

ECM142 Series High-Efficiency Motor

This high-efficiency motor is designed for HVAC applications. It offers multiple speed control options, a long operational life, and low operational costs.



ADDITIONAL IMAGES



Overview

High-Efficiency HVAC Solution

The ECM142 Series is an advanced electronically commutated motor designed specifically for demanding HVAC&R applications. Featuring permanent magnet technology and an integrated controller, these motors deliver superior energy efficiency, quiet operation, and robust protection mechanisms. With versatile speed control options and a compact, easy-to-replace design, they are an ideal choice for modernizing VAV, FCU, AHU, and other air handling systems.

Technical Specifications

Key Motor Features

- Permanent Magnet Technology
- Integrated Controller
- Soft Start Capability
- CW/CCW Reversible
- Feedback Signal Support (RS485)

Input Voltage Range	190-250 VAC
Efficiency	80 %
Speed Control Methods	0-10 VDC, PWM, 5-Speed Control

Protection & Safety

Protection Mechanisms

1.5x Overload Protection • Over-Current Protection • Under-Current Protection • Over-Voltage Protection • Under-Voltage Protection • Blocking Protection

Certifications	CSA Approved
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Model Selection Table

Model Specifications

Model	Output (W)	Rated Torque (Nm)	L1 (mm)	L2 (mm)
ECM01142NA114020004	200	1.4	80	278
ECM01142NA114025004	250	1.7	80	278
ECM01142NA114037004	370	2.5	95	293
ECM01142NA114056004	560	3.8	95	293
ECM01142NA114073504	735	5	106	304

Applications

Suitable Systems

VAV, FCU, AHU, HRU, ERU, Fans, Blowers, Pumps