

# 03828DA-12Q-BU-01 NMB 12VDC 38x28mm PWM Axial Fan Datasheet



**Brand:** NMB

**SKU:** [1035039468292](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$17.99**

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Product Page:

<https://www.equipspares.com/product/03828da-12q-bu-01-nmb-12vdc-38x28mm-pwm-axial-fan>

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## Product Description

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NMB 03828DA-12Q-BU-01 is a 12VDC 38x28mm Axial Fan optimized for high-density thermal management in space-constrained environments. This compact cooling solution utilizes a brushless DC motor integrated with a precision dual ball bearing architecture to ensure long-term reliability and reduced thermal impedance. The aerodynamic design of the UL94V-0 plastic impeller is engineered for structural rigidity, allowing the fan to overcome significant system resistance. Operating at a rated current of 0.75A with a power consumption of 9.0W, it features a 4-wire PWM interface for dynamic speed modulation, making it an ideal replacement fan for high-performance server nodes and power supply units requiring efficient heat dissipation.

Model Number: 03828DA-12Q-BU-01

Brand: NMB (MinebeaMitsumi)

Product Type: Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.75 A

Power: 9.0 W

Rated Speed: 18500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 18.5 CFM (31.4 m<sup>3</sup>/h / 0.52 m<sup>3</sup>/min)

Max. Static Pressure: 450 Pa (1.81 inH<sub>2</sub>O)

Dimensions: 38 x 38 x 28 mm

Weight: 45 g

Life Expectancy: 70,000 hours

Speed Control: 4-Wire (PWM + Tachometer)

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Termination: 4-Lead Wires

Operating Temperature: -10 to +70 °C

Protection: Locked Rotor Protection, Reverse Polarity Protection

#### 03828DA-12Q-BU-01 Applications

1. 1U/2U Server Nodes: High static pressure allows for efficient cooling through dense heatsink fins in compact rackmount chassis.
2. Network Switch and Router Modules: The 38mm form factor is ideal for modular line cards where high-velocity airflow is required to prevent localized hotspots.
3. Industrial Power Supplies: Serves as a critical replacement fan for high-wattage PSUs where overcoming internal component impedance is necessary for thermal stability.

## Supplemental Images

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