

# E1033L12BXZP-27 Nidec 12VDC 100x33mm Centrifugal Blower Datasheet



**Brand:** Nidec

**SKU:** 988537650428

**Category:** Axial & Centrifugal Fans

**Price:** \$20.99

---

**E-mail:** [sales@equipspares.com](mailto:sales@equipspares.com)

**Web:** <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/e1033l12bxzp-27-nidec-12vdc-100x33mm-centrifugal-blower>

---

## Product Description

---

The Nidec E1033L12BXZP-27 is a high-efficiency centrifugal blower engineered specifically for demanding thermal management applications requiring elevated static pressure. Built upon advanced DC motor technology and a robust double ball bearing architecture, this unit ensures operational stability and longevity even under continuous high-speed rotation. The aerodynamic volute design maximizes airflow delivery through dense fin stacks, significantly reducing thermal impedance in enclosed electronic systems. Featuring high structural rigidity and precision balancing, this blower is optimized for critical cooling tasks where reliability and performance density are paramount.

Model Number: E1033L12BXZP-27

Brand: Nidec (Nidec Servo)

Product Type: Centrifugal Blower / DC Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 3.58 A

Power Consumption: 42.96 W

Rated Speed: 5500 RPM (Nominal)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 38.5 CFM (65.4 m<sup>3</sup>/h)

Max. Static Pressure: 45.2 mmH<sub>2</sub>O (443 Pa / 1.78 inH<sub>2</sub>O)

Dimensions: 100mm x 100mm x 33mm

Weight: 210 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 58.0 dB(A)

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead with Connector

Housing Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Protection: Locked Rotor Protection, Polarity Protection

Application: Inverter Cooling, Server Racks, Industrial Automation

The E1033L12BXZP-27 is extensively utilized in the thermal management of variable frequency drives (VFDs) and high-power industrial inverters where overcoming system impedance is critical. Its compact yet powerful design allows for integration into dense server racks, CNC machinery control cabinets, and medical instrumentation requiring focused airflow. By delivering high static pressure, the E1033L12BXZP-27 effectively forces air through restrictive heatsinks, ensuring optimal operating temperatures for sensitive power electronics.

## Supplemental Images

---

