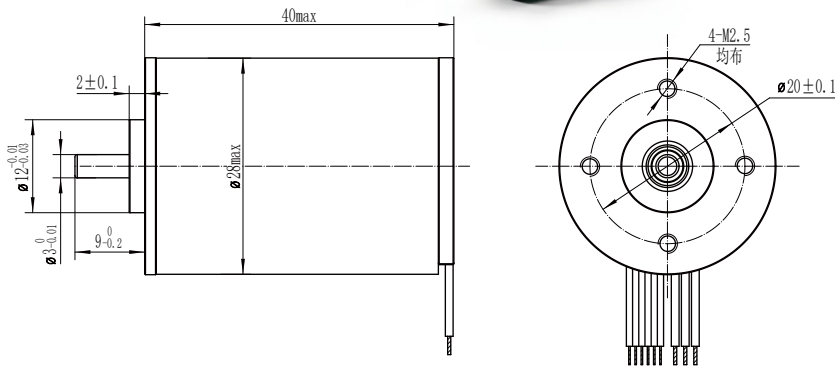


空心杯电枢绕组-无刷
Φ28*L40mm 无刷电机Brushless DC motor



EC MOTOR



电机型号Motor Model		
EC2840-2809		
电机参数 Motor Data		
1 额定电压 Nominal voltage	V/DC	28
2 额定转速 Nominal speed	rpm	8859
3 额定电流 Nominal current	A	3.015
4 额定转矩 Nominal torque	mNm	69.37
5 空载转速 No-load speed	rpm	10870
6 空载电流 No-load current	mA	165
7 最大效率 Max. efficiency	%	80.5
8 堵转电流 Stall current	A	15.572
9 堵转转矩 Stall torque	mNm	374.98
电机常数 Motor Constants		
10 电机阻抗 Terminal resistance	Ω	1.8
11 电机感抗 Terminal inductance	mH	1.04
12 转矩常数 Torque constant	mNm/A	24.337
13 转速常数 Speed constant	rpm/V	388
14 转数/转矩常数 Speed/torque constant	rpm/mNm	29
15 机械时间常数 Mechanical time constant	ms	3.8
16 转子惯量 Rotor inertia	gcm ²	14
其它 Others		
17 极对数 Number of pole pairs		2
18 重量 Weight of motor	g	110
19 噪音 Typical noise level	dB	≤45
电机端子定义Motor terminal definition		
褐 Brown	M1	V ha11+5 VDC
黄 yellow	M2	Ha11 sensor A
绿 Green	M3	Ha11 sensor B
蓝 Blue	M4	Hal1 sensor C
灰 Grey	M5	GND
黑 Black	M6	Motor winding A
红 Red	M7	Motor winding B
白 White	M8	Motor winding C

电机特性曲线 (Motor Characteristics Curve)		
18	12000	120
16	10000	90
14	8000	80
12	6000	70
10	4000	60
8	2000	50
6		40
4		30
2		20
0		10
0		0
1.87	58.12	114.37
170.61	226.86	283.11
339.35		
A rpm	mN.m	W %