Slotless BLDC motor

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

Feature

	SVTN A 02-2057-48-S-H
Nominal voltage	48 V
No load speed	50700 rpm
No load current	94 mA
Nominal speed	46436 rpm
Nominal torque	15.000 mNm
Nominal current	1.760 A
Stall torque	194.000 mNm
Stall current	19.900 A
Max. efficiency	86.700 %
Terminal resistance*	2.410 Ω
Terminal inductance*	0.250 mH
Torque constant	9.000 mNm/A
Speed constant	1061 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.

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Speed/torque gradient	284.00 rpm/mNm
Mechanical time constant	2.700 ms
Rotor inertia	0.910 gcm²

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