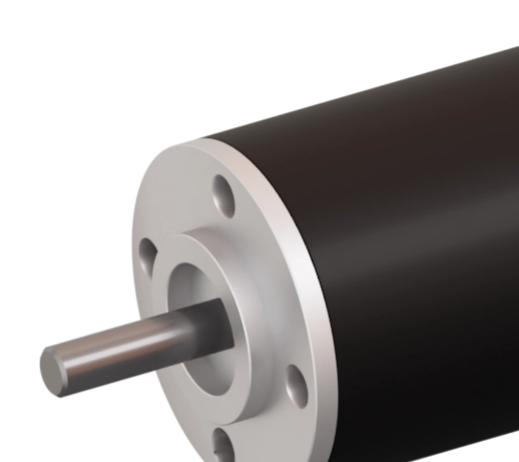
## Micromotors | Coreless BLDC motors | SVTN A 01-2864-12-D-O





SVTN A 01-2864-12-D-O

Nominal voltage 12 V

No load speed 7956 rpm No load current 182 mA

Nominal speed 6712 rpm

Nominal torque 50.000 mNm

Nominal current 3.680 A

Stall torque 320.000 mNm

Stall current 22.600 A

Max. efficiency 82.800 %

Terminal resistance\* 0.500 ?

**Terminal inductance\*** 0.110 mH

**Torque constant** 14.290 mNm/A **Speed constant** 668 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 01-2864-12-D-O

**Speed/torque gradient** 24.90 rpm/mNm

Mechanical time constant 2.500 ms

#### SVTN A 01-2864-12-D-O

#### Rotor inertia

9.620 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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