

KDE1205PHV3 SUNON 12VDC 50x50x15mm MagLev Axial Fan Datasheet



Brand: SUNON

SKU: 990451482437

Category: Axial & Centrifugal Fans

Price: \$15.99

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/kde1205phv3-sunon-12vdc-50x50x15mm-maglev-axial-fan>

Product Description

The SUNON KDE1205PHV3 is a precision-engineered DC axial fan featuring Sunon's proprietary MagLev (Magnetic Levitation) motor technology. This advanced Vapo bearing system eliminates physical contact between the shaft and bearing, significantly reducing noise and vibration while extending operational lifespan. Designed with a specialized impeller geometry, it optimizes airflow efficiency while maintaining low power consumption of 0.5W. The unit ensures superior thermal impedance management and structural rigidity, making it an ideal solution for sensitive electronic cooling applications requiring reliable, long-term performance in compact enclosures.

Model Number: KDE1205PHV3

Brand: SUNON

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Power Consumption: 0.5W

Rated Current: 0.042 A

Rated Speed: 3700 RPM

Bearing Type: MagLev (Vapo Bearing)

Max. Air Flow: 10.2 CFM (17.3 m³/h / 0.29 m³/min)

Max. Static Pressure: 0.12 inH₂O (29.9 Pa / 3.05 mmH₂O)

Dimensions: 50 x 50 x 15 mm

Weight: 38 g

Life Expectancy: 60,000 Hours at 40°C

Noise Level: 26 dBA

Frame Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Motor Type: Brushless DC

Termination: 2-Wire Lead

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP5X (Dust Protected)

Insulation Resistance: >10M Ohm at 500VDC

Dielectric Strength: 500VAC for 1 Minute

Safety Certifications: UL, CUR, TUV

This cooling solution is specifically engineered for thermal management in variable frequency drives and industrial inverters, as indicated by the KDE1205PHV3 design parameters. The KDE1205PHV3 is also widely utilized in compact server chassis, network switches, and telecommunications equipment where space is limited but reliability is paramount. Its magnetic levitation system makes it suitable for medical instrumentation and continuous-duty automation systems requiring minimal acoustic interference.

Supplemental Images

