

PRECISION DC CORELESS MOTOR

2543RCG

Graphite Brush

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

Characteristics

			-3-24.0	
1	Voltage	V	24.0	
2	Terminal resistance	Ω	6.3	
3	No-load speed	rpm	6300	
4	No-load current	mA	25	
5	Stall torque	mNm	137.7	
6	Stall current	mA	3810	
7	Nominal torque	mNm	37.6	
8	Nominal speed	rpm	4570	
9	Nominal current	mA	1070	
10	Max. output power	W	22.7	
11	Max. efficiency	%	85	
12	Back-EMF constant	mV/rpm	3.8	
13	Torque constant	mNm/A	36.1	
14	Speed/torque gradient	rpm/mNm	45.8	
15	Rotor inertia	gcm^2	13.2	
16	Weight	g	98	
17	Thermal resistance housing-ambient	K/W	13.1	
18	Thermal resistance winding-housing	K/W	9.6	
19	Thermal time constant motor	s	240	
20	Thermal time constant winding	s	9	
21	Operating temperature range	$^{\circ}\text{C}$	-20~+100	
22	Max. winding temperature	$^{\circ}\text{C}$	120	
23	Axial play	mm	0.025	
24	Radial play	mm	0.02-0.15	
25	Axial load dynamic	N	20	
26	Axial load static	N	60	
27	Radial load at 3 mm from mounting face	N	40	
28	No. of pole pairs		1	
29	Bearings		2 ball bearings	
30	Commutator		metal 9 segments	
31	Protection class		IP 20	

Options

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

Outline Drawing

