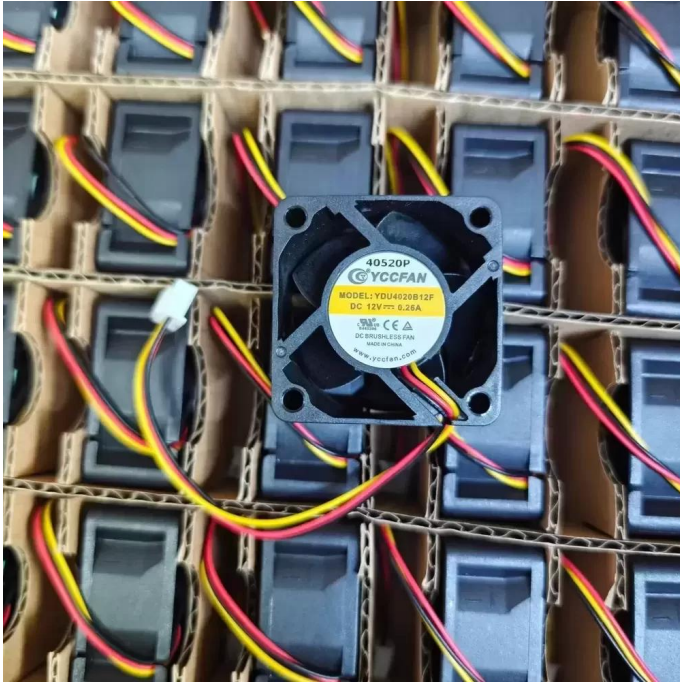


# YDU4020B12F YCCFAN 12VDC 40x40x20mm 0.26A DC Axial Fan Datasheet



**Brand:** YCCFAN

**SKU:** 996902441049

**Category:** Axial & Centrifugal Fans

**Price:** **\$2.99**

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Product Page:

<https://www.equipspares.com/product/ydu4020b12f-yccfan-12vdc-40x40x20mm-0-26a-dc-axial-fan>

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## Product Description

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The YCCFAN YDU4020B12F is a DC Axial Fan engineered for high-density electronic environments requiring efficient thermal management within a compact footprint. Utilizing a robust Double Ball Bearing architecture, this unit ensures exceptional longevity and structural rigidity, significantly reducing frictional heat and wear compared to sleeve bearing alternatives. The aerodynamic impeller design is optimized to deliver a high airflow-to-noise ratio, making it suitable for continuous operation in demanding industrial applications. With a rated current of 0.26A, the motor delivers consistent torque to overcome system impedance, ensuring reliable heat dissipation for critical components.

Model Number: YDU4020B12F

Brand: YCCFAN

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.26 A

Power Consumption: 3.12 W

Rated Speed: 8500 RPM  $\pm$ 10%

Bearing Type: Double Ball Bearing

Max. Air Flow: 10.85 CFM (18.43 m<sup>3</sup>/h / 0.31 m<sup>3</sup>/min)

Max. Static Pressure: 8.20 mmH<sub>2</sub>O (80.41 Pa / 0.32 inH<sub>2</sub>O)

Dimensions: 40x40x20mm

Weight: 26 g

Life Expectancy: 50,000 Hours at 40°C

Noise Level: 36.5 dB(A)

Speed Control: 3-Wire (Tachometer/FG Signal)

Housing Material: PBT Thermoplastic (UL94V-0)

Impeller Material: PBT Thermoplastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: Lead Wires (UL1007 26AWG)

Ingress Protection: IP40

Insulation Resistance: >10M Ohm at 500VDC

Dielectric Strength: 500VAC for 1 Minute

The YDU4020B12F is specifically designed for integration into compact hardware architectures such as 1U server racks, network switches, and industrial power supplies. Its compact 40mm frame allows for precise placement in tight enclosures where airflow is restricted. Additionally, the YDU4020B12F is frequently utilized in medical instrumentation, CNC control panels, and 3D printers where reliable, long-term cooling is mandatory to prevent thermal throttling and component failure.

## Supplemental Images

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