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R & D manufacturer of industrial precision coreless motor

Company introduction

Langyi is dedicated to the R&D and manufacture of high-level coreless motors (Replace Maxon & Faulhaber).

We have a strong R&D team and the manufacturing capability. Having a professional coreless motor production line, We are sure to help you build an outstanding efficient transmission system with our technical innovation and customized services. Our micro drive solutions are widely used in aviation, tools, medical, robotics, automation, security door lock, security door, and other fields, promoting the development of key application systems around the world.

With over 10 years' experience in the field of precision coreless motor technology, we have launched 10 mm ~ 46 mm series, with unparalleled speed torque performance, high power density brush/brushless dc coreless motor, and constantly meet all kinds of transmission in the field of industrial control requirements. We have a complete product development network, provide flexible solutions for a wide variety of industrial automation occasions.

Our advantages: full size, excellent performance, low noise, high temperature resistance, low heat, long lifetime, good stability etc.

Accurate Selection : We provide the industry's most complete coreless motor products, including brush motors, brushless dc motors, dc brushless drives, reducers and encoders, and choose the best power solution for your industrial equipment and application.

Efficient & Reliable : Our modern management ensures the consistency and efficiency of our production. At the same time, we have a strict quality control system to ensure that we provide durable, efficient high-quality motor products, and the very low repair rate.

Intimate Customization: Whether it is a brushless dc motor solution combination or a brushed dc coreless motor with gearbox and encoder, we can develop or modify standard products to meet your specific requirements.

Quick Cooperation : Worrying about the design cycle? We can provide the fastest delivery time (which can be shorted to 1-2 weeks) in this area and solve any complex micro power challenges with fast, accurate and more effective solutions.

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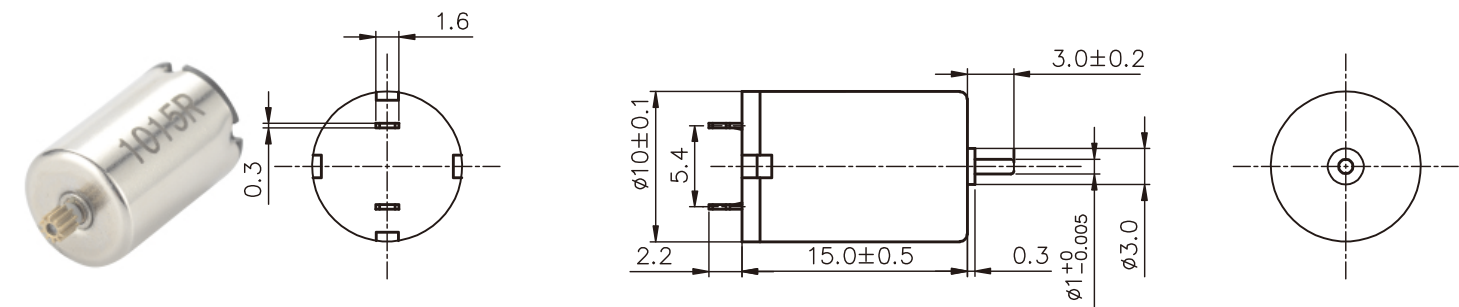
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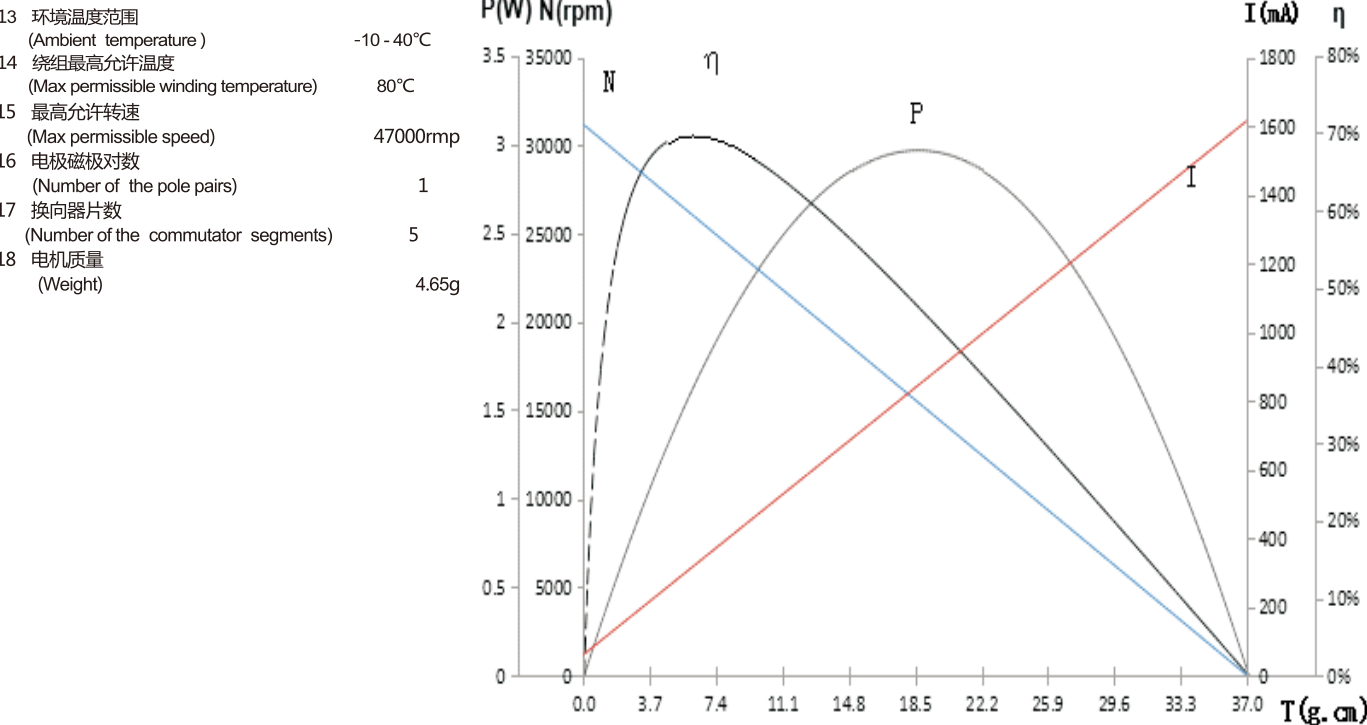
1015R Coreless Brush Motor



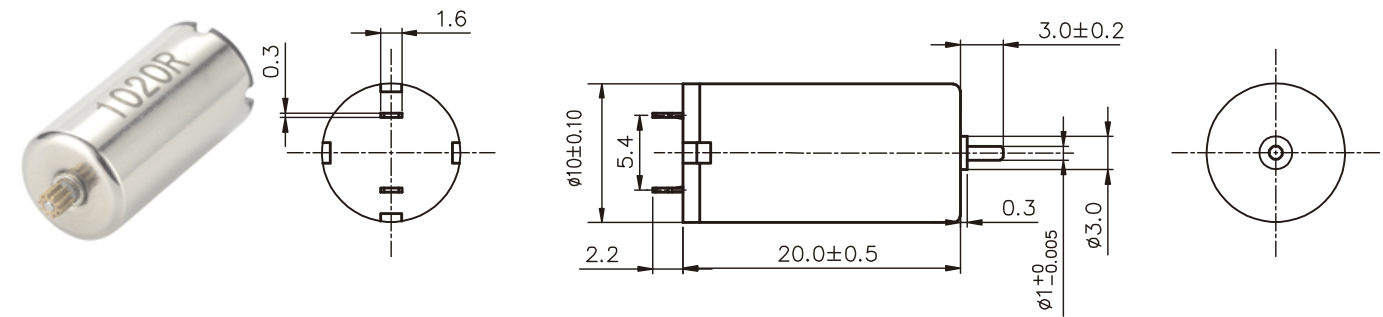
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		02A	01A	03A12	04A		
额定电压下数值(Values at nominal voltage)							
1 额定电压 (Nominal voltage)	v	5.0	7.4	7.4	7.4		
2 空载转速 (No load speed)	rpm	25000	31200	44860	26000		
3 空载电流 (No load current)	mA	52	60	78	38		
4 额定转速 (Nominal speed)	rpm	20000	26988	34776	22100		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	0.5	0.5	1	0.5		
6 额定电流 (最大连续电流) (Nominal current)	A	0.30	0.27	0.70	1.17		
7 堵转转矩 (Stall torque)	mNm	2.46	3.60	4.44	3.31		
8 堵转电流 (Stall current)	A	1.32	1.64	2.88	1.24		
9 最大效率 (Max efficiency)	%	69	70	74	72		
电机常数 (Motor constant)							
10 相间电阻 (Terminal resistance)	Ω	3.80	4.50	2.57	5.95		
11 转矩常数 (Torque constant)	mNm/A	1.87	2.22	1.54	2.66		
12 速度常数 (Speed constant)	rpm / V	5000	4216	6062	3514		

其它特性参数Other characteristic parameters 01A电机曲线图



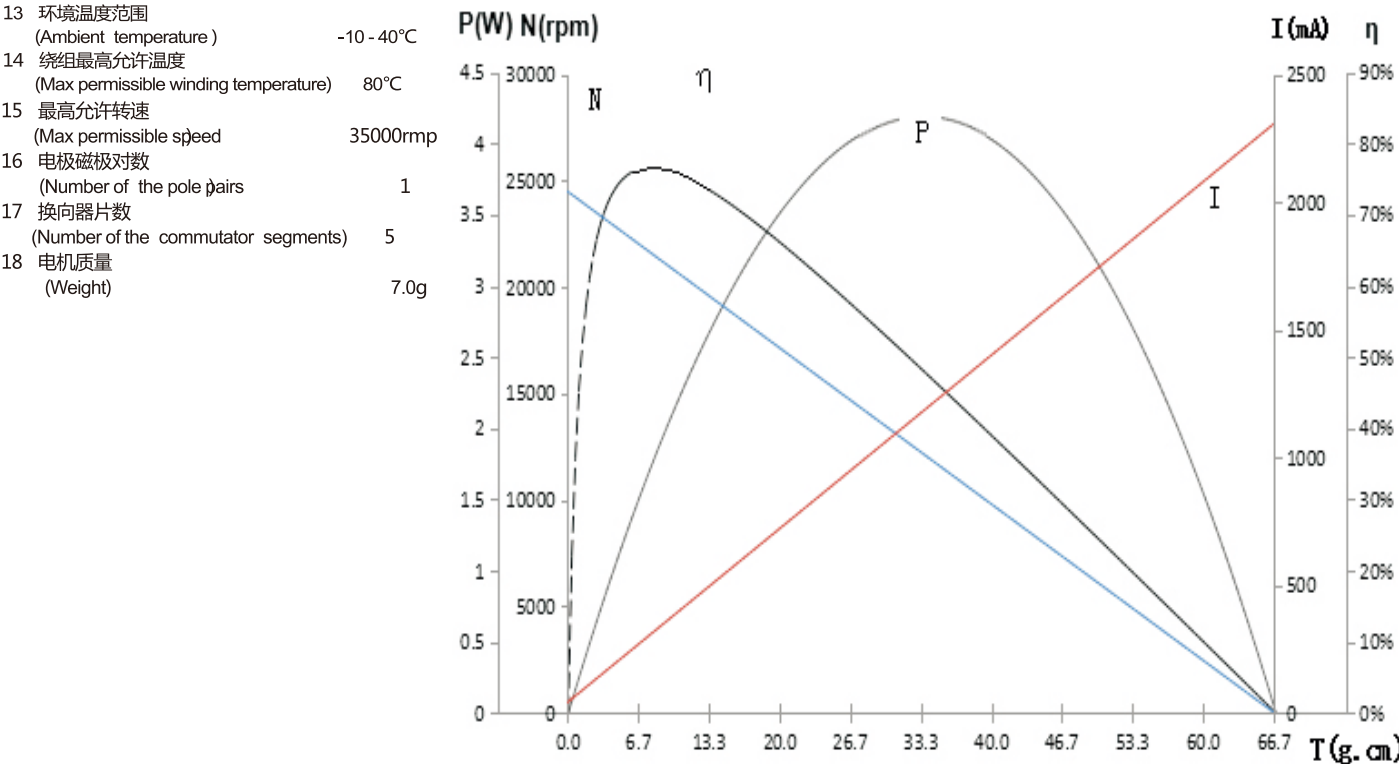
1020R Coreless Brush Motor



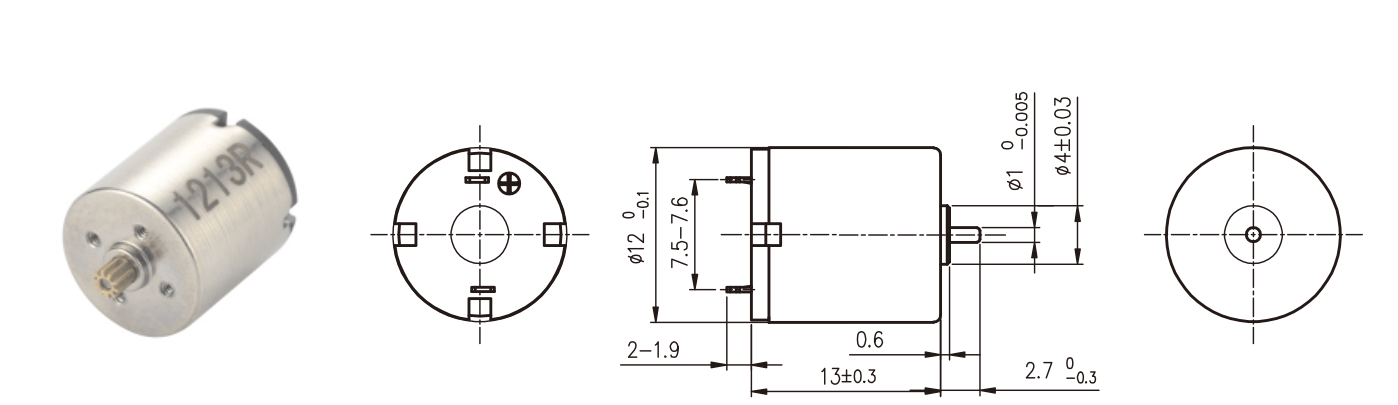
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		01A	02A				
额定电压下数值(Values at nominal voltage)							
1 额定电压 (Nominal voltage)	v	7.4	7.4				
2 空载转速 (No load speed)	rpm	24500	27500				
3 空载电流 (No load current)	mA	40	40				
4 额定转速 (Nominal speed)	rpm	20825	23375				
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	1	1				
6 额定电流 (最大连续电流) (Nominal current)	A	0.38	0.42				
7 堵转转矩 (Stall torque)	mNm	6.64	6.54				
8 堵转电流 (Stall current)	A	2.35	2.60				
9 最大效率 (Max efficiency)	%	78	79				
电机常数 (Motor constant)							
10 相间电阻 (Terminal resistance)	Ω	3.15	2.85				
11 转矩常数 (Torque constant)	mNm/A	2.83	2.52				
12 速度常数 (Speed constant)	rpm / V	3311	3716				

其它特性参数Other characteristic parameters 01A电机曲线图



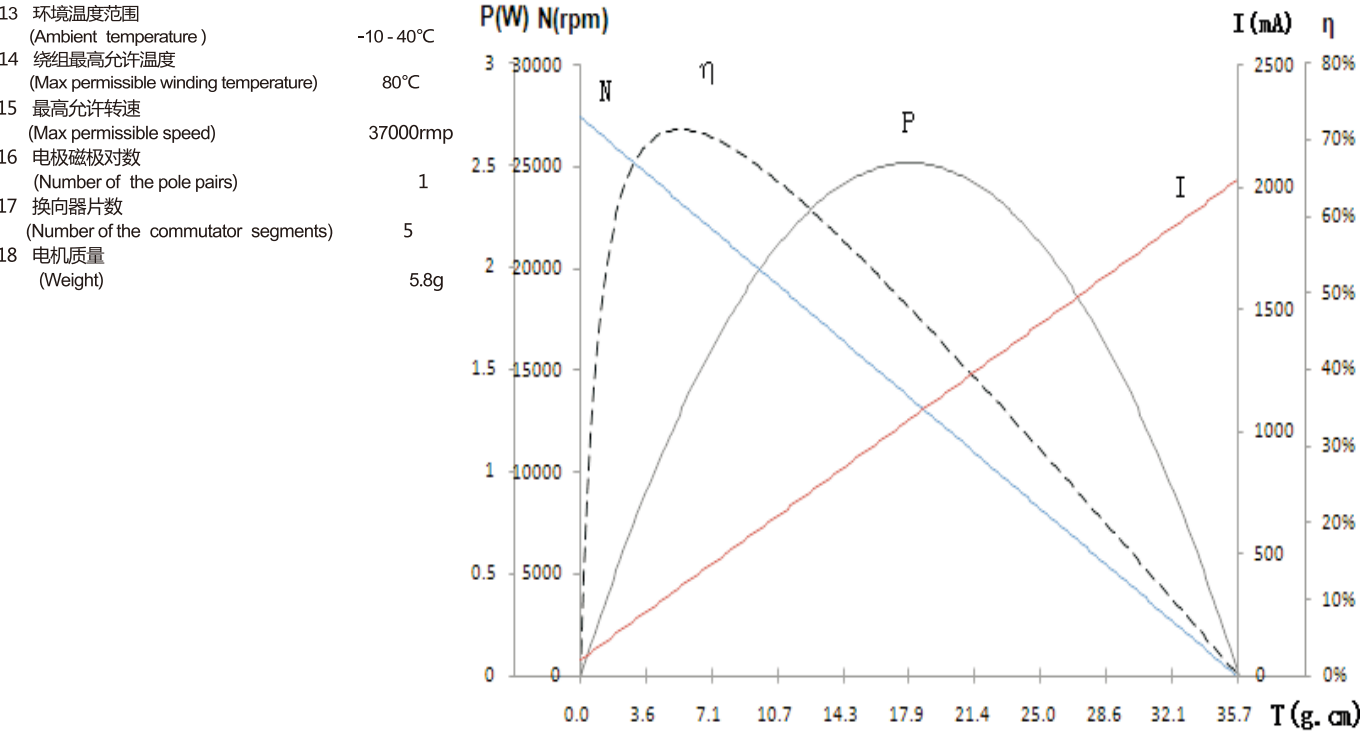
1213R Coreless Brush Motor



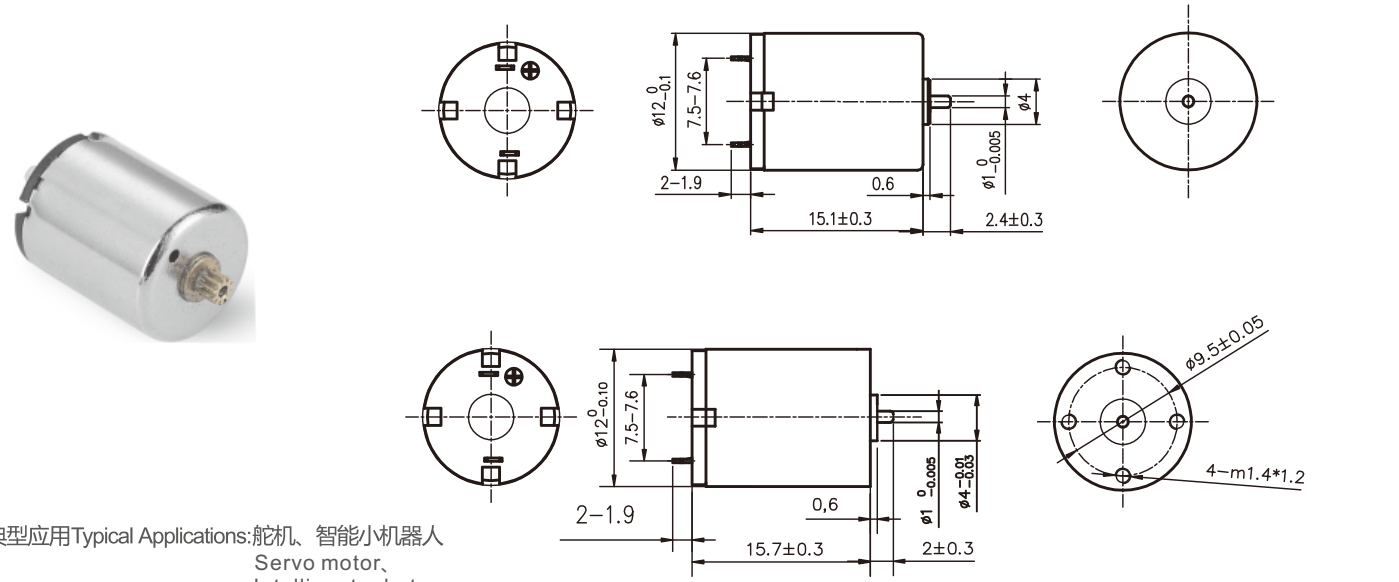
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		03AL2	01A	04A	03A	02A	
额定电压下数值(Values at nominal voltage)							
1 额定电压 (Nominal voltage)	v	5	6	6	7.4	7.4	
2 空载转速(No load speed)	rpm	27420	30000	33500	17200	22250	
3 空载电流(No load current)	mA	65	50	62	30	30	
4 额定转速(Nominal speed)	rpm	23580	23550	26800	13500	16780	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	0.50	0.40	0.50	0.50	0.50	
6 额定电流 (最大连续电流) (Nominal current)	A	0.34	0.25	0.34	0.14	0.18	
7 堵转转矩 (Stall torque)	mNm	3.52	1.84	2.45	2.23	2.02	
8 堵转电流(Stall current)	A	2.07	0.98	1.46	0.56	0.65	
9 最大效率(Max efficiency)	%	72	66	68	66	67	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	2.42	6.1	4.1	13.3	11.36	
11 转矩常数(Torque constant)	mNm/A	1.71	1.87	1.68	4.03	3.11	
12 速度常数(Speed constant)	rpm / V	5484	5000	5583	2324	3007	

其它特性参数Other characteristic parameters 03AL2电机曲线图



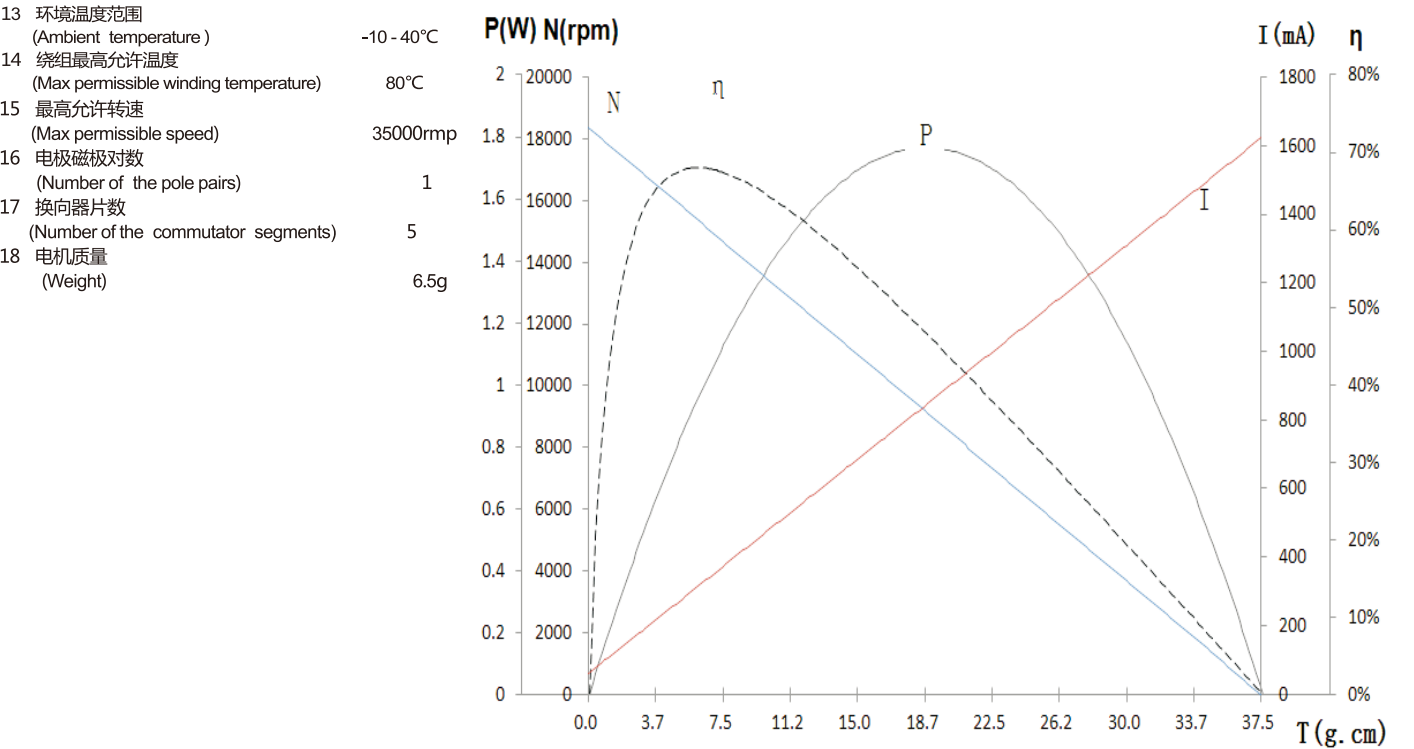
1215R Coreless Brush Motor



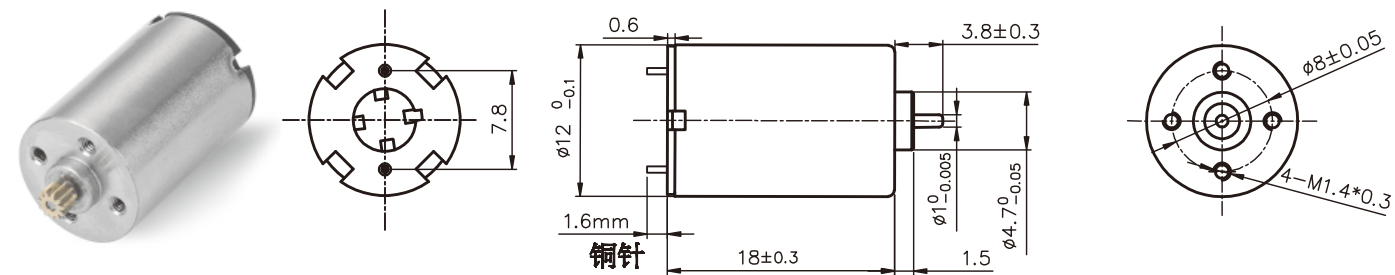
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		01A	06A	21A	18A	54A	
额定电压下数值(Values at nominal voltage)							
1 额定电压 (Nominal voltage)	v	4.5	4.5	7.4	7.4	12	
2 空载转速(No load speed)	rpm	18360	21000	28000	21000	31000	
3 空载电流(No load current)	mA	60	60	60	30	40	
4 额定转速(Nominal speed)	rpm	15422	17745	23800	18585	27900	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	0.59	0.59	0.78	0.50	1.00	
6 额定电流 (最大连续电流) (Nominal current)	A	0.37	0.34	0.36	0.17	0.31	
7 堵转转矩 (Stall torque)	mNm	3.68	3.80	5.23	4.35	10.11	
8 堵转电流(Stall current)	A	1.61	1.88	2.11	1.32	2.79	
9 最大效率(Max efficiency)	%	70	71	73	75	79	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	2.80	2.40	3.50	5.60	4.30	
11 转矩常数(Torque constant)	mNm/A	2.29	2.00	2.47	3.30	3.62	
12 速度常数(Speed constant)	rpm / V	4080	4667	3784	2838	2583	

其它特性参数Other characteristic parameters 01A电机曲线图



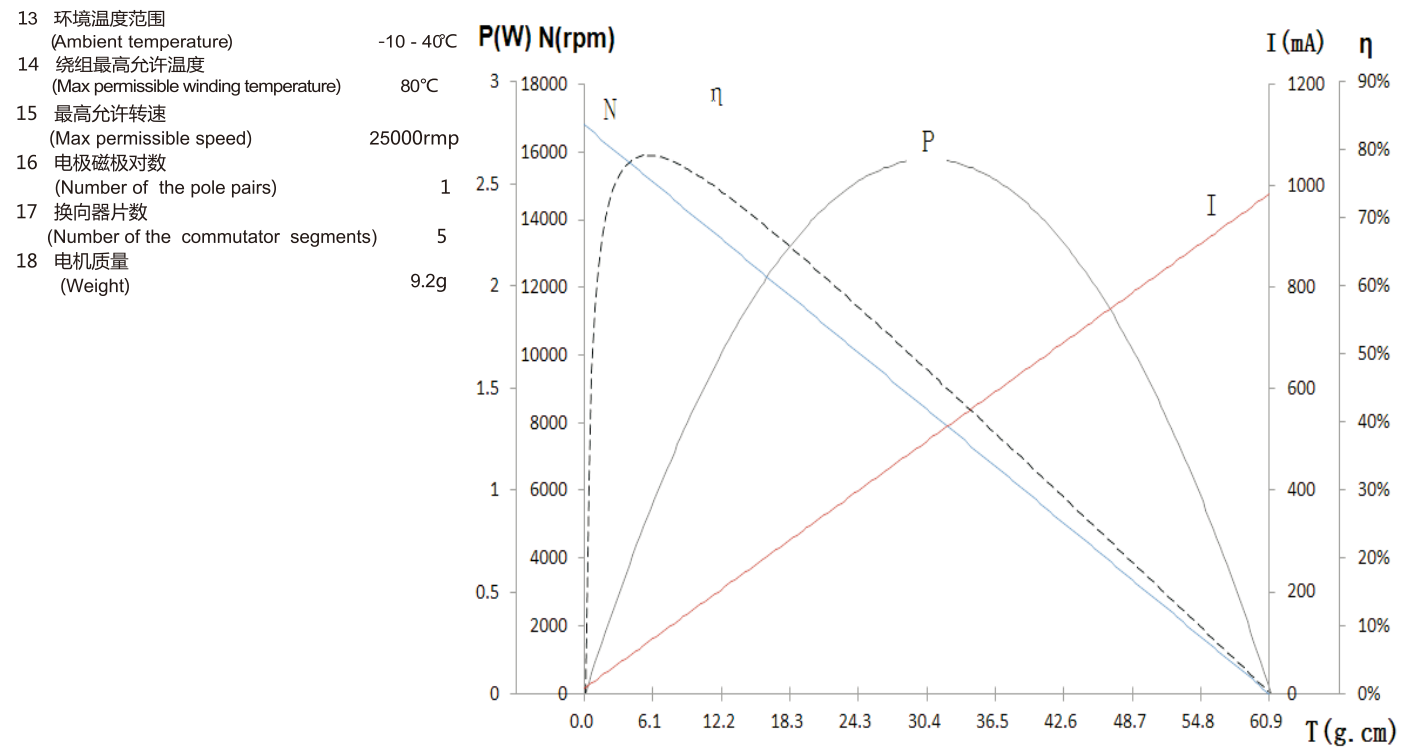
1218R Coreless Brush Motor



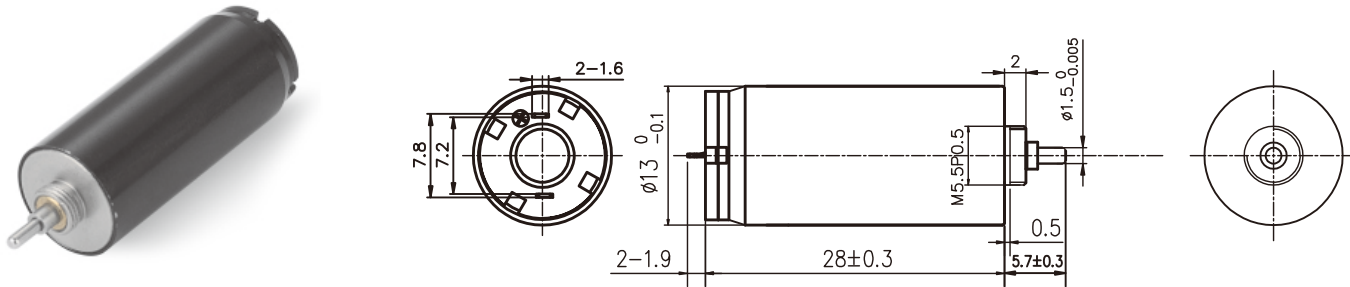
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		02A	01A	03A		
额定电压下数值(Values at nominal voltage)						
1	额定电压(Nomimal voltage)	V	11.1	11.1	11.1	
2	空载转速(No load speed)	rpm	16800	18500	21950	
3	空载电流(No load current)	mA	10	14.5	19	
4	额定转速(Nominal speed)	rpm	14868	15725	19425	
5	额定转矩 (最大连续转矩) (Nominal torque)	mNm	0.70	1.00	1.00	
6	额定电流 (最大连续电流) (Nominal current)	A	0.12	0.19	0.23	
7	堵转转矩(Stall torque)	mNm	6.13	6.71	8.80	
8	堵转电流(Stall current)	A	0.99	1.20	1.86	
9	最大效率(Max efficiency)	%	82	81	82	
电机常数(Motor constant)						
10	相间电阻(Terminal resistance)	Ω	11.20	9.28	5.97	
11	转矩常数(Torque constant)	mNm/A	6.20	5.62	4.73	
12	速度常数(Speed constant)	rpm / V	1513	1667	1977	

其它特性参数Other characteristic parameters 02A电机曲线图



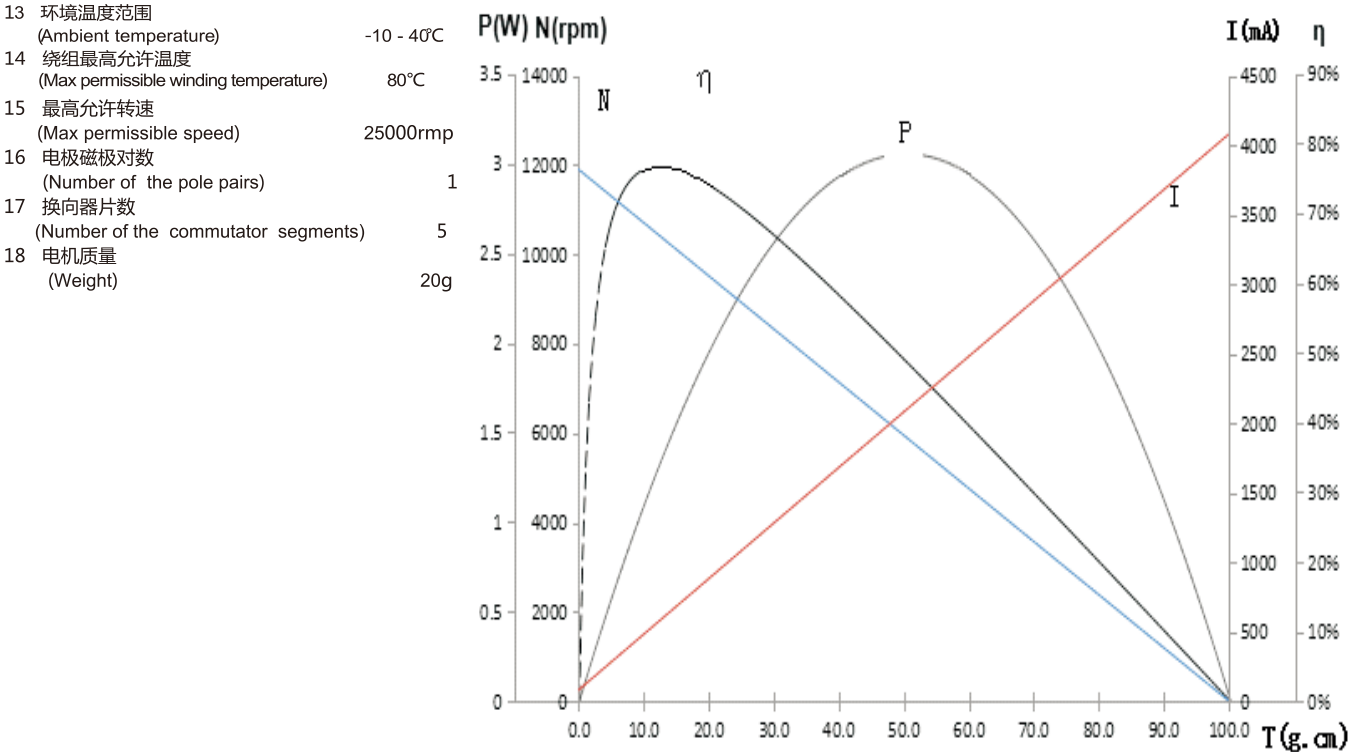
1328R Coreless Brush Motor

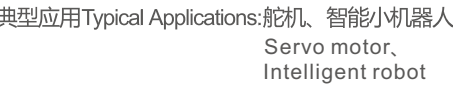


典型应用Typical Applications:舵机、智能小机器人
Servo motor
Intelligent robot

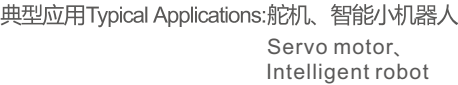
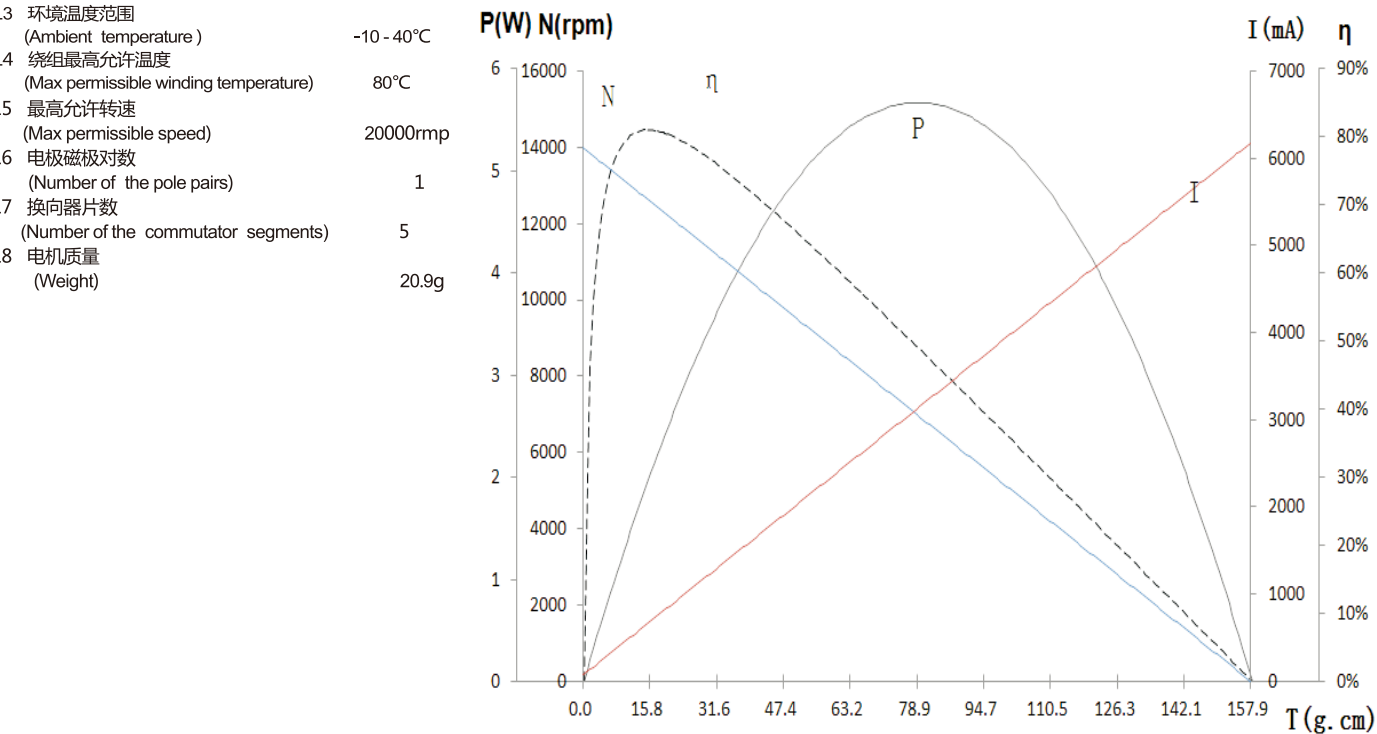
电机参数 (Motor data)		01A	02A	03A	04A		
额定电压下数值(Values at nominal voltage)							
1	额定电压(Nominal voltage)	v	3.0	3.0	3.0	3.0	
2	空载转速(No load speed)	rpm	11900	15000	17000	20500	
3	空载电流(No load current)	mA	80	71	100	140	
4	额定转速(Nominal speed)	rpm	10710	13400	15470	18450	
5	额定转矩 (最大连续转矩) (Nominal torque)	mNm	1	1	1	1	
6	额定电流 (最大连续电流) (Nominal current)	A	0.48	0.60	0.69	0.87	
7	堵转转矩(Stall torque)	mNm	9.83	9.68	11.01	10.27	
8	堵转电流(Stall current)	A	4.17	5.17	6.67	7.50	
9	最大效率(Max efficiency)	%	77	80	79	77	
电机常数(Motor constant)							
10	相间电阻(Terminal resistance)	Ω	0.72	0.58	0.45	0.40	
11	转矩常数(Torque constant)	mNm/A	2.36	1.87	1.65	1.37	
12	速度常数(Speed constant)	rpm / V	3967	5000	5667	6833	

其它特性参数Other characteristic parameters

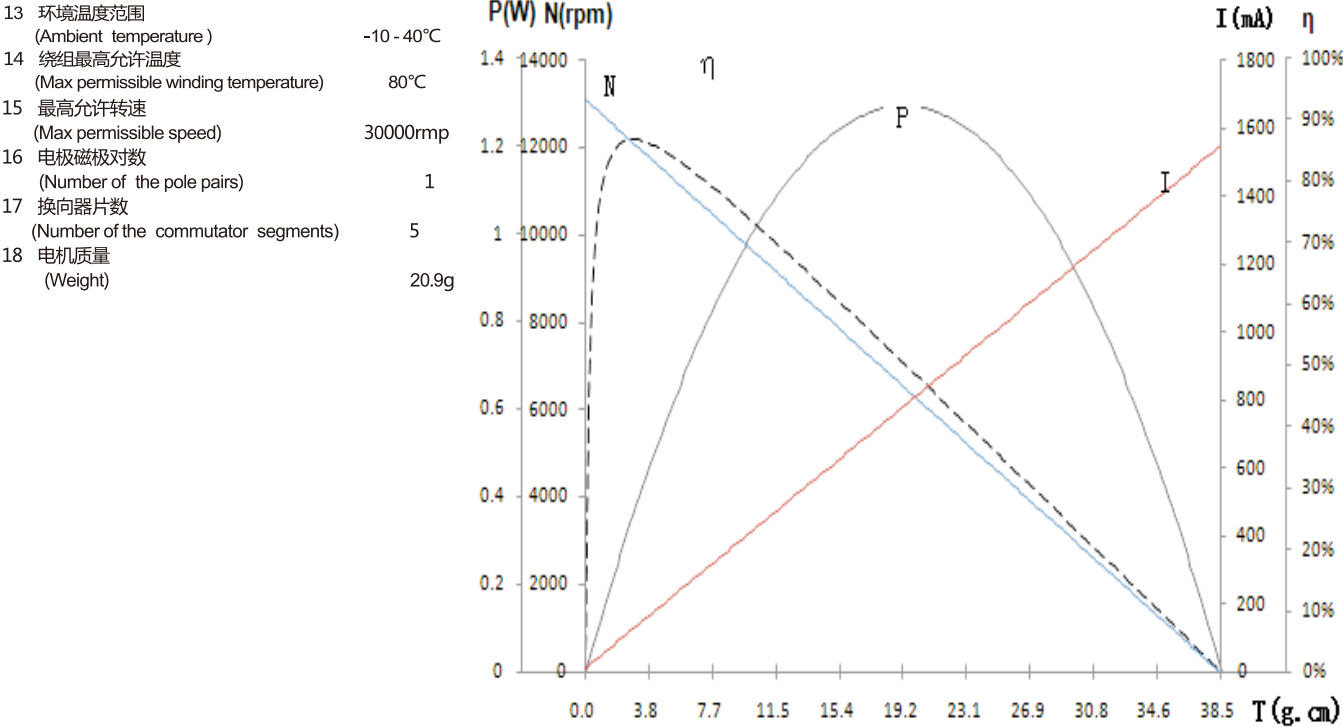




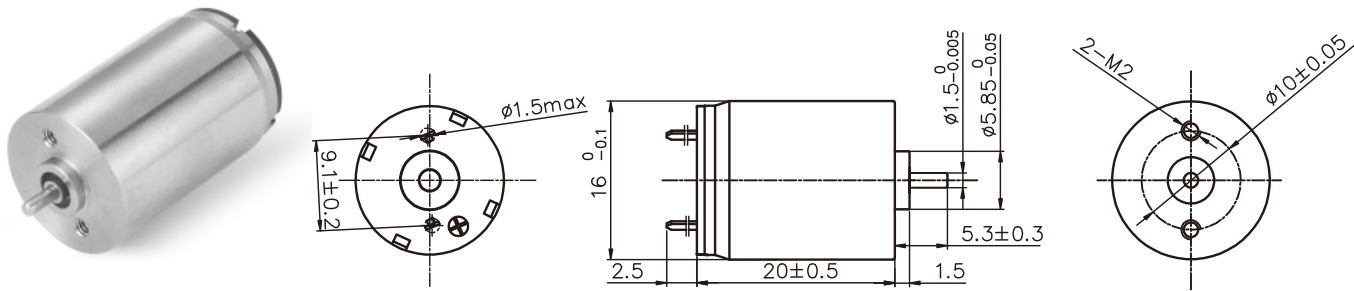
其它特性参数Other characteristic parameters 15A电机曲线图



其它特性参数Other characteristic parameters 05AL1电机曲线图



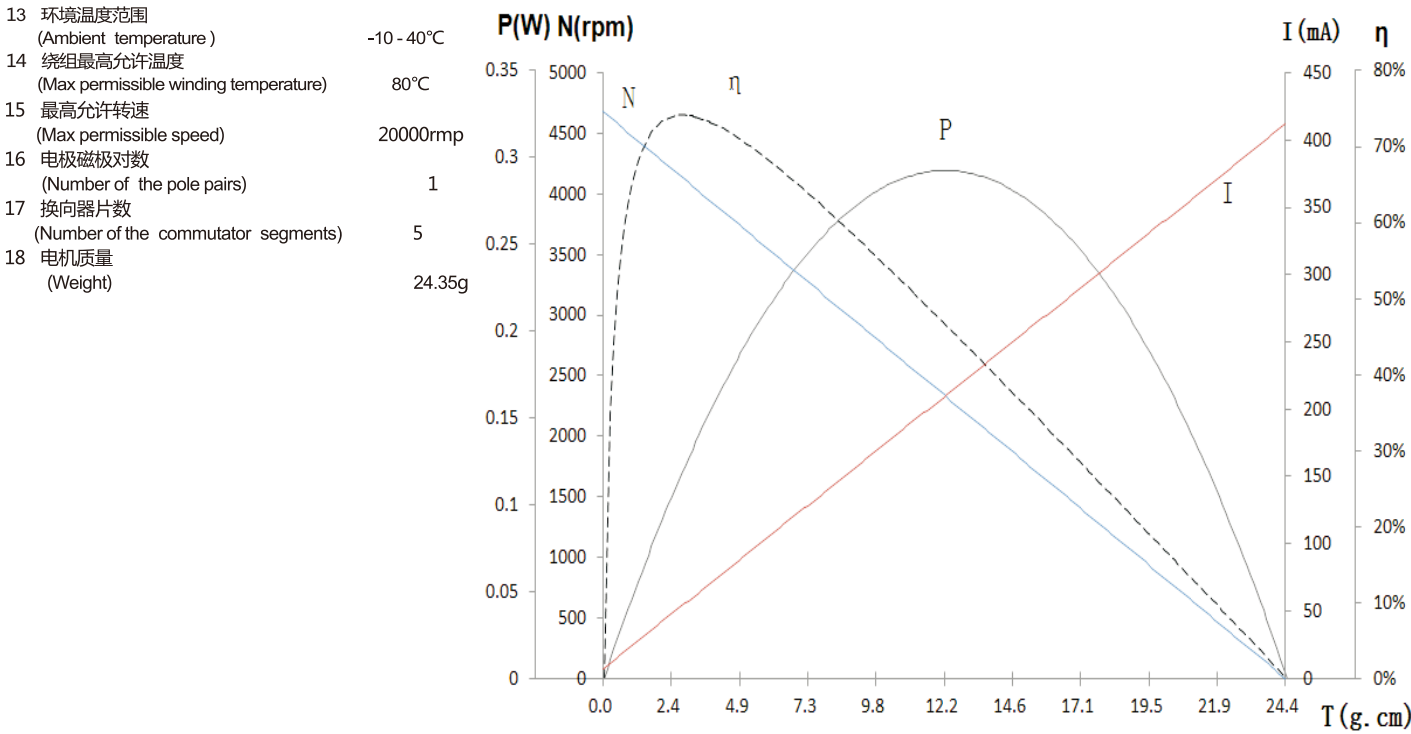
1620R Coreless Brush Motor



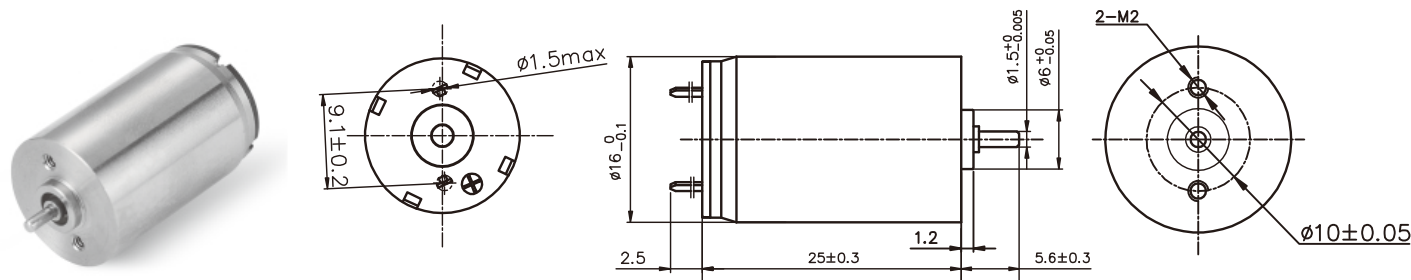
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		19A	31A	11A	34A	06A	01A
额定电压下数值(Values at nominal voltage)							
1 额定电压 (Nominal voltage)	v	3	4	4.5	8	12	24
2 空载转速(No load speed)	rpm	4680	7430	10800	10000	12500	12200
3 空载电流(No load current)	mA	10	20	35	15	23	10
4 额定转速(Nominal speed)	rpm	3720	6612	9774	9150	10750	10065
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	0.50	0.50	0.50	0.50	1.00	1.50
6 额定电流 (最大连续电流) (Nominal current)	A	0.09	0.11	0.15	0.08	0.13	0.08
7 堵转转矩(Stall torque)	mNm	2.40	4.50	5.30	6.00	7.09	8.50
8 堵转电流(Stall current)	A	0.40	0.89	1.36	0.80	0.79	0.46
9 最大效率(Max efficiency)	%	74	75	75	74	72	75
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	7.50	4.50	3.30	10	15.2	52
11 转矩常数(Torque constant)	mNm/A	6.00	5.04	3.90	7.49	8.99	18.42
12 速度常数(Speed constant)	rpm / V	1560	1857	2400	1250	1042	508

其它特性参数Other characteristic parameters 19A电机曲线图



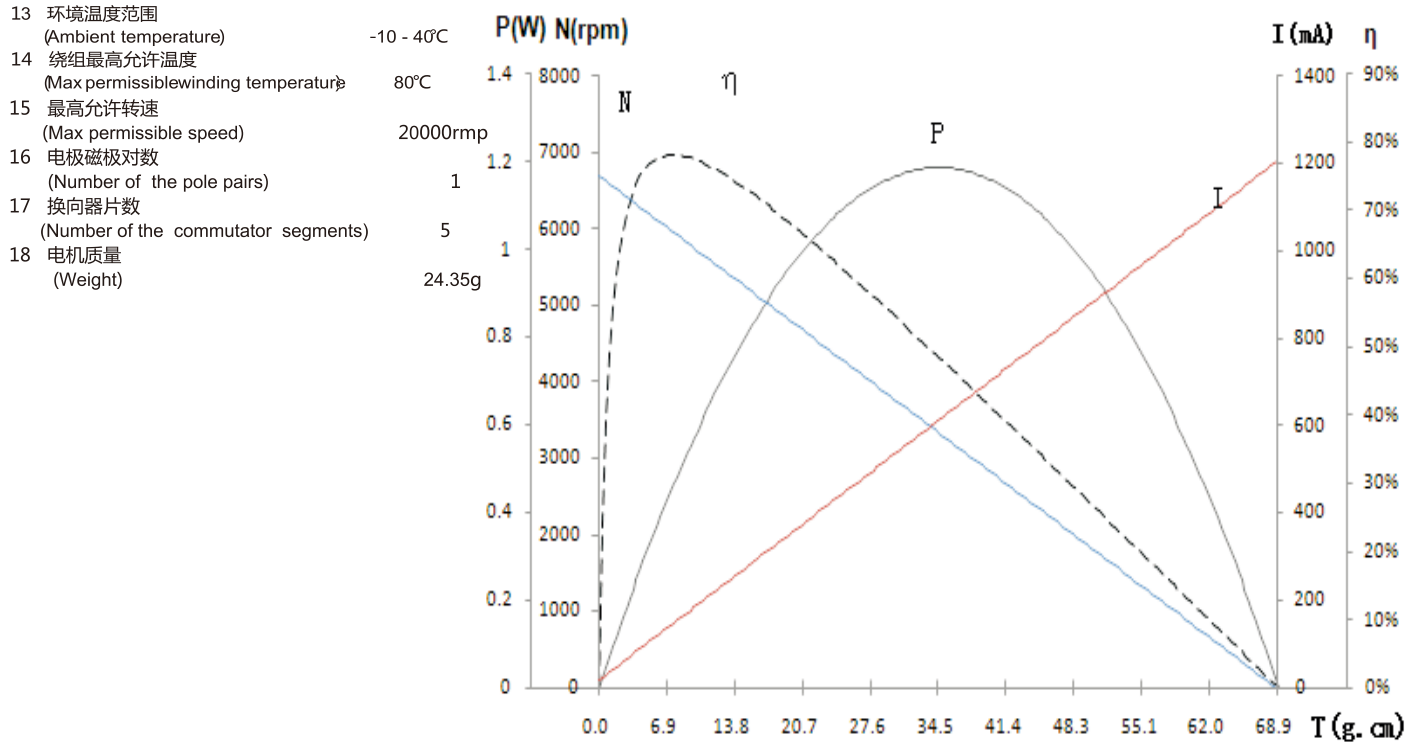
1625R Coreless Brush Motor



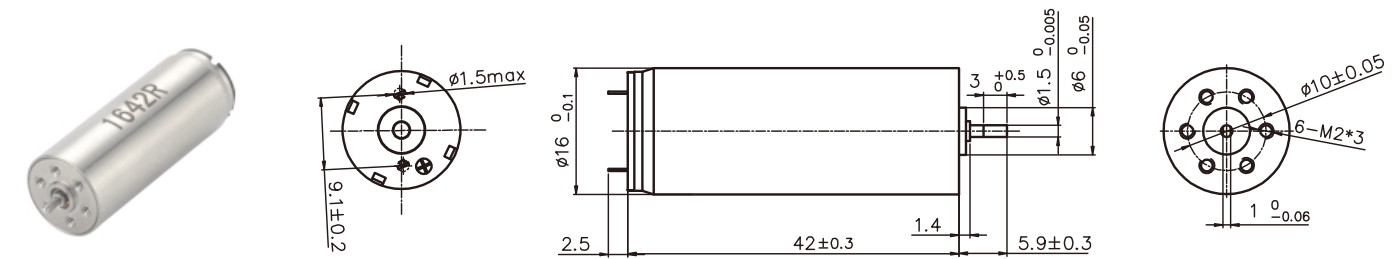
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		22A	05A	21AL5	20A	33A	01A
额定电压下数值(Values at nominal voltage)							
1 额定电压 (Nominal voltage)	v	4	5	6	10	12	15
2 空载转速(No load speed)	rpm	6700	8400	6200	9900	10200	9200
3 空载电流(No load current)	mA	18	24	12	15	10	20
4 额定转速(Nominal speed)	rpm	5728	7686	5518	9108	9486	7498
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	1.00	1.00	1.00	1.00	1.00	1.00
6 额定电流 (最大连续电流) (Nominal current)	A	0.19	0.19	0.11	0.11	0.10	0.08
7 堵转转矩(Stall torque)	mNm	6.80	11.80	9.06	12.28	14.85	5.32
8 堵转电流(Stall current)	A	1.21	2.12	1.00	1.30	1.35	0.35
9 最大效率(Max efficiency)	%	79	81	82	84	84	65
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	3.30	2.36	6.00	7.70	8.90	43.00
11 转矩常数(Torque constant)	mNm/A	5.59	5.57	9.06	9.46	11.01	15.27
12 速度常数(Speed constant)	rpm / V	1675	1680	1033	990	850	613

其它特性参数Other characteristic parameters 22A电机曲线图



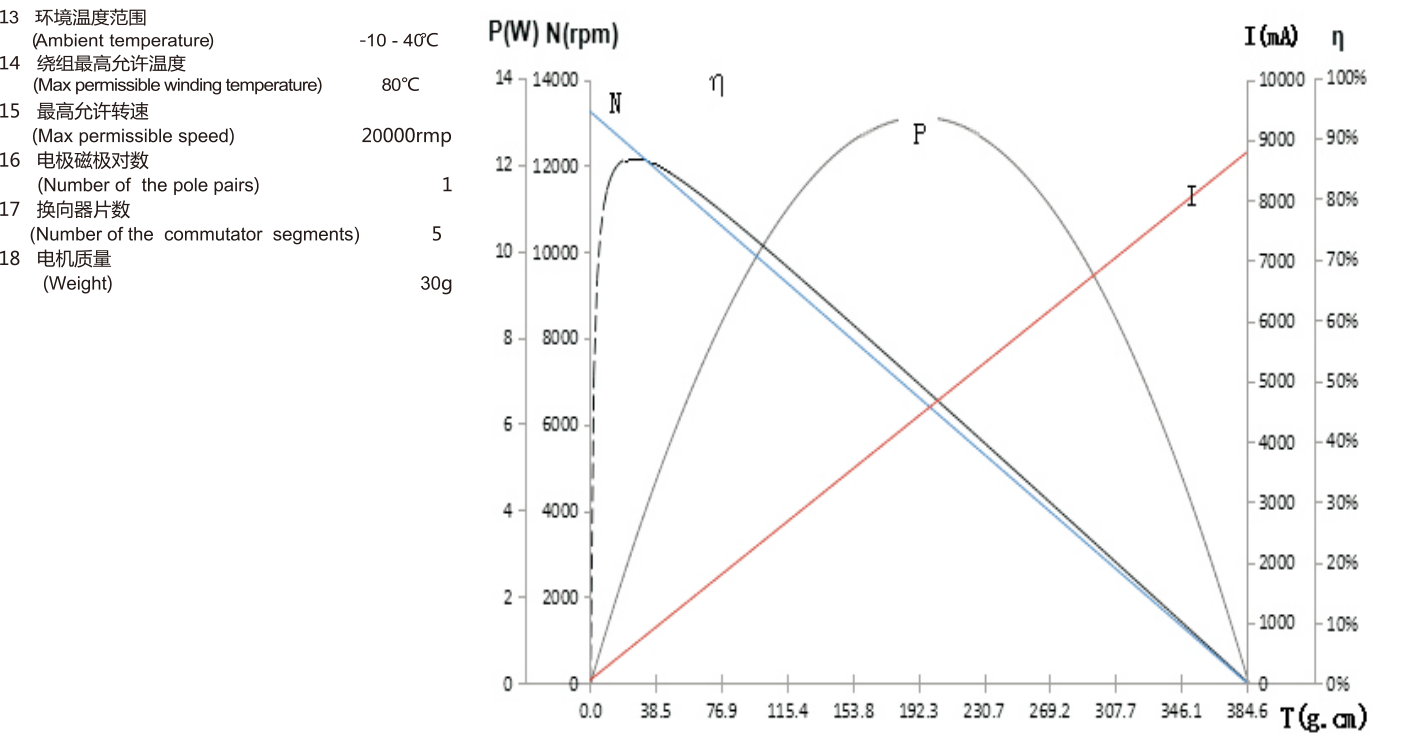
1642R Coreless Brush Motor



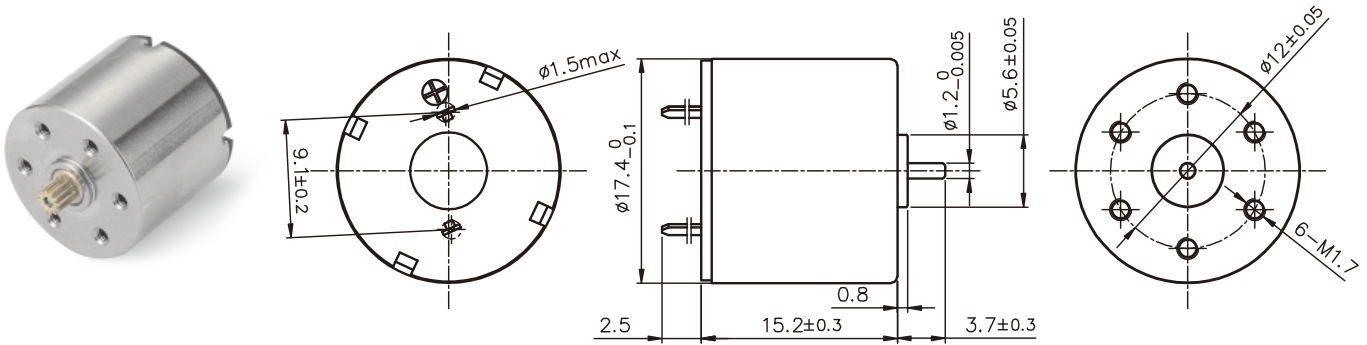
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		02A	05A	06A	08A12		
额定电压下数值(Values at nominal voltage)							
1 额定电压 (Nominal voltage)	V	5	6	12	24		
2 空载转速(No load speed)	rpm	9750	13260	10025	13000		
3 空载电流(No load current)	mA	55	42	31	9		
4 额定转速(Nominal speed)	rpm	8900	11536	9273	11765		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	2.00	5.0	2.00	4.00		
6 额定电流 (最大连续电流) (Nominal current)	A	0.46	1.18	0.20	0.31		
7 堵转转矩(Stall torque)	mNm	27.91	37.40	26.16	42.11		
8 堵转电流(Stall current)	A	5.81	8.82	2.33	2.44		
9 最大效率(Max efficiency)	%	81	87	80	88		
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.86	0.68	5.14	9.85		
11 转矩常数(Torque constant)	mNm/A	4.80	4.24	11.21	17.29		
12 速度常数(Speed constant)	rpm / V	1950	2210	835	542		

其它特性参数Other characteristic parameters 05A电机曲线图



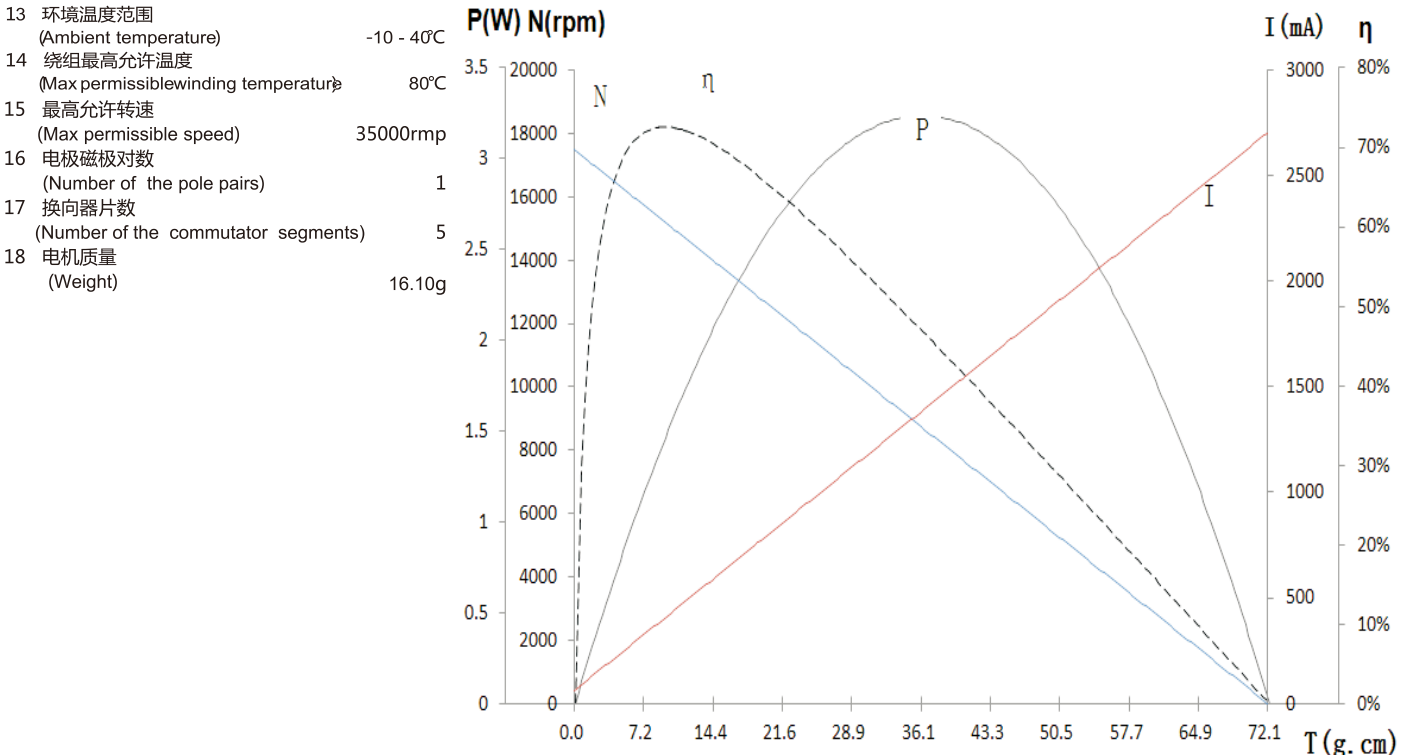
1715R Coreless Brush Motor



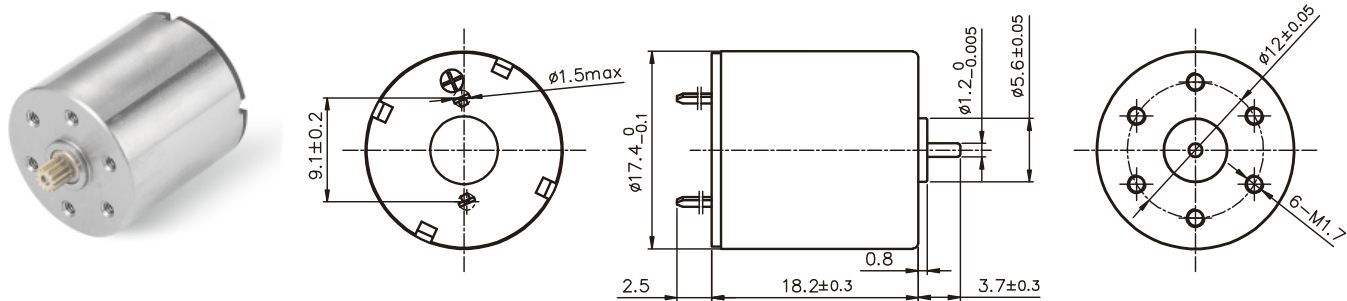
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		01A	02A	09A	15A	04A	
额定电压下数值(Values at nominal voltage)							
1 额定电压 (Nominal voltage)	V	5	6	7.4	7.4	8	
2 空载转速(No load speed)	rpm	17500	25600	28000	32000	22000	
3 空载电流(No load current)	mA	60	100	65	85	45	
4 额定转速(Nominal speed)	rpm	15050	22016	24780	29280	19470	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	1.00	1.50	1.40	1.00	1.00	
6 额定电流 (最大连续电流) (Nominal current)	A	0.43	0.76	0.65	0.54	0.34	
7 堵转转矩(Stall torque)	mNm	7.40	10.50	12.60	11.95	8.78	
8 堵转电流(Stall current)	A	2.70	4.80	5.10	5.52	2.58	
9 最大效率(Max efficiency)	%	75	76	80	79	77	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	1.85	1.25	1.45	1.34	3.1	
11 转矩常数(Torque constant)	mNm/A	2.68	2.19	2.47	2.17	3.4	
12 速度常数(Speed constant)	rpm / V	3500	4266	3783	4324	2750	

其它特性参数Other characteristic parameters 01 A电机曲线图

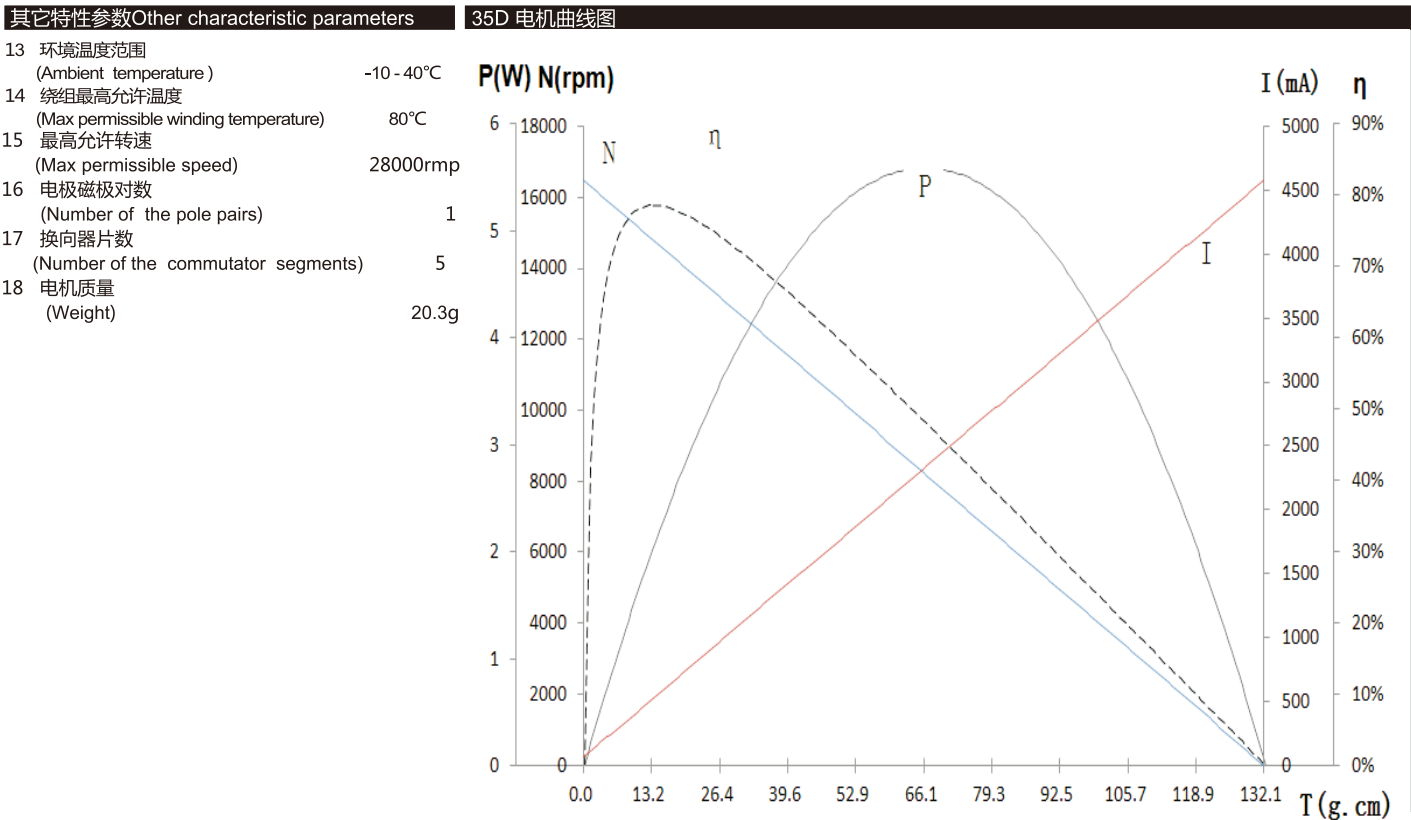


1718R Coreless Brush Motor

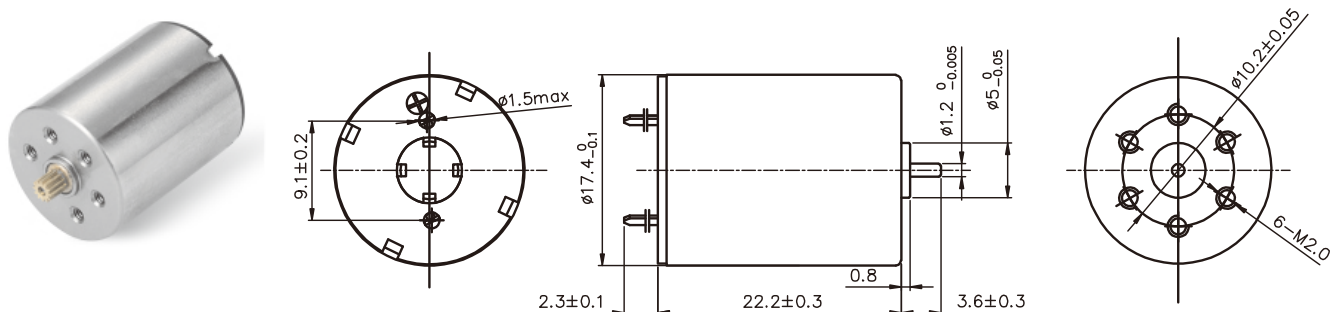


典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		35D	01A	87A	85B	88A	
额定电压下数值(Values at nominal voltage)							
1 额定电压 (Nominal voltage)	V	5	7.4	11.1	12	24	
2 空载转速(No load speed)	rpm	16500	25500	18500	25600	20000	
3 空载电流(No load current)	mA	60	70	30	33	13	
4 额定转速(Nominal speed)	rpm	14602	23460	16835	23168	18300	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	1.50	1.50	1.50	1.50	1.50	
6 额定电流 (最大连续电流) (Nominal current)	A	0.58	0.60	0.30	0.36	0.14	
7 堵转转矩(Stall torque)	mNm	13.00	18.20	16.80	15.35	17.10	
8 堵转电流(Stall current)	A	4.59	6.73	3.00	3.50	1.53	
9 最大效率(Max efficiency)	%	80	82	82	83	83	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	1.09	1.10	3.70	3.43	15.70	
11 转矩常数(Torque constant)	mNm/A	2.83	2.72	5.62	4.39	11.24	
12 速度常数(Speed constant)	rpm / V	3300	3445	1666	2133	833	

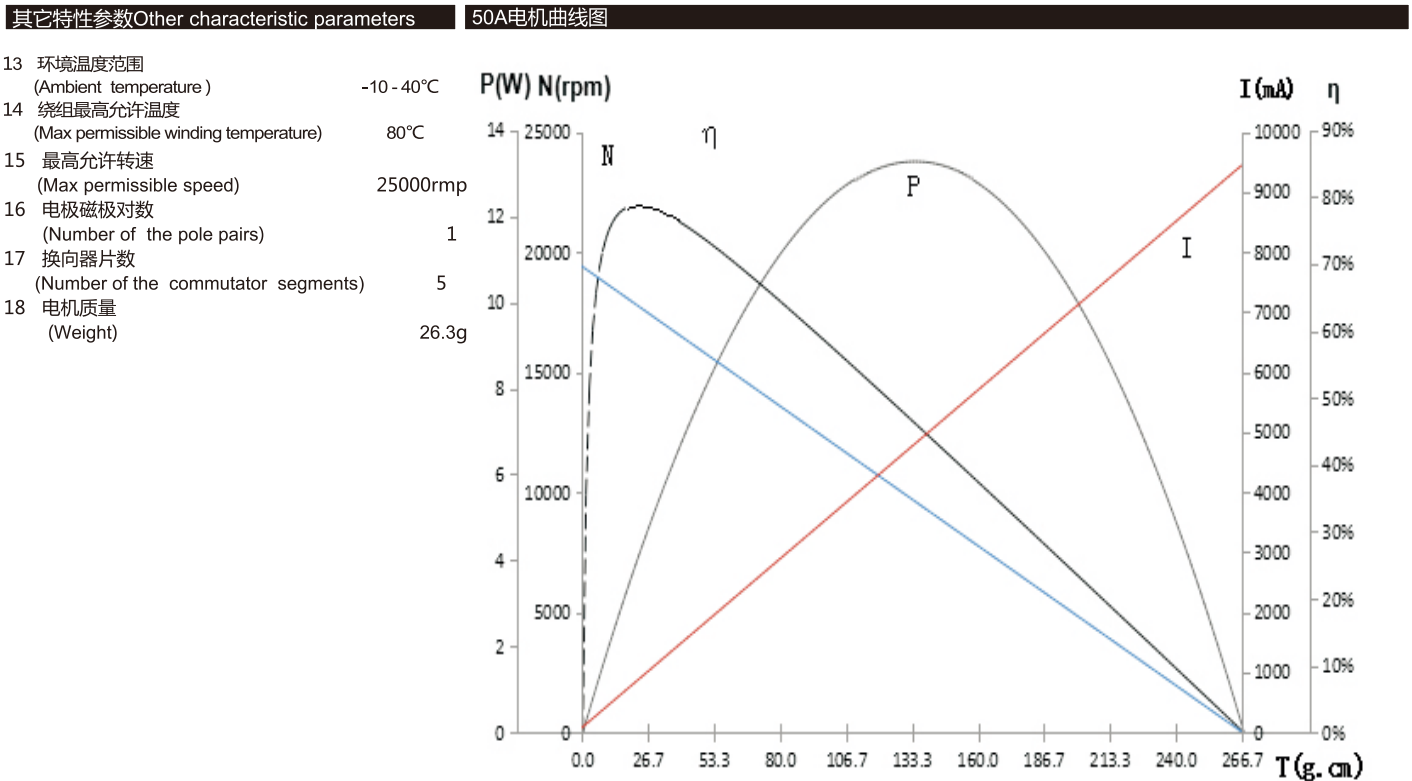


1722R Coreless Brush Motor

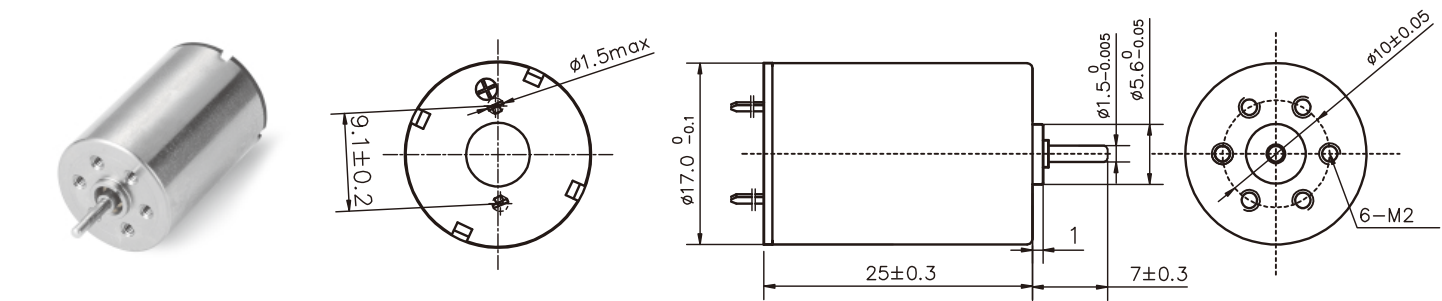


典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		50A	14A	55A	46A	43A	48A
额定电压下数值(Values at nominal voltage)							
1 额定电压 (Nominal voltage)	V	6	7.4	8	10	10	12
2 空载转速(No load speed)	rpm	19400	18000	10000	8100	10000	22100
3 空载电流(No load current)	mA	77	60	21	11	15	60
4 额定转速(Nominal speed)	rpm	17945	16650	9300	7209	9350	20995
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	2.00	2.00	1.00	1.50	1.00	2.00
6 额定电流 (最大连续电流) (Nominal current)	A	0.78	0.57	0.15	0.14	0.12	0.43
7 堵转转矩(Stall torque)	mNm	27.57	27.1	14.97	13.59	16.14	38.1
8 堵转电流(Stall current)	A	9.52	7.05	2.00	1.18	1.72	7.50
9 最大效率(Max efficiency)	%	84	83	82	83	83	84
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.63	1.05	4.00	8.5	5.8	1.60
11 转矩常数(Torque constant)	mNm/A	2.90	3.85	7.49	11.56	9.36	5.08
12 速度常数(Speed constant)	rpm / V	3233	2432	1250	810	1000	1842



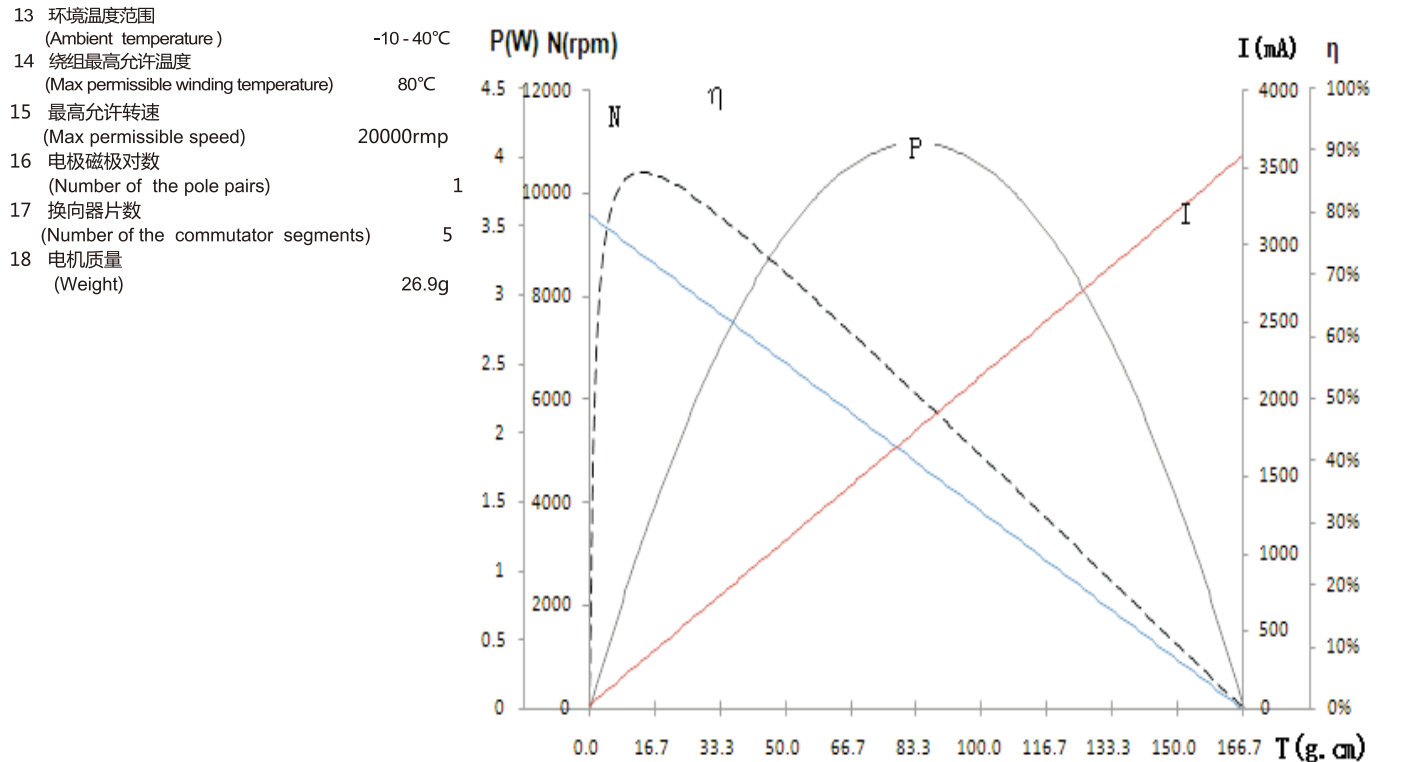
1725R Coreless Brush Motor



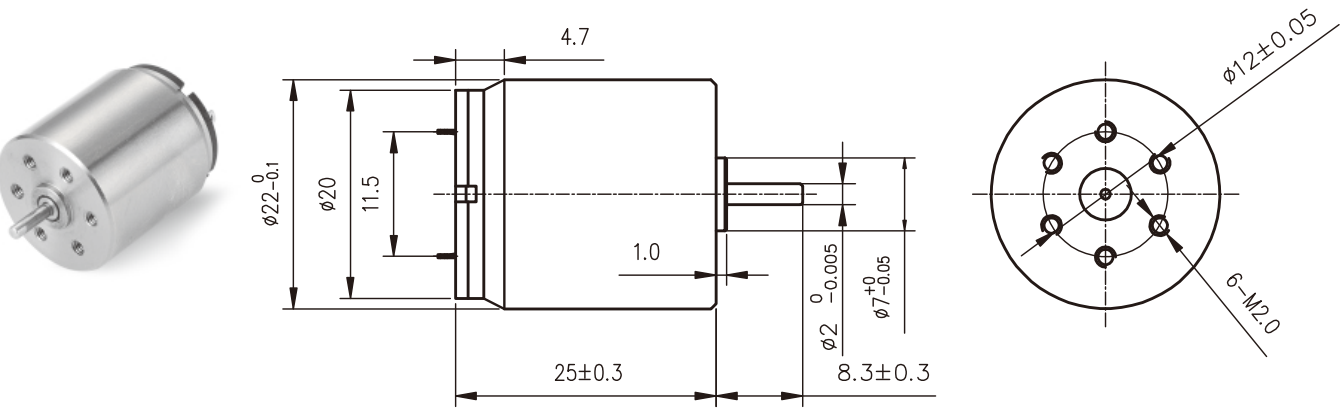
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		37A	36A	27A	39A	43A	
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	4.5	8	8	10	12	
2 空载转速(No load speed)	rpm	9600	8000	7900	9900	11900	
3 空载电流(No load current)	mA	27	12	14	13	17	
4 额定转速(Nominal speed)	rpm	9024	7400	7189	9256	11245	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	1.00	1.00	1.00	1.00	1.00	
6 额定电流 (最大连续电流) (Nominal current)	A	0.24	0.11	0.11	0.11	0.12	
7 堵转转矩(Stall torque)	mNm	16.45	13.25	11.2	15.80	19.20	
8 堵转电流(Stall current)	A	3.75	1.42	1.18	1.67	2.03	
9 最大效率(Max efficiency)	%	84	83	81	84	83	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	1.2	5.65	6.8	6.0	5.9	
11 转矩常数(Torque constant)	mNm/A	4.39	9.36	9.48	9.46	9.44	
12 速度常数(Speed constant)	rpm / V	2133	1000	987	990	991	

其它特性参数Other characteristic parameters 37A电机曲线图



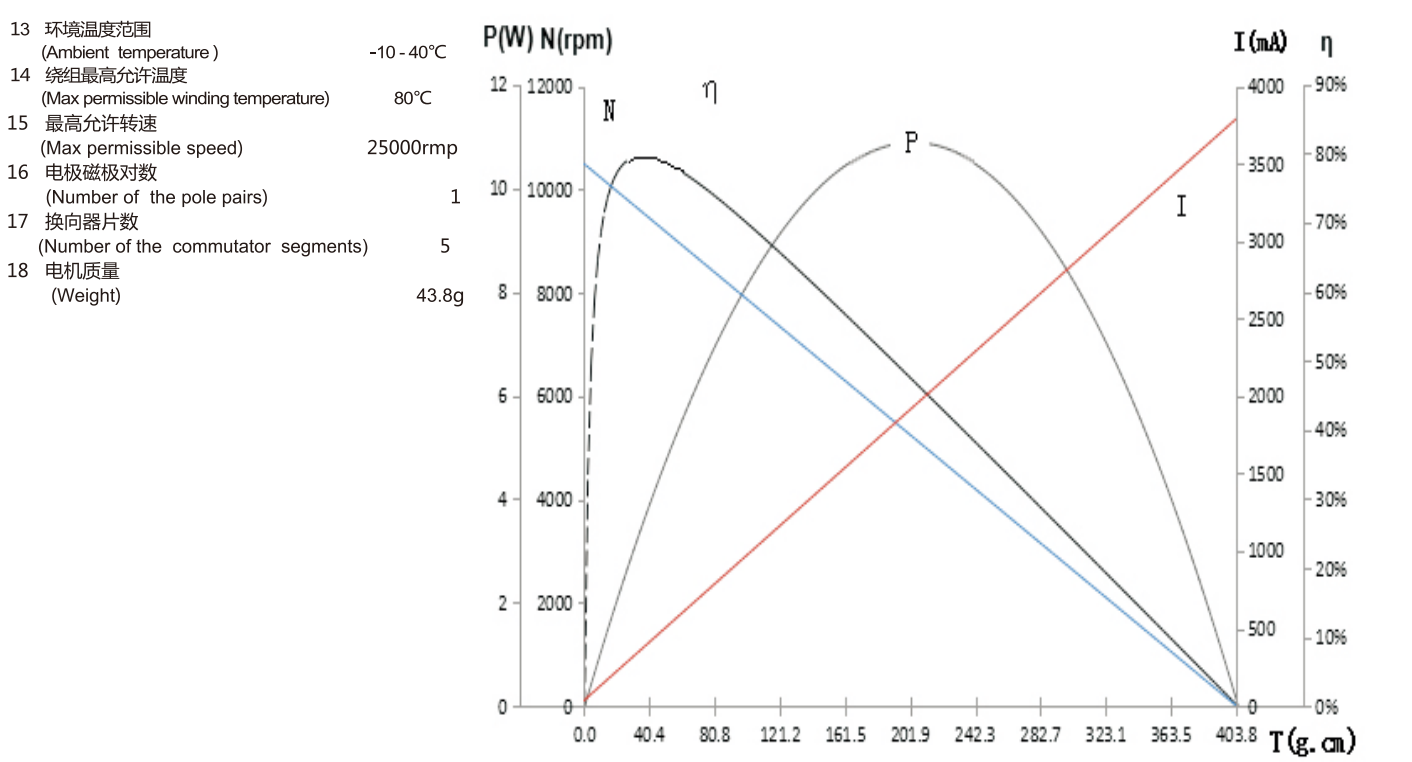
2225R Coreless Brush Motor



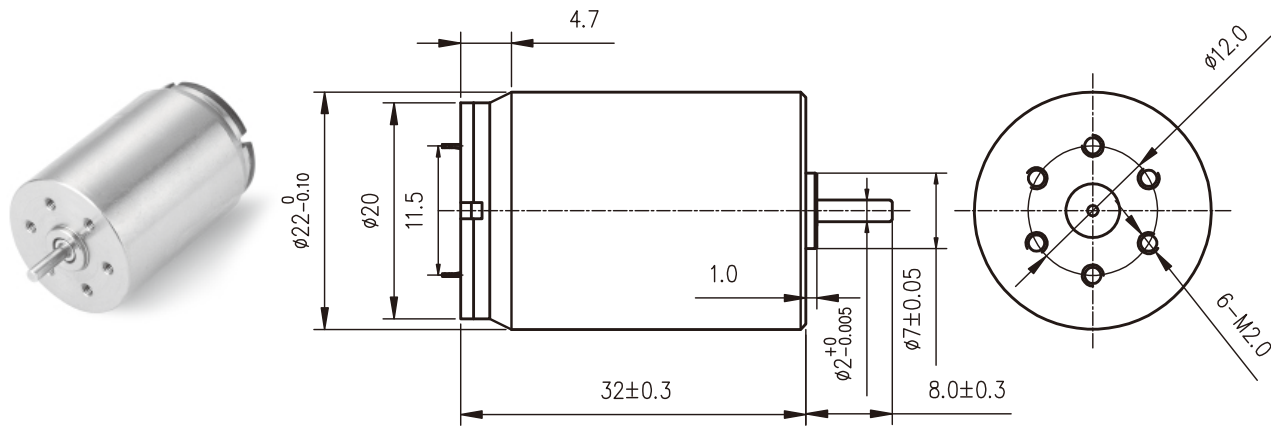
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		06A	05A	13A			
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	6	12	12			
2 空载转速(No load speed)	rpm	4900	10200	10500			
3 空载电流(No load current)	mA	35	42	35			
4 额定转速(Nominal speed)	rpm	4042	8360	9180			
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	2.00	5.00	5.00			
6 额定电流 (最大连续电流) (Nominal current)	A	0.20	0.48	0.50			
7 堵转转矩(Stall torque)	mNm	11.46	27.50	40.12			
8 堵转电流(Stall current)	A	1.00	2.50	3.75			
9 最大效率(Max efficiency)	%	70	78	83			
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	6.00	4.80	3.20			
11 转矩常数(Torque constant)	mNm/A	11.46	11.01	10.70			
12 速度常数(Speed constant)	rpm / V	817	850	875			

其它特性参数Other characteristic parameters 13A电机曲线图



2232R Coreless Brush Motor

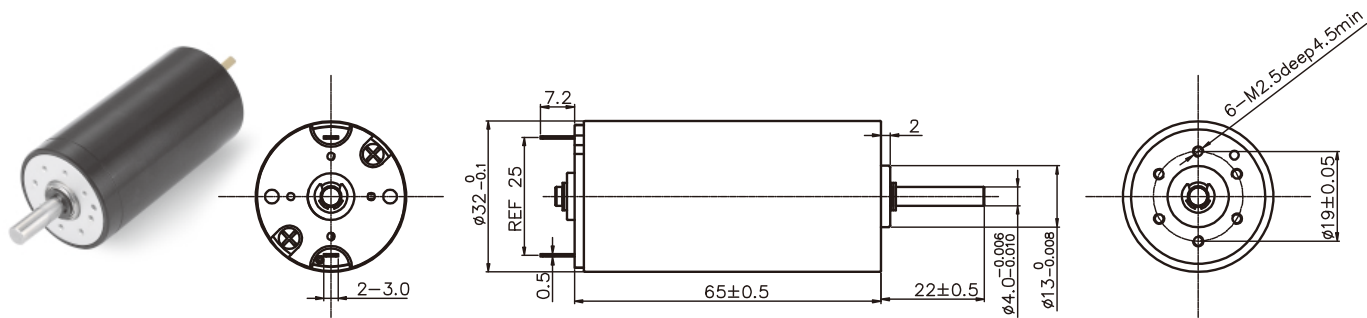


典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		07A	02A	06A	23A	18A	
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	3	5	6	12	12	
2 空载转速(No load speed)	rpm	6500	7800	8000	9500	11400	
3 空载电流(No load current)	mA	114	140	59	44	50	
4 额定转速(Nominal speed)	rpm	5550	6900	6880	8690	10700	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	5.00	5.00	5.00	5.00	5.00	
6 额定电流 (最大连续电流) (Nominal current)	A	1.24	0.94	0.74	0.46	0.55	
7 堵转转矩(Stall torque)	mNm	34.11	42.86	35.1	59.30	82.70	
8 堵转电流(Stall current)	A	7.89	7.14	5.00	5.02	8.39	
9 最大效率(Max efficiency)	%	80	76	82	83	86	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.38	0.70	1.20	2.39	1.43	
11 转矩常数(Torque constant)	mNm/A	4.32	6.00	7.02	11.83	9.86	
12 速度常数(Speed constant)	rpm / V	2167	1560	1333	792	950	

其它特性参数Other characteristic parameters		07A电机曲线图
13 环境温度范围 (Ambient temperature)	-10 - 40℃	
14 绕组最高允许温度 (Max permissible winding temperature)	80℃	
15 最高允许转速 (Max permissible speed)	18000rpm	
16 电极磁极对数 (Number of the pole pairs)	1	
17 换向器片数 (Number of the commutator segments)	5	
18 电机质量 (Weight)	60.25g	

3265R Coreless Brush Motor

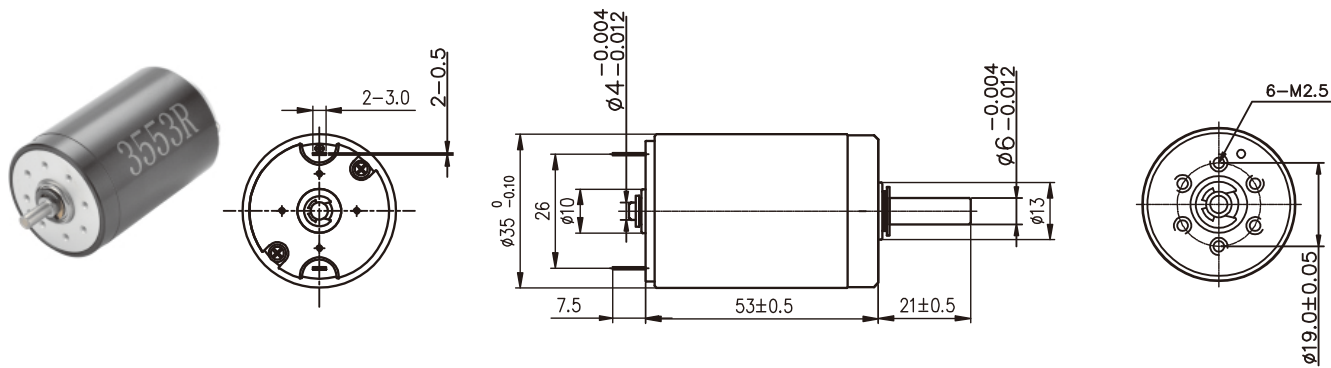


典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		01A	02A	03A	04A		
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	24	24	24	36		
2 空载转速(No load speed)	rpm	5860	4400	6400	8850		
3 空载电流(No load current)	mA	75	50	77	115		
4 额定转速(Nominal speed)	rpm	5150	3740	5474	8400		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	50	15	30	40		
6 额定电流 (最大连续电流) (Nominal current)	A	1.40	0.33	0.95	1.15		
7 堵转转矩(Stall torque)	mNm	426	98.04	200	797		
8 堵转电流(Stall current)	A	11.11	1.90	5.70	20.90		
9 最大效率(Max efficiency)	%	85	74	80	86		
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	2.16	12.50	4.18	1.72		
11 转矩常数(Torque constant)	mNm/A	38.35	51.07	34.89	38.09		
12 速度常数(Speed constant)	rpm / V	244	183	268	246		

其它特性参数Other characteristic parameters		01A电机曲线图
13 环境温度范围 (Ambient temperature)	-10 - 40℃	
14 绕组最高允许温度 (Max permissible winding temperature)	80℃	
15 最高允许转速 (Max permissible speed)	10000rpm	
16 电极磁极对数 (Number of the pole pairs)	1	
17 换向器片数 (Number of the commutator segments)	5	
18 电机质量 (Weight)	225g	

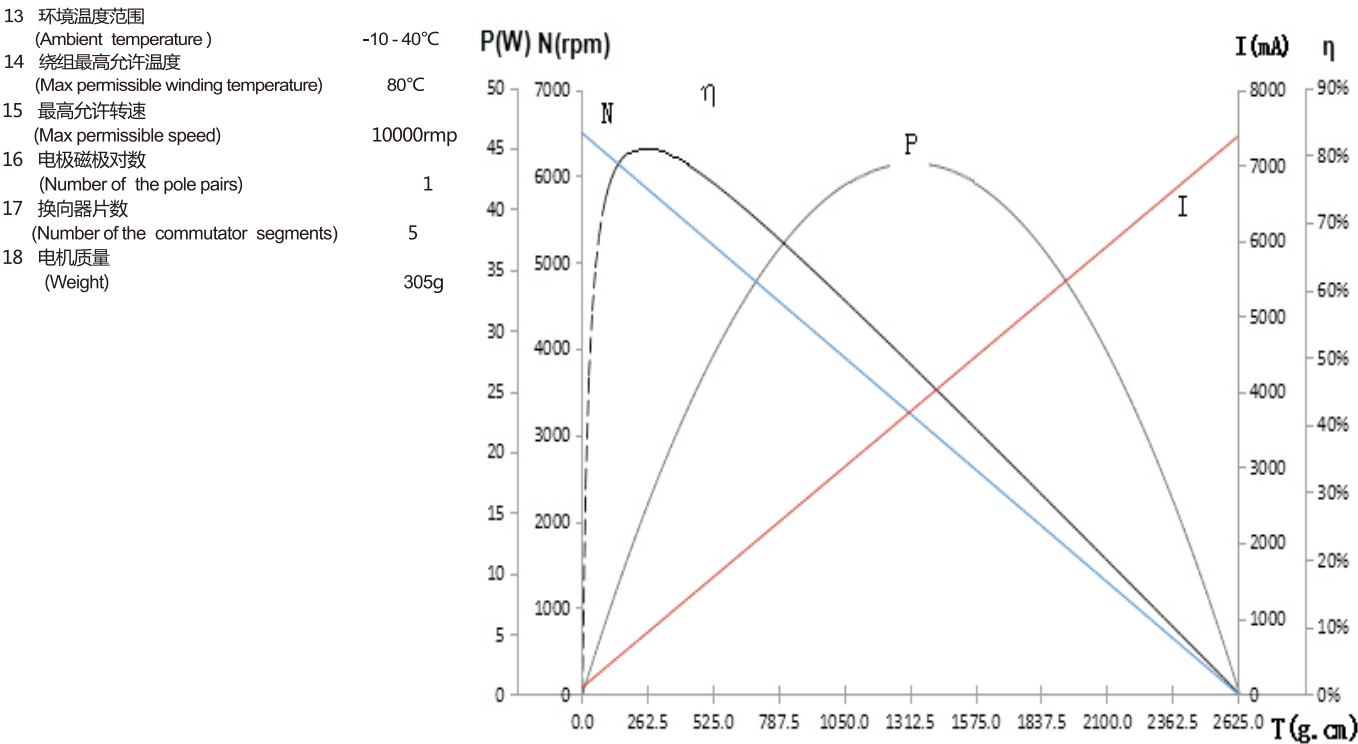
3553R Coreless Brush Motor



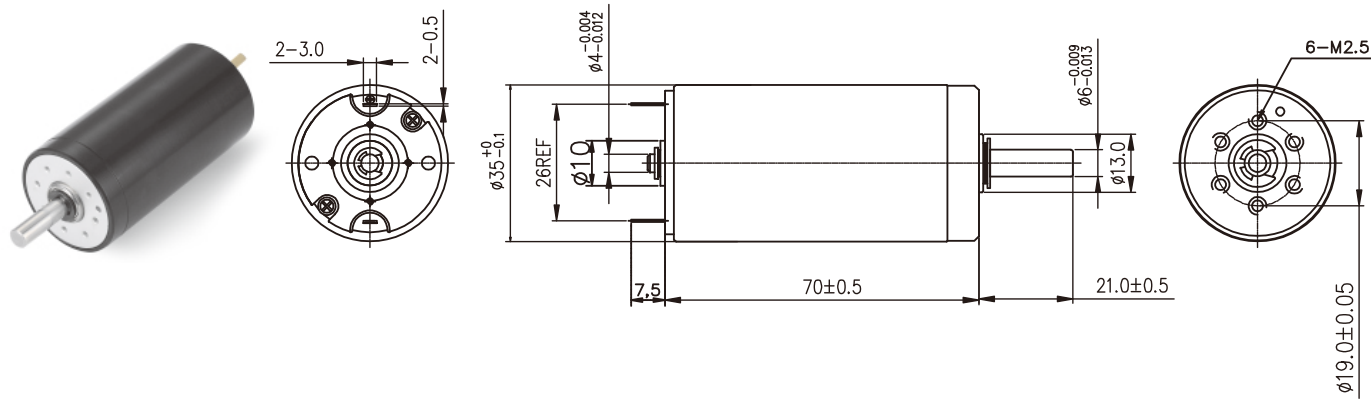
典型应用Typical Applications:舵机、智能小机器人
Servo motor、Intelligent robot

电机参数 (Motor data)		01A	02A	03A	04A		
额定电压下数值 (Values at nominal voltage)							
1 额定电压 (Nominal voltage)	V	24	12	24	32		
2 空载转速 (No load speed)	rpm	6500	4800	4800	4700		
3 空载电流 (No load current)	mA	80	90	60	60		
4 额定转速 (Nominal speed)	rpm	5980	4200	4128	4089		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	20	15	15	15		
6 额定电流 (最大连续电流) (Nominal current)	A	0.66	0.70	0.37	0.28		
7 堵转转矩 (Stall torque)	mNm	255	117	107	113		
8 堵转电流 (Stall current)	A	7.38	5.00	2.29	1.78		
9 最大效率 (Max efficiency)	%	82	77	74	71		
电机常数 (Motor constant)							
10 相间电阻 (Terminal resistance)	Ω	3.25	2.40	10.5	18		
11 转矩常数 (Torque constant)	mNm/A	34.57	23.41	46.8	63.7		
12 速度常数 (Speed constant)	rpm / V	271	400	200	147		

其它特性参数Other characteristic parameters 01A电机曲线图



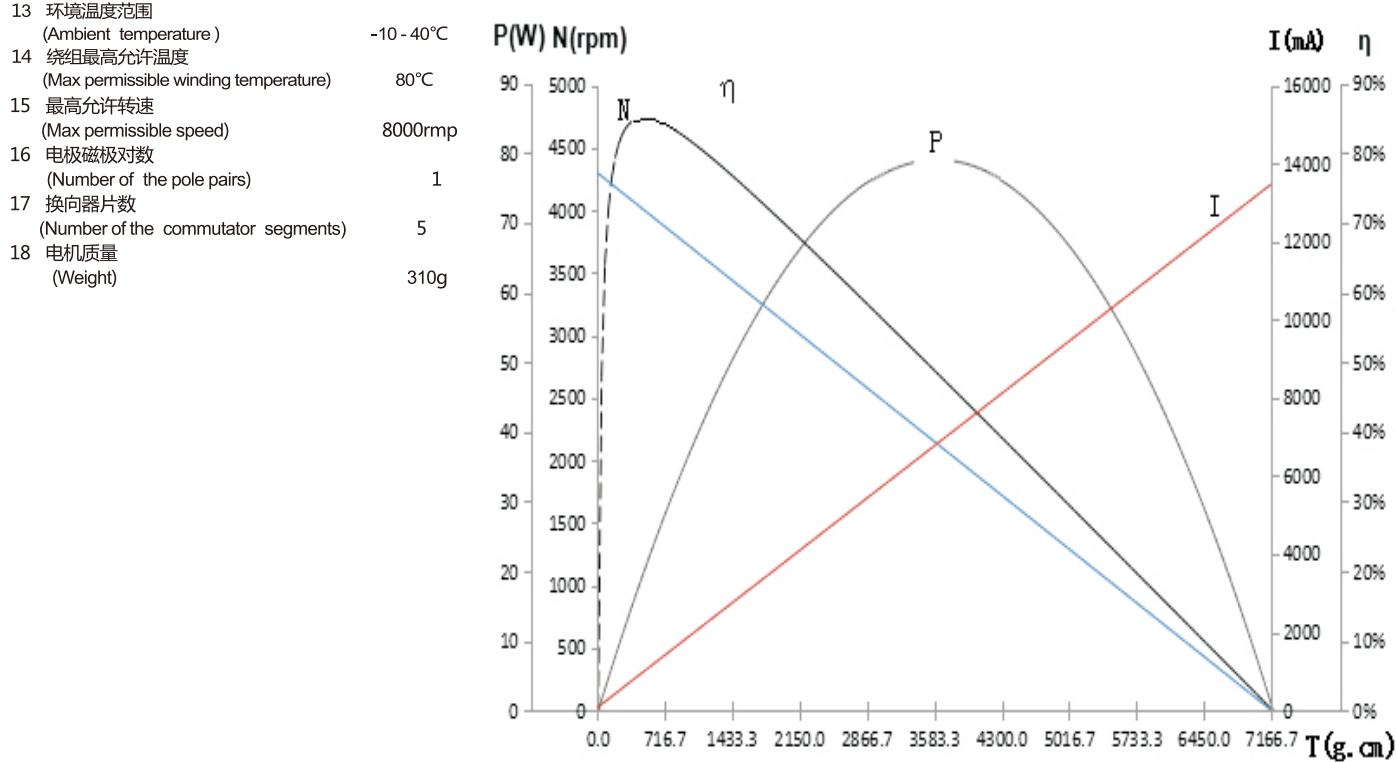
3570R Coreless Brush Motor



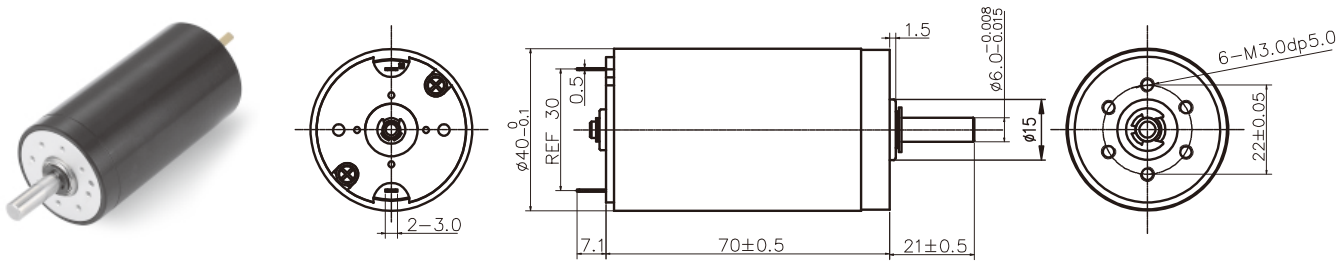
典型应用Typical Applications:舵机、智能小机器人
Servo motor、Intelligent robot

电机参数 (Motor data)		09A	11A	01A	08A		
额定电压下数值 (Values at nominal voltage)							
1 额定电压 (Nominal voltage)	V	12	12	24	24		
2 空载转速 (No load speed)	rpm	4500	5500	4300	5800		
3 空载电流 (No load current)	mA	140	150	70	100		
4 额定转速 (Nominal speed)	rpm	3670	4867	3700	5070		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	100	100	100	100		
6 额定电流 (最大连续电流) (Nominal current)	A	4.04	5.06	1.94	2.67		
7 堵转转矩 (Stall torque)	mNm	544	875	704	801		
8 堵转电流 (Stall current)	A	21.82	42.86	13.48	20.69		
9 最大效率 (Max efficiency)	%	85	89	87	87		
电机常数 (Motor constant)							
10 相间电阻 (Terminal resistance)	Ω	0.55	0.28	1.78	1.16		
11 转矩常数 (Torque constant)	mNm/A	24.97	20.43	52.30	38.74		
12 速度常数 (Speed constant)	rpm / V	375	458	179	242		

其它特性参数Other characteristic parameters 01A电机曲线图



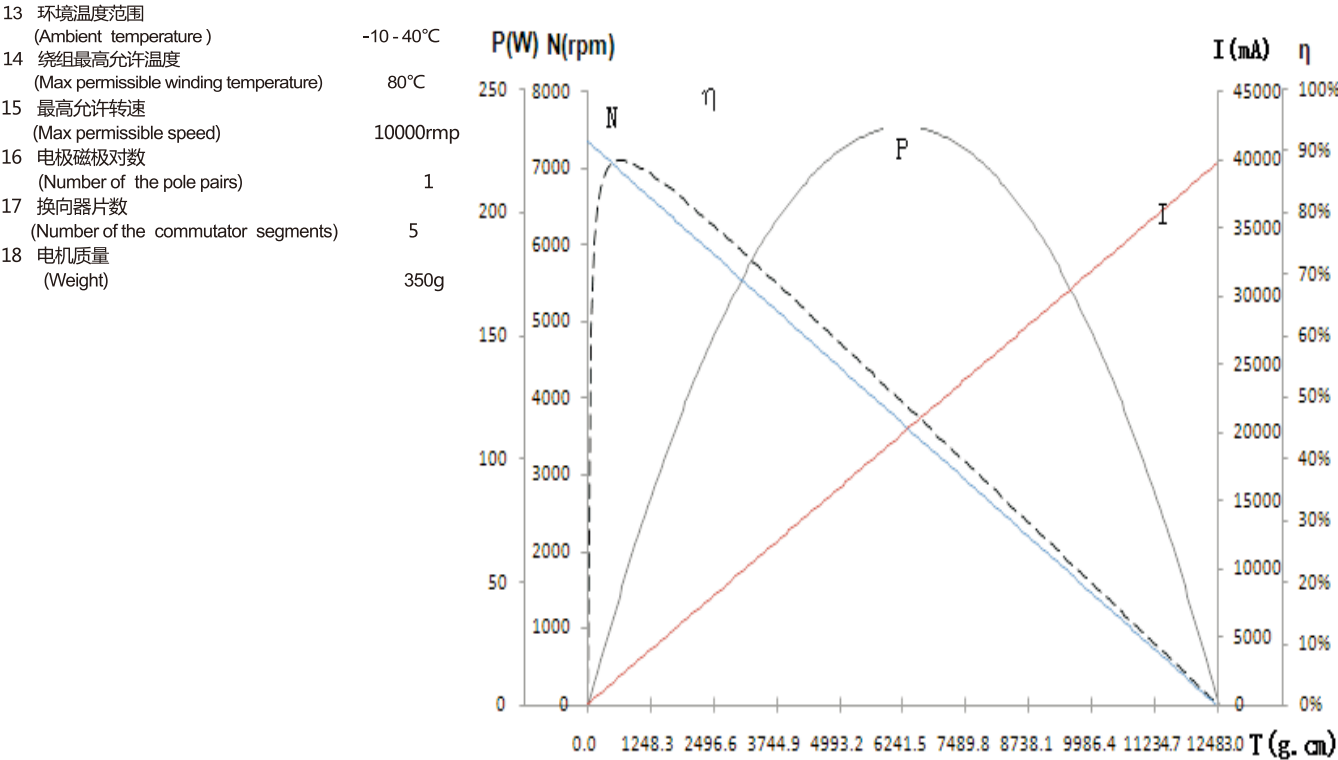
4070R Coreless Brush Motor



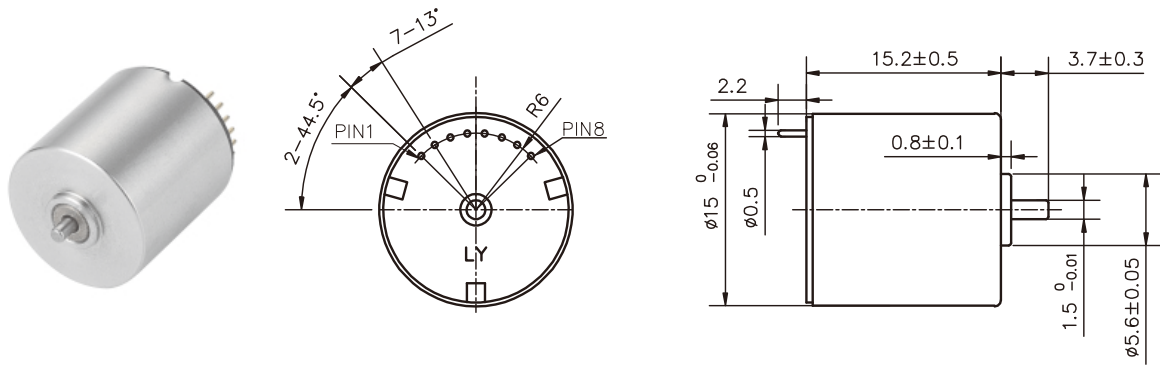
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		01A	02A	03A			
额定电压下数值 (Values at nominal voltage)							
1 额定电压 (Nominal voltage)	v	24	48	48			
2 空载转速 (No load speed)	rpm	7340	9200	7720			
3 空载电流 (No load current)	mA	120	75	85			
4 额定转速 (Nominal speed)	rpm	6752	8600	7210			
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	100	90	100			
6 额定电流 (最大连续电流) (Nominal current)	A	3.31	1.90	1.81			
7 堵转转矩 (Stall torque)	mNm	1224	1379	1552			
8 堵转电流 (Stall current)	A	40.00	28.24	26.64			
9 最大效率 (Max efficiency)	%	89	90	89			
电机常数 (Motor constant)							
10 相间电阻 (Terminal resistance)	Ω	0.6	1.7	1.8			
11 转矩常数 (Torque constant)	mNm/A	30.61	48.85	58.21			
12 速度常数 (Speed constant)	rpm / V	61	123	91			

其它特性参数Other characteristic parameters 01A电机曲线图



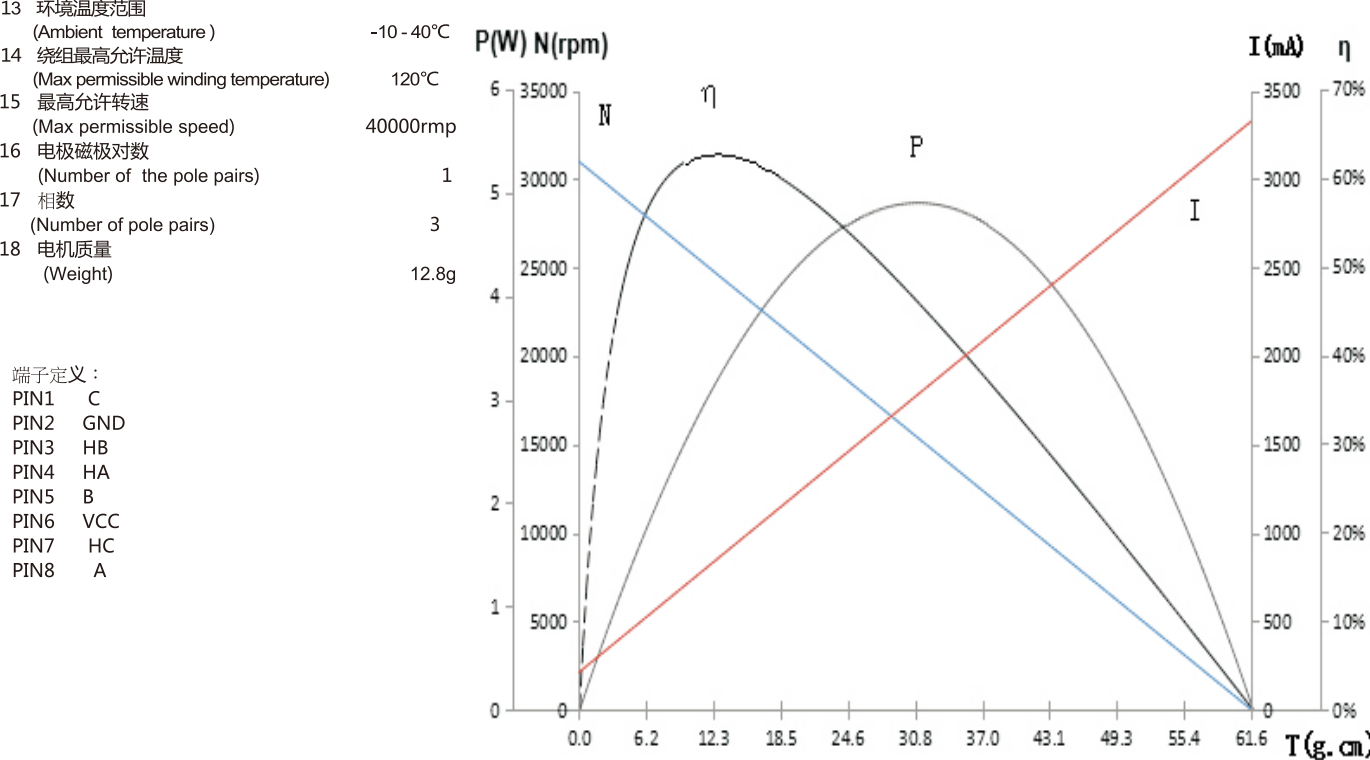
1515RB Slotless BLDC Motor



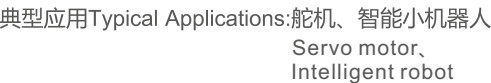
典型应用Typical Applications:舵机、智能小机器人
Servo motor、
Intelligent robot

电机参数 (Motor data)		03A	01A	08A	06A		
额定电压下数值 (Values at nominal voltage)							
1 额定电压 (Nominal voltage)	v	6	6	7.4	7.4		
2 空载转速 (No load speed)	rpm	31000	36000	27000	30600		
3 空载电流 (No load current)	mA	210	150	200	182		
4 额定转速 (Nominal speed)	rpm	25730	25920	22545	26160		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	1	1	1	1		
6 额定电流 (最大连续电流) (Nominal current)	A	0.74	0.74	0.54	0.60		
7 堵转转矩 (Stall torque)	mNm	6.03	3.55	6.00	7.06		
8 堵转电流 (Stall current)	A	3.33	2.28	2.32	3.12		
9 最大效率 (Max efficiency)	%	63	63	59	64		
电机常数 (Motor constant)							
10 相间电阻 (Terminal resistance)	Ω	1.80	2.63	3.19	2.37		
11 转矩常数 (Torque constant)	mNm/A	1.81	1.56	2.57	2.26		
12 速度常数 (Speed constant)	rpm / V	5167	6000	3649	4135		

其它特性参数Other characteristic parameters 03A电机曲线图

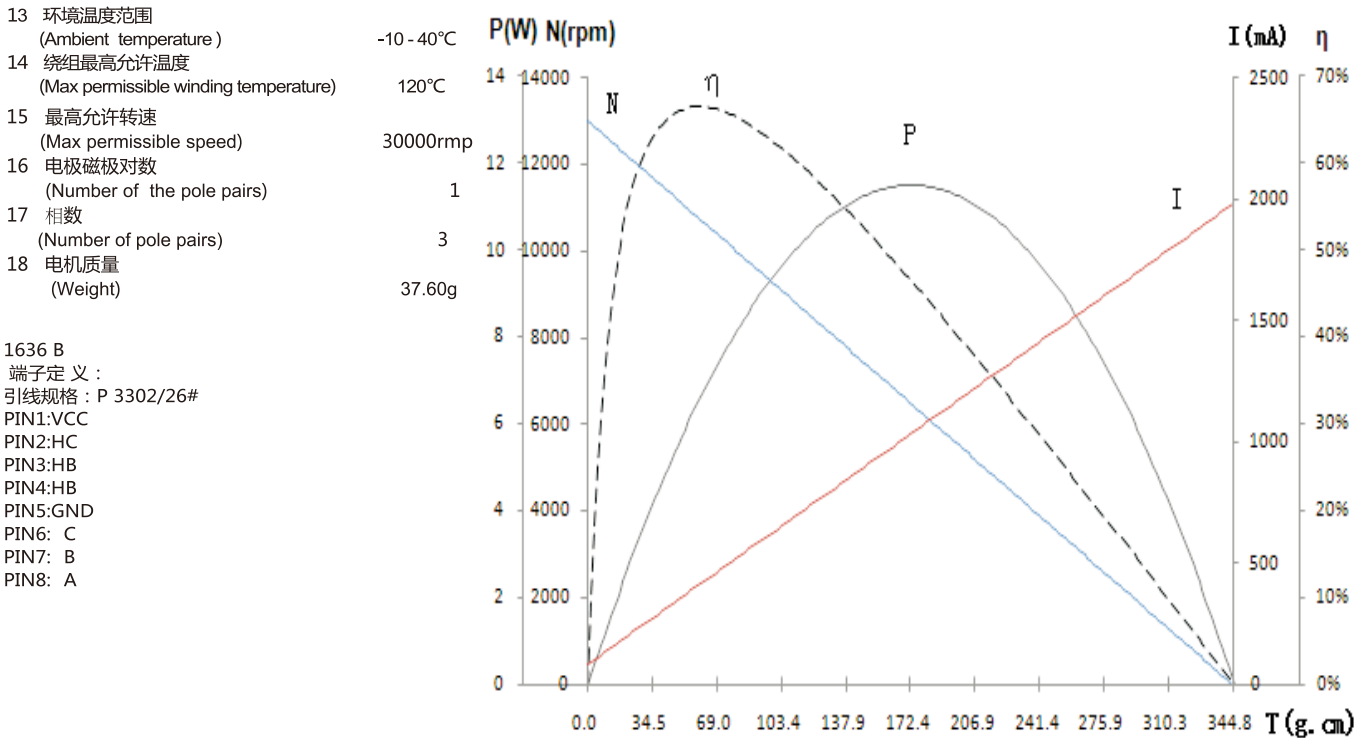


端子定义：
PIN1 C
PIN2 GND
PIN3 HB
PIN4 HA
PIN5 B
PIN6 VCC
PIN7 HC
PIN8 A

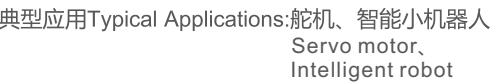


电机参数 (Motor data)		02A	04A	01A	03A		
额定电压下数值 (Values at nominal voltage)							
1	额定电压 (Nominal voltage)	V	6.0	12	24	24	
2	空载转速 (No load speed)	rpm	7800	22000	13000	22000	
3	空载电流 (No load current)	mA	80	180	85	110	
4	额定转速 (Nominal speed)	rpm	6500	19470	11115	18590	
5	额定转矩 (最大连续转矩) (Nominal torque)	mNm	3.0	5	5	7	
6	额定电流 (最大连续电流) (Nominal current)	A	0.48	1.15	0.36	0.76	
7	堵转转矩 (Stall torque)	mNm	18.86	43.77	34.56	44.56	
8	堵转电流 (Stall current)	A	2.62	8.57	2.00	4.36	
9	最大效率 (Max efficiency)	%	72	76	68	74	
电机常数 (Motor constant)							
10	相间电阻 (Terminal resistance)	Ω	2.29	1.40	12.0	5.50	
11	转矩常数 (Torque constant)	mNm/A	7.20	5.11	17.29	10.21	
12	速度常数 (Speed constant)	rpm / V	1300	1833	542	917	

其它特性参数Other characteristic parameters 01A电机曲线图

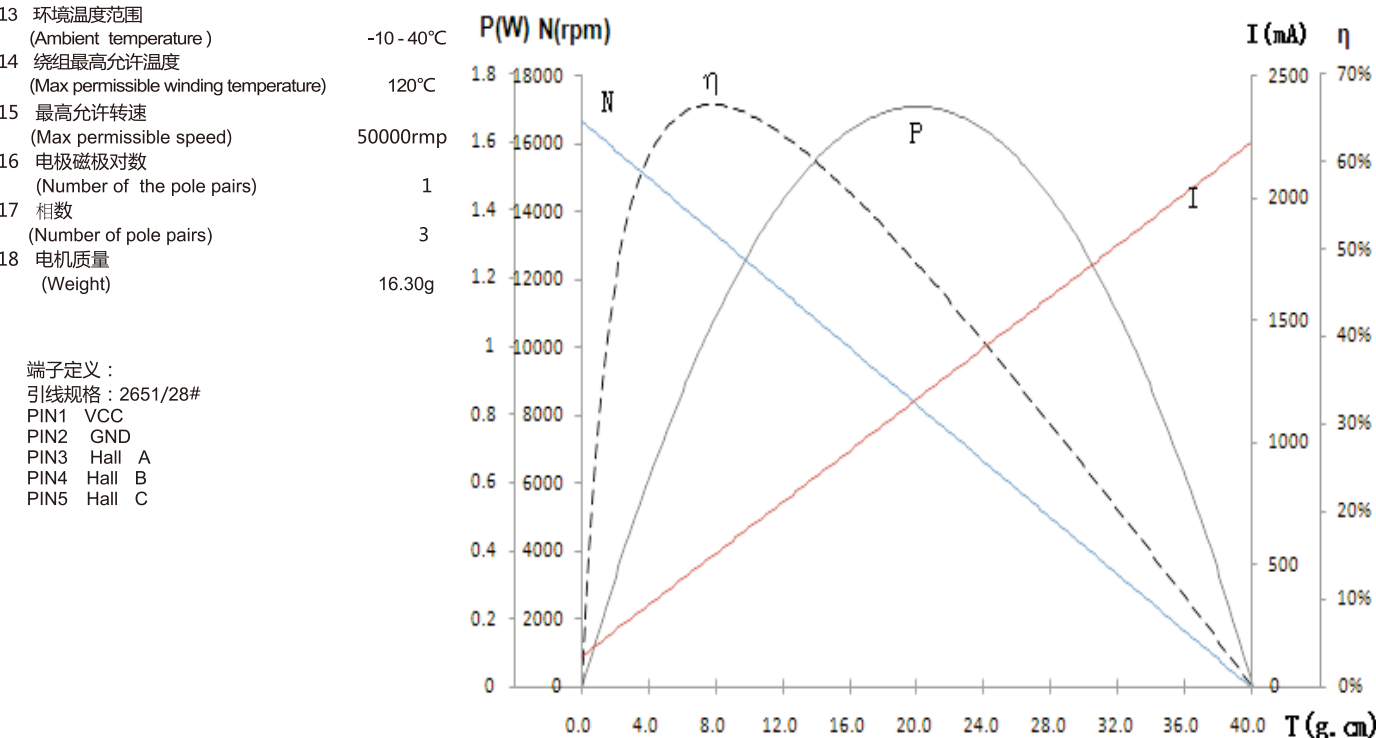


1715RB Slotless BLDC Motor

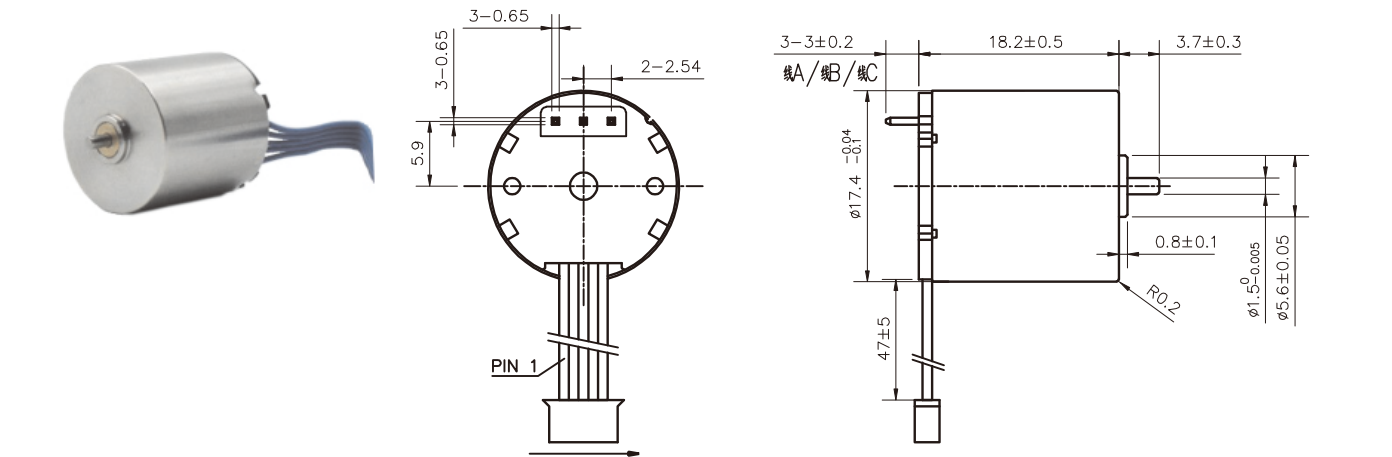


电机参数 (Motor data)		01A	08A	12A	16B		
额定电压下数值 (Values at nominal voltage)							
1	额定电压(Nominal voltage)	V	3	6	8.4	7.4	
2	空载转速(No load speed)	rpm	16630	26300	42200	44228	
3	空载电流(No load current)	mA	127	190	238	317	
4	额定转速(Nominal speed)	rpm	12470	21697	38191	40910	
5	额定转矩 (最大连续转矩) (Nominal torque)	mNm	1	1	1	1	
6	额定电流 (最大连续电流) (Nominal current)	A	0.67	0.62	0.73	0.93	
7	堵转转矩(Stall torque)	mNm	3.92	5.69	10.36	13.50	
8	堵转电流(Stall current)	A	2.33	2.67	5.56	8.60	
9	最大效率(Max efficiency)	%	66	62	69	70	
电机常数(Motor constant)							
10	相间电阻(Terminal resistance)	Ω	1.29	2.25	1.51	0.86	
11	转矩常数(Torque constant)	mNm/A	1.69	2.14	1.86	1.57	
12	速度常数(Speed constant)	rpm / V	5543	4383	5024	5977	

其它特性参数Other characteristic parameters 01A电机曲线图



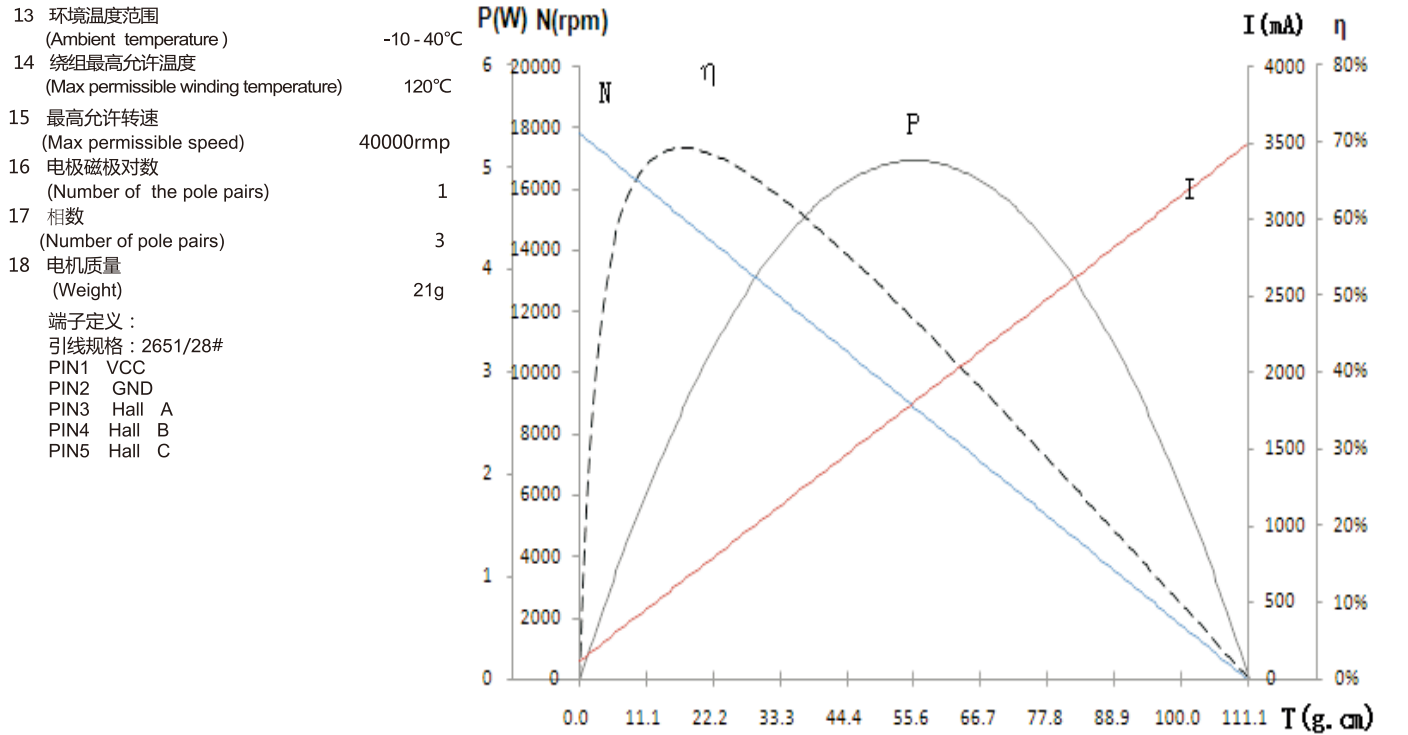
1718RB Slotless BLDC Motor



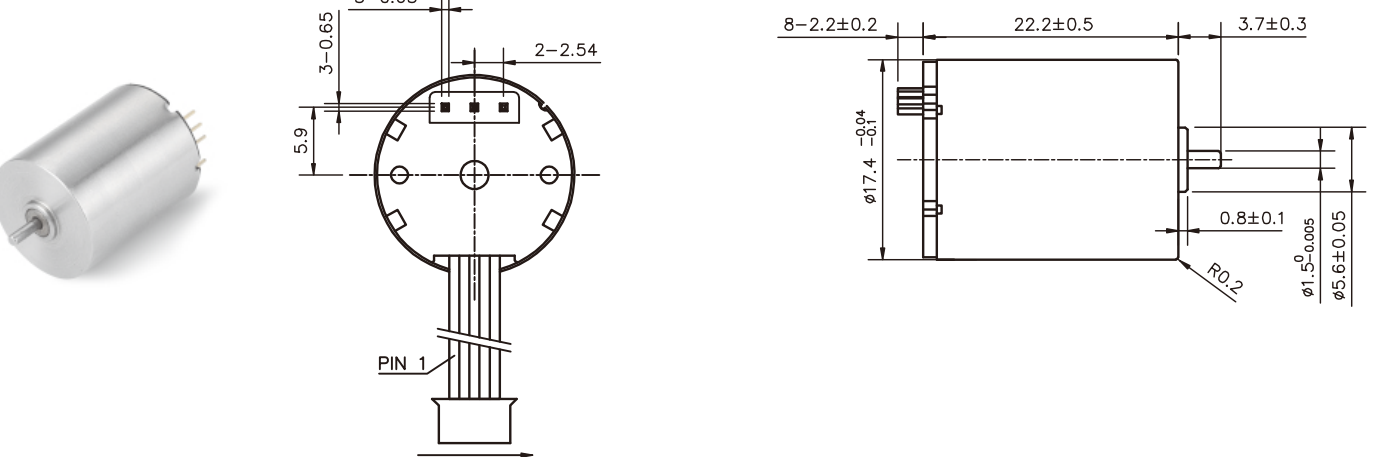
典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

电机参数 (Motor data)		46A	14A	51A	43A	50A	
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	6	7.4	8.4	12	12	
2 空载转速(No load speed)	rpm	17800	34910	32000	28000	24900	
3 空载电流(No load current)	mA	116	224	220	150	110	
4 额定转速(Nominal speed)	rpm	16918	33339	24640	24920	21165	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	1	1	5	2	2	
6 额定电流 (最大连续电流) (Nominal current)	A	0.42	0.69	2.14	0.64	0.54	
7 堵转转矩(Stall torque)	mNm	11.27	21.60	21.70	18.51	13.46	
8 堵转电流(Stall current)	A	3.57	10.88	8.57	4.62	2.99	
9 最大效率(Max efficiency)	%	72	76	74	71	70	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	1.68	0.68	0.98	2.60	4.02	
11 转矩常数(Torque constant)	mNm/A	3.16	1.98	2.46	4.01	4.51	
12 速度常数(Speed constant)	rpm / V	2967	4718	3810	2333	2075	

其它特性参数Other characteristic parameters 46A电机曲线图



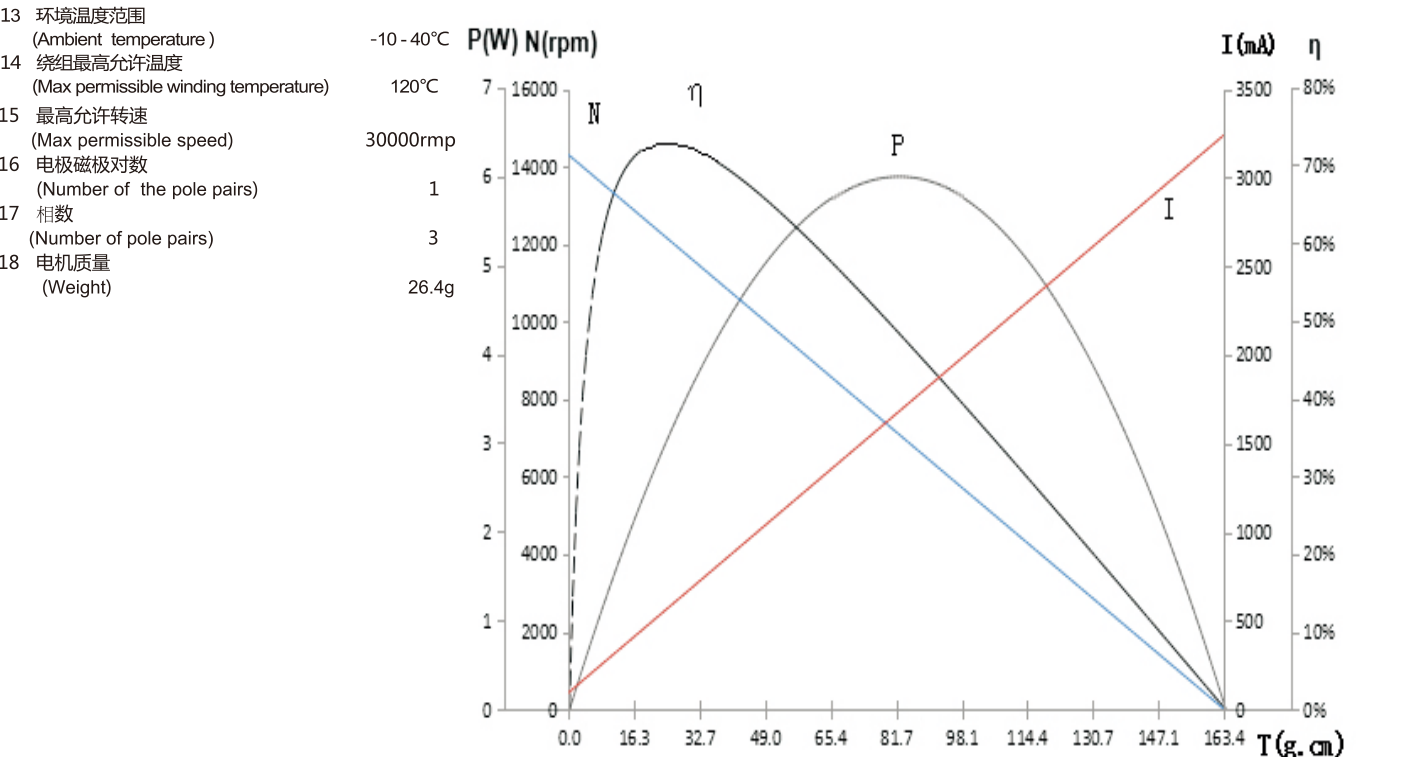
1722RB Slotless BLDC Motor



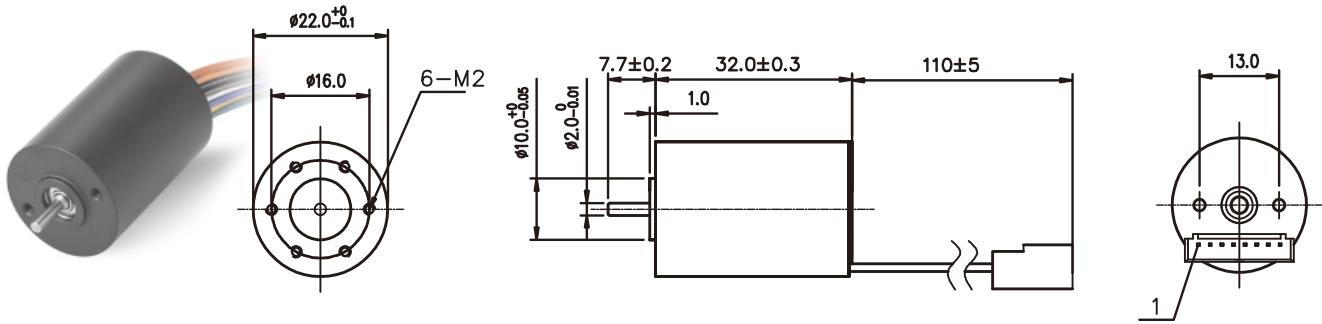
典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

电机参数 (Motor data)		09A	05A	07A	08A	06A	
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	7.4	7.4	7.4	12	24	
2 空载转速(No load speed)	rpm	14300	20000	25000	25000	23010	
3 空载电流(No load current)	mA	95	140	200	120	80	
4 额定转速(Nominal speed)	rpm	12550	16200	18625	19750	19213	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	2	5	5	5	5	
6 额定电流 (最大连续电流) (Nominal current)	A	0.48	1.54	1.94	1.20	0.56	
7 堵转转矩(Stall torque)	mNm	16.14	26.15	19.53	23.86	29.80	
8 堵转电流(Stall current)	A	3.33	7.55	7.05	5.31	3.05	
9 最大效率(Max efficiency)	%	73	77	73	75	74	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	2.22	0.98	1.05	2.26	7.88	
11 转矩常数(Torque constant)	mNm/A	4.85	3.46	2.77	4.49	9.77	
12 速度常数(Speed constant)	rpm / V	1932	2703	3378	2083	959	

其它特性参数Other characteristic parameters 09A电机曲线图



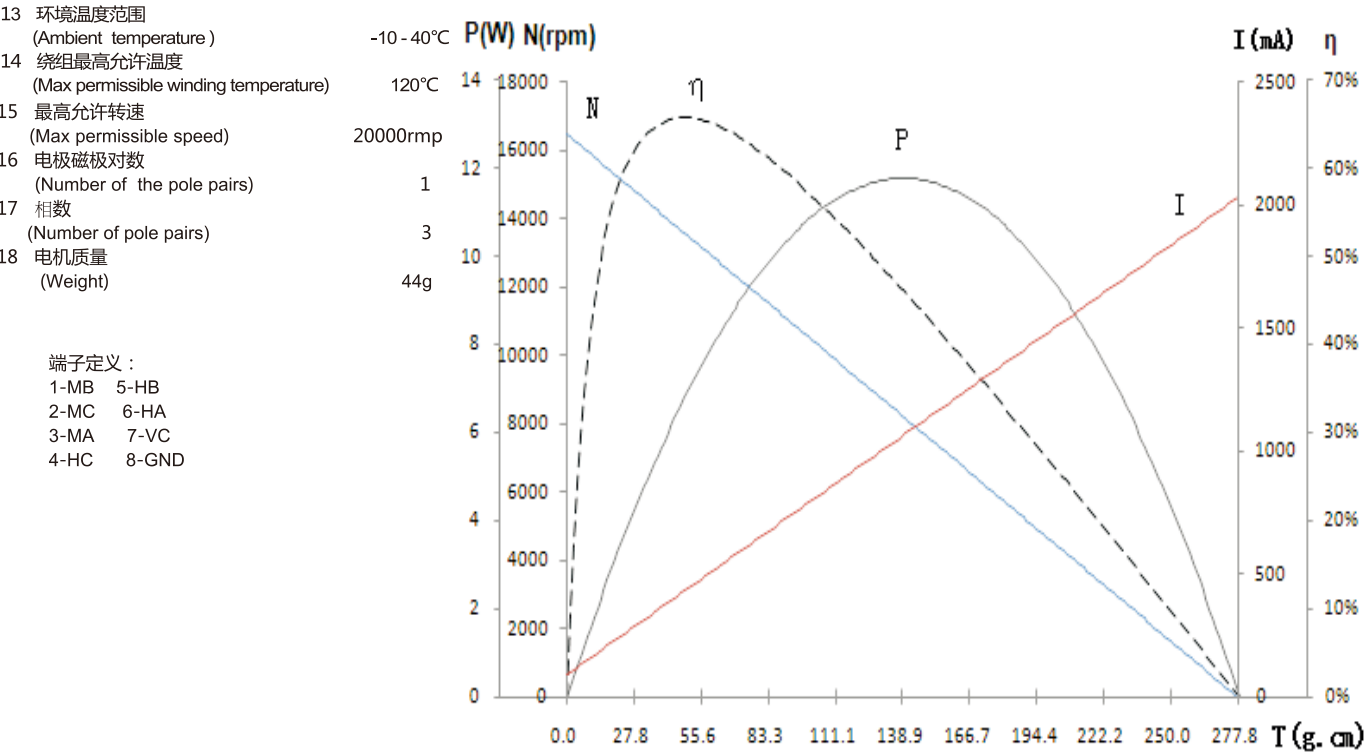
2232RB Slotless BLDC Motor



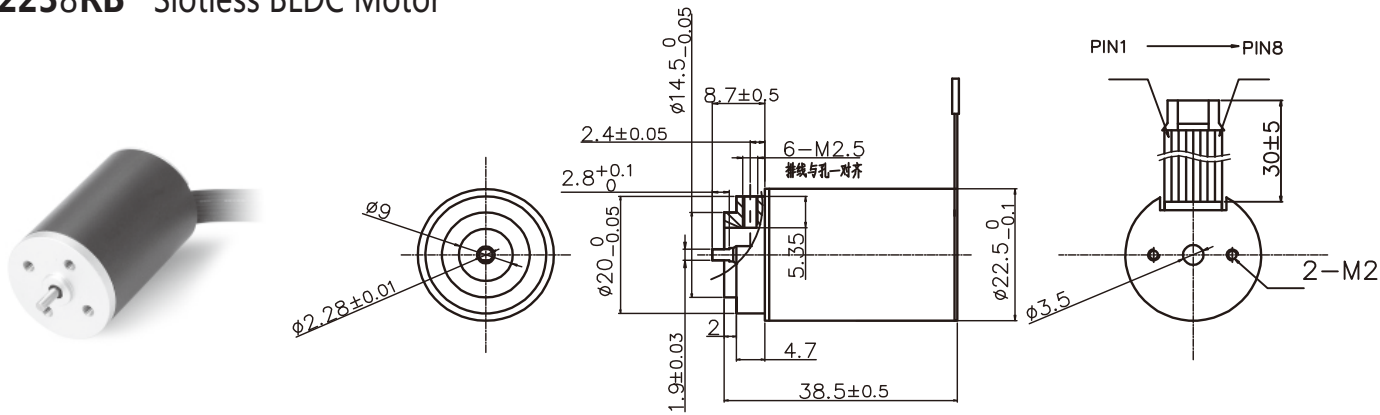
典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

电机参数 (Motor data)		03A	02A	01A		
额定电压下数值(Values at nominal voltage)						
1 额定电压(Nominal voltage)	v	12	12	24		
2 空载转速(No load speed)	rpm	7200	19200	16500		
3 空载电流(No load current)	mA	70	140	90		
4 额定转速(Nominal speed)	rpm	5616	16030	13530		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	2.5	5	5		
6 额定电流 (最大连续电流) (Nominal current)	A	0.21	0.97	0.44		
7 堵转转矩(Stall torque)	mNm	11.31	30.26	27.93		
8 堵转电流(Stall current)	A	0.73	5.17	2.05		
9 最大效率(Max efficiency)	%	58	73	68		
电机常数(Motor constant)						
10 相间电阻(Terminal resistance)	Ω	16.50	2.32	11.70		
11 转矩常数(Torque constant)	mNm/A	15.60	5.85	13.62		
12 速度常数(Speed constant)	rpm / V	600	1600	688		

其它特性参数Other characteristic parameters 01A电机曲线图



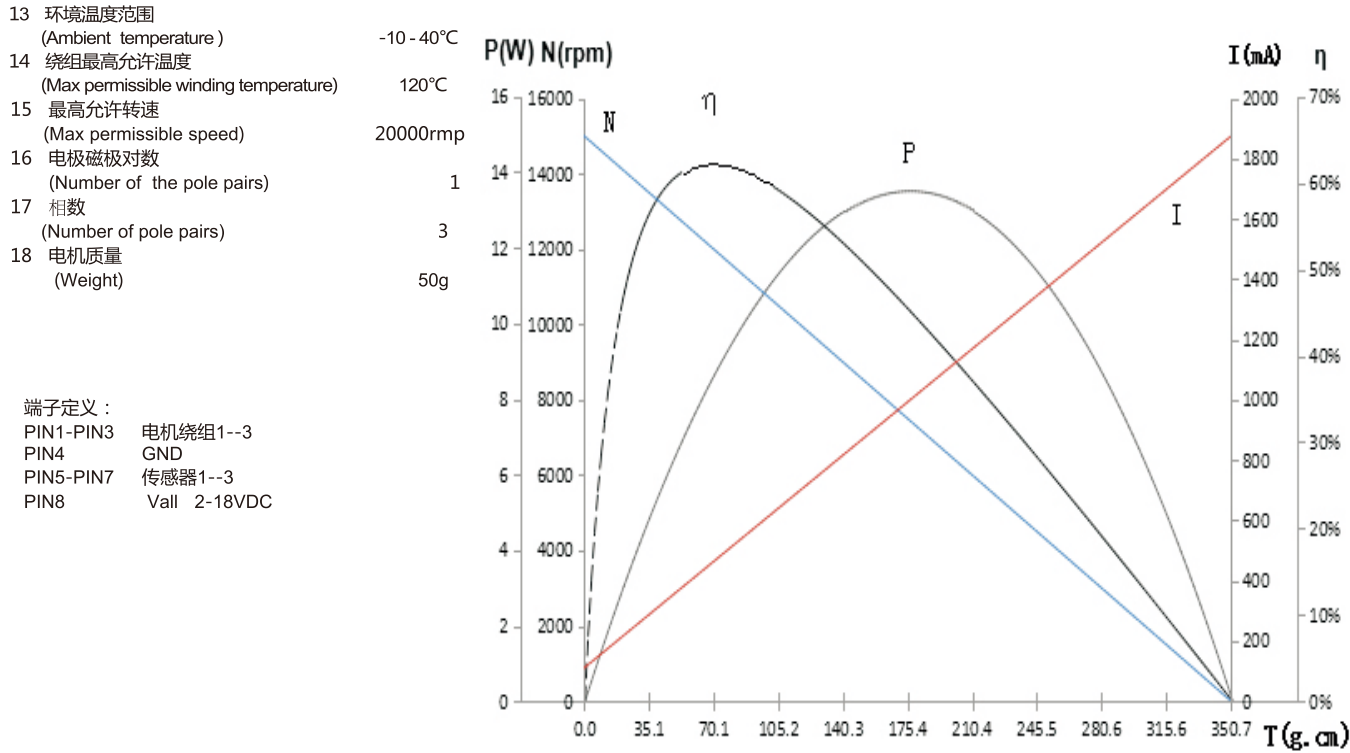
2238RB Slotless BLDC Motor



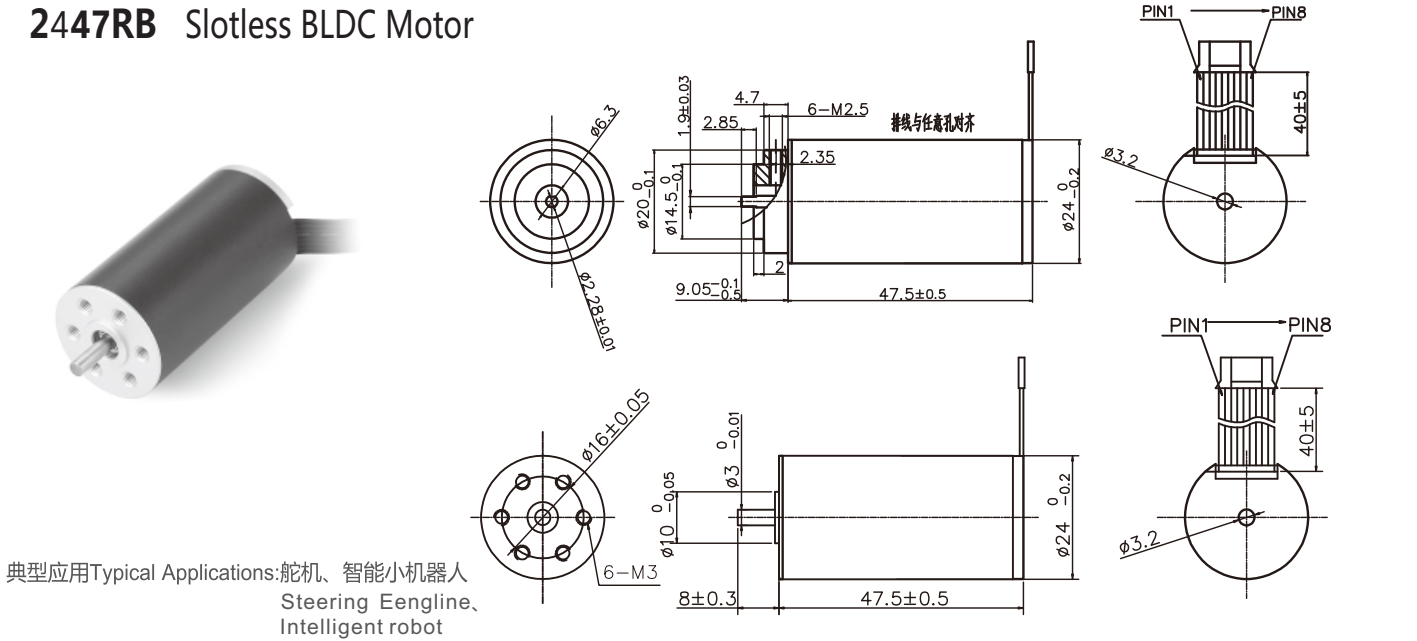
典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

电机参数 (Motor data)		11A	12A	10B	06B	
额定电压下数值(Values at nominal voltage)						
1 额定电压(Nominal voltage)	v	7.4	12	30	30	
2 空载转速(No load speed)	rpm	13000	12000	13200	15000	
3 空载电流(No load current)	mA	170	90	80	110	
4 额定转速(Nominal speed)	rpm	10725	10020	11154	12900	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	5	5	5	5	
6 额定电流 (最大连续电流) (Nominal current)	A	1.06	0.60	0.29	0.35	
7 堵转转矩(Stall torque)	mNm	28.16	30.20	31.75	35.10	
8 堵转电流(Stall current)	A	5.29	3.23	1.49	1.88	
9 最大效率(Max efficiency)	%	71	73	65	64	
电机常数(Motor constant)						
10 相间电阻(Terminal resistance)	Ω	1.40	3.72	20.10	16.00	
11 转矩常数(Torque constant)	mNm/A	5.33	9.36	21.28	18.73	
12 速度常数(Speed constant)	rpm / V	1757	1000	440	500	

其它特性参数Other characteristic parameters 06B电机曲线图



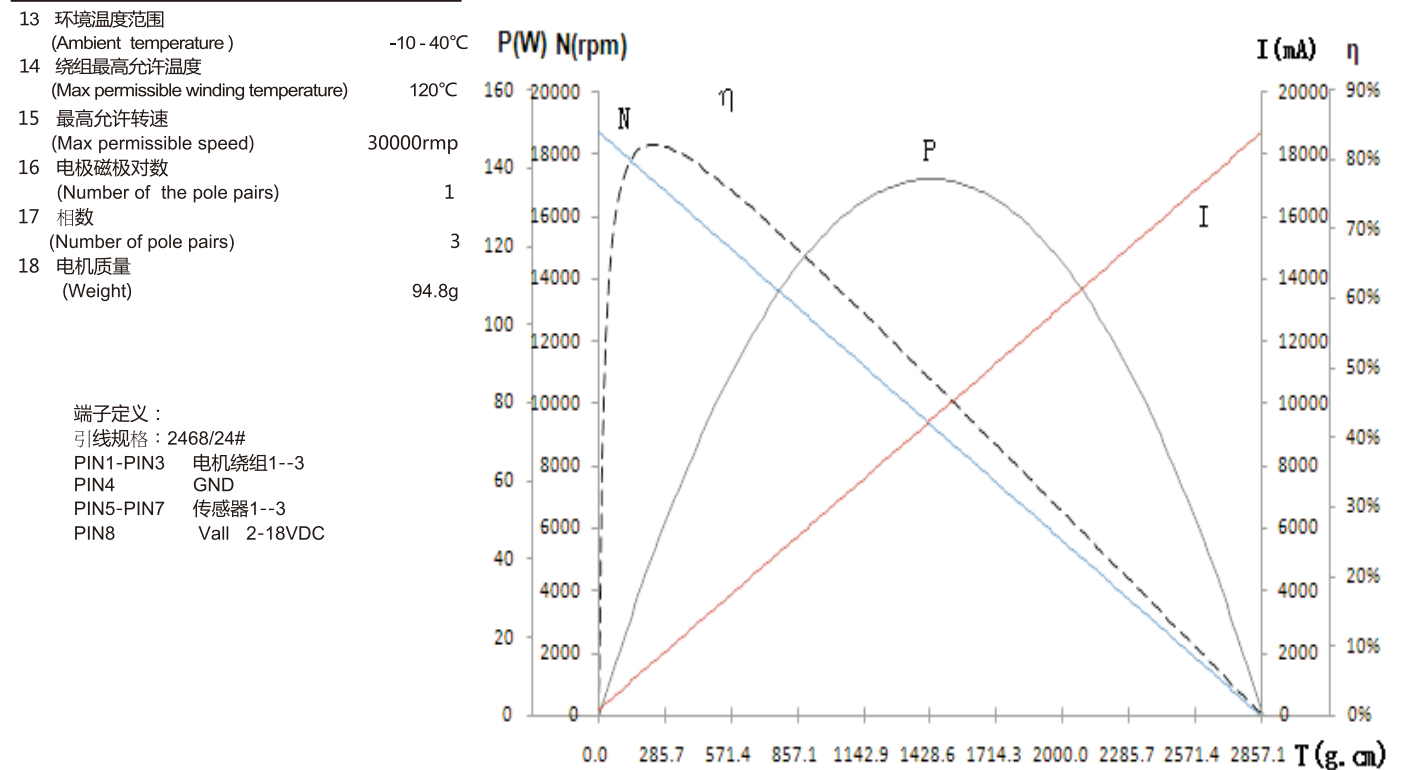
2447RB Slotless BLDC Motor



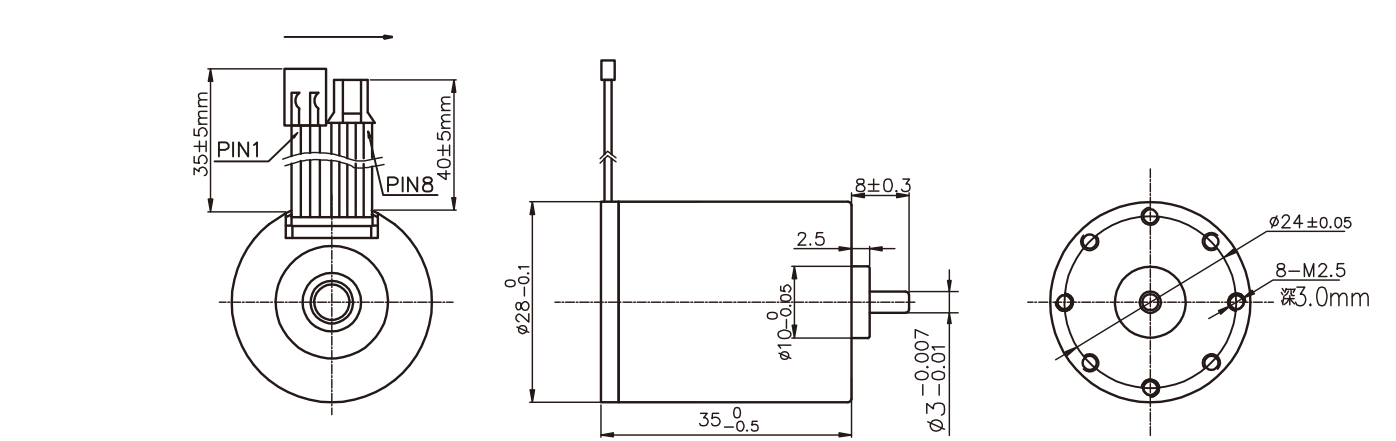
典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

电机参数 (Motor data)		05A	04A	02A	01A		
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	24	24	30	30		
2 空载转速(No load speed)	rpm	13000	24500	9100	18700		
3 空载电流(No load current)	mA	120	240	90	150		
4 额定转速(Nominal speed)	rpm	11700	22050	7870	17390		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	20	30	20	20		
6 额定电流 (最大连续电流) (Nominal current)	A	1.25	3.41	0.72	1.45		
7 堵转转矩(Stall torque)	mNm	197.52	293.47	146.97	281.60		
8 堵转电流(Stall current)	A	11.43	32.00	4.76	18.75		
9 最大效率(Max efficiency)	%	82	84	77	84		
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	2.10	0.75	6.30	1.60		
11 转矩常数(Torque constant)	mNm/A	17.29	9.17	30.87	15.02		
12 速度常数(Speed constant)	rpm / V	542	1021	303	623		

其它特性参数Other characteristic parameters 01A电机曲线图



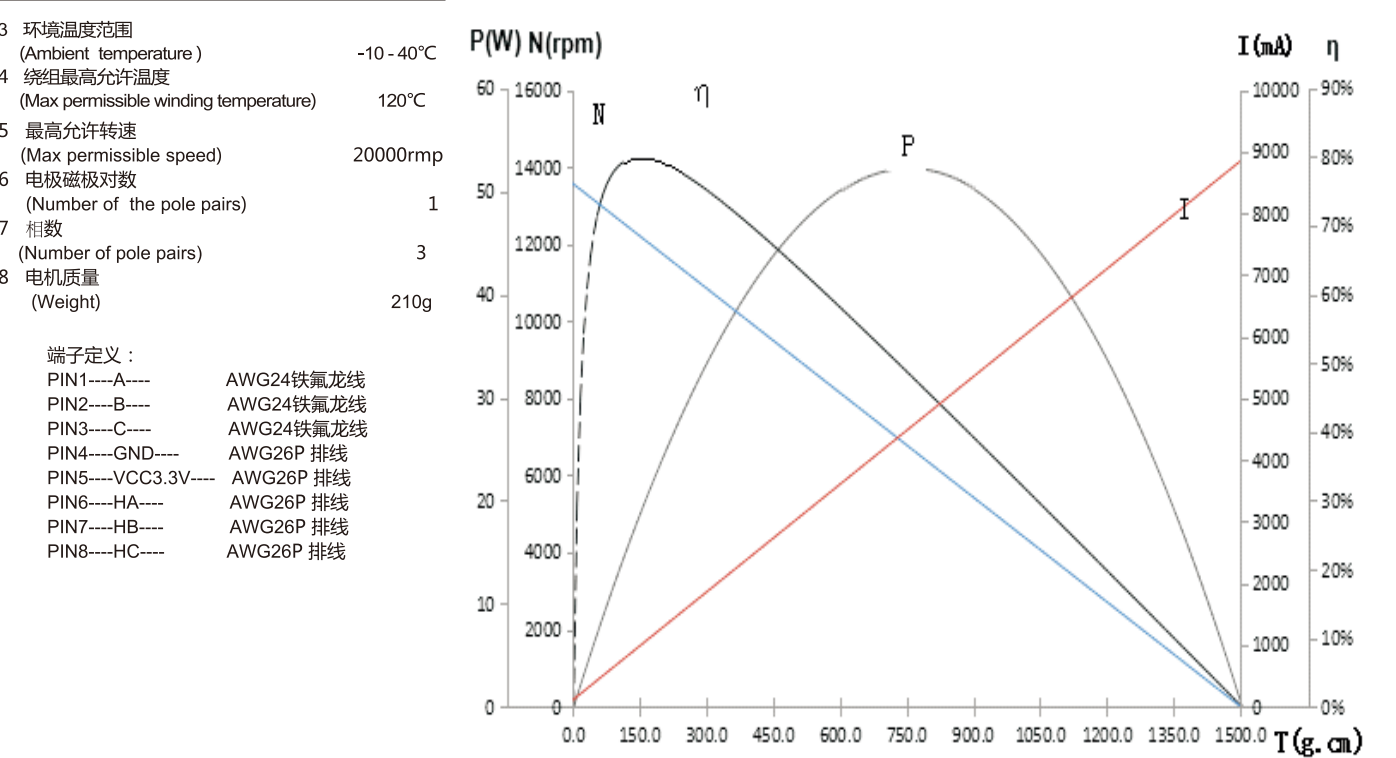
2835RB Slotless BLDC Motor



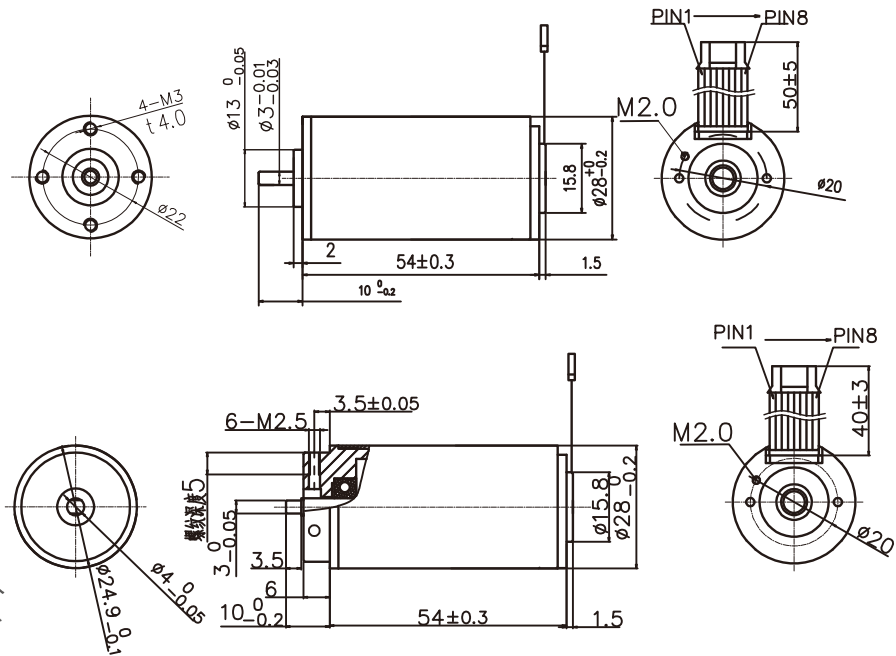
典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

电机参数 (Motor data)		03A	02A	05A	01A		
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	12	12	21	24		
2 空载转速(No load speed)	rpm	10000	13000	9000	13570		
3 空载电流(No load current)	mA	150	220	80	106		
4 额定转速(Nominal speed)	rpm	8550	11700	7600	12213		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	15	15	15	15		
6 额定电流 (最大连续电流) (Nominal current)	A	1.45	1.91	0.75	0.98		
7 堵转转矩(Stall torque)	mNm	102	148	96	147		
8 堵转电流(Stall current)	A	9.16	17.14	4.42	8.89		
9 最大效率(Max efficiency)	%	78	80	77	81		
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	1.31	0.70	4.75	2.70		
11 转矩常数(Torque constant)	mNm/A	11.24	8.64	21.85	16.56		
12 速度常数(Speed constant)	rpm / V	833	1083	429	565		

其它特性参数Other characteristic parameters 01A电机曲线图



2854RB Slotless BLDC Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

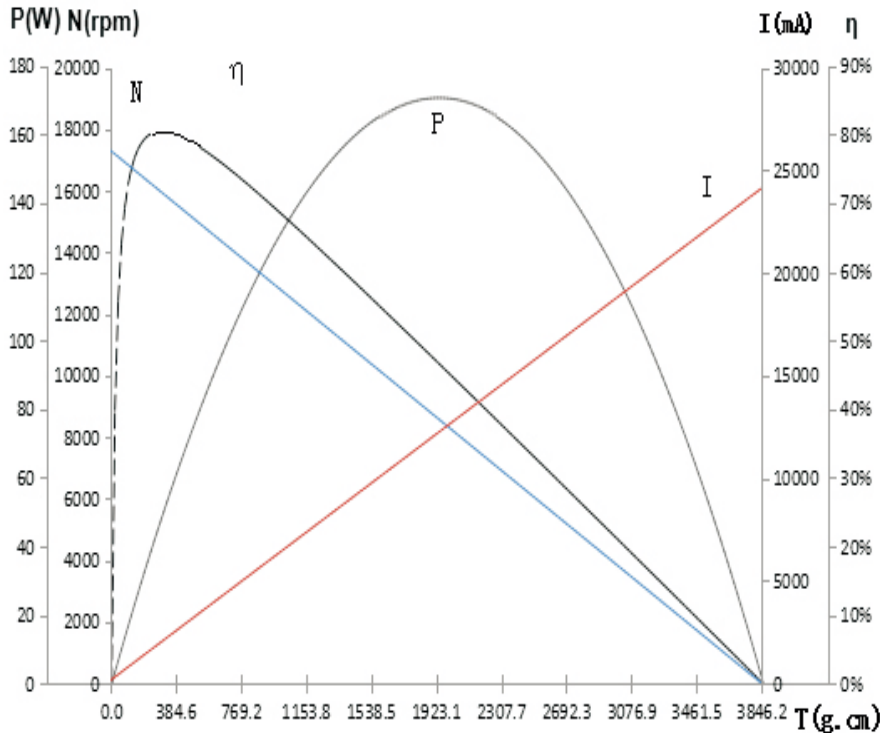
电机参数 (Motor data)		17A	02A	11A	16A		
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	V	30	30	30	36		
2 空载转速(No load speed)	rpm	9200	17300	18200	24000		
3 空载电流(No load current)	mA	260	165	260	530		
4 额定转速(Nominal speed)	rpm	7950	15051	15288	21000		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	105	50	50	50		
6 额定电流 (最大连续电流) (Nominal current)	A	3.74	3.28	3.48	4.03		
7 堵转转矩(Stall torque)	mNm	796	383	314	401		
8 堵转电流(Stall current)	A	26.09	23.62	20.41	28.57		
9 最大效率(Max efficiency)	%	82	82	80	77		
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	1.15	1.27	1.47	1.26		
11 转矩常数(Torque constant)	mNm/A	30.53	16.24	15.43	14.04		
12 速度常数(Speed constant)	rpm / V	307	577	607	667		

其它特性参数Other characteristic parameters

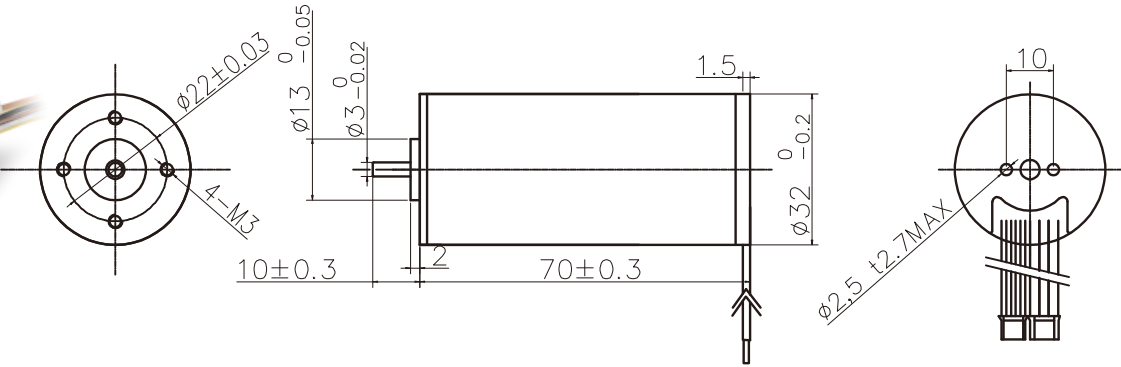
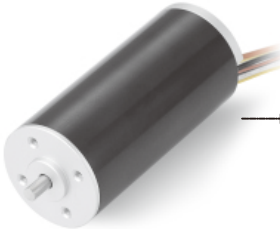
- 13 环境温度范围 (Ambient temperature) -10 - 40℃
- 14 绕组最高允许温度 (Max permissible winding temperature) 120℃
- 15 最高允许转速 (Max permissible speed) 30000rpm
- 16 电极磁极对数 (Number of the pole pairs) 1
- 17 相数 (Number of pole pairs) 3
- 18 电机质量 (Weight) 147g

端子定义：
PIN1-PIN3 电机绕组1--3
PIN4 GND
PIN5-PIN7 传感器1--3
PIN8 Vall 2-18VDC

02A电机曲线图



3270RB Slotless BLDC Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

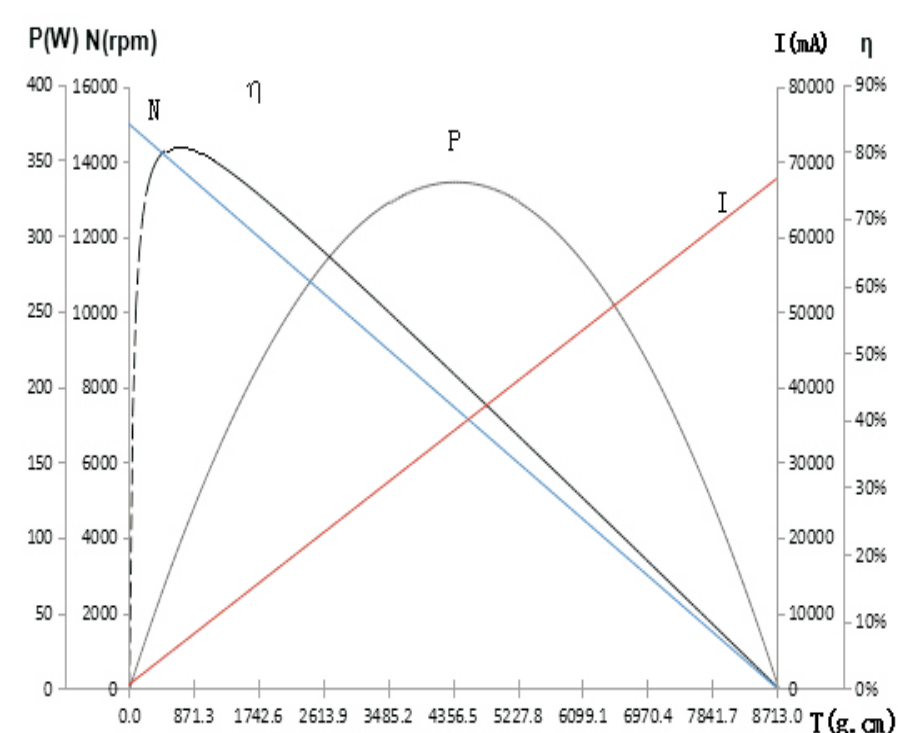
电机参数 (Motor data)		03A	02A				
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	V	21	40				
2 空载转速(No load speed)	rpm	15000	15500				
3 空载电流(No load current)	mA	440	190				
4 额定转速(Nominal speed)	rpm	13275	13800				
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	100	100				
6 额定电流 (最大连续电流) (Nominal current)	A	8.17	4.37				
7 堵转转矩(Stall torque)	mNm	887	966				
8 堵转电流(Stall current)	A	67.74	40				
9 最大效率(Max efficiency)	%	85	87				
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.31	1.00				
11 转矩常数(Torque constant)	mNm/A	13.11	24.16				
12 速度常数(Speed constant)	rpm / V	714	388				

其它特性参数Other characteristic parameters

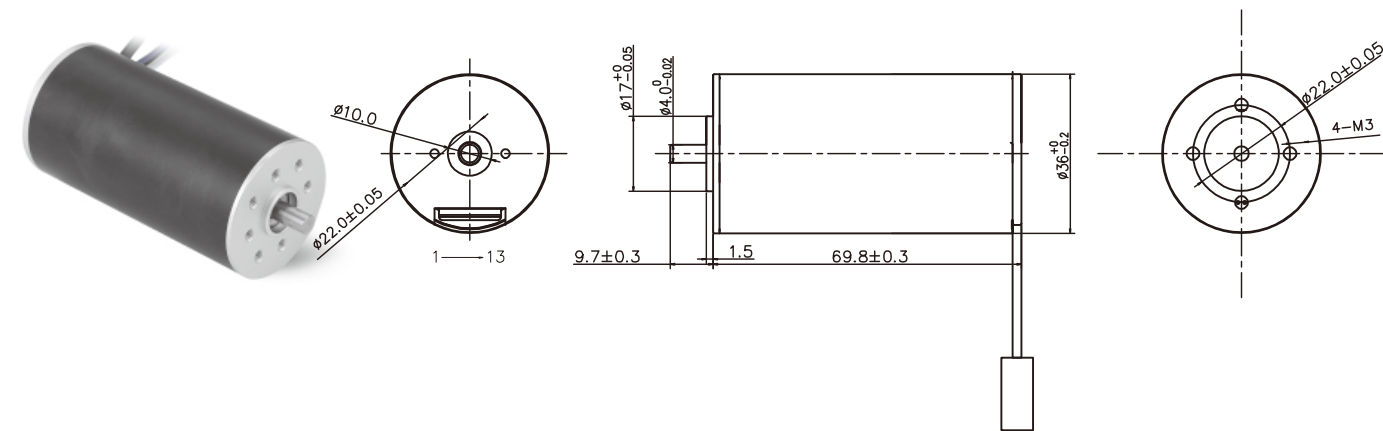
- 13 环境温度范围 (Ambient temperature) -10 - 40℃
- 14 绕组最高允许温度 (Max permissible winding temperature) 120℃
- 15 最高允许转速 (Max permissible speed) 20000rpm
- 16 电极磁极对数 (Number of the pole pairs) 1
- 17 相数 (Number of pole pairs) 3
- 18 电机质量 (Weight) 225g

端子定义：
PIN1-PIN3 电机绕组C B A
PIN4 GND
PIN5-PIN7 传感器HC
PIN8 VCC

03A电机曲线图



3670RB Slotless BLDC Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、Intelligent robot

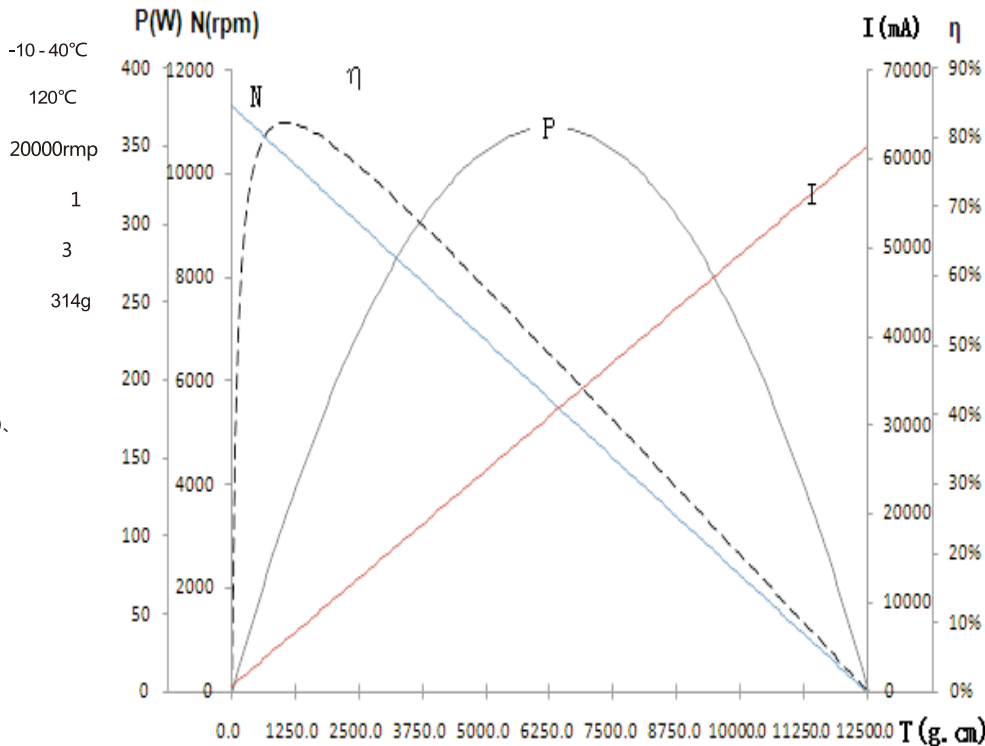
电机参数 (Motor data)		02A	01A	04A		
额定电压下数值(Values at nominal voltage)						
1 额定电压(Nominal voltage)	v	24	24	30		
2 空载转速(No load speed)	rpm	11300	16700	12000		
3 空载电流(No load current)	mA	540	1050	300		
4 额定转速(Nominal speed)	rpm	10396	14926	9960		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	100	200	200		
6 额定电流 (最大连续电流) (Nominal current)	A	5.40	15.76	8.74		
7 堵转转矩(Stall torque)	mNm	1223	1899	1170		
8 堵转电流(Stall current)	A	61.54	141.18	50.00		
9 最大效率(Max efficiency)	%	83	84	86		
电机常数(Motor constant)						
10 相间电阻(Terminal resistance)	Ω	0.39	0.17	0.60		
11 转矩常数(Torque constant)	mNm/A	19.89	13.46	23.40		
12 速度常数(Speed constant)	rpm / V	471	696	400		

其它特性参数Other characteristic parameters

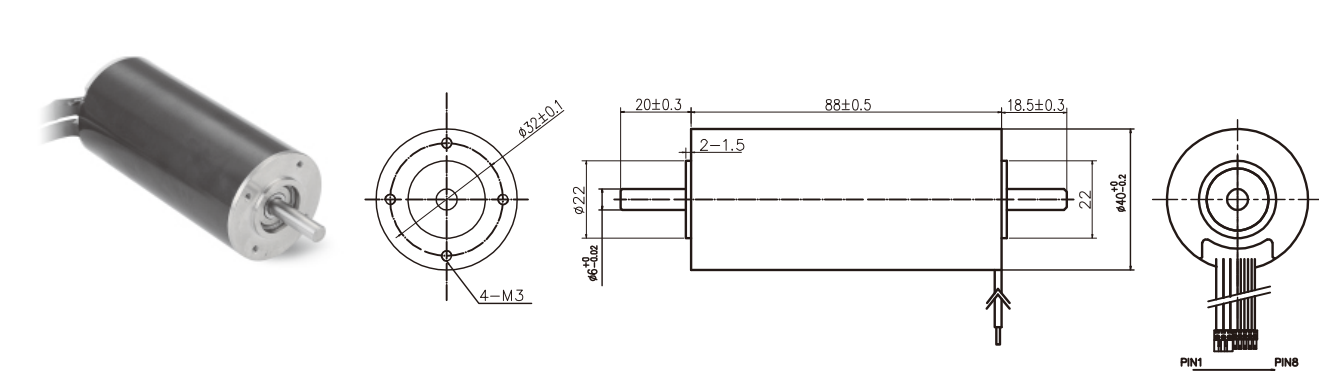
02A电机曲线图

- 13 环境温度范围
(Ambient temperature)
- 10 - 40℃
- 14 绕组最高允许温度
(Max permissible winding temperature)
- 120℃
- 15 最高允许转速
(Max permissible speed)
- 20000rpm
- 16 电极磁极对数
(Number of the pole pairs)
- 1
- 17 相数
(Number of pole pairs)
- 3
- 18 电机质量
(Weight)
- 314g

连接端子A:JST A2001H-6P PH2.0
UL1332 PTEF AWG24
1-VCC(black)、2-HA(black)、3-HB(black)、
4-HC(black)、5-GND(black)
连接端子B:VHR-3N PH3.96
UI1430 AWG20 PVC
6-MA(blue) 7-MB(black) 8-MC(white)
连接端子线C:JST A2001H-5P PH2.0
UI1332 AWG PTEF
9-A(blue) 10-B(blue)
11-I(blue) 12-Vcc(blue) 13-GND(blue)



4088RB Slotless BLDC Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、Intelligent robot

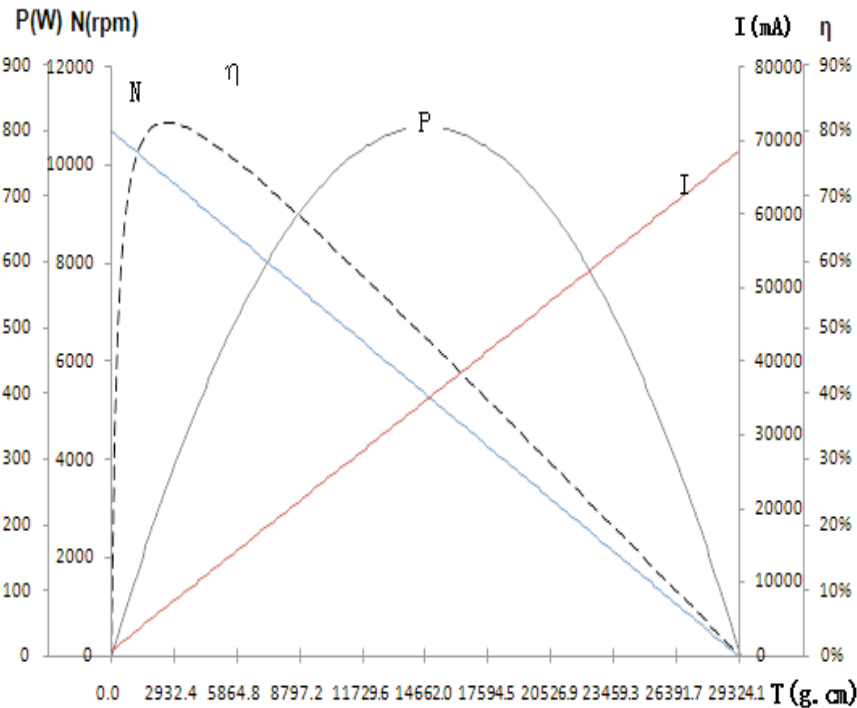
电机参数 (Motor data)		01A				
额定电压下数值(Values at nominal voltage)						
1 额定电压(Nominal voltage)	v	48				
2 空载转速(No load speed)	rpm	10700				
3 空载电流(No load current)	mA	650				
4 额定转速(Nominal speed)	rpm	9576				
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	302				
6 额定电流 (最大连续电流) (Nominal current)	A	7.78				
7 堵转转矩(Stall torque)	mNm	2879				
8 堵转电流(Stall current)	A	68.57				
9 最大效率(Max efficiency)	%	83				
电机常数(Motor constant)						
10 相间电阻(Terminal resistance)	Ω	0.70				
11 转矩常数(Torque constant)	mNm/A	42.00				
12 速度常数(Speed constant)	rpm / V	223				

其它特性参数Other characteristic parameters

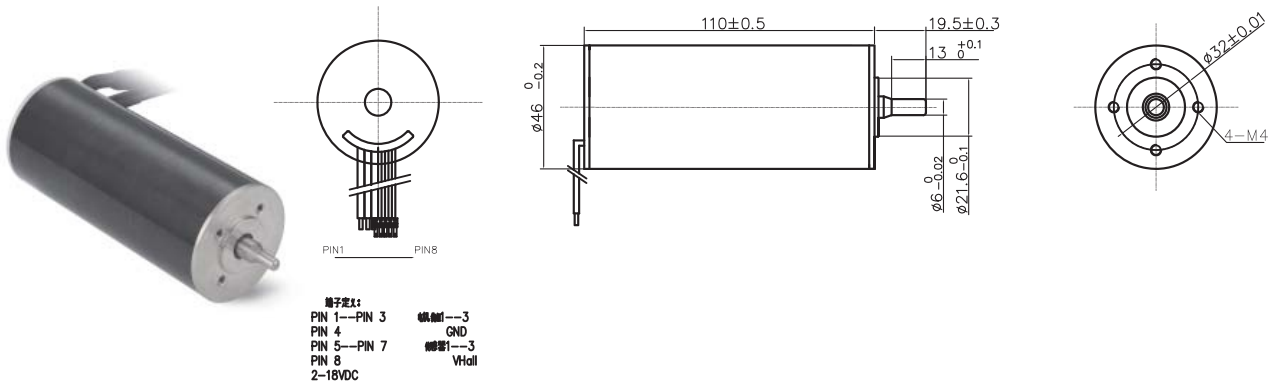
01A电机曲线图

- 13 环境温度范围
(Ambient temperature)
- 10 - 40℃
- 14 绕组最高允许温度
(Max permissible winding temperature)
- 120℃
- 15 最高允许转速
(Max permissible speed)
- 20000rpm
- 16 电极磁极对数
(Number of the pole pairs)
- 1
- 17 相数
(Number of pole pairs)
- 3
- 18 电机质量
(Weight)
- 457g

端子定义：
PIN1-PIN3 电机绕组--3
PIN4 GND
PIN5-PIN7 传感器1--3
PIN8 VHall 2-18DC

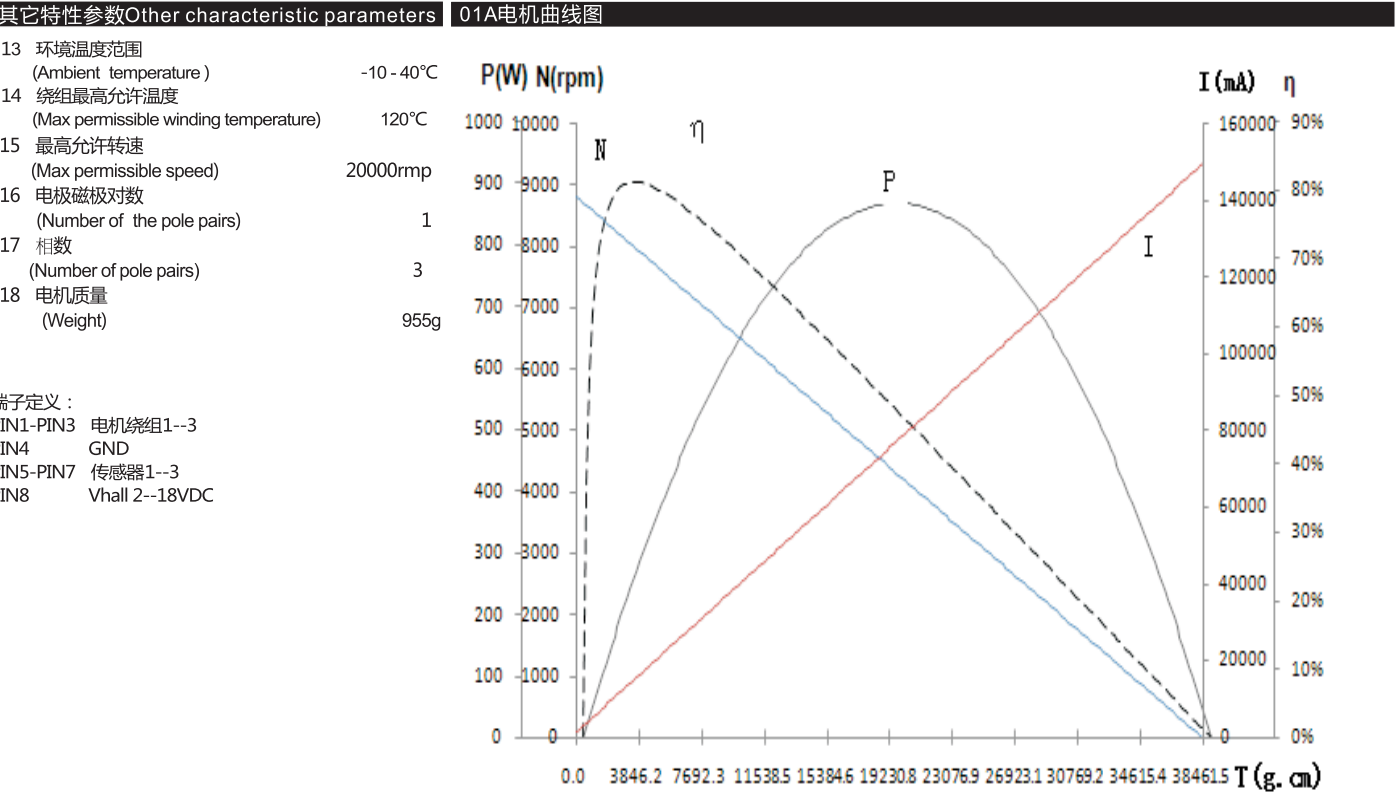


46110RB Slotless BLDC Motor

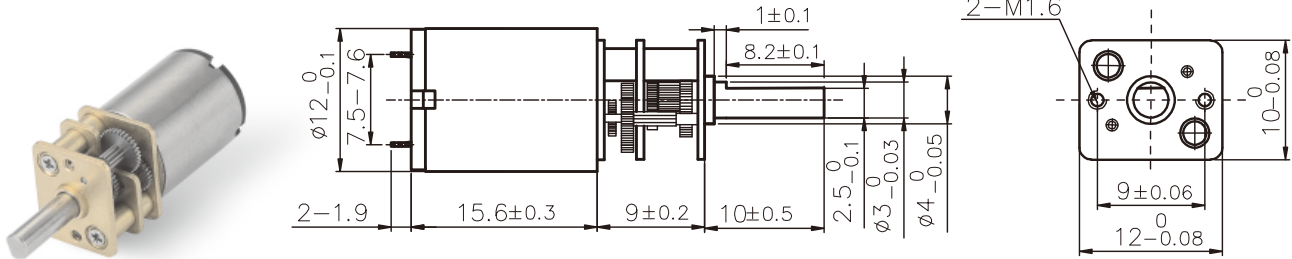


典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

电机参数 (Motor data)		01A					
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	24					
2 空载转速(No load speed)	rpm	8800					
3 空载电流(No load current)	mA	1200					
4 额定转速(Nominal speed)	rpm	7656					
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	500					
6 额定电流 (最大连续电流) (Nominal current)	A	20.54					
7 堵转转矩(Stall torque)	mNm	3829					
8 堵转电流(Stall current)	A	150					
9 最大效率(Max efficiency)	%	84					
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.16					
11 转矩常数(Torque constant)	mNm/A	25.53					
12 速度常数(Speed constant)	rpm / V	367					



1215RG Coreless Brush Gear Motor

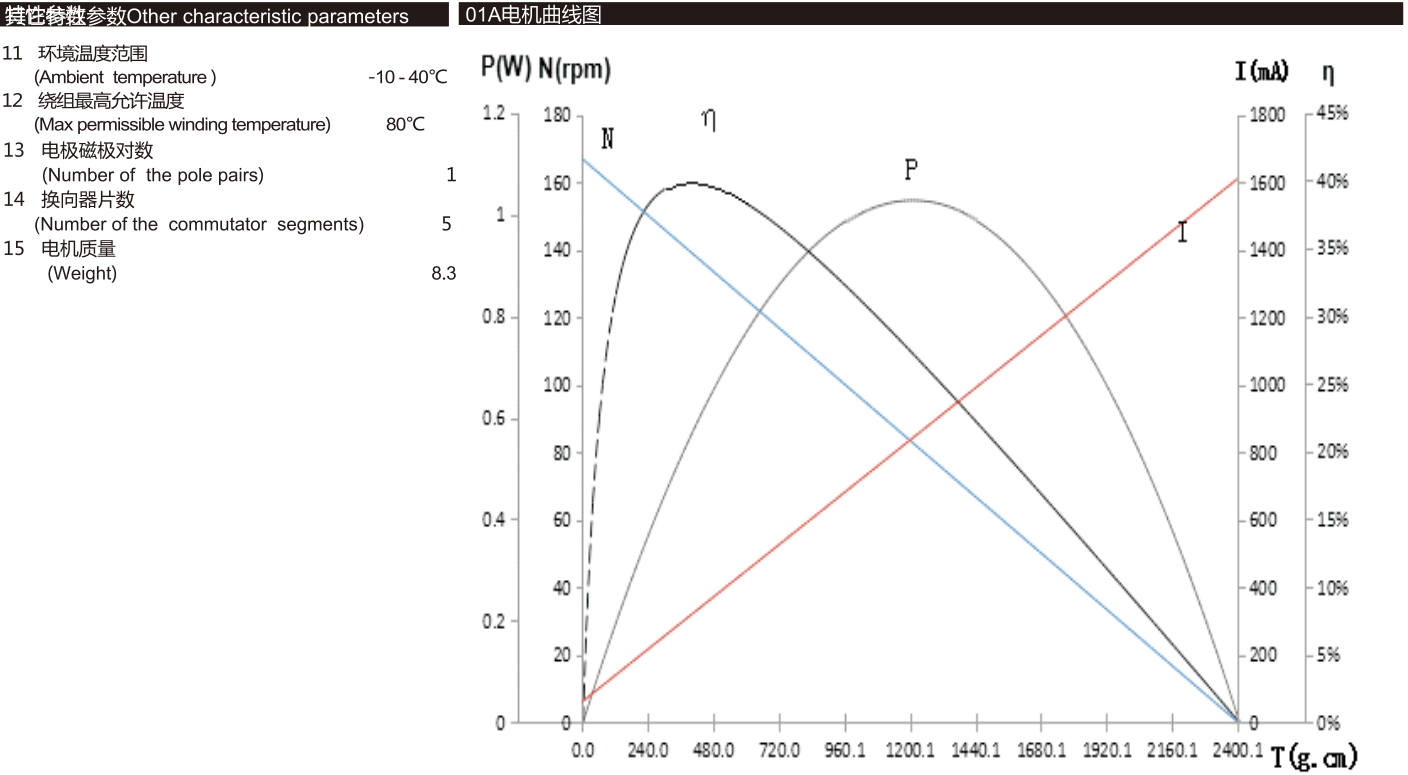


典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

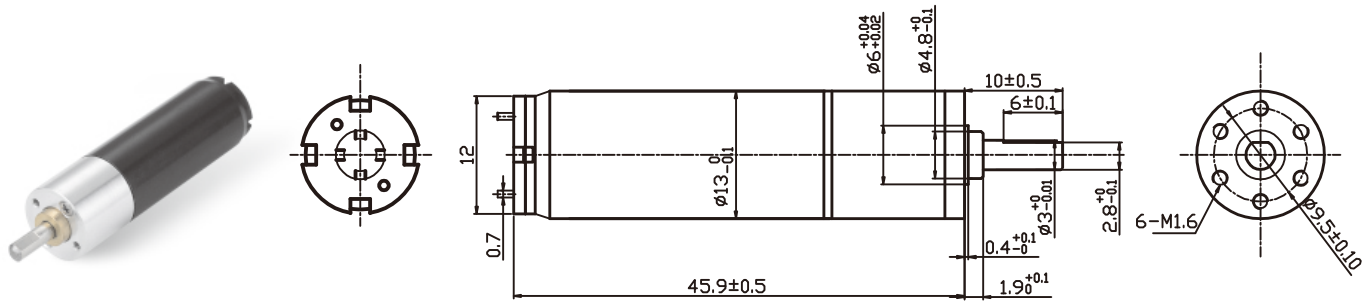
齿轮减速比

i	3	5	10	17	20	30	36	50	63	100	110
	150	210	250	298	380						

电机参数 (Motor data)		01A	02A	03A	04A	05A	
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	4.5	4.5	7.4	7.4	12	
2 空载转速(No load speed)	rpm	166	190	254	190	281	
3 空载电流(No load current)	mA	60	60	60	30	40	
4 额定转速(Nominal speed)	rpm	133	152	203	143	211	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	48	50	69	72	167	
6 额定电流 (最大连续电流) (Nominal current)	A	0.37	0.43	0.47	0.36	0.74	
7 堵转转矩(Stall torque)	mNm	238	251	343	287	667	
8 堵转电流(Stall current)	A	1.61	1.88	2.11	1.32	2.79	
9 最大效率(Max efficiency)	%	42	42	42	44	46	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	2.80	2.40	3.50	5.60	4.30	



1332RG Coreless Brush Gear Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、Intelligent robot

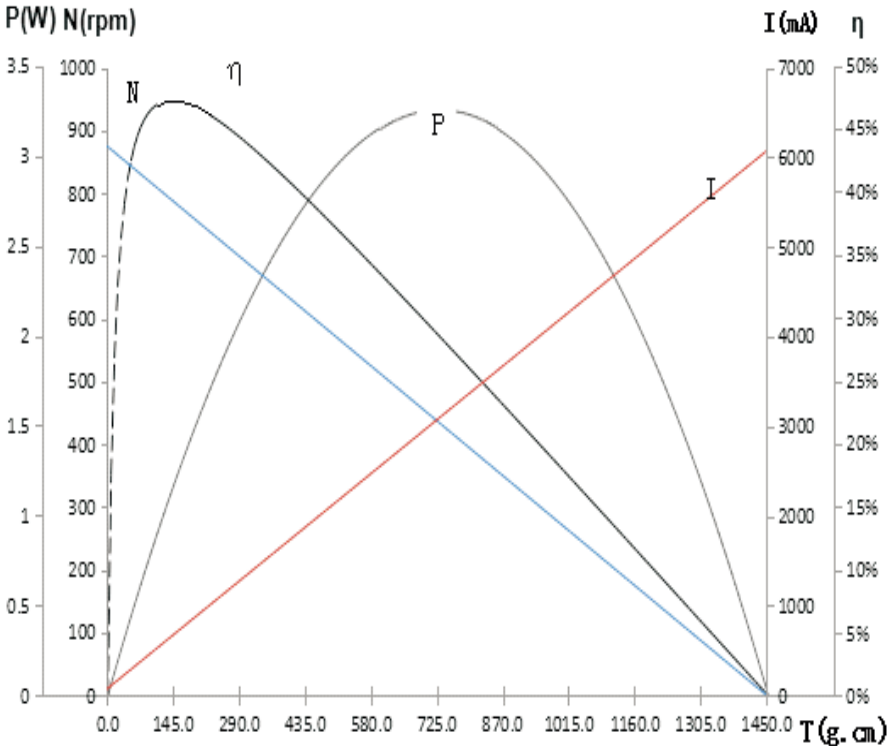
齿轮减速比

i	3	7	10	16	17	20	30	35	50	63	70
	86	115	150	210	250	360					

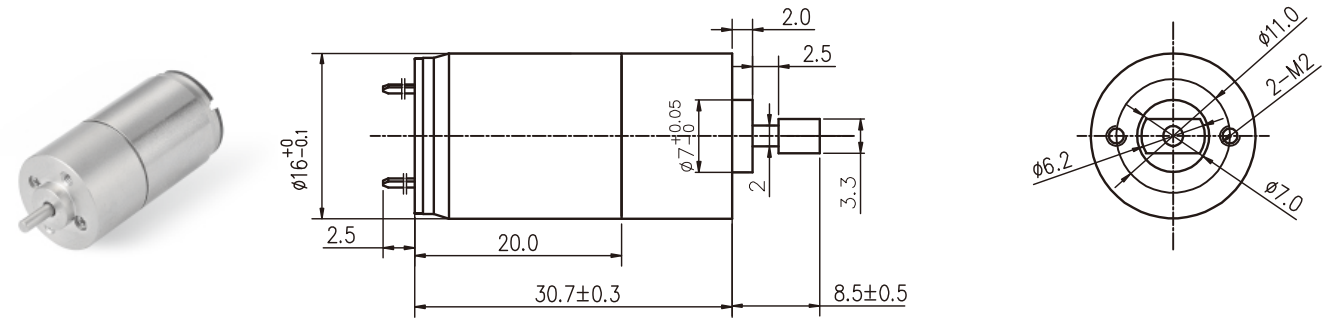
电机参数 (Motor data)		01A	02A	03A	04A	05A	
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	3.7	5	7.2	12	12	
2 空载转速(No load speed)	rpm	875	606	750	562	593	
3 空载电流(No load current)	mA	70	25	18	15	10	
4 额定转速(Nominal speed)	rpm	700	485	560	420	475	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	29	24	32	28	22	
6 额定电流 (最大连续电流) (Nominal current)	A	1.27	0.53	0.61	0.25	0.20	
7 堵转转矩(Stall torque)	mNm	146	118	127	111	108	
8 堵转电流(Stall current)	A	6.17	2.55	2.36	0.93	0.96	
9 最大效率(Max efficiency)	%	48	48	48	48	48	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.60	1.96	3.05	12.9	12.5	

其它特性参数Other characteristic parameters 01A电机曲线图

- 11 环境温度范围 (Ambient temperature) -10 - 40℃
- 12 绕组最高允许温度 (Max permissible winding temperature) 80℃
- 13 电极磁极对数 (Number of the pole pairs) 1
- 14 换向器片数 (Number of the commutator segments) 5
- 15 电机质量 (Weight) 27g



1620RG Coreless Brush Gear Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、Intelligent robot

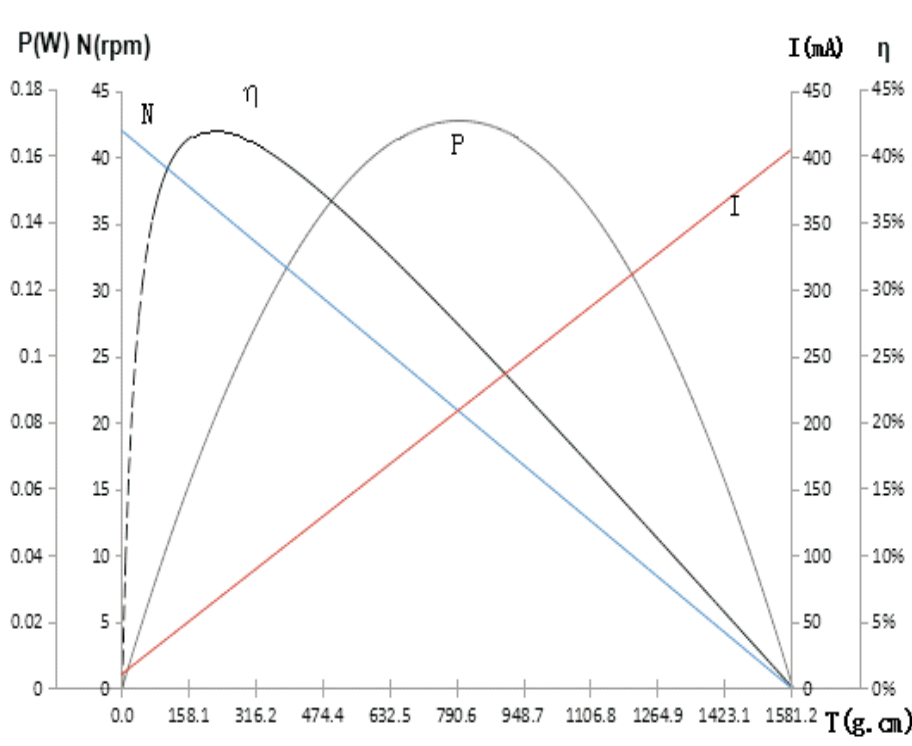
齿轮减速比

i	4	14	16	19	29	53	62	72	84	104	128
	510	231	316	370	455	561	690	1014	1621	1996	3027

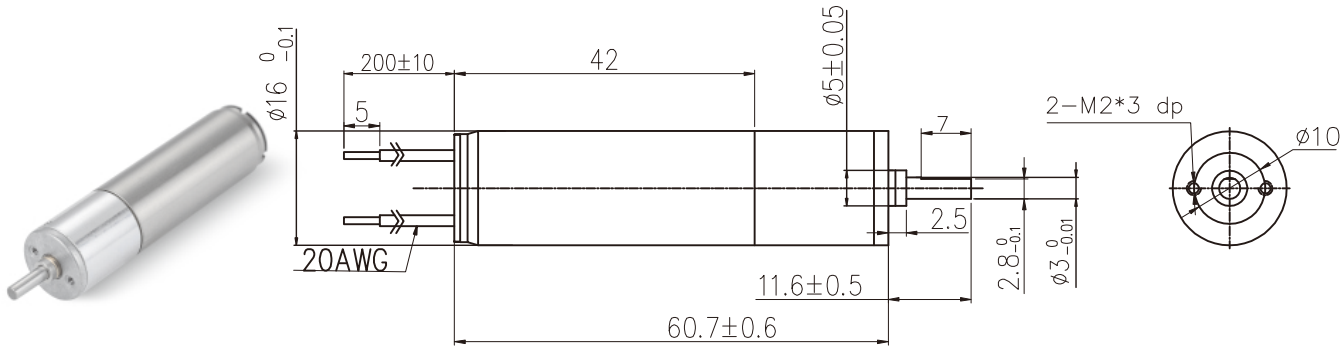
电机参数 (Motor data)		01A	02A	03A	04A	05A	06A
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	3	4	4.5	8	12	24
2 空载转速(No load speed)	rpm	42	67	98	90	113	110
3 空载电流(No load current)	mA	10	20	35	15	23	10
4 额定转速(Nominal speed)	rpm	34	54	78	72	90	88
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	32	59	70	79	94	112
6 额定电流 (最大连续电流) (Nominal current)	A	0.09	0.19	0.30	0.17	0.18	0.10
7 堵转转矩(Stall torque)	mNm	158	297	350	396	468	561
8 堵转电流(Stall current)	A	0.40	0.89	1.36	0.80	0.79	0.46
9 最大效率(Max efficiency)	%	42	43	42	43	42	43
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	7.50	4.50	3.30	10.00	15.20	52

其它特性参数Other characteristic parameters 01A电机曲线图

- 11 环境温度范围 (Ambient temperature) -10 - 40℃
- 12 绕组最高允许温度 (Max permissible winding temperature) 80℃
- 13 电极磁极对数 (Number of the pole pairs) 1
- 14 换向器片数 (Number of the commutator segments) 5
- 15 电机质量 (Weight) 28.6g



1642RG Coreless Brush Gear Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

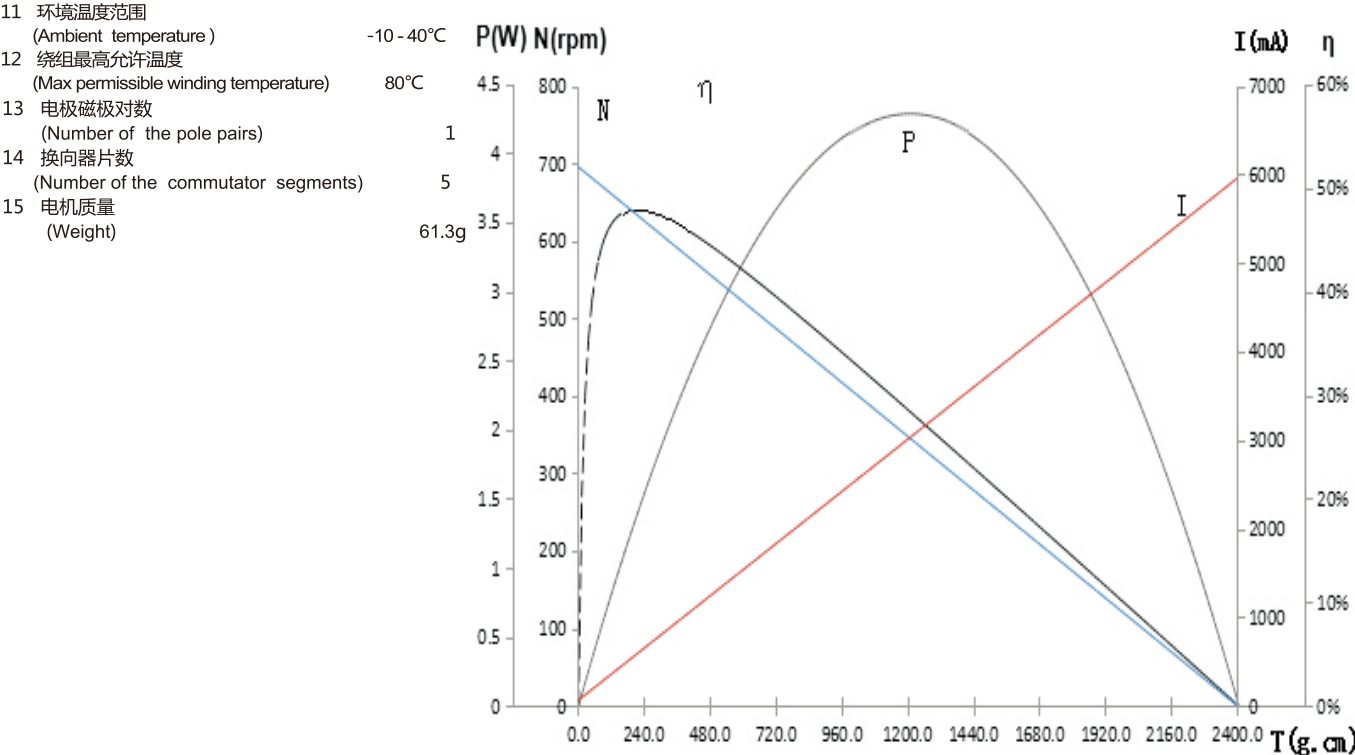
齿轮减速比

i	4	14	16	19	29	53	62	72	84	104	128
	510	231	316	370	455	561	690	1014	1621	1996	3027

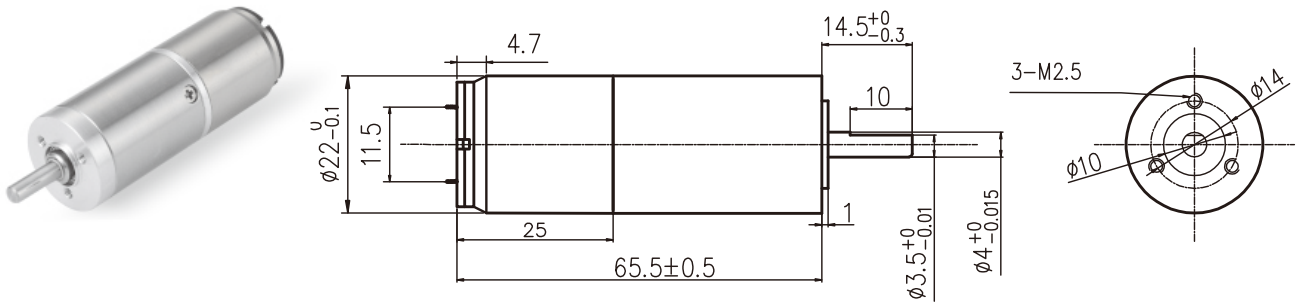
电机参数 (Motor data)		01A	02A	03A	04A		
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	5	6	12	24		
2 空载转速(No load speed)	rpm	696	947	716	928		
3 空载电流(No load current)	mA	55	42	31	9		
4 额定转速(Nominal speed)	rpm	522	757	572	742		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	60	63	44	71		
6 额定电流 (最大连续电流) (Nominal current)	A	1.53	1.78	0.49	0.49		
7 堵转转矩(Stall torque)	mNm	239	314	220	354		
8 堵转电流(Stall current)	A	5.81	8.82	2.33	2.43		
9 最大效率(Max efficiency)	%	47	45	45	47		
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.86	0.68	5.14	9.85		

其它特性参数Other characteristic parameters

01A电机曲线图



2225RG Coreless Brush Gear Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

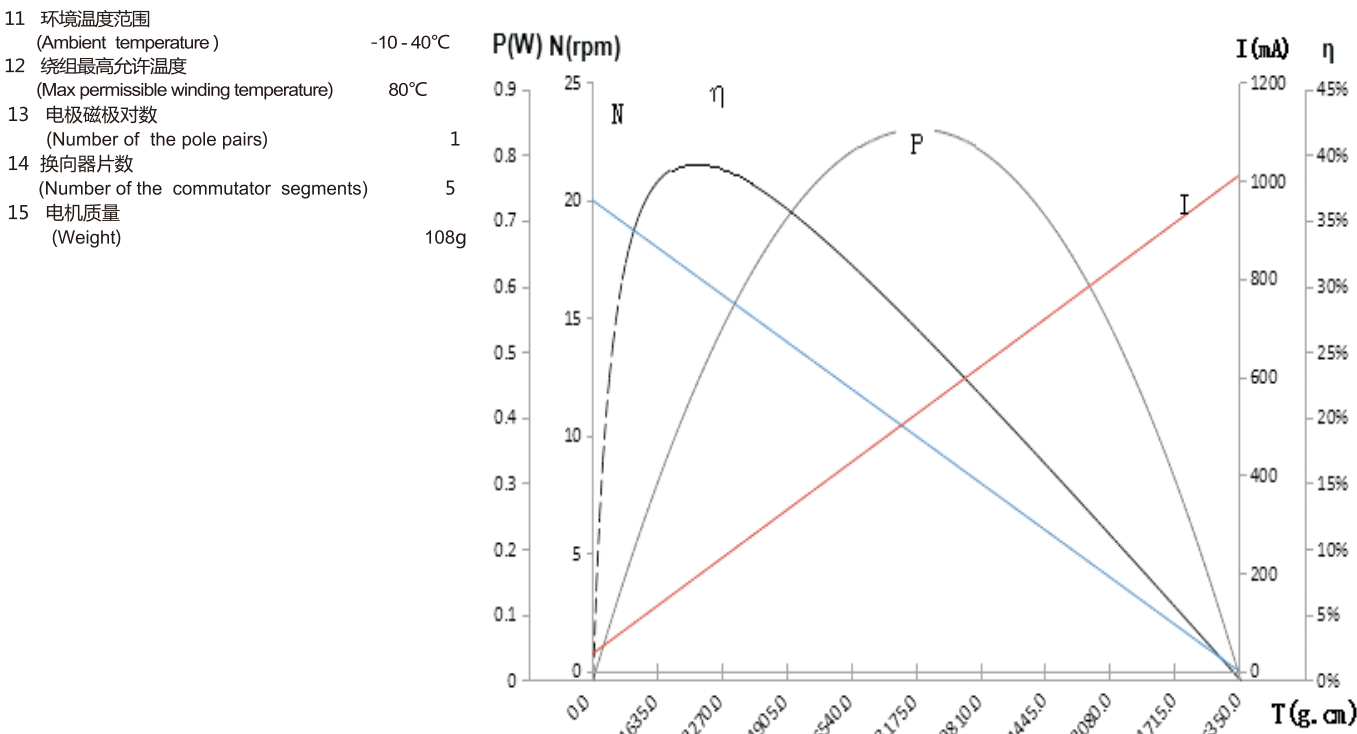
齿轮减速比

i	4	14	16	19	53	62	72	84	104	198	231
	316	370	455	742	1014	1621	1996				

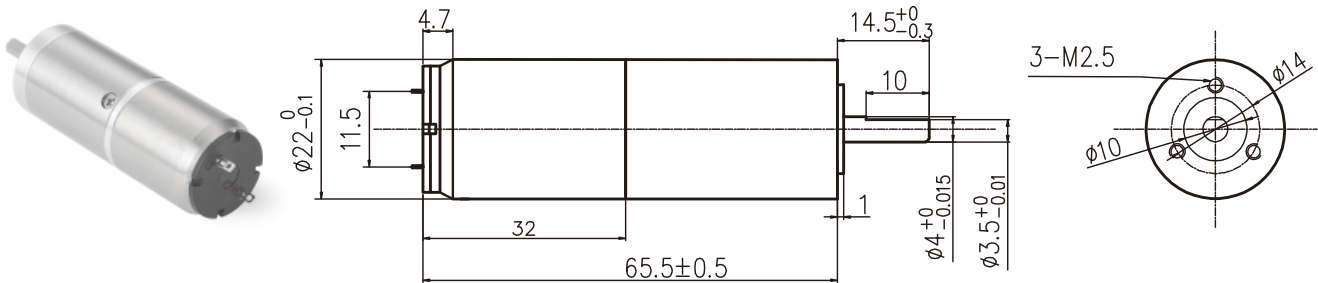
电机参数 (Motor data)		01A	02A	03A			
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	6	12	12			
2 空载转速(No load speed)	rpm	20	42	44			
3 空载电流(No load current)	mA	35	42	35			
4 额定转速(Nominal speed)	rpm	16	34	33			
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	327	785	1432			
6 额定电流 (最大连续电流) (Nominal current)	A	0.23	0.53	0.97			
7 堵转转矩(Stall torque)	mNm	1636	3927	5729			
8 堵转电流(Stall current)	A	1	2.5	3.75			
9 最大效率(Max efficiency)	%	42	43	47			
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	6.00	4.80	3.20			

其它特性参数Other characteristic parameters

01A电机曲线图



2232RG Coreless Brush Gear Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

齿轮减速比

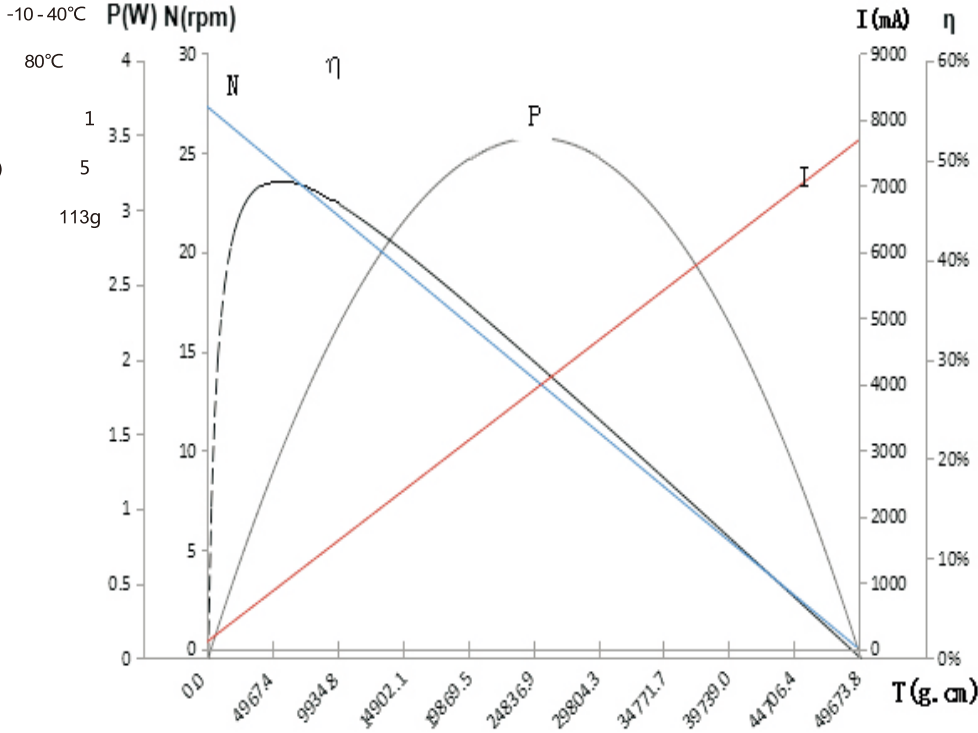
i	4	14	16	19	53	62	72	84	104	198	231
	316	370	455	742	1014	1621	1996				

电机参数 (Motor data)		01A	02A	03A	04A	05A	
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	3	5	6	12	12	
2 空载转速(No load speed)	rpm	27	32	33	40	48	
3 空载电流(No load current)	mA	114	140	59	44	50	
4 额定转速(Nominal speed)	rpm	21	26	26	30	36	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	1218	1224	1002	2117	2950	
6 额定电流 (最大连续电流) (Nominal current)	A	2.09	1.54	1.04	1.30	2.15	
7 堵转转矩(Stall torque)	mNm	4871	6120	5012	8468	11810	
8 堵转电流(Stall current)	A	7.89	7.14	5	5.02	8.39	
9 最大效率(Max efficiency)	%	47	45	43	48	48	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.38	0.7	1.2	2.39	1.43	

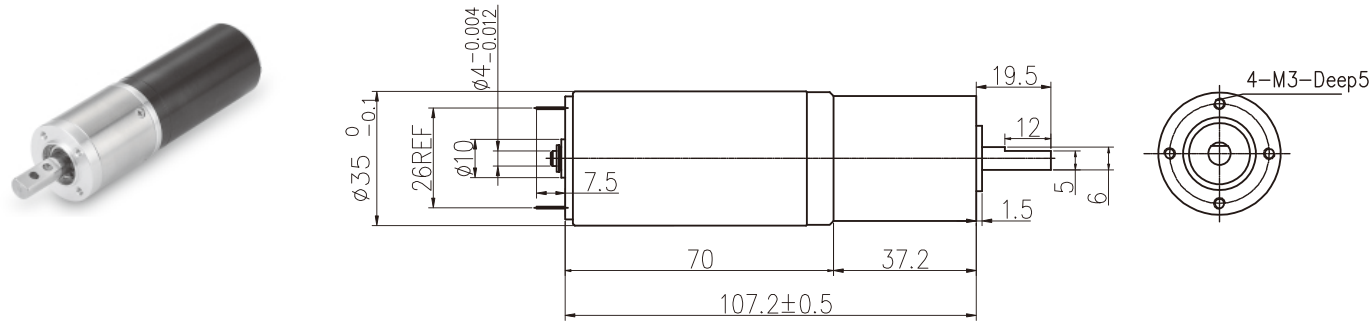
其它特性参数Other characteristic parameters

01A电机曲线图

- 11 环境温度范围
(Ambient temperature)
- 12 绕组最高允许温度
(Max permissible winding temperature)
- 13 电极磁极对数
(Number of the pole pairs)
- 14 换向器片数
(Number of the commutator segments)
- 15 电机质量
(Weight)



3570RG Coreless Brush Gear Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

齿轮减速比

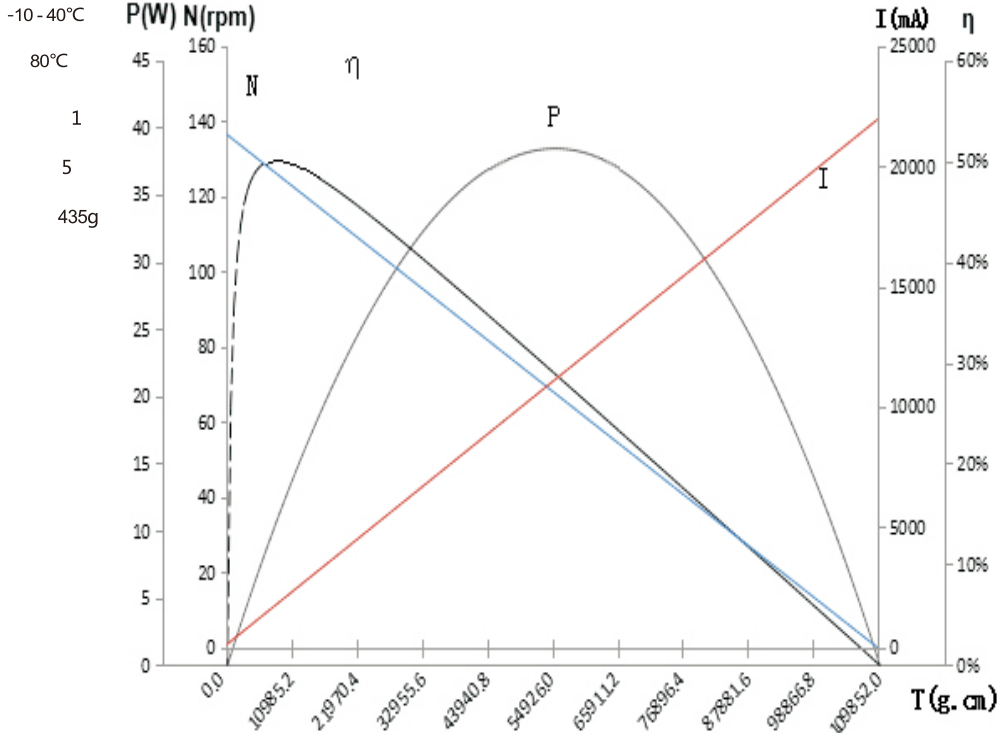
i	3.11	3.71	9.68	11.56	13.8	14.93	17.83	17.89	21.36	23.04	27.60
	33.06	30.11	35.95	42.92	46.46	51.24	55.47	55.65	66.22	66.44	

电机参数 (Motor data)		01A	02A	03A	04A		
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	12	12	24	24		
2 空载转速(No load speed)	rpm	136	167	130	175		
3 空载电流(No load current)	mA	140	150	70	100		
4 额定转速(Nominal speed)	rpm	102	125	98	130		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	2700	4330	3480	3900		
6 额定电流 (最大连续电流) (Nominal current)	A	5.59	10.86	3.44	5.27		
7 堵转转矩(Stall torque)	mNm	10771	17325	13939	15860		
8 堵转电流(Stall current)	A	21.81	42.85	13.48	20.68		
9 最大效率(Max efficiency)	%	49	48	48	48		
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.55	0.28	1.78	1.16		

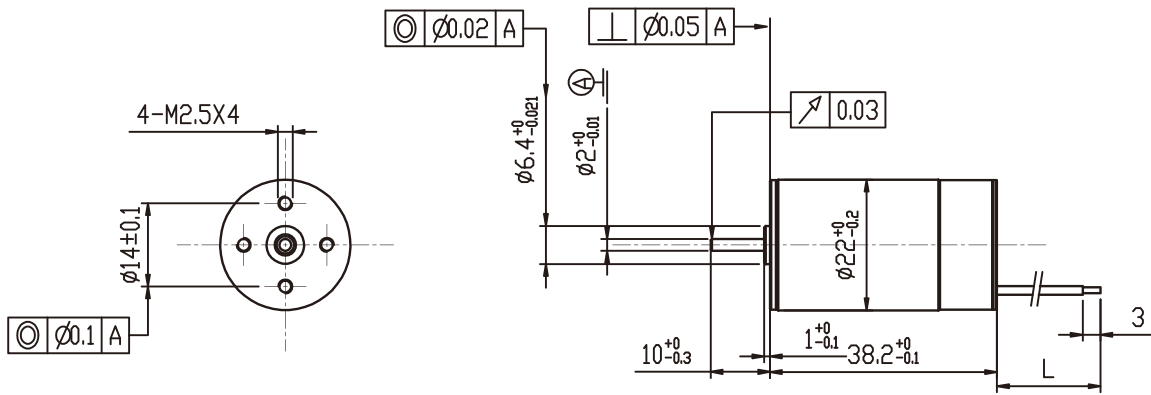
其它特性参数Other characteristic parameters

01A电机曲线图

- 11 环境温度范围
(Ambient temperature)
- 12 绕组最高允许温度
(Max permissible winding temperature)
- 13 电极磁极对数
(Number of the pole pairs)
- 14 换向器片数
(Number of the commutator segments)
- 15 电机质量
(Weight)



2238RBD Slotless Drive-in Motor

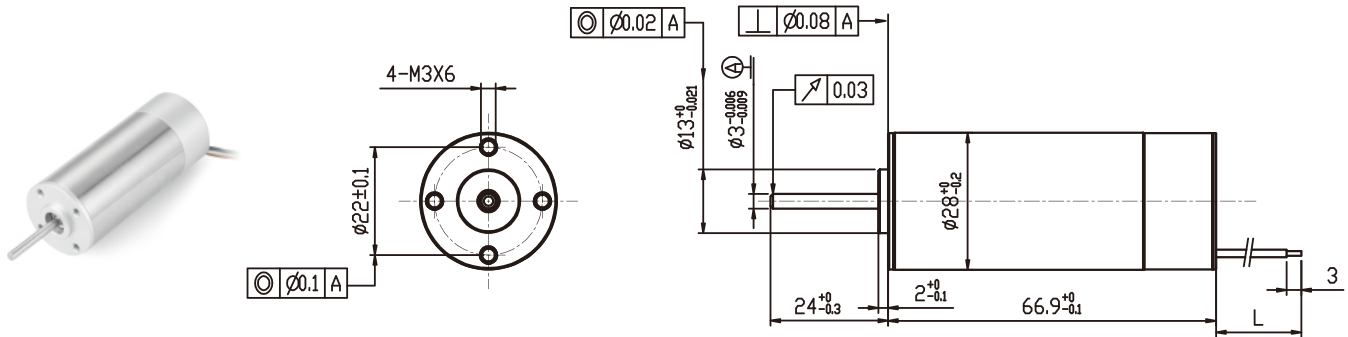


典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

电机参数 (Motor data)		06B				
额定电压下数值(Values at nominal voltage)						
1 额定电压(Nominal voltage)	v	12				
2 空载转速(No load speed)	rpm	6200				
3 空载电流(No load current)	mA	70				
4 额定转速(Nominal speed)	rpm	3000				
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	7				
6 额定电流 (最大连续电流) (Nominal current)	A	0.42				
7 堵转转矩(Stall torque)	mNm	13.59				
8 堵转电流(Stall current)	A	0.75				
9 最大效率(Max efficiency)	%	58				
电机常数(Motor constant)						
10 相间电阻(Terminal resistance)	Ω	16				
11 转矩常数(Torque constant)	mNm/A	18.12				
12 速度常数(Speed constant)	rpm / V	517				
		闭环恒速，负载小于				
		7mNm电机速度恒定				
		3000rpm				

其它特性参数Other characteristic parameters		控制功能				
13 环境温度范围 (Ambient temperature)	-10 - 40℃	12V/24V;功率≤ 72W (电压24V)				
14 绕组最高允许温度 (Max permissible winding temperature)	120℃	工作电流 ≤ 3A(限流4A)防反接 带转速FG反馈) VSP电压 ≤ 0.5V时关机，0.5V-4.5V调速范围 4.5V-5.0V最高转速				
15 电极磁极对数 (Number of the pole pairs)	1	功能：				
16 相数 (Number of pole pairs)	3	开关/正反转向/速度刹车				
17 电机质量 (Weight)	70g	最大使用温度 +105℃速度开环 闭环/速度反馈				

2867RBD Slotless Drive-in Motor

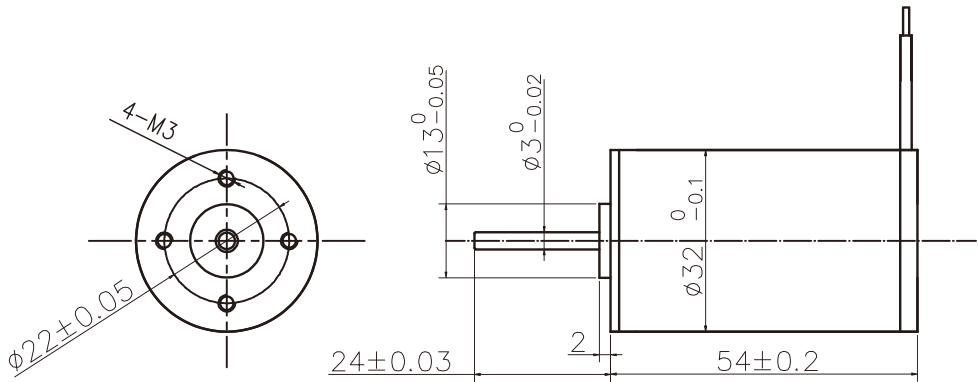


典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

电机参数 (Motor data)		01A	02A			
额定电压下数值(Values at nominal voltage)						
1 额定电压(Nominal voltage)	v	12	24			
2 空载转速(No load speed)	rpm	4300	4200			
3 空载电流(No load current)	mA	90	60			
4 额定转速(Nominal speed)	rpm	3000	3000			
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	30	28			
6 额定电流 (最大连续电流) (Nominal current)	A	1.20	0.56			
7 堵转转矩(Stall torque)	mNm	101	98			
8 堵转电流(Stall current)	A	3.87	1.83			
9 最大效率(Max efficiency)	%	75	71			
电机常数(Motor constant)						
10 相间电阻(Terminal resistance)	Ω	3.10	13.10			
11 转矩常数(Torque constant)	mNm/A	26.13	53.50			
12 速度常数(Speed constant)	rpm / V	358	175			
		闭环恒速，负载小于	闭环恒速，负载小于			
		30mNm电机速度恒	28mNm电机速度恒			
		定3000rpm	定3000rpm			

其它特性参数Other characteristic parameters		控制功能				
13 环境温度范围 (Ambient temperature)	-10 - 40℃	12V/24V				
14 绕组最高允许温度 (Max permissible winding temperature)	120℃	工作电流 ≤ 2A(限流3A)防反接 带转速FG反馈 (反极性) VSP电压 ≥4.5V时关机，0.5V-4.5V调速范围				
15 电极磁极对数 (Number of the pole pairs)	1	0V-0.5V最高转速				
16 相数 (Number of pole pairs)	3	功能：				
17 电机质量 (Weight)	900 g	开关/正反转向/速度刹车 最大使用温度 +105℃速度开环 闭环/速度反馈				

3254RBD Slotless Drive-in Motor

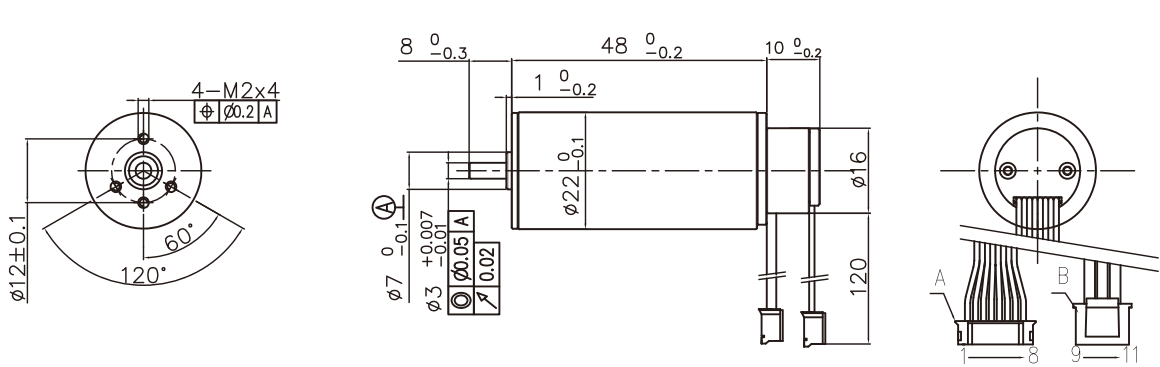


典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、Intelligent robot

电机参数（Motor data）		02A	01A			
额定电压下数值(Values at nominal voltage)						
1 额定电压(Nominal voltage)	v	12	24			
2 空载转速(No load speed)	rpm	4950	8000			
3 空载电流(No load current)	mA	114	300			
4 额定转速(Nominal speed)	rpm	4000	4000			
5 额定转矩（最大连续转矩）(Nominal torque)	mNm	10	78			
6 额定电流（最大连续电流）(Nominal current)	A	0.55	2.94			
7 堵转转矩(Stall torque)	mNm	54.9	156			
8 堵转电流(Stall current)	A	2.41	5.58			
9 最大效率(Max efficiency)	%	67	65			
电机常数(Motor constant)						
10 相间电阻(Terminal resistance)	Ω	4.96	4.30			
11 转矩常数(Torque constant)	mNm/A	22.70	28.09			
12 速度常数(Speed constant)	rpm / V	413	333			
		闭环恒速，负载小于10mNm电机速度恒定4000rpm	闭环恒速，负载小于78mNm电机速度恒定4000rpm			

其它特性参数Other characteristic parameters		控制功能
13 环境温度范围 (Ambient temperature)	-10 - 40℃	12V/24V 工作电流 ≤ 3A(限流4A)防反接
14 绕组最高允许温度 (Max permissible winding temperature)	120℃	带转速FG反馈) VSP电压 ≤ 0.5V时关机，0.5V-4.5V调速范围
15 电极磁极对数 (Number of the pole pairs)	1	4.5V-5.0V最高转速
16 相数 (Number of pole pairs)	3	功能： 开关/正反转向/速度刹车
17 电机质量 (Weight)	220 g	最大使用温度 +105℃速度开环 闭环/速度反馈

2248EM Slotless Servo Motor



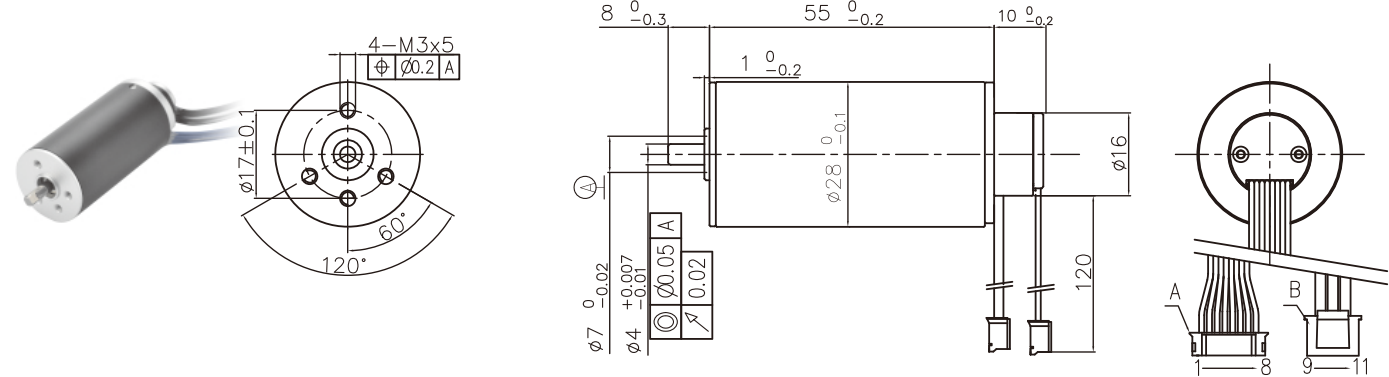
典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、Intelligent robot

电机参数（Motor data）		01	02	03	04		
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	12	24	36	48		
2 空载转速(No load speed)	rpm	12740	12650	13122	13368		
3 空载电流(No load current)	mA	175	99	80	67		
4 额定转速(Nominal speed)	rpm	11657	11638	12000	12365		
5 额定转矩（最大连续转矩）(Nominal torque)	mNm	13	13	13	13		
6 额定电流（最大连续电流）(Nominal current)	A	1.61	0.80	0.57	0.44		
7 堵转转矩(Stall torque)	mNm	151.17	157.30	151.00	170.38		
8 堵转电流(Stall current)	A	17.14	8.85	5.88	5.06		
9 最大效率(Max efficiency)	%	82	81	80	80		
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.70	2.71	6.12	9.47		
11 转矩常数(Torque constant)	mNm/A	8.82	17.76	25.69	33.62		
12 速度常数(Speed constant)	rpm / V	1062	527	365	279		

其它特性参数Other characteristic parameters		01电机曲线图
13 环境温度范围 (Ambient temperature)	-40 - 100℃	
14 绕组最高允许温度 (Max permissible winding temperature)	120℃	
15 最高允许转速 (Max permissible speed)	30000mp	
16 电极磁极对数 (Number of the pole pairs)	1	
17 相数 (Number of pole pairs)	3	
18 电机质量 (Weight)	85g	

连接端子A:JST PHR-8 PH2.0
UL1332 PTEF AWG26
1-HA 、2-HB、3-HC、4-GND、5-VCC、6-Z、7-B、8-A
连接端子B:VHR-3N PH3.96
UI1430 AWG20 PVC
7-MA(blue) 8-MB(black) 9-MC(white)
编码器：
输入电压：DC3.3V
输出(信号)：增量式（ABZ）TTL
分辨率：1~256PPR(可选)

2855EM Slotless Servo Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、Intelligent robot

电机参数 (Motor data)		01	02	03	04		
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	12	24	36	48		
2 空载转速(No load speed)	rpm	7870	8170	8011	8158		
3 空载电流(No load current)	mA	139	92	63	50		
4 额定转速(Nominal speed)	rpm	6925	7311	7129	7138		
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	25	25	25	25		
6 额定电流 (最大连续电流) (Nominal current)	A	1.85	0.99	0.65	0.49		
7 堵转转矩(Stall torque)	mNm	206	238	228	197		
8 堵转电流(Stall current)	A	14.45	8.66	5.42	3.58		
9 最大效率(Max efficiency)	%	82	82	81	80		
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.83	2.77	6.63	13.40		
11 转矩常数(Torque constant)	mNm/A	14.28	27.51	42.07	55.09		
12 速度常数(Speed constant)	rpm / V	656	340	223	170		

其它特性参数Other characteristic parameters 01电机曲线图

- 13 环境温度范围
(Ambient temperature)

14 绕组最高允许温度
(Max permissible winding temperature)

15 最高允许转速
(Max permissible speed)

16 电极磁极对数
(Number of the pole pairs)

17 相数
(Number of pole pairs)

18 电机质量
(Weight)
- 40 - 100℃

150℃

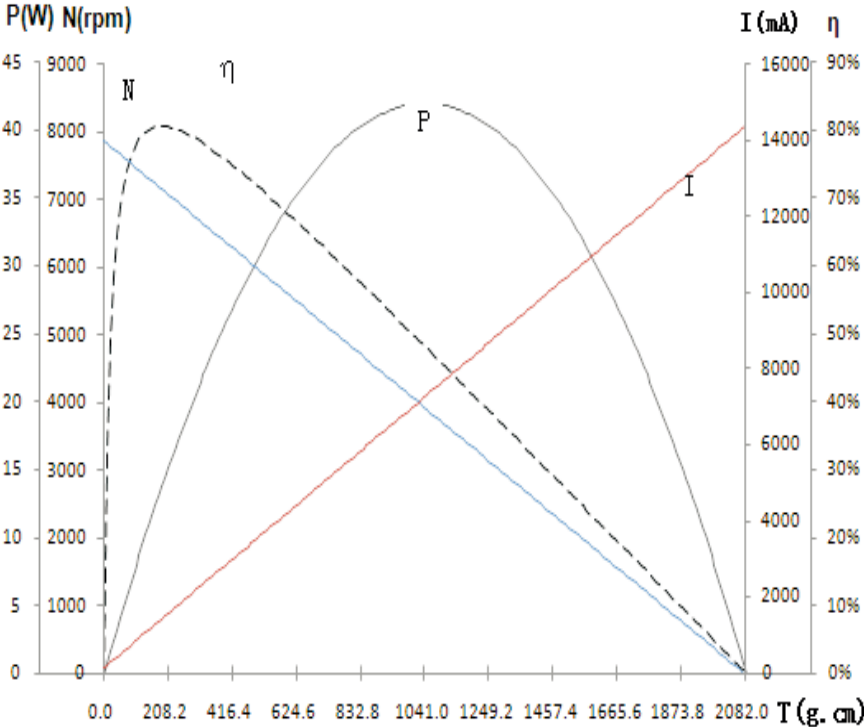
25000rpm

1

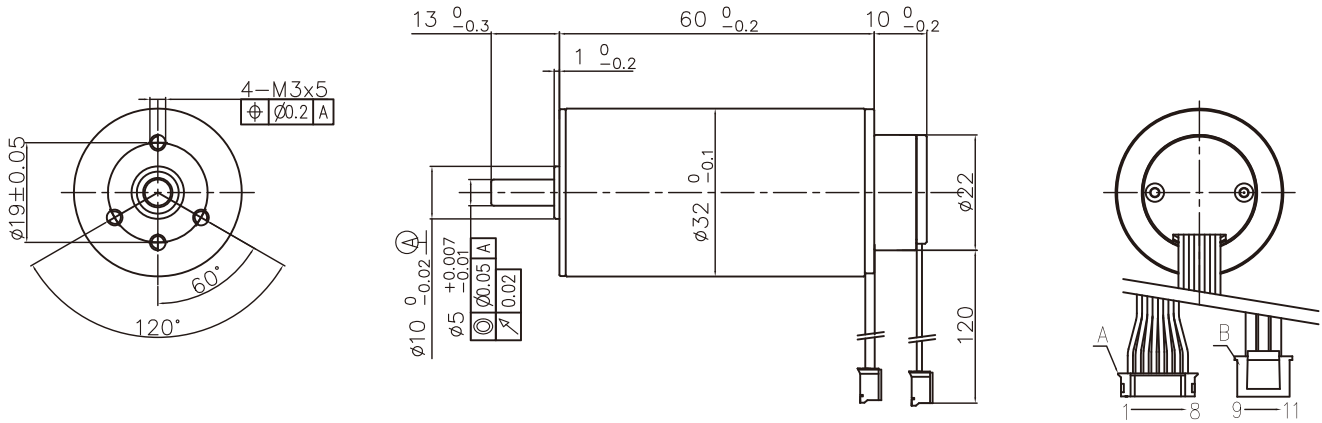
3

155g

连接端子A:JST PHR-8 PH2.0
UL1332 PTEF AWG26
1-HA、2-HB、3-HC、4-GND、5-VCC、6-Z、7-B、8-A
连接端子B:VHR-3N PH3.96
UI1430 AWG20 PVC
7-MA(blue) 8-MB(black) 9-MC(white)
编码器：
输入电压：DC3.3V
输出信号：增量式 (ABZ) TTL
分辨率：1~256PPR(可选)



3260EM Slotless Servo Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、Intelligent robot

电机参数 (Motor data)		01	02	03	04	05	
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	18	24	30	36	48	
2 空载转速(No load speed)	rpm	13524	11412	13713	13518	13916	
3 空载电流(No load current)	mA	480	294	245	215	166	
4 额定转速(Nominal speed)	rpm	12442	12983	12615	12368	12872	
5 额定转矩 (最大连续转矩) (Nominal torque)	mNm	50	50	50	50	50	
6 额定电流 (最大连续电流) (Nominal current)	A	4.44	3.47	2.72	2.17	1.72	
7 堵转转矩(Stall torque)	mNm	623	636	640	579	676	
8 堵转电流(Stall current)	A	50.00	40.00	31.25	23.22	20.96	
9 最大效率(Max efficiency)	%	82	84	84	83	84	
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.36	0.60	0.96	1.55	2.29	
11 转矩常数(Torque constant)	mNm/A	12.46	15.92	20.48	24.93	32.29	
12 速度常数(Speed constant)	rpm / V	751	588	457	376	290	

其它特性参数Other characteristic parameters 01电机曲线图

- 13 环境温度范围
(Ambient temperature)

14 绕组最高允许温度
(Max permissible winding temperature)

15 最高允许转速
(Max permissible speed)

16 电极磁极对数
(Number of the pole pairs)

17 相数
(Number of pole pairs)

18 电机质量
(Weight)
- 40 - 100℃

150℃

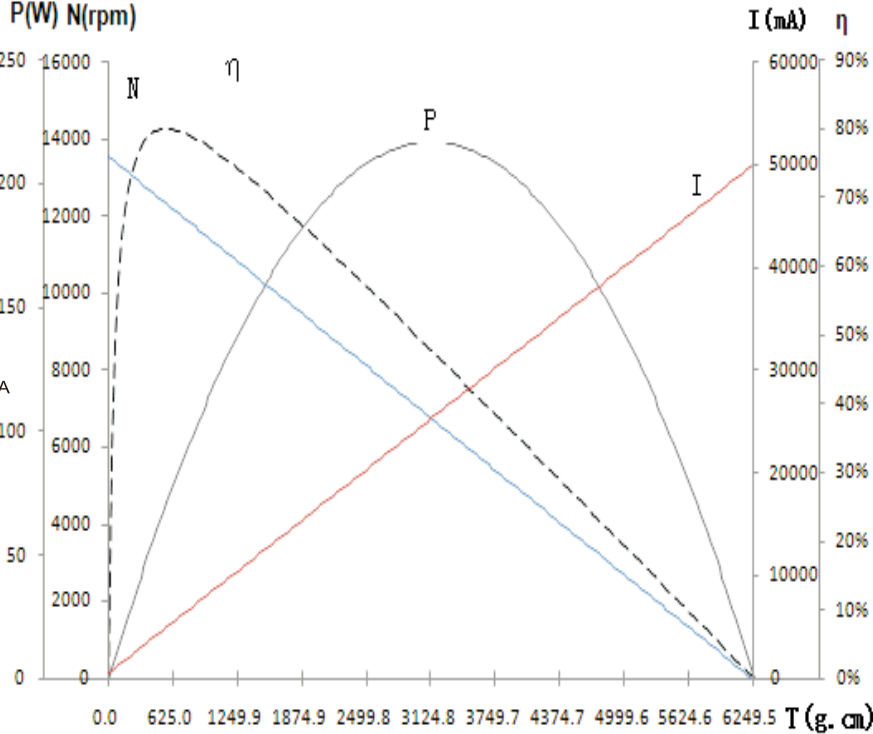
25000rpm

1

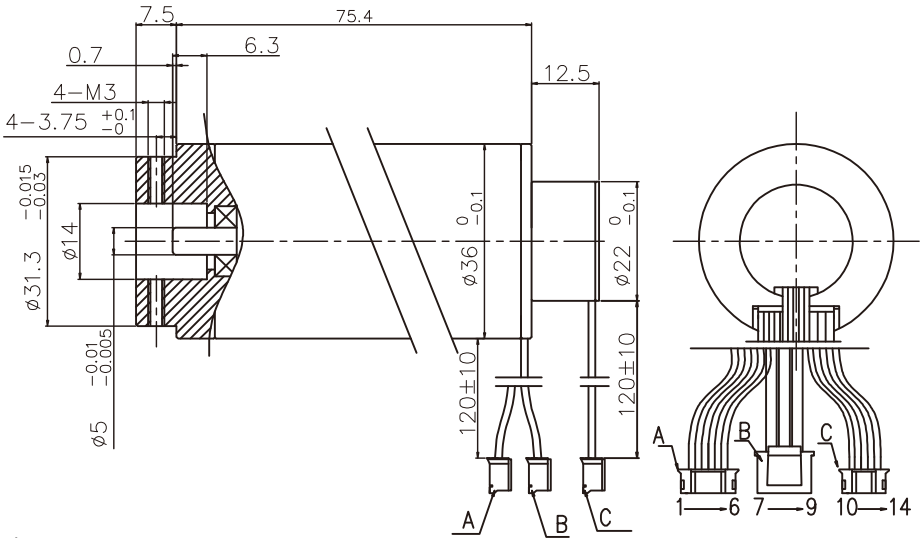
3

210g

连接端子A:JST PHR-8 PH2.0
UL1332 PTEF AWG26
1-HA、2-HB、3-HC、4-GND、5-VCC、6-Z、7-B、8-A
连接端子B:VHR-3N PH3.96
UI1430 AWG20 PVC
7-MA(blue) 8-MB(black) 9-MC(white)
编码器：
输入电压：DC3.3V
输出信号：增量式 (ABZ) TTL
分辨率：1~256PPR(可选)



3670EM Slotless Servo Motor



典型应用Typical Applications:舵机、智能小机器人
Steering Eengline、
Intelligent robot

电机参数（ Motor data ）		01	02	03	04		
额定电压下数值(Values at nominal voltage)							
1 额定电压(Nominal voltage)	v	12	24	36	48		
2 空载转速(No load speed)	rpm	6446	6423	6541	6414		
3 空载电流(No load current)	mA	287	134	99	76		
4 额定转速(Nominal speed)	rpm	5640	5684	5756	5676		
5 额定转矩（最大连续转矩）(Nominal torque)	Nm	80	80	80	80		
6 额定电流（最大连续电流）(Nominal current)	A	4.79	2.38	1.64	1.21		
7 堵转转矩(Stall torque)	mNm	633	688	667	697		
8 堵转电流(Stall current)	A	36.36	19.67	12.90	9.95		
9 最大效率(Max efficiency)	%	84	85	84	84		
电机常数(Motor constant)							
10 相间电阻(Terminal resistance)	Ω	0.33	1.22	2.78	4.82		
11 转矩常数(Torque constant)	mNm/A	17.43	34.98	51.53	70.07		
12 速度常数(Speed constant)	rpm / V	537	268	182	134		

其它特性参数Other characteristic parameters 01电机曲线图

- 13 环境温度范围
(Ambient temperature)

14 绕组最高允许温度
(Max permissible winding temperature)

15 最高允许转速
(Max permissible speed)

16 电极磁极对数
(Number of the pole pairs)

17 相数
(Number of pole pairs)

18 电机质量
(Weight)
- 40 - 100℃

150℃

20000rmp

1

3

325g

连接端子A:JST A2001H-6P PH2.0
UL1332 PTEF AWG24
1-NTC1(black)、2-VCC(black)、3-HA(black)、4-HB(black)、
5-HC(black)、6-GND(black)
连接端子B:VHR-3N PH3.96
UI1430 AWG20 PVC
7-MA(blue) 8-MB(black) 9-MC(white)
连接端子线C:JST A2001H-5P PH2.0
UI1332 AWG PTEF
10-A(blue) 11-B(blue)
12-I(blue) 13-Vcc(blue) 14-GND(blue)

