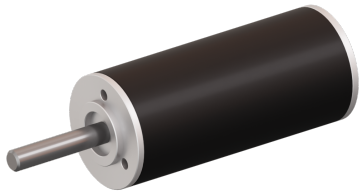

Slotless BLDC motor

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

## Feature

| | SVTN A 02-1636-30-S-O |
|---|---|
| Nominal voltage | 30 V |
| No load speed | 40225 rpm |
| No load current | 77 mA |
| Nominal speed | 36958 rpm |
| Nominal torque | 5.000 mNm |
| Nominal current | 0.790 A |
| Stall torque | 61.600 mNm |
| Stall current | 8.800 A |
| Max. efficiency | 82.200 % |
| Terminal resistance* | 3.410 Ω |
| Terminal inductance* | 0.170 mH |
| Torque constant | 7.060 mNm/A |
| Speed constant | 1353 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.

| | SVTN A 02-1636-30-S-O |
|---|---|
| Speed/torque gradient | 653.00 rpm/mNm |
| Mechanical time constant | 3.800 ms |
| Rotor inertia | 0.550 gcm² |

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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