

PRECISION DC CORELESS MOTOR

1627RCN**C

Precious metal commutation

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

Characteristics			-7-4.5	-13-6.0	-14-12.0
1	Voltage	V	4.5	6.0	12.0
2	Terminal resistance	Ω	1.5	2.0	8.5
3	No-load speed	rpm	10100	10000	10000
4	No-load current	mA	45	35	35
5	Stall torque	mNm	12.6	17.0	15.6
6	Stall current	mA	3000	3000	1400
7	Nominal torque	mNm	4.5	4.5	4.5
8	Nominal speed	rpm	6410	7350	7150
9	Nominal current	mA	1120	820	420
10	Max. output power	W	3.33	4.45	4.10
11	Max. efficiency	%	78	81	73
12	Back-EMF constant	mV/rpm	0.4	0.6	1.2
13	Torque constant	mNm/A	4.2	5.7	11.2
14	Speed/torque gradient	rpm/mNm	800	590	640
15	Rotor inertia	gcm ²	0.6	0.6	0.7
16	Weight	g	25	25	25
17	Thermal resistance housing-ambient	K/W		29	
18	Thermal resistance winding-housing	K/W		18.9	
19	Thermal time constant motor	s		195	
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
- Encoder
- Bearing type

Outline Drawing

