

G0838BBZP-31 Nidec Servo 12VDC 3.3A 80x38mm Axial Fan Datasheet



Brand: Nidec

SKU: [731545255262](#)

Category: Axial & Centrifugal Fans

Price: **\$34.71**

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Product Page:

<https://www.equipspares.com/product/g0838bbzp-31-nidec-servo-12vdc-3-3a-80x38mm-axial-fan>

Product Description

Nidec Servo G0838BBZP-31 is an 80 x 80 x 38 mm high-performance axial fan operating at 12 VDC with a 3.3 A current draw. The unit features a dual ball bearing system and a 4-wire interface supporting PWM speed control and tachometer output. Constructed with a PBT UL94V-0 plastic frame and impeller, it delivers high static pressure and airflow through a high-speed internal motor. The mechanical design includes a brushless DC motor architecture with integrated locked rotor protection and auto-restart functionality.

G0838BBZP-31 Specifications

Model: G0838BBZP-31

Brand: Nidec Servo

Dimensions: 80 x 80 x 38 mm

Nominal Voltage: 12 VDC

Operating Voltage Range: 10.2 to 13.8 VDC

Rated Current: 3.3 A

Rated Power: 39.6 W

Bearing Type: Dual Ball Bearing

Interface: 4-wire (Red: +, Black: -, Yellow: Tach, Blue: PWM)

Material: PBT Plastic (UL94V-0)

Speed: 13,000 RPM

Airflow: 120 CFM

Static Pressure: 550 Pa

Noise Level: 68 dB(A)

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +75 °C

Life Expectancy: 70,000 hours at 40 °C

Weight: 210 g

Safety Certifications: UL, cUL, TUV

G0838BBZP-31 Applications

Primary applications include integration into high-density server chassis, telecommunications base station cooling modules, and network switch thermal management systems. Deployed within industrial power supply units and high-performance computing (HPC) racks requiring significant static pressure for dense component cooling.

Supplemental Images

