MICROMOTORS | CORELESS DC MOTORS | SVTN B 01-4050-12-S-WG



Coreless DC Motor

High Power Density - High Efficiency - High Reliability Low Inductance - Low Inertia - Good Heat Dissipation Long Operational Lifetime - Cost Effective - No Cogging



	SVTN B 01-4050-12-S-WG
Nominal voltage	12 V
No load speed	7600 rpm
No load current	260 mA
Nominal speed	6612 rpm
Nominal torque	57.790 mNm
Nominal current	4.130 A
Stall torque	444.500 mNm
Stall current	30.000 A
Max. efficiency	82.200 %
Terminal resistance*	0.400 Ω
Terminal inductance*	0.043 mH
Torque constant	14.950 mNm/A
Speed constant	633 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 01-4050-12-S-WG
Speed/torque gradient	17.10 rpm/mNm
Mechanical time constant	6.000 ms
Rotor inertia	33.540 gcm ²

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.





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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