



Slotless BLDC motor

High Speed - Long Lifespan - Cost Effective Low Inertia - High Efficiency - Low Noise - High Reliability

 Feature

SVTN A 02-2053-36-S-O	
Nominal voltage	36 V
No load speed	51448 rpm
No load current	81 mA
Nominal speed	46936 rpm
Nominal torque	10.000 mNm
Nominal current	1.580 A
Stall torque	114.000 mNm
Stall current	17.200 A
Max. efficiency	86.800 %
Terminal resistance*	2.090 Ω
Terminal inductance*	0.230 mH
Torque constant	6.650 mNm/A
Speed constant	1436 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.

HIGH-SPEED BRUSHLESS DC MOTORS

SVTN A 02-2053-36-S-O

Speed/torque gradient	451.00 rpm/mNm
Mechanical time constant	3.900 ms
Rotor inertia	0.830 gcm ²

Typically employed in the medical field for surgical tools, these motors merge the SVTN A Series characteristics to an optimized project for high-speed functions. Thanks to a precise balancing of the rotor and the use of special bearings, maximum stability, and low noise are guaranteed.

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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