

# S3G710-AO85-21/F01 ebmpapst 230VAC 710mm EC Axial Fan

**SKU:** S3G710-AO85-21/F01

**Price:** \$1,171.36

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/s3g710-ao85-21-f01-ebmpapst-230vac-710mm-ec-axial-fan/>

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## Product Description

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The ebmpapst S3G710-AO85-21/F01 is a high-efficiency HyBlade EC axial fan unit with a nominal voltage of 230 VAC and an impeller size of 710 mm, specifically engineered for advanced thermal management in industrial condensers and large-scale ventilation systems. Driven by a robust single-phase M3G112-IA EC external rotor motor with an integrated electronic control system and a power consumption of 700 W, this unit features a heavy-duty ball bearing system designed for long-term mechanical stability and continuous S1 duty. Its aerodynamic design with 5 backward-curved HyBlade blades, featuring an aluminum sheet insert sprayed with PP plastic, delivers a massive airflow of 10435 m<sup>3</sup>/h at its rated speed of 830 RPM while maintaining a total pressure increase of 87 Pa. Constructed with a black-coated die-cast aluminium electronics housing and a black plastic-coated steel guard grille (RAL 9005), this 19 kg fan unit provides a dependable and intelligent air-moving solution with IP54 protection and Class B insulation for cooling towers, dry coolers, and industrial AHU infrastructure at the end.

S3G710-AO85-21/F01 Fan Parameters

Model Number: S3G710-AO85-21/F01

Manufacturer: ebmpapst

Motor Model: M3G112-IA

Series: HyBlade

Type: EC Axial Fan

Impeller Size: 710 mm

Weight: 19 kg

Bearing Type: Ball bearing

Nominal Voltage: 230 VAC (Single-phase)

Voltage Range: 200 - 277 VAC

Frequency: 50/60 Hz

Power Consumption: 700 W

Nominal Current: 3.1 A

Speed: 830 RPM

Max. Air Flow: 62.23 CFM (105.7 m<sup>3</sup>/h / 1.76 m<sup>3</sup>/min)

Max. Static Pressure: 9.81 mmH<sub>2</sub>O (96.24 Pa / 0.39 inH<sub>2</sub>O)

Actual Air Flow: 10435 m<sup>3</sup>/h (@ 835 RPM)

Actual Static Pressure: 100 Pa (Max. back pressure)

Pressure Increase Total (psf): 87 Pa

Overall Efficiency ( $\eta_{es}$ ): 41.3 %

Motor Design: Single-phase EC external rotor motor

Electronics Housing: Die-cast aluminium, coated in black

Motor Protection: Thermal overload protector (TOP) wired internally

Insulation Class: Class B

Control Input: 0-10 VDC / PWM

Electrical Hookup: Lead wires (Variable exit)

Number of Blades: 5

Blade Angle: 0°

Direction of Rotation: Counter-clockwise, viewed toward rotor

Airflow Direction: "V" (Exhaust over struts)

Impeller Material: Aluminium sheet insert, sprayed with PP plastic

Guard Grille Material: Steel, coated in black plastic (RAL 9005)

Installation Position: Shaft horizontal or rotor on bottom

Degree of Protection: IP54

Humidity Class: F4-1

Operating Temperature: -25 - +60 °C

Storage Temperature: -40 - +80 °C

Standard Compliance: EN 61800-5-1; CE; EN 61000-6-2/4

Approval Agency: CCC; EAC

### Application

The ebmpapst S3G710-AO85-21/F01 EC fan is primarily utilized in industrial condensers, dry coolers, large-scale ventilation units, and heat exchangers requiring single-phase power supply.

## Product Images

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Scan for product details:

