



Coreless BLDC motor.

High Power Density - High Efficiency - Cost Effective  
 Low noise - Low inductance - Good Heat Dissipation  
 Long Lifetime - No Cogging - Low Inertia - Robust

 Feature

SVTN A 01-2453-12-S-H	
Nominal voltage	12 V
No load speed	15083 rpm
No load current	308 mA
Nominal speed	13938 rpm
Nominal torque	20.000 mNm
Nominal current	2.960 A
Stall torque	263.000 mNm
Stall current	35.300 A
Max. efficiency	82.200 %
Terminal resistance*	0.300 Ω
Terminal inductance*	0.050 mH
Torque constant	7.530 mNm/A
Speed constant	1268 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

SVTN A 01-2453-12-S-H

Speed/torque gradient	57.20 rpm/mNm
Mechanical time constant	3.500 ms
Rotor inertia	5.900 gcm <sup>2</sup>

The benefits of this new technology are torque and high-speed when compared to the same sizing. The lack of cogging, a reduced ripple torque, a linear correlation between speed and torque, low inertia bring performance to a greater level in terms of power, dynamics by means of reduced weights and reduced dimensions. Servotecnica's brushless motors apply hall sensors as a standard option, in addition to having the magnetic encoder option. Thanks to the sensors it is possible to control rotation speed, and, thanks to the lack of cogging, provide high performance and accuracy.



### 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



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