

variables/V-color

Micromotors | Coreless DC Motors | SVTN B 01-4070-12-D-OG





Feature

SVTN B 01-4070-12-D-OG

Nominal voltage	12 V
No load speed	8200 rpm
No load current	500 mA
Nominal speed	7585 rpm
Nominal torque	161.410 mNm
Nominal current	12.090 A
Stall torque	2152.100 mNm
Stall current	155.000 A
Max. efficiency	89.000 %
Terminal resistance*	0.080 ?
Terminal inductance*	0.016 mH
Torque constant	13.930 mNm/A
Speed constant	683 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

SVTN B 01-4070-12-D-OG

Speed/torque gradient	3.80 rpm/mNm
Mechanical time constant	5.600 ms

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Rotor inertia

140.230 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

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



Benefits

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



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