

1230ZWWN

Inner Rotor Without Sensor

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

Characteristics

			-14-12.0	-10-9.0	-15-3.7
1	Voltage	V	12	9	3.7
2	Terminal resistance	Ω	9	2.4	0.6
3	No-load speed	rpm	11500	18000	18000
4	No-load current	A	0.05	0.15	0.23
5	Nominal torque	mNm	5.9	4.8	3.6
6	Nominal speed	rpm	6000	12800	12800
7	Nominal current	A	0.67	1.2	2.2
8	Max. output power	W	3.7	7.8	5.9
9	Max. efficiency	%	65	64	67
10	Back-EMF constant	mV/rpm	1.0	0.5	0.2
11	Torque constant	mNm/A	9.6	4.6	1.9
12	KV Value	rpm/V	960	2000	4860
13	Speed/torque gradient	rpm/mNm	930	1090	1430
14	Rotor inertia	gcm ²	0.21	0.21	0.21
15	Weight	g	15	15	15
16	Thermal resistance housing-ambient	K/W	21.6	21.6	21.6
17	Thermal resistance winding-housing	K/W	23	23	23
18	Thermal time constant motor	s	240	240	240
19	Thermal time constant winding	s	2	2	2
20	Operating temperature range	$^{\circ}\text{C}$	-40~+100	-40~+100	-40~+100
21	Max. winding temperature	$^{\circ}\text{C}$	155	155	155
22	Axial play	mm	0.012	0.012	0.012
23	Radial play	mm	0.008	0.008	0.008
24	Axial load dynamic	N	1	1	1
25	Axial load static	N	25	25	25
26	Radial load at 3 mm from mounting face	N	6.3	6.3	6.3
27	No. of pole pairs		1	1	1
28	Bearings		2 ball bearings		
29	Commutation		Sensorless		
30	Protection class		IP 30		

Options

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

Outline Drawing

UNIT:mm

