## Micromotors | Coreless BLDC motors | SVTN A 03-2459-24-S-1





### SVTN A 03-2459-24-S-1

Nominal voltage 24 V

**No load speed** 7655 rpm

No load current 73 mA

Nominal speed 6597 rpm

Nominal torque 20.000 mNm

Nominal current 0.750 A

Stall torque 145.000 mNm

Stall current 4.980 A

Max. efficiency 77.200 %

Torque constant 29.500 mNm/A

**Speed constant** 324 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

SVTN A 03-2459-24-S-1

**Speed/torque gradient** 52.90 rpm/mNm

Mechanical time constant 3.300 ms

**Rotor inertia** 5.900 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



# expertise in connectivity