

M4Q045-EF01-75 ebmpapst 230VAC Q-Motor for Refrigeration

SKU: M4Q045-EF01-75

Price: \$51.43

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/m4q045-ef01-75-ebmpapst-230vac-q-motor-for-refrigeration/>

Product Description

The ebmpapst M4Q045-EF01-75 is a high-torque single-phase AC shaded-pole motor from the specialized Q-motor series, engineered for heavy-duty service in commercial refrigeration and industrial ventilation. Driven by the M4Q045-EF motor core, this unit delivers a significant power output of 34 W with a nominal input of 110 W at 50 Hz, providing the necessary torque (24 Ncm) to drive large axial fan blades. The robust design features a die-cast aluminum bearing shield and maintenance-free calotte bearings, ensuring stable S1 continuous operation even in low-temperature environments down to -30 °C. For enhanced safety, the motor is equipped with an internally connected thermal overload protector (TOP) and carries a Class B insulation rating. With its versatile mounting capabilities and high starting torque, the M4Q045-EF01-75 is the definitive solution for demanding evaporator and condenser applications in the global refrigeration industry.

M4Q045-EF01-75 Fan Parameters

Model Number: M4Q045-EF01-75

Motor Number: M4Q045-EF

Manufacturer: ebmpapst

Series: Q-Motor Series

Type: AC Shaded-pole Motor

Fan Size: 45 mm

Weight: 2.3 kg

Bearing Type: Calotte bearing

Nominal Voltage: 230 VAC

Voltage Range: 220 - 240 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Power Consumption: 110 W (@ 50 Hz) / 100 W (@ 60 Hz)

Power Output: 34 W

Nominal Current: 0.75 A (@ 50 Hz) / 0.65 A (@ 60 Hz)

Starting Current: 1.2 A (@ 50 Hz) / 0.95 A (@ 60 Hz)

Speed: 1300 RPM (@ 50 Hz) / 1550 RPM (@ 60 Hz)

Rated Torque: 24 Ncm (@ 50 Hz) / 20 Ncm (@ 60 Hz)

Starting Torque: 11 Ncm (@ 50 Hz) / 7.5 Ncm (@ 60 Hz)

Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)

Max. Static Pressure: 9.81 mmH₂O (96.24 Pa / 0.39 inH₂O)

Motor Design: Shaded-pole motor

Motor Protection: Thermal overload protector (TOP) internally connected

Insulation Class: Class B

Electrical Hookup: Lateral cable

Number of Blades: N/A (Motor only)

Direction of Rotation: Counterclockwise, viewed toward rotor

Bearing Shield Material: Die-cast aluminum

Installation Position: Any, preferably horizontal

Condensation Drainage: None

Mode: S1

Touch Current: < 0.75 mA

Degree of Protection: IP20

Protection Class: I

Operating Temperature: -30 - +40 °C

Standard Compliance: EN 60335-1, CE

Approval Agency: VDE

Application

The ebmpapst M4Q045-EF01-75 motor is primarily utilized in commercial refrigeration condensers, cold storage evaporators, bottle coolers, industrial cooling units, and small-scale exhaust systems.

Product Images









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