

FFU Motor ECM102 Series

BLDC motors for FFU and impellers designed for HVAC applications offer high efficiency and quiet operation. Electronic protection ensures safe operation with over-current, over-load, and blocking protection.



ADDITIONAL IMAGES



Overview

High-Efficiency ECM102 Series

The ECM102 series is a high-performance, three-phase BLDC motor featuring an external rotor design, specifically engineered for Fan Filter Units (FFU) and HVAC applications. These motors are built for maintenance-free, quiet operation while delivering high efficiency to minimize operational costs. Equipped with integrated electronic protections such as over-current and over-load blocking, they ensure reliable performance in demanding cleanroom environments.

Technical Specifications

Motor Type	Three-phase BLDC, external rotor
IP Class	IP20
Efficiency	80%
Input Voltage	380VDC
Certifications	CE, CCC

Performance Data

N	Model	Input Voltage (without controller)	Rated Output (W)	Rated Speed (RPM)	Rated Torque (Nm)	IP Class	Efficiency	L (mm)
1	ECM00102NB111030009	380VDC	300	1100	2.6	IP20	80%	70.5
2	ECM00102NB113040009	380VDC	400	1300	3.0	IP20	80%	90.5

Technical performance specifications for the ECM102 series.

Model Performance Metrics

Model	Output (W)	Speed (RPM)	Torque (Nm)	Length (mm)
ECM00102NB111030009	300	1100	2.6	70.5
ECM00102NB113040009	400	1300	3	90.5

Features

Key Features

- Maintenance-free operation
- Quiet, low-noise performance
- Electronic protection (over-current, over-load, blocking)
- Flexible configuration (separate or integrated driver)