Micromotors | Coreless DC Motors | SVTN B 01-2225-24-S-WG





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Nominal voltage 24 V

No load speed 12000 rpm

No load current 45 mA

Nominal speed 9960 rpm

Nominal torque 5.560 mNm

Nominal current 0.340 A

Stall torque 32.700 mNm

Stall current 1.800 A

Max. efficiency 70.900 %

Terminal resistance* 13.330 ?

Terminal inductance* 0.550 mH

Torque constant 18.620 mNm/A

Speed constant 500 mNm/V

Notice: The provided technical data are the higher limits recommended in static condition. To obtain the correct dimensioning of the product, it is necessary to hold account of all the applicable dynamic forces, including the inertia of the manipulator, the configuration of the tools and the external forces applied.

2 Pole Brushed DC Motors

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Speed/torque gradient 367.20 rpm/mNm

Mechanical time constant 11.270 ms

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Rotor inertia

2.930 gcm²

The specific design construction of a coreless DC motor provides several advantages over the traditional, iron core, technology. A first added value it is given by rotor lower mass and inertia, so very rapid acceleration and deceleration rates are possible. Furthermore, the lack of iron reduces "iron losses" to provide higher efficiencies (up to 90 percent) than traditional DC motors. Last, but not least, the coreless design reduces winding inductance, so sparking between the brushes and commutator is reduced, increasing motor life and reducing electromagnetic interference (EMI). Our Coreless DC Motors are available on a wide range of sizes and we can show high flexibility on custom requirements.



Advantages



Benefits

- Winding technology without metal bodies
- Good heat dissipation and high overload capacity
- Long life expectancy

- Light and compact, easy integration
- High reliability
- Good return on investment



expertise in connectivity