

8317085470 VBH0400NTTPZ ebmpapst 400V EC Centrifugal Fan

SKU: 8317085470

Price: \$7,299.73

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/8317085470-vbh0400nttpz-ebmpapst-400v-ec-centrifugal-fan/>

Product Description

The ebmpapst 8317085470 VBH0400NTTPZ is an ultra-high-performance 400 VAC (3-phase) EC Centrifugal Fan unit with a 400 mm RadiPac impeller, specifically engineered for mission-critical industrial ventilation and large-scale Air Handling Units (AHU). Driven by a high-torque GreenTech EC motor, this unit operates within a 380 - 480 VAC range, delivering a massive Max. Power Consumption of 6000 W and a Max. Current Draw of 9.1 A at a rated speed of 3700 RPM. This Industrial Frequency Converters compatible unit features a high-strength aluminum impeller and a 48.5 kg heavy-duty steel support structure with Dimensions of 630 x 630 x 483 mm. It achieves a Max. Air Flow of 8850.0 m³/h (5208.9 CFM) and a Max. Static Pressure of 254.93 mmH₂O (2500.0 Pa / 10.04 inAq) at its maximum load (ml) point. Featuring advanced technical integration including RS-485 MODBUS-RTU V6.4, an integrated vibration sensor, and VFD compatibility, this IP55-rated unit is optimized for extreme reliability and precise airflow modulation in demanding industrial environments at the end.

VBH0400NTTPZ Fan Parameters

Model Number: VBH0400NTTPZ

Part Number: 8317085470

Manufacturer: ebmpapst

Type: EC Centrifugal Fan

Series: RadiPac EC Series

Method of obtaining data: ml (Maximum load)

Impeller Size: 400 mm

Motor Size: 150

Weight: 41 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC (3-phase)

Voltage Range: 380 - 480 VAC

Frequency: 50/60 Hz

Max. Current Draw: 9.1 A

Max. Power Consumption (P1 Input): 6000.0 W

Rated Speed: 3700 RPM

Max. Air Flow: 5208.9 CFM (8850.0 m³/h / 147.50 m³/min)

Max. Static Pressure: 254.93 mmH₂O (2500.0 Pa / 10.04 inAq)

Working Air Flow: 8850.0 m³/h

Static Pressure Increase: 2500.0 Pa

Overall Efficiency: 68.5%

Power Factor Correction (PFC): Active

Touch Current: <= 3.5 mA

Control Input: RS-485 MODBUS-RTU V6.4 / 0-10 VDC / PWM / Integrated PI controller

Technical Features: Integrated vibration sensor; Soft start; External 15-50 VDC input; Thermal overload protection

Voltage Output: 10 VDC (max. 10 mA) / 20 VDC (max. 50 mA)

Motor Protection: Electronic motor protection; Phase failure detection; Locked-rotor protection; Over-temperature protected

Insulation Class: Class F

Degree of Protection: IP55

Environmental Protection Class: H1

Operating Temperature: -40 - +40 °C

Min. Permissible Ambient Temp. (Storage): -40 °C

Max. Permissible Ambient Temp. (Storage): +80 °C

Number of Blades: 5

Direction of Rotation: Clockwise (viewed toward rotor)

Impeller Material: Sheet aluminum

Support Bracket Material: Steel, painted black

Inlet Nozzle Material: Sheet steel, galvanized

Electronics Housing: Die-cast aluminum

Mode: S1 (Continuous operation)

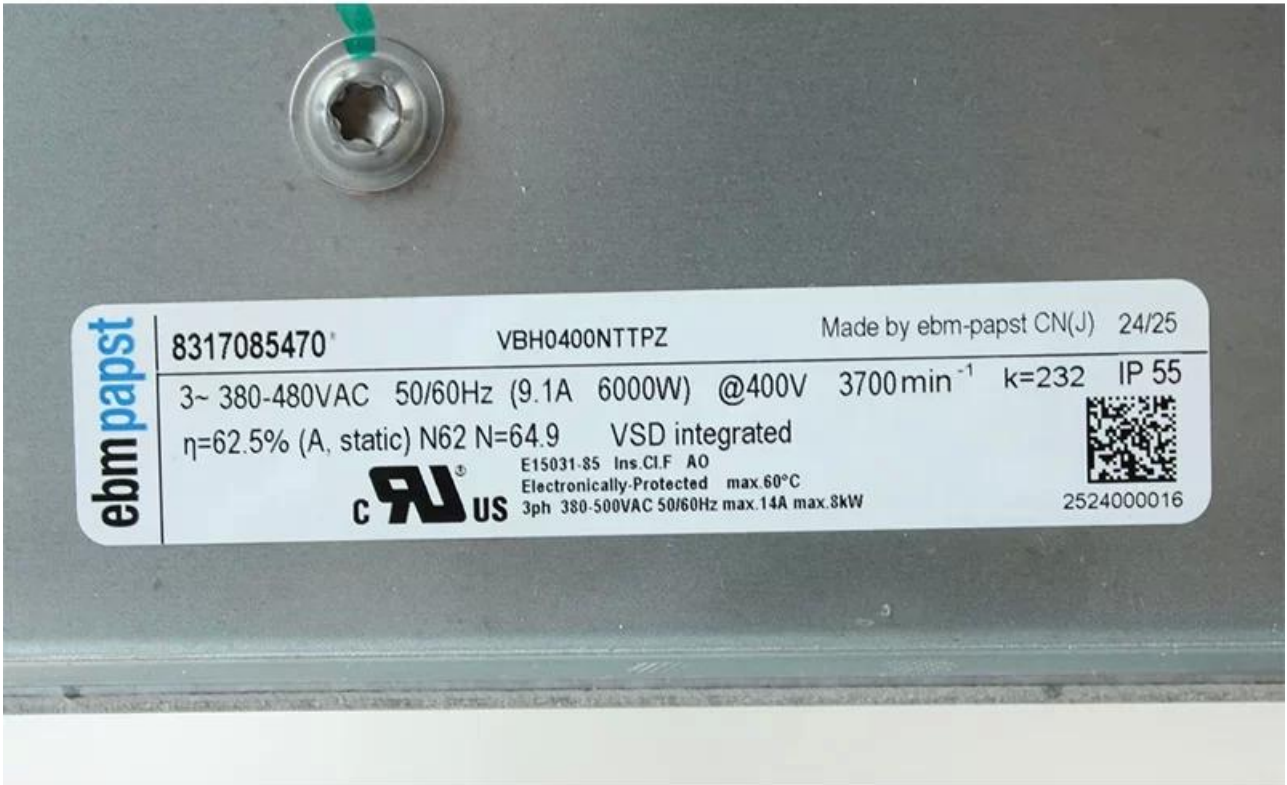
Standard Compliance: EN 61800-5-1; CE; UL 1004-7; CSA C22.2 No. 77; EAC

Application

The ebmpapst VBH0400NTTPZ centrifugal fan is the primary cooling component for large-scale industrial air handling units (AHU), server room precision air conditioning, and high-pressure ventilation systems requiring massive air volume and high energy efficiency in 400 VAC environments.

Product Images





ebm papst

8317085470*

VBH0400NTPZ

Made by ebm-papst CN(J) 24/25

3~ 380-480VAC 50/60Hz (9.1A 6000W) @400V 3700 min⁻¹ k=232 IP 55

$\eta=62.5\%$ (A, static) N62 N=64.9 VSD integrated



E15031-85 Ins.CLF AO
Electronically-Protected max 60°C
3ph 380-500VAC 50/60Hz max.14A max.8kW



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