

BRUSHLESS DC MOTOR

1215ZWWN

Inner Rotor Without Sensor

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

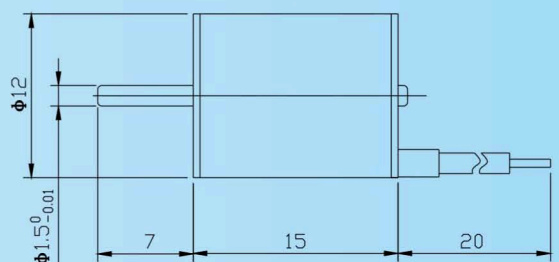
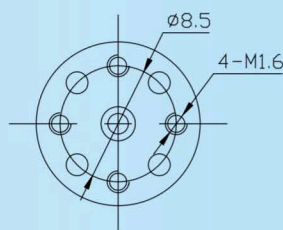
Characteristics

			-9-3.6	-6-3.6	-12-7.4
1	Voltage	V	3.6	4.5	7.4
2	Terminal resistance	Ω	0.67	5.2	2.6
3	No-load speed	rpm	35000	14500	42500
4	No-load current	A	0.3	0.1	0.2
5	Nominal torque	mNm	1.2	1.5	0.8
6	Nominal speed	rpm	26000	3600	34000
7	Nominal current	A	1.6	0.7	0.7
8	Max. output power	W	4.3	0.8	4.6
9	Max. efficiency	%	58	44	54
10	Back-EMF constant	mV/rpm	0.10	0.27	0.16
11	Torque constant	mNm/A	0.93	2.62	1.55
12	KV Value	rpm/V	9720	3220	5740
13	Speed/torque gradient	rpm/mNm	7440	7230	10400
14	Rotor inertia	gcm ²	0.14	0.14	0.14
15	Weight	g	7	7	7
16	Thermal resistance housing-ambient	K/W	38	38	38
17	Thermal resistance winding-housing	K/W	40	40	40
18	Thermal time constant motor	s	170	170	170
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 20		

Options

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

Outline Drawing



UNIT:mm