## Micromotors | Coreless BLDC motors | SVTN A 01-2453-48-D-O





SVTN A 01-2453-48-D-O

Nominal voltage 48 V

**No load speed** 15310 rpm

**No load current** 94 mA

Nominal speed 14263 rpm

Nominal torque 20.000 mNm

Nominal current 0.770 A

Stall torque 293.000 mNm

Stall current 10.000 A Max. efficiency 81.500 % Terminal resistance\* 4.800 ?

**Terminal inductance\*** 0.760 mH

**Torque constant** 29.660 mNm/A **Speed constant** 322 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

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**Speed/torque gradient** 52.30 rpm/mNm

Mechanical time constant 3.200 ms

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#### Rotor inertia

5.900 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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