



Coreless BLDC motor

Long Lifetime - High Efficiency - Low Noise - High Reliability  
No Cogging - Low Inertia - Cost-effective

 Feature

| SVTN A 03-1228-06-S-0 |             |
|-----------------------|-------------|
| Nominal voltage       | 6 V         |
| No load speed         | 31000 rpm   |
| No load current       | 140 mA      |
| Nominal speed         | 27755 rpm   |
| Nominal torque        | 0.500 mNm   |
| Nominal current       | 0.420 A     |
| Stall torque          | 4.780 mNm   |
| Stall current         | 2.860 A     |
| Max. efficiency       | 60.600 %    |
| Torque constant       | 1.780 mNm/A |
| Speed constant        | 5374 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 POLES BRUSHLESS DC MOTORS WITH INTEGRATED ELECTRONICS

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|                          |                        |
|--------------------------|------------------------|
| Speed/torque gradient    | 6350.00 rpm/mNm        |
| Mechanical time constant | 11.300 ms              |
| Rotor inertia            | 0.200 gcm <sup>2</sup> |

The benefits of this technology join the simplicity of use of a brushed DC motor with the longevity of a brushless motor, maintaining cost-effectiveness 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.



### Advantages

Winding technology without metal bodies

Good heat dissipation and high overload capacity

Long life expectancy

Integrated electronic drive



### Benefits

Light and compact, easy integration

High reliability

Good return on investment



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