



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 01-3571-15-D-OG	
Nominal voltage	15 V
No load speed	7100 rpm
No load current	160 mA
Nominal speed	6497 rpm
Nominal torque	81.760 mNm
Nominal current	4.230 A
Stall torque	961.900 mNm
Stall current	48.000 A
Max. efficiency	88.800 %
Terminal resistance*	0.310 Ω
Terminal inductance*	0.120 mH
Torque constant	20.110 mNm/A
Speed constant	473 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	7.40 rpm/mNm
Mechanical time constant	5.870 ms
Rotor inertia	76.010 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.



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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product
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services

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