

ZKG MOTOR RANGE

These are Permanent Magnet Synchronous motors, which needs to be electronically commutated (EC). Known for their ultra-high efficiency and reliability, Domel state-of-the-art motors are the right choice for demanding applications.



HIGHLIGHTS



Ultra-premium efficiency

Above IE5 total efficiency at full and partial load.



Reliability and low noise

Extremely low vibration level and starting current, less cogging and insulated bearing system reduces mechanical stress, increases reliability and produces ultra-quiet operation.



Space savings

High performance to weight ratio and flat design saves valuable space.



Environmental responsibility

Use of sustainable non-rare earth magnets, low energy consumption and long lifetime of >70.000 hours.



Highest quality and flexibility

Vertically integrated manufacturing and in-house testing ensures having production process in control and allows custom motor solutions.



Use of preferred drive

Compatible with readily available drives on the market, which can run PMS motors.

TECHNICAL DATA

Mechanical specifications	
Motor type	ZKG motors
Motor efficiency class	IE5+
Torque	3 - 50 Nm
Power	0,55 - 11 kW (0.75 - 15 HP)
Speed	Custom speed adjustments, up to 4000 RPM
Motor voltage	110 – 115 VAC, 200 - 240 VAC, 380 - 480 VAC, 500 - 600 VAC (+/- 10%)
Insulation class	180 (H)
Temperature rise class	80 (B)
Mounting	B14, V18, V19
Standards and certificates	CE® marked, UL/CSA® recognized ISO 9001, ISO 14001 and ISO/TS 16949 certified

Environmental specifications	
Enclosure	IP 55
Operating temperature	-40 to +40°C (+104°F); higher temperatures to be consulted
Storage temperature	-40 to +70°C (+158°F)
Relative humidity	0-100% (indoor or outdoor use) Extreme humidity, heat or exposure to cold to be consulted
Corrosion protection	C5 (according to ISO 12944-2) Salt spray resistance (720 h) (according to ISO 9227)
Vibration (operating)	Grade B (according to IEC 60034-14)
Balance quality grade	G 6.3 (according to ISO 1940-1)
Bearing seat material	Aluminum
Bearings	Maintenance-free

APPLICATIONS

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

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