



Product Family

20 Nm / 0.5 HP | 40 Nm / 1 HP | 60 Nm / 1.5 HP

The industry's only direct drive motor system with zero permanent magnets

C-Motive's electrostatic motor delivers the highest efficiency and torque density available on the market for low-speed industrial applications. This unique technology is ideal for replacing gearmotors, granting users simplicity through an integrated motor/drive system. By using static electricity, C-Motive has removed the need for rare-earth materials and reduced copper use to the bare minimum, enabling an inherently secure and sustainable motor supply chain.

ZeroMag

Go gearless with C-Motive's electrostatic technology.
Lower electricity costs. No permanent magnet supply bottlenecks.
Increased uptime & reduced maintenance vs. geared solutions.

Target Applications

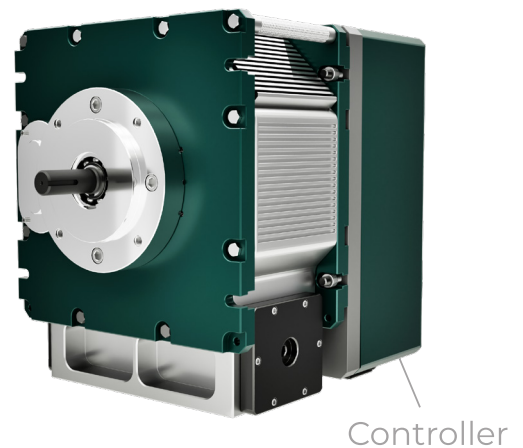
- Material conveyance
- HVLS fans
- Industrial pumps
- Compressors

C-Motive's Electrostatic Technology

- Zero magnets and no rare-earth materials
- 90% Less copper
- Exceptional efficiency
- Quiet gearless operation

Product Capabilities

- Product family with designs up to 4 HP
- Integrated motor/drive for simplicity and space savings
- Standard 480V three phase input power
- High efficiency sine wave controller ensures quiet & smooth operation
- Speed and torque control with programmable settings
- TCP/IP and Industrial Fieldbus support built-in
- Safety chain and Safety torque off built-in
- Vertical and horizontal mounting capability
- Semi-customizable for OEM product integration
- 100% factory tested with run-in test
- C-Motive limited warranty
- Designed & Manufactured in U.S.A. in Middleton, WI



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Preliminary Datasheet. Product specifications are subject to change. Please email info@c-motive.com for updated specifications.

SYSTEM SPECIFICATIONS			
	0.5 HP	1 HP	1.5 HP
Rated Power	0.37 kW	0.75 kW	1.1 kW
Rated Torque	20 Nm	40 Nm	60 Nm
Dimensions (Shaft Excluded) (H x W x D)	40 x 33.6 x 47.6 cm	40 x 33.6 x 52.7 cm	40 x 33.6 x 65.4 cm
Weight	28.3 kg	37.4 kg	46.5 kg
Rated Speed and Speed Range	180 rpm rated, 0 - 400 rpm range		
System Efficiency	87%		
Mounting and Motor Shaft	NEMA 56C, standard and customizable shaft options		
Ingress Protection	IP66 (motor), IP 65 (controller)		
Operating Temperature Range	0-40 °C ambient; derating above 35°C, passive air cooling		
Elevation	2000 m		
Noise	<55 dB @ 1 meter		
Line Input	480 Vac three phase /3A 50/60 Hz		
Control Mode	Torque or Speed		
Safety I/O	STO: Dry contact input, SIL 2/CAT 3		
Digital I/O	Input Ch 1-2: 24V Input, Output Ch 1-2: 2 Configurable relays (NC,NO)		
Analog Inputs	Input Ch 1/2: +/- 10V analog, configurable for 24V digital input		
Communications	Built-in dual port Ethernet/IP		
Design Standards	UL; IEC 61800-5-1; -5-2; EMC Directive EN 61800-3; ROHS; REACH		

