



Coreless BLDC motor

Long Lifetime - High Efficiency - Low Noise - High Reliability  
No Cogging - Low Inertia - Cost-effective

 Feature

SVTN A 03-2452-12-S-1	
Nominal voltage	12 V
No load speed	6904 rpm
No load current	103 mA
Nominal speed	5087 rpm
Nominal torque	14.000 mNm
Nominal current	0.980 A
Stall torque	87.000 mNm
Stall current	5.580 A
Max. efficiency	71.700 %
Torque constant	15.900 mNm/A
Speed constant	601 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 03-2452-12-S-1

Speed/torque gradient	81.30 rpm/mNm
Mechanical time constant	3.600 ms
Rotor inertia	4.200 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

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

No need for external drive



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