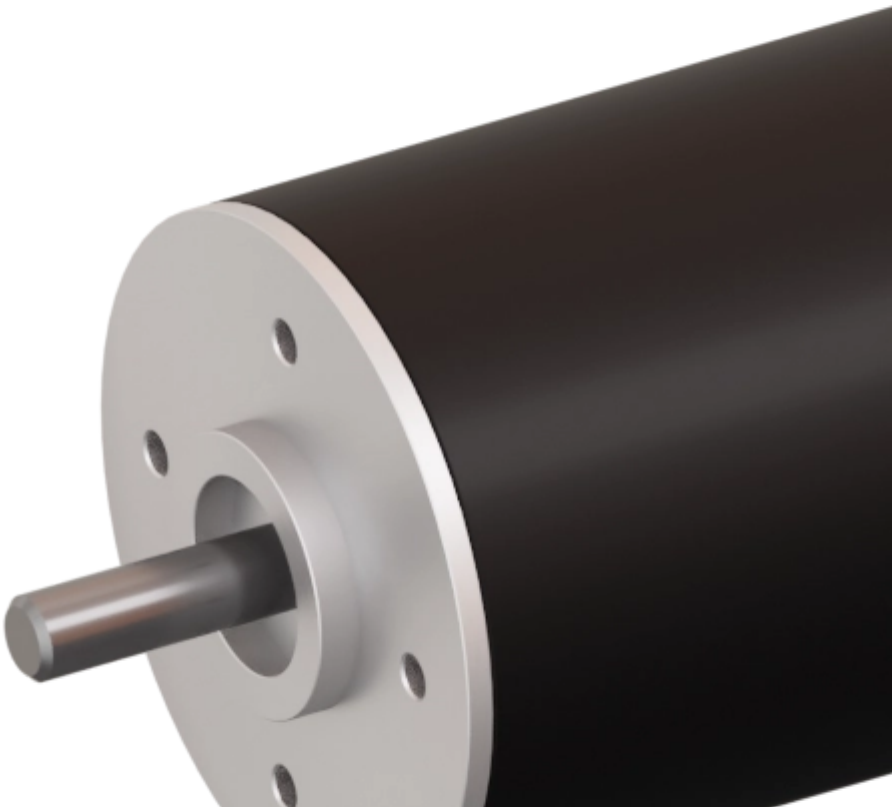
variables/V-color

Micromotors | Coreless BLDC motors | SVTN A 01-2453-12-D-O



Feature

	SVTN A 01-2453-12-D-O
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 ?
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-D-O
Speed/torque gradient	57.20 rpm/mNm
Mechanical time constant	3.500 ms

SVTN A 01-2453-12-D-O

Rotor inertia	5.900 gcm²

The bene?ts 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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