

QFR1224EHE Delta 24V 0.75A 120mm 12038 DC Axial Fan

SKU: QFR1224EHE

Price: \$16.99

Categories: Fans

Tags: Delta

Product Link:

<https://www.electspares.com/product/qfr1224ehe-delta-24v-0-75a-120mm-12038-dc-axial-fan/>

Product Description

The Delta QFR1224EHE is a high-performance DC axial fan, commonly referred to as a "12038" size, engineered for extreme thermal management in high-impedance environments. This 120 x 120 x 38 mm unit is part of the QFR series, featuring an aerodynamically optimized 7-blade impeller and a robust dual ball bearing system. Operating at a nominal 24 VDC with a 12.00 W power rating, it delivers a "Super High" rotational speed of 5000 RPM, producing a massive 173.83 CFM of airflow. This specific 2-wire variant is designed for straightforward power integration in industrial systems where external speed monitoring is not required. Built with a brushless DC motor and advanced electronic protection, this fan is a critical component for high-capacity inverters, telecommunications base stations, and industrial machinery requiring high-speed air displacement and mission-critical reliability.

QFR1224EHE Fan Parameters

Manufacturer: Delta Electronics

Model Number: QFR1224EHE

Industry Size Code: 12038

Type: DC axial fan

Bearing Type: Dual Ball Bearing

Nominal Voltage: 24 VDC

Voltage Range: 16.0 - 26.4 VDC

Starting Voltage: 16.0 VDC (at 25 °C Power ON/OFF)

Dimensions: 120 x 120 x 38 mm

[Electrical Data]

Input Power: 12.00 W

Nominal Current: 0.50 A

Max. Current: 0.75 A

Nominal Speed: 5000 RPM (Tolerance $\pm 10\%$)

Motor Design: Brushless DC Motor, 4-pole

Signal Output: None (2-Wire Fixed Speed)

Motor Protection: Auto Restart, Polarity Protection, Locked Rotor Protection

Insulation Class: Class A (105 °C)

Insulation Resistance: 10M ohm at 500 VDC between housing and lead wire

Dielectric Strength: 500 VAC for 1 minute between housing and lead wire

Termination: 2-Lead wires (UL1007, AWG#24, Red/Black)

[Performance & Acoustics]

Max. Air Flow: 173.83 CFM (295.34 m³/h / 4.92 m³/min)

Max. Static Pressure: 21.43 mmH₂O (210.16 Pa / 0.84 inH₂O)

Sound Pressure Level: 59.0 dB(A) (Measured at 1 meter)

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward impeller)

Airflow Direction: Intake over struts

[Materials & Construction]

Frame Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Installation Position: Any

Degree of Protection: IP54

[Reliability & Safety Standards]

Min. Ambient Temperature: -10 °C

Max. Ambient Temperature: 60 °C

Life Expectancy (L10): 70,000 hours at 40 °C (15% - 65% RH)

Standard Compliance: IEC 60950-1, EN 61000-6-1/3

Approval Agency: UL, TUV, CE, RoHS

Application

The Delta QFR1224EHE axial fan is used in high-capacity power inverters, telecommunications infrastructure, enterprise servers, industrial workstations, and CNC machine control cooling.

Product Images



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