9BMB24P2K01 Sanyo Denki 24V 1.62A DC Centrifugal Blower

SKU: 9BMB24P2K01

Price: $57.50

Categories: Fans

Tags: Sanyo Denki

Product Link:
https://www.elecspares.com/product/9bmb24p2k01-sanyo-denki-24v-1-62a-dc-centrifugal-blower/

Product Description

The Sanyo Denki 9BMB24P2K01 is an ultra-high-performance industrial DC Centrifugal Blower with dimensions of 97 x 94 x 33 mm. Driven by a high-torque Brushless DC Motor, this San Ace 97BMB series model is engineered as an extreme-pressure thermal solution operating on a nominal 24 VDC. It delivers a powerful maximum airflow of 54.7 CFM (93.0 m^3/h) at a high rated speed of 8400 RPM. With a substantial rated current of 1.62 A and a power input of 38.88 W, it is specifically designed to overcome extreme airflow resistance in high-density 1U/2U server blades and telecommunications rectifiers. This 4-wire version features a premium dual-ball bearing system and a specialized centrifugal impeller capable of generating a massive static pressure of 4.10 inAq (1020 Pa). Equipped with both PWM speed control and tacho signal output, the 9BMB24P2K01 provides intelligent, high-intensity cooling for mission-critical infrastructure where standard blowers fail to provide sufficient air penetration.

9BMB24P2K01 Fan Parameters
Manufacturer: Sanyo Denki (San Ace)
Model Number: 9BMB24P2K01
Motor Design: Brushless DC Motor
Type: DC Centrifugal Blower (Ultra High Power Series)
Dimensions: 97 x 94 x 33 mm
Impeller Size: 76 mm
Nominal Voltage: 24 VDC
Operating Voltage Range: 20.4 to 27.6 VDC
Starting Voltage: 12.0 VDC
Speed: 8400 RPM
Power Input: 38.88 W

Rated Current: 1.62 A
Max. Airflow: 54.7 CFM (93.0 m³/h)
Max. Static Pressure: 1020 Pa (4.10 inAq)
Noise Level: 70 dB(A)
Weight: 210 g
Termination: 4 Wire Leads (Red: +, Black: -, Yellow: Tacho, Brown: PWM)
Lead Wire Length: 300 mm (24 AWG)
Bearing Type: Dual Ball Bearing
Housing Material: Plastic (UL 94V-0 PBT)
Impeller Material: Plastic (UL 94V-0 PBT)
Number of Blades: High-Speed Turbine Design
Direction of Rotation: Clockwise (viewed toward rotor)
Direction of Airflow: Side Intake / Centrifugal Outlet
Degree of Protection: IP20
Insulation Class: A
Dielectric Strength: 500 VAC / 1 min
Insulation Resistance: 10M Ω or over with a DC500V Megger
Operating Temp. Range: -20 °C to +70 °C
Storage Temp. Range: -30 °C to +70 °C
Life Expectancy (L10) at 40 °C: 40,000 h
Control Signal: PWM Speed Control
Signal Output: Tacho signal (FG)
Safety Protections: Auto-restart, Polarity protection, Locked-rotor protection
Approvals: CE, UL, TUV, CSA

Application
The 9BMB24P2K01 is primarily utilized as a specialized high-intensity cooling solution for high-density 1U/2U server chassis, core networking switches, and 24V telecommunications power modules. Its 1.62 A high-power motor is essential for these applications, generating an extreme static pressure of 4.10 inAq to force air through tightly packed internal components and sophisticated heat pipe arrays. The 4-wire PWM interface allows the system to scale its cooling performance from a quiet idle to a full 8400 RPM output during peak processing loads. This model is a mission-critical component in industrial medical scanners and high-wattage power rectifiers where directional airflow and extreme pressure reliability are required to prevent thermal throttling of high-heat-generating power components in space-constrained environments.

Product Images

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