

9393020011 ebmpapst 24VDC 100x100x25mm Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: [1007102910926](#)

Category: Axial & Centrifugal Fans

Price: **\$150.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/9393020011-ebmpapst-24vdc-100x100x25mm-centrifugal-fan>

Product Description

ebmpapst 9393020011 is a 24VDC 100x100x25mm Centrifugal Fan optimized for high-pressure medical ventilation and vacuum pump cooling. This precision-engineered blower utilizes a high-efficiency DC brushless motor with dual ball bearing architecture to minimize thermal impedance and ensure long-term structural rigidity under continuous operation. The aerodynamic impeller design is specifically tuned to overcome high system resistance in compact pneumatic circuits. Operating at a rated current of 1.1A and 5000RPM, it delivers a robust static pressure of 560Pa, making it a critical component for maintaining stable airflow in life-support equipment and specialized industrial gas analysis systems.

Model Number: 9393020011

Brand: ebmpapst

Product Type: Centrifugal Fan / Blower

Rated Voltage: 24 VDC

Voltage Range: 16.0 - 28.0 VDC

Rated Current: 1.1 A

Power: 26.4 W

Rated Speed: 5000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 82.4 CFM (140 m³/h)

Max. Static Pressure: 57.1 mmH₂O (560 Pa)

Dimensions: 100 x 100 x 25 mm

Weight: 180 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM Control

Signal Output: Tachometer / Hall Signal

Noise Level: 58 dB(A)

Housing Material: Fiberglass-reinforced Plastic (PBT)

Blade Material: Fiberglass-reinforced Plastic (PA)

Insulation Class: Class E

Ingress Protection: IP20

Termination: 4-Wire Lead Wires

Operating Temperature: -20 to +70 °C

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Certifications: VDE, CSA, UL, CE

9393020011 Applications

1. Medical Ventilators and CPAP Machines: High static pressure capability ensures consistent oxygen delivery through high-impedance breathing circuits and bacterial filters.
2. Vacuum Pump Cooling: Compact form factor and high RPM provide targeted thermal management for internal motor components in medical-grade suction units.
3. Laboratory Gas Analyzers: Low-vibration operation and precise PWM speed control allow for stable sampling flows without interfering with sensitive optical or chemical sensors.
4. Replacement Fan for Medical Equipment: Direct OEM replacement for ebmpapst 9393020011 series in legacy respiratory and diagnostic platforms.

Supplemental Images

