

8412N/37GMLV ebmpapst 12V DC Axial Fan

SKU: 8412N/37GMLV

Price: \$49.34

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/8412n-37gmlv-ebmpapst-12v-dc-axial-fan/>

Product Description

The ebmpapst 8412N/37GMLV is a compact DC axial fan measuring 80x80x25.4mm and weighing 0.095kg. It is equipped with sleeve bearings and designed for air outlet over struts, rotating counterclockwise when viewed toward the rotor. This fan operates on a nominal voltage of 12VDC, with a broad operating voltage range from 8VDC to 14VDC. At free air, it achieves a speed of 2050RPM, with a power consumption of 2.1W, a current draw of 150mA, and provides a maximum free-air flow of 42.0m³/h. The maximum static pressure is 20Pa.

The fan's housing and impeller are both constructed from plastic. It generates a sound power level of 3.8bel(A) at its optimal operating point and a sound pressure level of 20.0dB(A) at free air. The 8412N/37GMLV features speed-controlled electronic functions, reversed polarity protection via a rectifying diode, and auto-restart locked rotor protection. It also includes an alarm output (open collector). The fan is designed for operation within ambient temperatures ranging from -20°C to 65°C, and its transport/storage temperature range is -40°C to 80°C. Electrical connection is made via wires, with a lead length of 310mm, using AWG 24 wires with 1.55mm insulation diameter. It has a Protection Class III and is approved by CE, EAC, UL (UL507), VDE (EN 60950), and CSA (C22.2 No. 113). The expected service life (L10) is 80000 hours at 40°C and 45000 hours at maximum temperature, with an IPC 9591 L10 life of 135000 hours at 40°C. The product is intended for use in sheltered rooms with controlled temperature and controlled humidity. Direct exposure to water must be avoided.

8412N/37GMLV Fan Parameters

Model: 8412N/37GMLV

Manufacturer: ebmpapst

Type: DC Axial Fan

Nominal Voltage: 12 V DC

Nominal voltage range: 8 V DC .. 14 V DC

Speed (free air): 2050 RPM
Power consumption (free air): 2.1 W
Current consumption (free air): 150 mA
Min. ambient temperature: -20 °C
Max. ambient temperature: 65 °C
Max. free-air flow: 42.0 m³/h
Max. static pressure: 20 Pa
Sound power level (optimal operating point): 3.8 bel(A)
Sound pressure level (free air): 20.0 dB(A)
Width: 80.0 mm
Height: 80.0 mm
Depth: 25.4 mm
Housing material: Plastic
Impeller material: Plastic
Rotating direction: Counterclockwise, looking at rotor
Airflow direction: Air outlet over struts
Bearing system: Sleeve bearing
Mounting position: Any
Electrical connection: Wires
Lead wire length: 310 mm
Wire size: AWG 24
Insulation diameter: 1.55 mm
Locked rotor current: approx. 260 mA
Min. storage temperature: -40 °C
Max. storage temperature: 80 °C
Humidity requirements: Humid heat, constant
Water exposure requirements: None
Dust requirements: None
Salt fog requirements: None
Dielectric strength (Type test): Not applicable
Dielectric strength (Routine test): Not applicable
Isolation resistance: > 10 MOhm
Clearance / creepage distance: 1.0 mm / 1.2 mm
Protection class: III
Electronic function: Speed-Controlled
Reversed polarity protection: Rectifying diode
Max. residual current at UN: ≤ 50 uA
Locked rotor protection: Auto restart
Alarm type: Alarm output, Open collector
Alarm operating voltage: ≤ 30 V
Alarm signal Low: ≤ 0.4 V (I sink: 2 mA)
Alarm signal High: ≤ 30 V (I source: 0 mA)

Maximum sink current: $\leq 10 \text{ mA}$

Alarm trip speed limit: 0 min^{-1}

Alarm sensor failure: No

Alarm locked: No

Alarm isolated from motor: No

Life expectancy L10 at $T_U = 40 \text{ }^{\circ}\text{C}$: 80000 h

Life expectancy L10 at $T_U \text{ max.}$: 45000 h

Life expectancy L10 acc. to IPC 9591 at $40 \text{ }^{\circ}\text{C}$: 135000 h

Approval: CE; EAC; UL (UL507); VDE (EN 60950); CSA (C22.2 No. 113)

Weight: 0.095 kg

Application: Sheltered rooms with controlled temperature and controlled humidity. Direct exposure to water must be avoided.

Product Images





► 配件 Accessories



铁网
Guard Grille

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