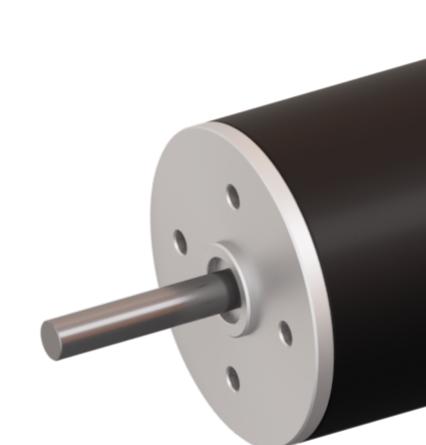
# Micromotors | Coreless BLDC motors | SVTN A 01-1630-12-D-O





SVTN A 01-1630-12-D-O

Nominal voltage 12 V

No load speed 23220 rpm

**No load current** 210 mA

Nominal speed 19138 rpm

**Nominal torque** 3.500 mNm

Nominal current 0.950 A

Stall torque 20.000 mNm

Stall current 4.400 A Max. efficiency 61.300 %

**Terminal resistance\*** 2.700 ?

 $\textbf{Terminal inductance*}\ 0.080\ mH$ 

**Torque constant** 4.700 mNm/A **Speed constant** 2031 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 01-1630-12-D-O

**Speed/torque gradient** 1166.30 rpm/mNm

Mechanical time constant 5.800 ms

#### SVTN A 01-1630-12-D-O

#### Rotor inertia

0.480 gcm<sup>2</sup>

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



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



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