

# 04028DA-12T-AKH-AF NMB 12VDC 40x40x28mm DC Axial Fan Datasheet



**Brand:** NMB

**SKU:** [727101696166](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$14.99**

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

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

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Product Page:

<https://www.equipspares.com/product/04028da-12t-akh-af-nmb-12vdc-40x40x28mm-dc-axial-fan>

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## Product Description

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The NMB 04028DA-12T-AKH-AF is a precision-engineered DC Axial Fan designed for high-density thermal management applications requiring exceptional static pressure. Utilizing advanced NMB-MAT motor technology and a robust Dual Ball Bearing architecture, this unit delivers superior rotational stability and longevity under continuous high-speed operation. The aerodynamic impeller design is optimized to overcome high system impedance, generating significant airflow relative to its compact form factor. Constructed with high-grade thermoplastic housing to ensure structural rigidity and vibration damping, the 04028DA-12T-AKH-AF effectively mitigates thermal buildup in space-constrained electronic enclosures, ensuring reliable performance in demanding industrial environments where thermal impedance is a critical factor.

Model Number: 04028DA-12T-AKH-AF

Brand: NMB (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 12V DC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 1.95 A

Power Consumption: 23.4 W

Rated Speed: 23000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 32.5 CFM (55.2 m<sup>3</sup>/h / 0.92 m<sup>3</sup>/min)

Max. Static Pressure: 2.85 inH<sub>2</sub>O (710 Pa / 72.4 mmH<sub>2</sub>O)

Dimensions: 40mm x 40mm x 28mm

Weight: 55 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 64.0 dB(A)

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Housing Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Ingress Protection: IP40

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: 4-Wire Lead

Mounting Orientation: Any

Motor Protection: Locked Rotor Protection, Reverse Polarity Protection

The 04028DA-12T-AKH-AF is specifically engineered for mission-critical cooling within high-impedance environments such as 1U server racks, telecommunications equipment, and precision industrial machinery like optical color sorters. Its high static pressure capabilities make it an ideal solution for forcing air through dense heatsinks and restricted chassis found in redundant power supplies and network switches. By integrating the 04028DA-12T-AKH-AF into thermal subsystems, engineers can ensure sustained operational stability for sensitive components in compact automation controllers and high-performance computing clusters.

## Supplemental Images

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