

R3G280-AC66-30 ebmpapst 48V EC Centrifugal Fan

SKU: R3G280-AC66-30

Price: \$666.10

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r3g280-ac66-30-ebmpapst-48v-ec-centrifugal-fan/>

Product Description

The ebmpapst R3G280-AC66-30 is a compact EC centrifugal fan measuring Ø280mm in diameter. This fan operates on a nominal voltage of 48VDC within a range of 36-57VDC. It achieves a speed of 2000RPM, consumes 135W of power, and draws 2.85A of current.

The fan features robust ball bearings and an impeller made of galvanized sheet steel with 11 blades. The electronics housing is constructed from die-cast aluminium, and the rotor surface is painted black. The R3G280-AC66-30 boasts an IP42 type of protection, insulation class "B", and humidity class H1. It includes integrated electronics with features such as Tach output, motor current limitation, soft start, control input 0-10 VDC / PWM, and a control interface with SELV potential safely disconnected from the supply, along with thermal overload protection for the motor. Electrical connection is provided via a variable cable exit. The fan operates reliably within an ambient temperature range of -25°C to 60°C, with transport/storage temperatures between -40°C and +80°C. Its installation position can be any, and it operates in S1 mode with no condensation drainage holes. It conforms to EN 60950-1 and CE standards, and demonstrates EMC immunity to interference according to EN 61000-6-2 (industrial environment) and EMC interference emission according to EN 55022 (Class B). It holds approvals including CCC, CSA C22.2 No. 100, EAC, and UL 1004-1. This fan is suitable for industrial refrigeration and freezing equipment, ventilation systems, air conditioning units, and heat pumps.

R3G280-AC66-30 Fan Parameters

Model: R3G280-AC66-30

Manufacturer: ebmpapst

Type: EC centrifugal fan

Motor: M3G084-CA

Dimensions (Size): Ø 280 mm

Nominal Voltage: 48 V DC

Nominal voltage range: 36 .. 57 V DC

Speed: 2000 RPM

Power input: 135 W

Current draw: 2.85 A

Min. ambient temperature: -25 °C

Max. ambient temperature: 60 °C

Rotor surface: Painted black

Material of impeller: Sheet steel, galvanized

Electronics housing material: Die-cast aluminium

Number of blades: 11

Direction of rotation: Clockwise, viewed toward rotor

Type of protection: IP 42

Insulation class: "B"

Humidity class: H1

Min. permissible ambient motor temp. (transp./storage): -40 °C

Max. permissible ambient motor temp. (transp./storage): +80 °C

Installation position: Any

Condensate drainage holes: None

Operation mode: S1

Motor bearing: Ball bearing

Technical features (Control/Monitoring): Tach output; Motor current limitation; Soft start;

Control input 0-10 VDC / PWM; Control interface with SELV potential safely disconnected from supply; Thermal overload protection for motor

EMC immunity to interference: According to EN 61000-6-2 (industrial environment)

EMC interference emission: According to EN 55022 (Class B)

Electrical leads: Variable cable exit

Motor protection: Thermal overload protector (TOP) internally connected

Protection class: I (if protective earth is connected by customer)

Product conforming to standard: EN 60950-1; CE

Approval: CCC, CSA C22.2 No. 100; EAC; UL 1004-1

Weight: 3.3 kg

Application: Industrial refrigeration and freezing equipment, ventilation systems, air conditioning units, and heat pumps.

Product Images



