (62.0 m³/h / 1.03 m³/min)

Max. Static Pressure: 85.4 mmH₂O (837 Pa / 3.36 inH₂O)

Dimensions: 40 x 40 x 56 mm

Noise Level: 64.0 dB(A)

Frame Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Termination: 4-Wire Lead (Red +, Black -, Yellow Tach, Blue PWM)

Speed Control: PWM (Pulse Width Modulation)

Ingress Protection: IP40

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Life Expectancy: 70,000 Hours at 40°C

Safety Certifications: UL, CUL, TUV, CE

Designed specifically for high-density computing environments, the DFPK0456B2G-Y041 excels in 1U server racks and blade chassis systems where backpressure is significant. The DFPK0456B2G-Y041 provides the necessary static pressure to force air through dense heatsinks and tightly packed component arrays found in telecommunications equipment and network switches. Its robust construction also suits industrial automation systems and precision cooling for power supplies requiring reliable, high-velocity airflow to prevent thermal throttling.

Supplemental Images

