

8300101141 VWCE040KJDES ebmpapst 24V IP68 DC Axial Fan

SKU: 8300101141

Price: \$30.00

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/8300101141-vwce040kjdes-ebmpapst-24v-ip68-dc-axial-fan/>

Product Description

The ebmpapst 8300101141 VWCE040KJDES is an ultra-high-speed DC Axial Fan with dimensions of 40 x 40 x 28 mm. Belonging to the elite AxiForce 40 series, this model is driven by a high-performance Brushless DC Motor operating at an extraordinary speed of 19000 RPM. On a nominal 24 VDC supply with a range of 15-28 VDC, it delivers an airflow of 15.3 CFM (26 m³/h) and generates a massive static pressure of 275 Pa. Specifically engineered for extreme reliability, it features an IP68 protection rating, making it completely dust-tight and waterproof. With an impressive life expectancy of up to 117,500 hours and a specialized 5-blade aerodynamic design, it provides superior thermal management for high-density 1U/2U servers, telecommunications infrastructure, and industrial power electronics. This four-wire fan includes a 310 mm lead wire and integrated PWM speed control with tach signal for precise system integration in mission-critical medical and laboratory devices.

8300101141 VWCE040KJDES Fan Parameters

Manufacturer: ebmpapst

Model Number: 8300101141 (VWCE040KJDES)

Series: AxiForce 40

Motor Design: Brushless DC Motor

Type: DC Axial Fan

Dimensions: 40 x 40 x 28 mm

Impeller Size: 38 mm

Nominal Voltage: 24 VDC

Operating Voltage Range: 15 to 28 VDC

Speed: 19000 RPM

Power Input: 7.5 W

Rated Current: 0.31 A

Max. Airflow: 15.3 CFM (26 m³/h)

Max. Static Pressure: 275 Pa (1.10 inAq)

Noise Level: 55 dB(A)

Weight: 52 g

Number of Blades: 5

Lead Wire Length: 310 mm

Termination: 4 Wire Leads (PWM + Tacho)

Bearing Type: Ball Bearing

Housing Material: Glass-fiber reinforced PBT plastic

Impeller Material: Glass-fiber reinforced PBT plastic

Direction of Rotation: Clockwise (viewed toward rotor)

Degree of Protection: IP68 (Waterproof and Dustproof)

Insulation Class: E

Operating Temp. Range: -20 °C to +70 °C

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

Life Expectancy (L10) at TU max: 35,000 h

Life Expectancy (IPC 9591) at 40 °C: 117,500 h

Control Input: PWM speed control

Signal Output: Tacho signal

Safety Protections: Locked-rotor protection, Reverse polarity protection

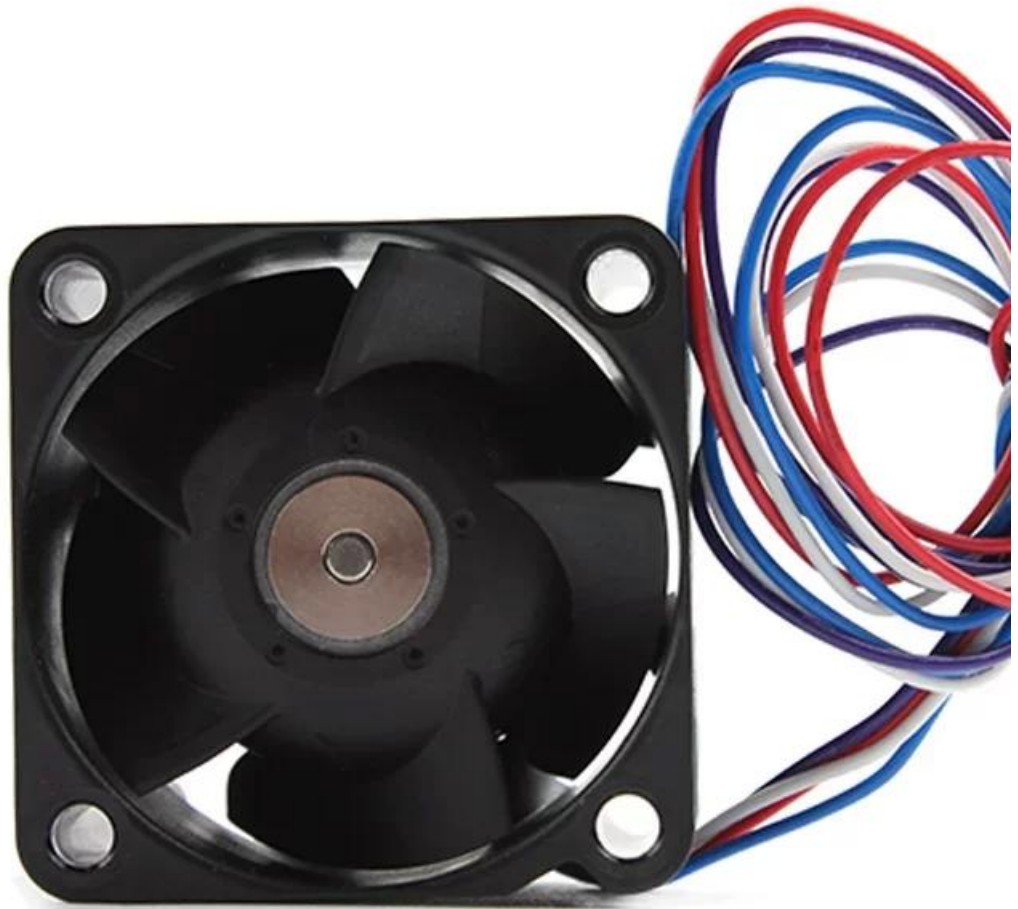
Approvals: CE, UL, EU, CSA, VDE

Application

The 8300101141 VWCE040KJDES is specifically designed for high-density thermal management in 1U/2U rack-mounted servers and network switches where the AxiForce 40 series excels at overcoming extreme back-pressure. This 8300101141 model is also an ideal solution for outdoor telecommunications base stations and renewable energy inverters that require the IP68 waterproof rating to ensure long-term stability in harsh environments. Additionally, the high static pressure of the 8300101141 VWCE040KJDES is critical for the localized cooling of power electronics in compact medical diagnostic imaging devices and aerospace avionics modules where space is limited but reliability is paramount.

Product Images







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