`variables/V-color`

Micromotors | Coreless DC Motors | SVTN B 01-1625-06-S-OG

Feature

SVTN B 01-1625-06-S-OG

Nominal voltage	6 V
No load speed	11500 rpm
No load current	80 mA
Nominal speed	8108 rpm
Nominal torque	2.710 mNm
Nominal current	0.650 A
Stall torque	9.200 mNm
Stall current	2.000 A
Max. efficiency	64.000 %
Terminal resistance*	3.000 ?
Terminal inductance*	0.100 mH
Torque constant	4.780 mNm/A
Speed constant	1916 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 01-1625-06-S-OG

Speed/torque gradient	1252.30 rpm/mNm
Mechanical time constant	12.600 ms

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Rotor inertia   0.960 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

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expertise in connectivity