

42F704SC30 Nidec 24VDC 10W 42.8mm Outer Rotor BLDC Motor Datasheet



Brand: Nidec

SKU: [1046885516922](#)

Category: Electric Motors & Drives

Price: **\$50.51**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/42f704sc30-nidec-24vdc-10w-42-8mm-outer-rotor-blDC-motor>

Product Description

The Nidec 42F704SC30 is a 42.8 mm outer rotor brushless DC motor delivering a nominal 24 VDC input, 10 W output power, and a rated speed of 1000 RPM. This unit features an integrated drive control board with PWM speed regulation, dual ball bearings for extended operational life, and a compact 33 mm housing length. The motor generates 80 mN.m of torque while drawing a maximum operating current of 1.1 A, ensuring low vibration and high-efficiency energy conversion within a 0 to 40 °C thermal envelope.

42F704SC30 Specifications

Model Number: 42F704SC30

Brand: Nidec

Motor Type: Brushless DC (BLDC) Outer Rotor

Operating Voltage: 24 VDC

Output Power: 10 W

Operating Current: 1.1 A (Max)

Rated Speed: 1000 RPM

Rated Torque: 80 mN.m

Diameter: 42.8 mm

Length: 33 mm

Mass: 250 g

Operating Temperature: 0 to 40 °C

Speed Control: PWM / CLK Signal

Drive Type: Built-in Integrated Drive

Bearing Type: Dual Ball Bearings

Compliance: RoHS, REACH

42F704SC30 Applications

Primary applications include integration into air purification systems, commercial printing equipment, and HVAC ventilation fans. Deployed within automated cooking ovens and thermal management modules requiring precise PWM speed control and low acoustic noise profiles.

Supplemental Images

