

Coreless DC Motor

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

Feature

	SVTN B 01-2230-06-S-OG
Nominal voltage	6 V
No load speed	11300 rpm
No load current	90 mA
Nominal speed	9492 rpm
Nominal torque	3.910 mNm
Nominal current	0.880 A
Stall torque	24.450 mNm
Stall current	5.000 A
Max. efficiency	74.970 %
Terminal resistance*	1.200 Ω
Terminal inductance*	0.190 mH
Torque constant	4.980 mNm/A
Speed constant	1883 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	462.20 rpm/mNm
Mechanical time constant	13.050 ms
Rotor inertia	2.700 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.





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

