

03010SS-12N-BL-Y1 NMB 24V 30mm DC Axial micro Fan

SKU: 03010SS-12N-BL-Y1

Price: \$9.99

Categories: Fans

Tags: NMB

Product Link:

<https://www.electspares.com/product/03010ss-12n-bl-y1-nmb-24v-30mm-dc-axial-micro-fan/>

Product Description

The NMB 03010SS-12N-BL-Y1 is a high-performance micro cooling fan with dimensions of 30 x 30 x 10 mm. Driven by a precision Brushless DC Motor, this ultra-compact axial fan operates on a nominal 24 VDC, making it an ideal choice for high-voltage industrial applications within a minimal footprint. With a rated current of 0.11 A and a power input of 2.64 W, it delivers a superior airflow of 4.24 CFM (7.2 m³/h) at a high speed of approximately 9500 RPM. Specifically engineered as a high-density micro cooling solution, it features a durable 5-blade plastic impeller and a specialized sleeve bearing system optimized for quiet, stable operation in extremely confined spaces. This three-wire model, weighing only 8.5 g, includes a tachometer signal output for real-time monitoring, providing reliable thermal management for compact industrial controllers, medical sensors, and micro-electronic modules.

03010SS-12N-BL-Y1 Fan Parameters

Manufacturer: NMB (MinebeaMitsumi)

Model Number: 03010SS-12N-BL-Y1

Motor Design: Brushless DC Motor

Type: DC Axial Fan (Micro Cooling Fan)

Dimensions: 30 x 30 x 10 mm

Impeller Size: 28 mm

Nominal Voltage: 24 VDC

Operating Voltage Range: 20 to 26.4 VDC

Speed: 9500 RPM

Power Input: 2.64 W

Rated Current: 0.11 A

Max. Airflow: 4.24 CFM (7.2 m³/h)

Max. Static Pressure: 42 Pa (0.17 inAq)
Noise Level: 29 dB(A)
Weight: 8.5 g
Termination: 3 Wire Leads (VCC, GND, Tacho)
Bearing Type: Sleeve Bearing
Housing Material: Plastic (UL 94V-0)
Impeller Material: Plastic (UL 94V-0)
Number of Blades: 5
Direction of Rotation: Counter-clockwise (viewed toward rotor)
Degree of Protection: IP20
Insulation Class: E
Operating Temp. Range: -10 °C to +70 °C
Signal Output: Tacho signal
Safety Protections: Impedance protection, Reverse polarity protection
Approvals: CE, UL, CSA, TUV

Application

The 03010SS-12N-BL-Y1 serves as a high-performance micro cooling fan specifically designed for localized thermal management in 24V industrial automation controllers and compact PLC modules. In these space-constrained environments, the 03010SS-12N-BL-Y1 excels by providing essential airflow to critical components without increasing the overall device footprint. This micro cooling fan model is also an ideal solution for cooling high-precision medical sensors and portable diagnostic tools that require the reliability of the 03010SS-12N-BL-Y1 to maintain measurement accuracy. Furthermore, the 24V DC architecture and integrated speed feedback of the 03010SS-12N-BL-Y1 make it suitable for micro-electronic enclosures and small-scale IoT gateways where intelligent, fail-safe heat dissipation is mandatory in a micro-sized package.

Product Images









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