



Slotless BLDC motor

High Speed - Long Lifespan - Cost Effective Low Inertia - High Efficiency - Low Noise - High Reliability

 Feature

| SVTN A 02-1644-36-S-O |              |
|-----------------------|--------------|
| Nominal voltage       | 36 V         |
| No load speed         | 30160 rpm    |
| No load current       | 76 mA        |
| Nominal speed         | 27632 rpm    |
| Nominal torque        | 7.500 mNm    |
| Nominal current       | 0.740 A      |
| Stall torque          | 89.500 mNm   |
| Stall current         | 8.000 A      |
| Max. efficiency       | 81.500 %     |
| Terminal resistance*  | 4.500 Ω      |
| Terminal inductance*  | 0.280 mH     |
| Torque constant       | 11.290 mNm/A |
| Speed constant        | 846 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.

# HIGH-SPEED BRUSHLESS DC MOTORS

SVTN A 02-1644-36-S-O

|                          |                        |
|--------------------------|------------------------|
| Speed/torque gradient    | 337.00 rpm/mNm         |
| Mechanical time constant | 2.900 ms               |
| Rotor inertia            | 0.820 gcm <sup>2</sup> |

Typically employed in the medical field for surgical tools, these motors merge the SVTN A Series characteristics to an optimized project for high-speed functions. Thanks to a precise balancing of the rotor and the use of special bearings, maximum stability, and low noise are guaranteed.

## Advantages

Winding technology without metal bodies

Good heat dissipation and high overload capacity

Long life expectancy

## Benefits

Light and compact, easy integration

High reliability

Good return on investment



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