

414F ebmpapst 24V 40x40x10mm DC Axial Fan

SKU: 414F

Price: \$45.14

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/414f-ebmpapst-24v-40x40x10mm-dc-axial-fan/>

Product Description

The ebmpapst 414F (9291705005) is an ultra-slim 24 V DC Axial Fan with dimensions of 40 x 40 x 10 mm, specifically engineered for precision thermal management in space-constrained industrial electronics and medical equipment. Driven by an electronically commutated external rotor motor with integrated auto-restart locked-rotor protection and reverse polarity protection, this unit provides a precise Max. Power Consumption of 0.8 W and a Max. Current Draw of 0.03 A at 24 V DC. Operating at a rated speed of 5400 RPM with an optimized 7-blade impeller, it delivers steady airflow for localized heat extraction. Constructed with a glass-fiber reinforced PBT plastic housing and a high-performance impeller featuring the Sintec-sleeve bearing system, this 17 g unit ensures reliable air-moving performance and mechanical stability for integrated industrial switchgear systems at the end.

414F Fan Parameters

Model Number: 414F

Part Number: 9291705005

Manufacturer: ebmpapst

Type: DC Axial Fan

Dimensions: 40.0 x 40.0 x 10.0 mm

Weight: 17 g

Bearing Type: Sintec-sleeve bearing

Nominal Voltage: 24 V DC

Voltage Range: 18.0 - 28.0 V DC

Max. Power Consumption: 0.8 W

Max. Current Draw: 0.03 A (30 mA)

Starting Current: 150 mA

Rated Speed: 5400 RPM

Max. Air Flow: 4.7 CFM (8.0 m³/h)

Max. Static Pressure: 38 Pa (0.15 inH₂O)

Motor Protection: Auto-restart locked rotor and reverse polarity protection

Insulation Class: Class E

Electrical Hookup: 2 lead wires (Red: +UB, Blue: GND)

Wire Length: 310 mm (28 AWG)

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: Exhaust over struts

Housing Material: Glass-fiber reinforced PBT plastic

Impeller Material: Glass-fiber reinforced PA plastic

Operation Mode: S1 (Continuous operation)

Sound Power Level: 4.4 bel(A)

Sound Pressure Level: 26.0 dB(A)

Service Life (L10): 45,000 h (at 20 °C) / 30,000 h (at 40 °C)

Operating Temperature: -20 - +70 °C

Storage Temperature: -40 - +80 °C

Standard Compliance: DIN EN 60950; CE

Approval Agency: VDE; CSA; UL

Application

The ebmpapst 414F DC fan is the primary cooling component for compact power supply units, medical devices, and high-density circuit board cooling where installation depth is extremely limited.

Product Images







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