

R4D450-AK01-01 ebm-papst 230/400V 450mm Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: 826288340546

Category: Axial & Centrifugal Fans

Price: **\$1,556.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/r4d450-ak01-01-ebm-papst-230-400v-450mm-centrifugal-fan>

Product Description

The ebm-papst R4D450-AK01-01 is a high-efficiency backward curved centrifugal fan engineered for demanding industrial ventilation and thermal management applications. This unit integrates a robust three-phase asynchronous motor designed to deliver consistent torque and minimize thermal impedance under continuous load conditions. Featuring an aerodynamically optimized impeller geometry, the fan ensures superior airflow delivery while maintaining structural rigidity at high rotational speeds. The assembly utilizes precision ball bearings to reduce frictional losses and extend operational service life, making it an ideal solution for systems requiring reliable high-pressure air movement and effective thermal dissipation in harsh environments.

Model Number: R4D450-AK01-01

Brand: ebm-papst

Product Type: Backward Curved Centrifugal Fan

Motor Type: AC Three-Phase Asynchronous Motor

Rated Voltage: 230 / 400 V

Voltage Range: 200 - 480 VAC

Frequency: 50 Hz

Phase: 3~

Rated Power: 740 W

Rated Current: 2.60 A (Delta) / 1.50 A (Star)

Rated Speed: 1580 RPM

Bearing Type: Maintenance-free Ball Bearing

Impeller Diameter: 450 mm

Max. Air Flow: 3178 CFM (5400 m³/h / 90 m³/min)

Max. Static Pressure: 69.3 mmH₂O (680 Pa / 2.73 inH₂O)

Noise Level: 76 dB(A)

Mounting Orientation: Any

Insulation Class: F

Ingress Protection: IP54

Motor Protection: Thermal Overload Protector (TOP) wired internally

Impeller Material: Sheet Aluminum

Housing Material: Galvanized Sheet Steel

Operating Temperature: -25°C to +60°C

Weight: 10.5 kg

Termination: Terminal Block / Flying Leads

Life Expectancy: > 40,000 Hours at 40°C

Compliance: CE, CCC, RoHS

The R4D450-AK01-01 is widely utilized in industrial air handling units, large-scale ventilation systems, and precision cooling for power electronics. Its robust design makes it suitable for cabinet cooling in telecommunications infrastructure and heat dissipation in variable frequency drive (VFD) enclosures. Engineers frequently specify the R4D450-AK01-01 for cleanroom filtration modules, rooftop extraction units, and heat exchangers where consistent static pressure and long-term reliability are critical for maintaining system integrity.

Supplemental Images

ebm papst

R4D450-AK01-01

制造商: ebm-papst Mulfingen GmbH & Co. KG CN(N) 14/19

3~ Δ 230/400V 50Hz 2.60/1.50A 740/530W(输入/输出) 1350r/min

3~ Δ 277/480V 60Hz 3.20/1.85A 1200/740W(输入/输出) 1580r/min

$\eta=50\%$ (A, static) N62 N=62 IP54 Ins.CL.F级

*MAD110-GF Ins.CL.F AO

c **UL** US 3~ Δ 230V- γ 480V 50/60Hz

三相异步电动机
型号: MAD110-GF

EHL



1914000014

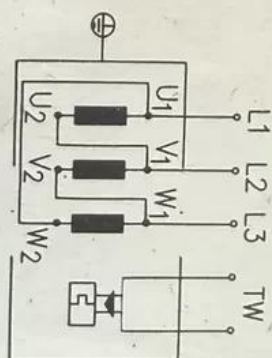
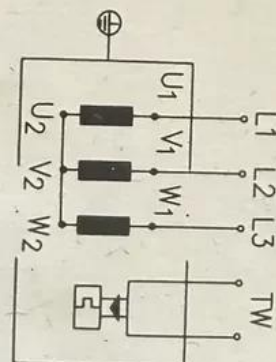
U₁ = schwarz / black
U₂ = grün / green

V₁ = blau / blue
V₂ = weiß / white

W₁ = braun / brown
W₂ = gelb / yellow

Drehrichtungsänderung durch Vertauschen von zwei Phasen
Change of direction of rotation by interchanging of two phases

Sternschaltung
Star connected



Dreieckschaltung
Delta connected

Drehstrommotor mit TW ausgeführt
3-phase motor with TOP-out

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