# Micromotors | Coreless BLDC motors | SVTN A 03-2863-12-S-0





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Nominal voltage 12 V

**No load speed** 4168 rpm

No load current 70 mA

Nominal speed 3264 rpm

Nominal torque 25.000 mNm

Nominal current 0.990 A

Stall torque 115.000 mNm

Stall current 4.330 A

**Max. efficiency** 76.200 %

Torque constant 27.000 mNm/A

**Speed constant** 353 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 Brushless DC Motors with Integrated Electronics

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**Speed/torque gradient** 36.20 rpm/mNm

Mechanical time constant 3.200 ms

**Rotor inertia** 8.500 gcm<sup>2</sup>

The benefits of this technology join the simplicity of use of a brushed DC motor with the longevity of a brushless motor, maintaining cost-effectiveness and ease of integration. The lack of cogging is typical of the coreless motors and guarantees a reduced ripple torque, a linear correlation between torque, speed, and low inertia. The miniaturization of the electronics allows maintaining the diameter of the motor unvaried with a slight increase in length.



### 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
- No need for external drive



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