

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 01-3571-12-S-OG
Nominal voltage	12 V
No load speed	7400 rpm
No load current	250 mA
Nominal speed	6771 rpm
Nominal torque	115.170 mNm
Nominal current	7.710 A
Stall torque	1355.000 mNm
Stall current	88.000 A
Max. efficiency	89.600 %
Terminal resistance*	0.140 Ω
Terminal inductance*	0.050 mH
Torque constant	15.440 mNm/A
Speed constant	616 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	5.50 rpm/mNm
Mechanical time constant	4.570 ms
Rotor inertia	79.980 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



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