R40W12BGNL9-07T024 Nidec 12VDC 40x40x56mm Counter-Rotating Fan Datasheet

Brand: Nidec

SKU: 914195782904

Category: Axial & Centrifugal Fans

Price: **$17.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/r40w12bgnl9-07t024-nidec-12vdc-40x40x56mm-counter-rotating-fan

Product Description

The Nidec R40W12BGNL9-07T024 is a high-performance counter-rotating DC axial fan engineered for extreme thermal management in high-density server environments. Featuring a robust 40x40x56mm frame, this unit houses a dual-motor architecture designed to generate exceptional static pressure, effectively overcoming the high impedance found in tightly packed chassis and computing clusters. Operating on a 12VDC platform with a rated current of 3.52A, the fan utilizes precision dual ball bearings to maintain rotational stability and structural rigidity at speeds reaching 28,000 RPM. The aerodynamic design of the contra-rotating blades maximizes airflow throughput while minimizing vortex losses, ensuring critical components remain within safe thermal operating limits under continuous heavy loads.

Model Number: R40W12BGNL9-07T024
Brand: Nidec
Product Type: Counter-Rotating DC Axial Fan
Rated Voltage: 12 VDC
Rated Current: 3.52 A
Measured Current: 3.07 A
Power Consumption: 42.24 W

Rated Speed: 28000 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 32.50 CFM (55.21 m^3/h / 0.92 m^3/min)
Max. Static Pressure: 3.80 inH_2O (946.5 Pa / 96.52 mmH_2O)
Dimensions: 40 x 40 x 56 mm
Termination: 8-Pin Interface
Wire Length: 80 mm
Motor Structure: Brushless DC (BLDC) Dual Motor
Housing Material: PBT (UL94V-0)
Blade Material: PBT (UL94V-0)
Mounting Orientation: Any
Operating Temperature: -10°C to +70°C
Application: Server Cooling / High Static Pressure

The R40W12BGNL9-07T024 is specifically designed for mission-critical applications requiring aggressive heat dissipation, such as 1U/2U server racks, high-performance computing (HPC) clusters, and telecommunications equipment. Its compact yet powerful dual-rotor design allows the R40W12BGNL9-07T024 to deliver concentrated airflow through dense heatsinks and restricted spaces where standard single-stage fans would fail due to backpressure. This model is also frequently utilized in custom cooling modifications for CNC machinery and industrial power supplies.

Supplemental Images


Nidec
UltraFlo
R40W12BGNL9-07T024
12 VDC 23Y23G HHH
3.52 A REV:0B
E.P.C
MADE IN CHINA
JS
N373BP25S
MFG PN:R40W12BGNL9-07T024