



Slotless BLDC motor

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

 Feature

SVTN A 02-2053-48-D-O	
Nominal voltage	48 V
No load speed	50700 rpm
No load current	68 mA
Nominal speed	46188 rpm
Nominal torque	10.000 mNm
Nominal current	1.180 A
Stall torque	112.000 mNm
Stall current	12.600 A
Max. efficiency	85.800 %
Terminal resistance*	3.820 Ω
Terminal inductance*	0.380 mH
Torque constant	8.990 mNm/A
Speed constant	1062 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 02-2053-48-D-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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