



M4Q045-CF01-01 ebmpapst

Brand: ebmpapst

SKU: M4Q045-CF01-01

Category: Fan Motors

URL: <https://www.fansco.com/item/m4q045-cf01-01-ebmpapst/>

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Product Description

M4Q045-CF01-01 ebmpapst 45mm 230VAC 58W 0.42A 829m³/h 1550RPM IP42 Sleeve Bearing Leads AC axial motor.

The M4Q045-CF01-01 AC motor, is a single-phase solution built for robust, versatile performance. Designed for 230 VAC input, it operates at 50 Hz (1300 rpm, 60 W) or 60 Hz (1550 rpm, 58 W), delivering a consistent 16 W power output across both frequencies. With low current draw (0.42 A/0.36 A) and controlled starting currents (0.58 A/0.5 A), it ensures stable operation even in fluctuating power environments. Rated for ambient temperatures from -30°C to 40°C, it thrives in harsh industrial settings, outdoor equipment, or temperature-sensitive applications, while CE compliance guarantees adherence to strict safety and performance standards.

Constructed with a die-cast aluminum bearing shield and a durable calotte bearing, this 1.3 kg motor offers long-lasting reliability, resisting wear and tear in high-vibration or dusty environments. Its IP42 protection rating (installation/position-dependent) safeguards against solid particles and water splashes, making it suitable for machinery, ventilation systems, or outdoor enclosures where exposure to debris or moisture is common. The Class B insulation and internal thermal overload protector (TOP) prevent overheating during prolonged use, ensuring safe, continuous operation (S1 duty mode) without risk of burnout. Notably, it withstands extreme transport/storage conditions (-40°C to +80°C), eliminating concerns about damage during logistics or seasonal temperature shifts. Compliance with EN 60335-1, EAC, and VDE approvals, plus a touch current below 0.75 mA (IEC 60990), further underscores its safety and suitability for global industrial, commercial, and residential applications.

The motor's universal installation position (no orientation restrictions) and compact 45 mm fan size make it ideal for space-constrained or custom setups, such as air conditioning units, agricultural machinery, or conveyor systems where flexibility in mounting is critical. Specific torque specifications (2.3 Nm for housing/bracket, 1.4 Nm for impeller) ensure secure, vibration-resistant assembly, reducing maintenance needs. The lateral PVC cable (0.5 mm², 3x crimped splices) with color-coded terminals (L-blue, N-brown, PE-green/yellow) simplifies wiring, while the integrated TOP provides passive overcurrent protection, minimizing downtime. Whether deployed in continuous-operation industrial fans, climate control systems, or rugged outdoor equipment, this motor's combination of adaptability, durability, and safety certifications makes it a trusted choice for applications demanding consistent performance across

varied conditions and regulatory landscapes.

Technical Specifications

Attribute	Value
Model Number	M4Q045-CF01-01
Manufacturer	ebm-papst
Fan Type	AC
Bearing Type	Sleeve Bearing
Dimensions	45 mm
Voltage Rating	230 VAC
Power Rating	58 W
Current Rating	0.42 A
Fan Speed	1550 RPM
Termination	Leads
Category	Axial
IP Rating	IP42
Series	M4Q045
RoHS Status	ROHS3 Compliant
Air Flow CMH	829 m ³ /h
Operating Temperature	-22 ~ 104°F (-30 ~ 40°C)
Subcategory	AC motor





