612NHHR ebm-papst 12VDC 60x60x25mm 2.9W Axial Fan Datasheet

Brand: ebmpapst

SKU: 778752937986

Category: Axial & Centrifugal Fans

Price: **$38.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/612nhhr-ebm-papst-12vdc-60x60x25mm-2-9w-axial-fan

Product Description

The ebm-papst 612NHHR is a high-efficiency DC Axial Fan engineered for critical thermal management in space-constrained industrial environments. Utilizing an advanced electronically commutated motor paired with a precision ball bearing architecture, this unit ensures superior rotational stability and extended service life under continuous operation. The aerodynamic impeller and housing are constructed from glass-fiber reinforced plastic (PBT), providing exceptional structural rigidity and resistance to thermal deformation. Designed to minimize thermal impedance while maximizing volumetric efficiency, the 612NHHR delivers robust forced convection cooling, making it an ideal component for high-density electronic assemblies requiring reliable heat dissipation.

Model Number: 612NHHR
Brand: ebm-papst
Product Type: DC Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 8.0 - 15.0 VDC
Rated Current: 0.24 A
Power: 2.9 W
Rated Speed: 6850 RPM
Bearing Type: Ball Bearing

Max. Air Flow: 39.4 CFM (67 m^3/h / 1.12 m^3/min)
Max. Static Pressure: 9.1 mmH_2O (89 Pa / 0.36 inH_2O)
Dimensions: 60 x 60 x 25 mm
Weight: 66 g
Life Expectancy: 70,000 Hours @ 40°C (L10)
Noise Level: 41 dB(A)
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PA Plastic (UL94V-0)
Termination: 2 Lead Wires (AWG 22, TR 64)
Operating Temperature: -20°C to +70°C
Storage Temperature: -40°C to +80°C
Ingress Protection: IP20
Motor Protection: Impedance Protected, Reverse Polarity Protection
Direction of Rotation: Clockwise looking at rotor
Airflow Direction: Air exhaust over struts

The 612NHHR is widely utilized in sectors demanding compact yet powerful cooling solutions, such as telecommunications infrastructure and industrial automation systems. Its high static pressure capabilities make the 612NHHR particularly effective in server rack cooling modules and dense power supply units where airflow resistance is significant. Additionally, this model is frequently integrated into medical diagnostic devices and CNC control electronics, ensuring components remain within safe operating temperature ranges to prevent thermal throttling or failure.

Supplemental Images