

W3G300-BV24-81 ebmpapst 26V 3160RPM 205W 300mm Axial Fan

SKU: W3G300-BV24-81

Price: \$539.29

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/w3g300-bv24-81-ebmpapst-26v-3160rpm-205w-300mm-axial-fan/>

Product Description

The ebmpapst W3G300-BV24-81 is a high-performance 26 V industrial axial fan with a 300 mm diameter, meticulously engineered for critical thermal management in transport and railway environments. This unit integrates a high-torque M3G084-BF motor with a motor size of 84, optimized for a 205.0 W power envelope to drive its specialized 7-blade HyBlade impeller to a peak velocity of 3160 RPM. Designed for continuous S1 operation under extreme conditions, it features advanced electronics including temperature derating, power limiting, and a 58 V load dump protection. The mechanical foundation consists of a precision-balanced, sealed dual ball bearing system and a glass-fiber reinforced PA plastic housing, providing 70,000 hours of reliable service. Featuring an intelligent 4-wire interface with INVLIN (inverse linear) control and a dual IP24/IP6K9K protection rating, this fan is a critical component for vehicle climate control and railway technology where maximum reliability and safety extra-low voltage (SELV) operation are mandatory.

W3G300-BV24-81 Fan Parameters

Manufacturer: ebmpapst

Model Number: W3G300-BV24-81

Motor Model: M3G084-BF

Series: HyBlade (EC axial fan)

Motor Size: 84

Type: EC Axial Fan

Bearing Type: Ball Bearing (Sealed)

Nominal Voltage: 26 VDC

Voltage Range: 16.0 - 32.0 VDC

Dimensions: 300 mm (Diameter)

Weight: 2.3 kg

[Electrical Data]

Input Power: 205.0 W

Nominal Current: 7.9 A

Nominal Speed: 3160 RPM

Motor Design: Brushless DC Motor (EC)

Control Input: 0-10 VDC / PWM (INVLIN inverse linear supported)

Signal Output: Error output (High-side switch)

Motor Protection: Soft start, Power limiter, Reverse polarity, Load dump (58V), Motor current limitation, Overvoltage/Undervoltage detection

Insulation Class: Class B

Environmental Protection: H3 (Moisture/Environmental protection)

Termination: Connector with cable (Lateral exit)

Standby Current: <500 µA

[Performance & Acoustics]

Max. Air Flow: 1545.0 CFM (2625.0 m³/h / 43.75 m³/min)

Max. Static Pressure: 36.7 mmH₂O (360.0 Pa / 1.44 inH₂O)

Sound Power Level: 8.1 Bel

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: V (Intake over struts)

Impeller Material: PA plastic UL94 V-0

Housing Material: PA plastic UL94 V-0

[Materials & Construction]

Installation Position: Any

Degree of Protection: Motor IP24 KM, Electronics IP6K9K (with mating connector)

Protection Class: Class III (SELV)

Condensation Drainage: None (Open rotor)

[Reliability & Safety Standards]

Min. Ambient Temperature: -40 °C

Max. Ambient Temperature: 85 °C

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

Standard Compliance: EN 45545-2 HL3 (Fire protection), EN 50155 (Railway), EN 61373 Cat. 1B (Vibration/Shock)

Approval Agency: EAC, CE

Application

The ebmpapst W3G300-BV24-81 axial fan is used in railway vehicle climate control systems, commercial vehicle engine cooling, industrial ventilation, telecommunications outdoor cabinets, and high-performance air conditioning units.

Product Images







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