

PRECISION DC CORELESS MOTOR

1230RCN

Precious metal commutation

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

Characteristics

			-6-5.3	-15P-12.0	-17P-24.0
1	Voltage	V	5.3	12.0	24.0
2	Terminal resistance	Ω	12.9	10.4	59.0
3	No-load speed	rpm	4450	11300	10800
4	No-load current	mA	10	15	5
5	Stall torque	mNm	4.5	11.5	8.6
6	Stall current	mA	410	1150	410
7	Nominal torque	mNm	0.9	3.0	3.7
8	Nominal speed	rpm	3450	7900	5990
9	Nominal current	mA	110	385	185
10	Max. output power	W	0.5	3.4	2.4
11	Max. efficiency	%	73	80	80
12	Back-EMF constant	mV/rpm	1.2	1.0	2.2
13	Torque constant	mNm/A	11.1	10.0	21.0
14	Speed/torque gradient	rpm/mNm	980	980	1260
15	Rotor inertia	gcm ²	0.25	0.25	0.25
16	Weight	g	17.7	17.7	17.7
17	Thermal resistance housing-ambient	K/W		28.8	
18	Thermal resistance winding-housing	K/W		24	
19	Thermal time constant motor	s		135	
20	Thermal time constant winding	s		20	
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 40	

Options

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

Outline Drawing

