

variables/V-color

Micromotors | Coreless BLDC motors | SVTN A 01-2260-12-S-O



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 01-2260-12-S-O

Nominal voltage	12 V
No load speed	16360 rpm
No load current	440 mA
Nominal speed	14517 rpm
Nominal torque	28.000 mNm
Nominal current	4.490 A
Stall torque	249.000 mNm
Stall current	36.400 A
Max. efficiency	79.200 %
Terminal resistance*	0.300 Ω
Terminal inductance*	0.030 mH
Torque constant	6.920 mNm/A
Speed constant	1380 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 01-2260-12-S-O

Speed/torque gradient	65.80 rpm/mNm
Mechanical time constant	3.100 ms
Rotor inertia	4.500 gcm ²

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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