

R3G310-AN12-30/F01 ebmpapst 48VDC EC Centrifugal Fan

SKU: R3G310-AN12-30/F01

Price: \$331.27

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r3g310-an12-30-f01-ebmpapst-48vdc-ec-centrifugal-fan/>

Product Description

The ebmpapst R3G310-AN12-30/F01 is a high-performance 48VDC EC Centrifugal Fan unit featuring 6 backward-curved aluminium sheet blades with an Impeller Size of 310 mm and overall Dimensions of 318 x 119.5 mm. Specifically engineered for mission-critical telecommunications cooling, outdoor enclosures, and industrial DC-powered ventilation, this unit is driven by the M3G084-FA brushless EC external rotor motor with maintenance-free ball bearings. Operating on a 48 VDC supply (voltage range 36 - 57 VDC), it delivers a Power Input of 190 W and a Current Draw of 4.0 A at a rated speed of 2000 RPM under running at free air (rfa) conditions. Featuring a rugged black coated rotor surface and IP42 protection, it supports seamless speed control via 0-10V DC or PWM interfaces with integrated soft start and motor current limiting, ensuring superior thermal management and an extended service life in continuous S1 environments at the end.

R3G310-AN12-30/F01 Fan Parameters

Model Number: R3G310-AN12-30/F01

Motor Model: M3G084-FA

Manufacturer: ebmpapst

Type: EC Centrifugal Fan - Backward-curved

Impeller Size: 310 mm

Dimensions: 318 x 318 x 119.5 mm

Weight: 4.35 kg

Bearing Type: Ball bearing

Nominal Voltage: 48 VDC

Voltage Range: 36 - 57 VDC

Current Draw: 4.0 A

Power Input: 190 W

Rated Speed: 2000 RPM

Max. Air Flow: 1324.2 CFM (2250.0 m³/h / 37.50 m³/min)

Max. Static Pressure: 51.01 mmH₂O (500.0 Pa / 2.05 inAq)

Number of Blades: 6

Impeller Material: Aluminium sheet

Rotor Surface: Coated in black

Direction of Rotation: Clockwise (viewed toward rotor)

Insulation Class: "B"

Degree of Protection: IP42

Control Input: 0-10 VDC / PWM

Output Signal: Tach output

Motor Protection: Thermal overload protector (TOP) internally wired

Technical Features: Soft start; Motor current limit; Over-temperature protection

EMC Interference Emission: Acc. to EN 55022 (Class B)

EMC Interference Immunity: Acc. to EN 61000-6-2 (Industrial environment)

Condensation Drainage Holes: None

Installation Position: Any

Mode: S1

Protection Class: III (Internal)

Max. Ambient Temperature: +60 °C

Min. Ambient Temperature: -25 °C

Max. Storage Temperature: +80 °C

Min. Storage Temperature: -40 °C

Standard Compliance: EN 60950-1; CE

Approval: CCC; CSA C22.2 No. 77; UL 2111

Application

The ebmpapst R3G310-AN12-30/F01 fan is the primary cooling component for 48V DC-powered telecommunications base stations, industrial server racks, and renewable energy storage systems requiring high-efficiency centrifugal airflow with a 310mm backward-curved aluminium impeller.

Product Images





Scan for product details:

