# Micromotors | Slotless BLDC motor | SVTN A 02-1644-30-S-O





SVTN A 02-1644-30-S-O

Nominal voltage 30 V

No load speed 30900 rpm

No load current 80 mA

**Nominal speed** 28403 rpm

**Nominal torque** 7.500 mNm

Nominal current 0.900 A

**Stall torque** 92.800 mNm

Stall current 10.200 A

Max. efficiency 83.000 %

Terminal resistance\* 3.000 ?

**Terminal inductance\*** 0.190 mH

**Torque constant** 9.200 mNm/A **Speed constant** 1038 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**

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**Speed/torque gradient** 333.00 rpm/mNm

Mechanical time constant 2.900 ms

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#### Rotor inertia

0.820 gcm<sup>2</sup>

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



Benefits

- 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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