

PRECISION DC CORELESS MOTOR

1025RCN

Precious metal commutation

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

Characteristics

			-1S-12.0	
1	Voltage	V	12.0	
2	Terminal resistance	Ω	28.0	
3	No-load speed	rpm	11500	
4	No-load current	mA	10	
5	Stall torque	mNm	4.2	
6	Stall current	mA	430	
7	Nominal torque	mNm	2.1	
8	Nominal speed	rpm	5520	
9	Nominal current	mA	230	
10	Max. output power	W	1.3	
11	Max. efficiency	%	74	
12	Back-EMF constant	mV/rpm	1.0	
13	Torque constant	mNm/A	9.7	
14	Speed/torque gradient	rpm/mNm	2700	
15	Rotor inertia	gcm ²	0.09	
16	Weight	g	7	
17	Thermal resistance housing-ambient	K/W	37.9	
18	Thermal resistance winding-housing	K/W	9.2	
19	Thermal time constant motor	s	85	
20	Thermal time constant winding	s	8	
21	Operating temperature range	°C	-20~+85	
22	Max. winding temperature	°C	85	
23	Axial play	mm	≤ 0.15	
24	Radial play	mm	0.012	
25	Axial load dynamic	N	0.15	
26	Axial load static	N	15	
27	Radial load at 3 mm from mounting face	N	0.4	
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
- Encoder

Outline Drawing

