Micromotors | Coreless DC Motors | SVTN B 01-2657-12-D-OG





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Nominal voltage 12 V

No load speed 5600 rpm No load current 130 mA

Nominal speed 4984 rpm

Nominal torque 25.530 mNm

Nominal current 1.390 A

Stall torque 232.100 mNm

Stall current 11.600 A Max. efficiency 79.900 % Terminal resistance* 1.030 ?

Terminal inductance* 0.083 mH

Torque constant 20.230 mNm/A **Speed constant** 466 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 24.10 rpm/mNm

Mechanical time constant 3.340 ms

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Rotor inertia

13.220 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