

2050ZWWN

Inner Rotor Without Sensor

Applications: Precision driving field in medical equipment, industrial automation, etc.

Characteristics

			-3-12.0	
1	Voltage	V	12	
2	Terminal resistance	Ω	4.5	
3	No-load speed	rpm	6000	
4	No-load current	A	0.16	
5	Nominal torque	mNm	24.0	
6	Nominal speed	rpm	2800	
7	Nominal current	A	1.5	
8	Max. output power	W	7.1	
9	Max. efficiency	%	57	
10	Back-EMF constant	mV/rpm	1.9	
11	Torque constant	mNm/A	18	
12	KV Value	rpm/V	500	
13	Speed/torque gradient	rpm/mNm	135	
14	Rotor inertia	gcm ²	2.3	
15	Weight	g	75	
16	Thermal resistance housing-ambient	K/W	8.6	
17	Thermal resistance winding-housing	K/W	9.2	
18	Thermal time constant motor	s	620	
19	Thermal time constant winding	s	4	
20	Operating temperature range	°C	-40~+100	
21	Max. winding temperature	°C	155	
22	Axial play	mm	0.012	
23	Radial play	mm	0.008	
24	Axial load dynamic	N	5	
25	Axial load static	N	80	
26	Radial load at 3 mm from mounting face	N	29	
27	No. of pole pairs		1	
28	Bearings		2 ball bearings	
29	Commutation		Sensorless	
30	Protection class		IP 20	

Options

- Lead wires length
- Shaft length
- Special coils
- Gearheads
- Bearing type
- Hall sensor
- Encoder
- Driver

Outline Drawing

