variables/V-color

Micromotors | Coreless BLDC motors | SVTN A 03-1228-06-S-1





SVTN A 03-1228-06-S-1

Nominal voltage6 VNo load speed31000 rpmNo load current140 mANominal speed27755 rpmNominal torque0.500 mNmNominal current0.420 AStall torque4.780 mNmStall current2.860 AMax. efficiency60.600 %Torque constant1.780 mNm/ASpeed constant5374 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 with Integrated Electronics

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Speed/torque gradient6350.00 rpm/mNmMechanical time constant11.300 msRotor inertia0.200 gcm²

The benefits of this technology join the simplicity of use of a brushed DC motor with the longevity of a brushless motor, maintaining costeffectiveness and ease of integration. The lack of cogging is typical of the coreless motors and guarantees a reduced ripple torque, a linear correlation between torque, speed, and low inertia. The miniaturization of the electronics allows maintaining the diameter of the motor unvaried with a slight increase in length.



- 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
- No need for external drive



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