

# 1220RCN

## Precious metal commutation

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

Characteristics			-26-3.3	-27-6.0	-43P-12.0
1	Voltage	V	3.3	6.0	12.0
2	Terminal resistance	Ω	6.9	5.2	17.9
3	No-load speed	rpm	7900	12000	14100
4	No-load current	mA	12	30	8
5	Stall torque	mNm	1.9	5.3	5.4
6	Stall current	mA	480	1150	670
7	Nominal torque	mNm	0.4	2.3	2.1
8	Nominal speed	rpm	6000	6960	8600
9	Nominal current	mA	120	490	270
10	Max. output power	W	0.4	1.7	2.0
11	Max. efficiency	%	73	72	80
12	Back-EMF constant	mV/rpm	0.4	0.5	0.8
13	Torque constant	mNm/A	3.9	4.7	8.0
14	Speed/torque gradient	rpm/mNm	4200	2200	2600
15	Rotor inertia	gcm <sup>2</sup>	0.15	0.15	0.15
16	Weight	g	10	10	10
17	Thermal resistance housing-ambient	K/W		45	
18	Thermal resistance winding-housing	K/W		25	
19	Thermal time constant motor	s		92	
20	Thermal time constant winding	s		15	
21	Operating temperature range	°C		-20 ~ +85	
22	Max. winding temperature	°C		85	
23	Axial play	mm		0.02 ~ 0.15	
24	Radial play	mm		0.025	
25	Axial load dynamic	N		0.8	
26	Axial load static	N		30	
27	Radial load at 3 mm from mounting face	N		4	
28	No. of pole pairs			1	
29	Bearings			2 ball bearings	
30	Commutator			metal 5 segments	
31	Protection class			IP 40	

### Options

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

### Outline Drawing

