

**Winding Type** $\odot\odot$

-P

Coil Dependent Parameters

Phase/phase resistance	ohm	8.2
Phase/phase inductance	mH	0.33
Back-EMF constant	V/1000 rpm	0.59
Torque Constant	mNm/A (oz.-in/A)	5.63 (0.80)

Dynamic Parameters

Rated Voltage	V	5.0
No-load Current	A	0.071
No-load Speed	rpm	7500
Max. continuous stall torque	mNm (oz-in)	3.0 (0.43)
Max. continuous stall current	A	0.60
Max. continuous torque at 10 krpm	mNm (oz-in)	2.8 (0.40)
Max. continuous current at 10 krpm	A	0.57
Max. continuous power at 10 krpm	W	3.0

Intrinsic Parameters

Motor constant	mNm/W ^{1/2} (oz-in/W ^{1/2})	2.0 (0.28)
Rotor inertia	kgm ² 10 ⁻⁷	17.7
Mechanical time constant	ms	457
Electrical time constant	ms	0.04
Thermal resistance	°C/W	24

- Motor with preloaded ball bearings
- Typical preload = 3.5 N
- Maximum external load:
 - axial static 50 N
 - axial dynamic 5 N
 - radial dynamic 10 N
- Operating temperature range: -0°C to +70°C
- Max. rated coil temperature: 125°C
- Rotor not balanced
- Integrated electronic commutation
- Warning: an incorrect supply voltage polarity may damage the electronic circuitry!
 - 1) The motor supply voltage may vary between 2.5 V and 10 V. The use of Mosfets in the power stage provides a very low voltage drop.
 - 2) The logic supply voltage may vary between 5 V and 10 V. By connecting pin 2 and pin 5 together, the motor becomes a two-wire version identical to a DC motor. In this case, the supply voltage may only vary between 5 V and 10 V.
 - 3) A square wave voltage with one pulse per revolution is available on pin 6
 - 4) Pins 3 and 4 have pull up resistor of 120 kohm.

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