

# 4715VL-04W-B86-E53 NMB 12V 3.60A 120mm 12038 DC Axial Fan

**SKU:** 4715VL-04W-B86-E53

**Price:** \$19.75

**Categories:** Fans

**Tags:** NMB

**Product Link:**

<https://www.electspares.com/product/4715vl-04w-b86-e53-nmb-12v-3-60a-120mm-12038-dc-axial-fan/>

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## Product Description

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The NMB 4715VL-04W-B86-E53 is an ultra-high-performance DC axial fan, commonly referred to as a "12038" size, engineered for the most demanding thermal environments. This 120 x 120 x 38 mm unit features NMB's signature precision dual ball bearing system and a specialized 5-blade high-torque impeller designed for maximum air displacement. Operating at 12 VDC with a heavy-duty current draw of 3.60 A (43.20 W), it delivers a super-high speed profile to produce an immense 200.30 CFM of airflow. The 4-wire interface provides both a Speed Sensor (FG) and Pulse Width Modulation (PWM) input, enabling intelligent, demand-based speed control. Built with a brushless DC motor and advanced electronic protection, this fan is a critical cooling component for enterprise-grade servers, high-power industrial inverters, and telecommunications infrastructure requiring extreme heat dissipation.

4715VL-04W-B86-E53 Fan Parameters

Manufacturer: NMB (MinebeaMitsumi)

Model Number: 4715VL-04W-B86-E53

Industry Size Code: 12038

Type: DC axial fan

Bearing Type: Dual Ball Bearing

Nominal Voltage: 12 VDC

Voltage Range: 10.0 - 13.2 VDC

Starting Voltage: 10.0 VDC

Dimensions: 120 x 120 x 38 mm

[Electrical Data]

Input Power: 43.20 W

Nominal Current: 3.60 A

Max. Current: 4.10 A

Nominal Speed: 5500 RPM (Tolerance  $\pm 10\%$ )

Motor Design: Brushless DC Motor, 4-pole

Signal Output: FG (Frequency Generator/Tachometer)

Speed Control: PWM (Pulse Width Modulation)

Motor Protection: Auto Restart, Polarity Protection, Locked Rotor Protection

Insulation Class: Class E (120 °C)

Insulation Resistance: 10M ohm at 500 VDC

Termination: 4-Lead wires (UL1007, AWG#24, Red/Black/White/Blue)

#### [Performance & Acoustics]

Max. Air Flow: 200.30 CFM (340.31 m<sup>3</sup>/h / 5.67 m<sup>3</sup>/min)

Max. Static Pressure: 28.50 mmH<sub>2</sub>O (279.49 Pa / 1.12 inH<sub>2</sub>O)

Sound Pressure Level: 59 dB(A)

Number of Blades: 5

Direction of Rotation: Counter-clockwise (viewed toward impeller)

Airflow Direction: Intake over struts

#### [Materials & Construction]

Frame Material: Aluminum (Die-Cast) / Plastic UL94V-0

Impeller Material: Plastic (Black) UL94V-0

Installation Position: Any

Degree of Protection: IP54

#### [Reliability & Safety Standards]

Min. Ambient Temperature: -10 °C

Max. Ambient Temperature: 70 °C

Life Expectancy (L10): 70,000 hours at 40 °C

Standard Compliance: IEC 60950-1, EN 61000-6-1/3

Approval Agency: UL, CSA, VDE, CE, RoHS

#### Application

The NMB 4715VL-04W-B86-E53 axial fan is used in high-capacity power supplies, network core switches, telecommunications cabinets, industrial automation controllers, server racks, and high-performance inverters.

## **Product Images**

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