

# U40X12MHZ7-53Z24 Nidec 12VDC 40x40x10mm 3-Wire Axial Fan Datasheet



**Brand:** Nidec

**SKU:** [990442070160](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$14.99**

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Product Page:

<https://www.equipspares.com/product/u40x12mhz7-53z24-nidec-12vdc-40x40x10mm-3-wire-axial-fan>

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## Product Description

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The Nidec U40X12MHZ7-53Z24 is a precision-engineered DC Axial Fan belonging to the renowned UltraFlo series, designed to mitigate thermal impedance in compact electronic assemblies. Utilizing advanced DC brushless motor technology paired with Nidec's proprietary bearing architecture, this unit ensures minimal friction and extended operational longevity. The impeller geometry is optimized for high static pressure generation, maintaining structural rigidity even at elevated rotational speeds. This 40mm cooling solution offers a balanced acoustic profile while delivering consistent airflow, making it an ideal component for mission-critical hardware requiring reliable thermal management under continuous duty cycles.

Model Number: U40X12MHZ7-53Z24

Brand: Nidec

Product Type: DC Axial Fan

Series: UltraFlo

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.10 A

Input Power: 1.20 W

Rated Speed: 7500 RPM

Bearing Type: NBR (Nidec Bearing Revolution)

Max. Air Flow: 7.06 CFM (12.0 m<sup>3</sup>/h / 0.20 m<sup>3</sup>/min)  
Max. Static Pressure: 4.80 mmH<sub>2</sub>O (47.1 Pa / 0.19 inH<sub>2</sub>O)  
Dimensions: 40 x 40 x 10 mm  
Weight: 25 g  
Life Expectancy: 60,000 Hours @ 40°C  
Noise Level: 28.0 dB(A)  
Speed Control: Tachometer Output (FG Signal)  
Housing Material: PBT Plastic (UL94V-0)  
Impeller Material: PBT Plastic (UL94V-0)  
Termination: 3-Wire Lead with Connector  
Operating Temperature: -10°C to +70°C  
Storage Temperature: -40°C to +70°C  
Ingress Protection: IP40  
Safety Certifications: UL, CSA, TUV, CE

The U40X12MHZ7-53Z24 is engineered for integration into high-density electronic environments where space is at a premium but thermal dissipation cannot be compromised. Common deployment scenarios include 1U server rack cooling, network switches, and compact industrial power supplies. Additionally, the U40X12MHZ7-53Z24 serves as a critical component in medical instrumentation and embedded computing systems, ensuring stable operating temperatures for sensitive microprocessors and chipset arrays.

## Supplemental Images

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