



612NGN ebmpapst

Brand: ebmpapst

SKU: 612NGN

Category: DC Fans

URL: <https://www.fansco.com/item/612ngn-ebmpapst/>

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Product Description

612NGN ebmpapst 12VDC 60x60x25.40mm 24.7CFM Sintec 2.1W 2 Wire Leads Tubeaxial DC axial fan

The 612NGN is a DC axial compact fan developed by ebm-papst, designed for low-airflow heat dissipation scenarios. It features a sleeve bearing structure, rotates clockwise when viewed from the rotor, discharges air through struts, and supports any mounting orientation. Mechanical parameters include dimensions of 60×60×25mm, a weight of 0.066kg (with plastic housing and impeller), 310mm-long AWG22 wires (red for +UB power, blue for -GND ground), and M3 screw installation (20N·cm torque for the wire outlet corner, 40N·cm for other corners). Electrical performance includes a nominal voltage of 12VDC (8–15VDC wide range), 2.0W power consumption, 165mA current ($\pm 12.5\%$), 5100rpm speed ($\pm 10\%$), and 1000mA starting current at 12V, with built-in rectifier diodes for reverse polarity protection (residual current $\leq 5\mu\text{A}$) and auto-restart for blocked rotor (cycle 0.2s/1.1s). Aerodynamic performance includes a maximum free-air flow of 40m³/h (0Pa), maximum static pressure of 76Pa (0 airflow), and an optimal operating point of 31m³/h@17Pa (corresponding to a 35dB(A) sound pressure level 1m from the air intake and 5.0B(A) sound power level). Environmental adaptability covers an operating temperature range of -20°C~70°C, storage temperature of -40°C~80°C, Pollution Degree 1 (dry, non-conductive environment), and compliance with DIN EN 60068-2-78 for 14-day constant humidity resistance. Certified for CE/UL/VDE/CSA (excluding CCC), it is a Class III device (no grounding required) with >10M Ω insulation resistance and 1.0mm/1.2mm clearance/creepage distances, suitable for low-airflow, low-noise indoor controlled environments such as electronic control modules, medical instruments, and household device cooling.

Technical Specifications

Attribute	Value
Part Number	612NGN
Manufacturer	ebm-papst
Series	600NG
Voltage Rating	12 VDC
Dimensions	60x60x25.40 mm

Air Flow	24.7 CFM
Air Flow (m3)	0.692m ³ /min
Bearing Type	Sintec Bearing
Fan Type	DC
Noise Level	41 dB(A)
Power Rating	2.1 W
Termination	2 Wire Leads
Operating Temperature	158°F (70°C)
Subcategory	Tubeaxial



