

ZKV EC MOTOR

Domel's Permanent Magnet Synchronous (PM) motors with integrated electronics combine precise electronic commutation (EC) with high efficiency, reliability, and accurate control. Designed for demanding applications, they deliver long-term performance and energy savings, making them a smart choice for modern, high-performance systems.



HIGHLIGHTS



Ultra-premium efficiency

Above IE5 total efficiency at full and partial load.



Smart, connected, effortless

Our motors are fully IoT ready, featuring a built-in vibration sensor for real-time condition monitoring and NFC commissioning for fast, seamless setup using your smartphone app.



Compact Design. Plug-and-Play Integration

A space-saving motor that installs effortlessly, enabling fast commissioning and seamless operation.



Environmental responsibility

Use of sustainable non-rare earth magnets, low energy consumption and long lifetime.



Built on experience driven by quality

With long-standing experience in the HVAC market, we combine vertically integrated manufacturing and rigorous in-house testing to ensure superior quality and deliver fully customized motor solutions.



External rotor flange mount

Ready for axial or centrifugal fan wheel.

DOMEL

TECHNICAL DATA

Mechanical specifications	
Motor type	ZKV motor with integrated controller
Motor efficiency class	IE5
Torque	6 – 30 Nm (4.5 – 22 lb·ft)
Power	1,5 – 4 kW (2 – 5.5 HP)
Speed	Custom speed adjustments, up to 4000 RPM
Supply voltage	380 – 480 VAC (+/- 10%)
Motor Insulation class	180 (H)
Motor thermal protection	155 (F)
Bearing current protection	Yes
Standards and certificates	CE® marked, UL/CSA® recognized A2L/A3 certified per ISO 60335-2-40

Environmental specifications	
Enclosure	IP55
Operating temperature	-20 to +50°C (+122°F); higher temperatures to be consulted
Storage temperature	-40 to +70°C (+158°F)
Relative humidity	0-95% (non condensing)
Bearing seat material	Aluminum
Bearings	6205 ZZ - Maintenance-free

APPLICATIONS

Motors can be used in axial fans, plug fans, centrifugal fans (backward or forward curved blades). Due to extremely high efficiency and reliability they are often used in data centers and agriculture.

FIND YOUR PERFECT SOLUTION

Tell us your requirements and we will find the perfect solution for you.



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