

4412/2HP-536 ebm-papst 12VDC 119x119x38mm PWM Axial Fan Datasheet



Brand: ebmpapst

SKU: 931100049865

Category: Axial & Centrifugal Fans

Price: **\$150.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/4412-2hp-536-ebm-papst-12vdc-119x119x38mm-pwm-axial-fan>

Product Description

The ebm-papst 4412/2HP-536 is a high-efficiency tubeaxial fan engineered for critical thermal management in industrial electronics and automation systems. Utilizing advanced DC motor technology and a precision ball bearing architecture, this unit ensures minimal friction and extended operational longevity under continuous load. The aerodynamic impeller design optimizes static pressure capabilities while maintaining structural rigidity, effectively reducing thermal impedance in densely packed enclosures. Designed for robust performance, the 4412/2HP-536 integrates sophisticated commutation electronics to deliver consistent airflow, making it an ideal solution for demanding cooling requirements where reliability and durability are paramount.

Model Number: 4412/2HP-536

Brand: ebm-papst

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 14.0 VDC

Rated Current: 680 mA

Power Input: 8.2 W

Rated Speed: 5000 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 114.7 CFM (195 m³/h / 3.25 m³/min)

Max. Static Pressure: 15.6 mmH₂O (153 Pa / 0.61 inH₂O)

Dimensions: 119 x 119 x 38 mm

Weight: 0.27 kg

Life Expectancy: 60,000 hrs (40°C)

Termination: 4-Wire Leads (PWM/Tach)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PA Plastic (UL94V-0)

Noise Level: 50 dB(A)

Operating Temperature: -20°C to +70°C

Speed Control: PWM Input / Speed Signal Output

Ingress Protection: IP20

Certifications: CE, CSA, UL, VDE

Specific Application: KUKA KRC4 Robot Controller

This cooling solution is specifically configured for high-reliability environments, serving as a direct replacement component for KUKA KRC4 robot controllers and similar industrial automation systems. The 4412/2HP-536 excels in maintaining optimal operating temperatures within server racks, telecommunications cabinets, and CNC machinery control panels. By mitigating heat buildup in sensitive electronics, the 4412/2HP-536 ensures system stability and prevents thermal throttling in continuous-duty manufacturing and data processing workflows.

Supplemental Images

