

Electronically Commutated Motor for HVAC

High-efficiency motors designed for fan coil units and blowers, featuring variable speed and long lifetime. Compact design ensures simple replacement in VAV, FCU, HRU, and AHU applications.



Overview

High-Efficiency ECM Motor

This Electronically Commutated Motor (ECM) is engineered for high-efficiency operation in HVAC systems, including fan coil units, blowers, and air handling units. It features advanced variable speed control options and robust protection mechanisms to ensure long service life and reduced operational costs. Designed with a compact form factor, it offers simple replacement and flexible installation with single or double shaft configurations.

Technical Specifications

Efficiency	80 %
Controller Input Voltage	220VAC +/-10%
Rated Speed	1200 RPM
Variable Speed Range	0-1800 RPM

Features & Protection

Safety Features

- 1.5 times over-load protection
- Over/under current protection
- Over/under voltage protection
- Blocking protection

Speed Control Options

- 0-10VDC
- PWM
- 5-speed options
- RS485 feedback signal

Certifications	CE, CCC
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Performance Data

N	Model	Controller Input Voltage	Rated Output (W)	Rated Speed (RPM)	Variable Speed (RPM)	Rated Torque (Nm)	Efficiency	Shaft (s)	L1 (mm)	L2 (mm)	D (mm)
1	ECM01120NB112020003	220VAC+/-10%	200	1200	0-1800	1.6	80%	single	80	223	12.7/15
2	ECM01120NB112025003	220VAC+/-10%	250	1200	0-1800	2.0	80%	single	90	215	12.7/15
3	ECM01120NB112032003	220VAC+/-10%	320	1200	0-1800	2.5	80%	single	90	215	12.7/15
4	ECM01120NB112020003/DS	220VAC+/-10%	200	1200	0-1800	1.6	80%	double	90	216	12.7/15
5	ECM01120NB112025003/DS	220VAC+/-10%	250	1200	0-1800	2.0	80%	double	90	212	12.7/15
6	ECM01120NB112032003/DS	220VAC+/-10%	320	1200	0-1800	2.5	80%	double	90	212	12.7/15

Technical performance data for the ECM120 series, detailing power output and shaft configurations.

Model Specifications

Model	Power (W)	Torque (Nm)	Shaft Type
ECM01120NB112020003	200	1.6	Single
ECM01120NB112025003	250	2	Single
ECM01120NB112032003	320	2.5	Single
ECM01120NB112020003/DS	200	1.6	Double
ECM01120NB112025003/DS	250	2	Double
ECM01120NB112032003/DS	320	2.5	Double