

2018RCN

Precious metal commutation

Applications: Precision driving field in medical, health care, automobile, industrial automation, etc.

Characteristics

			-1P-7.4	-6P-12.0
1	Voltage	V	6.0	12.0
2	Terminal resistance	Ω	1.8	11.7
3	No-load speed	rpm	9350	10000
4	No-load current	mA	30	15
5	Stall torque	mNm	20.7	11.3
6	Stall current	mA	3400	1000
7	Nominal torque	mNm	4.5	4.0
8	Nominal speed	rpm	7290	6550
9	Nominal current	mA	760	360
10	Max. output power	W	5.1	3.0
11	Max. efficiency	%	83	78
12	Back-EMF constant	mV/rpm	0.6	1.2
13	Torque constant	mNm/A	6.1	11.3
14	Speed/torque gradient	rpm/mNm	450	890
15	Rotor inertia	gcm ²	1.1	1.1
16	Weight	g	26	26
17	Thermal resistance housing-ambient	K/W	22.2	
18	Thermal resistance winding-housing	K/W	13.7	
19	Thermal time constant motor	s	178	
20	Thermal time constant winding	s	8	
21	Operating temperature range	°C	-20~+85	
22	Max. winding temperature	°C	85	
23	Axial play	mm	0.02~0.15	
24	Radial play	mm	0.014	
25	Axial load dynamic	N	0.8	
26	Axial load static	N	30	
27	Radial load at 3 mm from mounting face	N	1.4	
28	No. of pole pairs		1	
29	Bearings		2 sleeve bearings	
30	Commutator		metal 5 segments	
31	Protection class		IP 30	

Options

- Lead wires length
- Shaft length
- Special coils
- Gearheads

Outline Drawing

