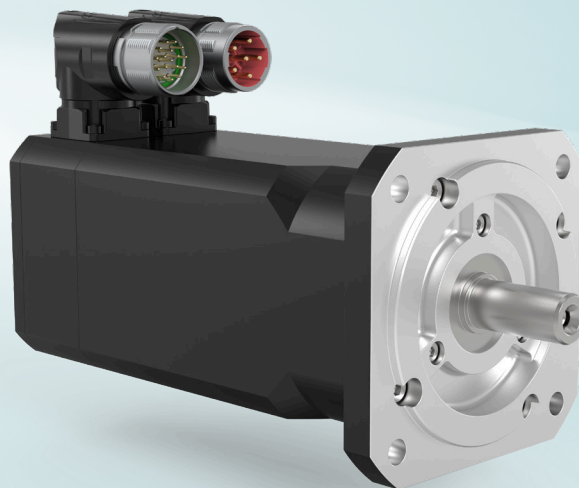


high dynamic
low inertia
easily modified

cyber[®] power motor AM
brushless servo motors



cyber[®] power motor AM

Dynamic servo motors with low inertia and small flange sizes

The WITTENSTEIN cyber[®] power motors AM (6 poles) with natural cooling are designed for highly dynamic servo applications requiring a wide speed range and variable load. From an electromagnetic standpoint, cyber[®] power motors AM are designed for an overload capacity of 2-4 times the rated torque. Therefore, these servo motors can be used with substantially higher torques than those produced at nominal speed. They also offer one of the largest power ranges in the industry, achieving continuous stall torque values of 0.42 to 140 Nm [3.7–1,239 lb-in].

The modular design of the cyber[®] power motor AM supports a variety of options. In addition, WITTENSTEIN cyber motor can provide fully customized solutions. We offer winding systems and special insulation options for different intermediate circuit voltages (12 V, 24 V, 48 V, 330 V, 560 V and 700 V_{DC}) as well as for a wide range of different voltage constants (from about 1 to 500 V min. / 1,000). For high speed applications, WITTENSTEIN cyber motor offers special rotors with double or triple bandages, in 2- or 4-pole variants. We can also customize active lengths and develop special mechanical designs for the flange, bearings and shaft end, for applications requiring higher radial and axial forces. Our motors can be engineered to meet even the most demanding environmental requirements (high temperature; hazardous or harsh environments), have increased IP ratings and be equipped with a variety of available encoder options to meet all our customer needs.

Features

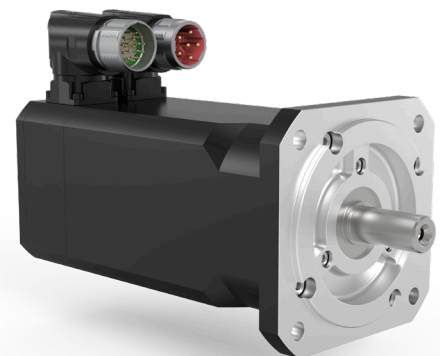
- Small dimensions
- High torque overload capability
- High efficiency
- High quality production
- High precision assembly
- Long life and high operational reliability

Benefits

- Highly customizable
- Low inertia
- High acceleration in transient conditions
- Rugged structure
- Minimal maintenance needs
- Different winding options available

Specifications

Dimensions	Measuring Unit	cyber [®] power motor AM
Continuous Stall Torque M°	Nm [lb-in]	0.42–140 [3.7–1,239]
Peak Torque M_{max}	Nm [lb-in]	1.72–430 [15.2–3,805]
Rated Speed n_N	min ⁻¹ (rpm)	0–10,000
Rated Power P_N	kW [hp]	0.2–17 [0.268–22.8]
Rated Torque M_N	Nm [lb-ft]	0.4–24 [3.54–1,097]
Moment of Inertia J	kg m ² [lb-in sec ² x 10 ⁻⁴]	0.09–430 [0.8–3,805]
Position Transducer	Standard / Optional	Resolver / Encoder
Temperature Monitoring	N/A	PTC, PT1000, Thermoswitch
Brake	N/A	Optional
Rated Bus Voltage V_{DC}	V	300/560 (or customizable)
Certificate / Marks	N/A	CE
Cooling	N/A	Natural



cyber[®] power motor AM