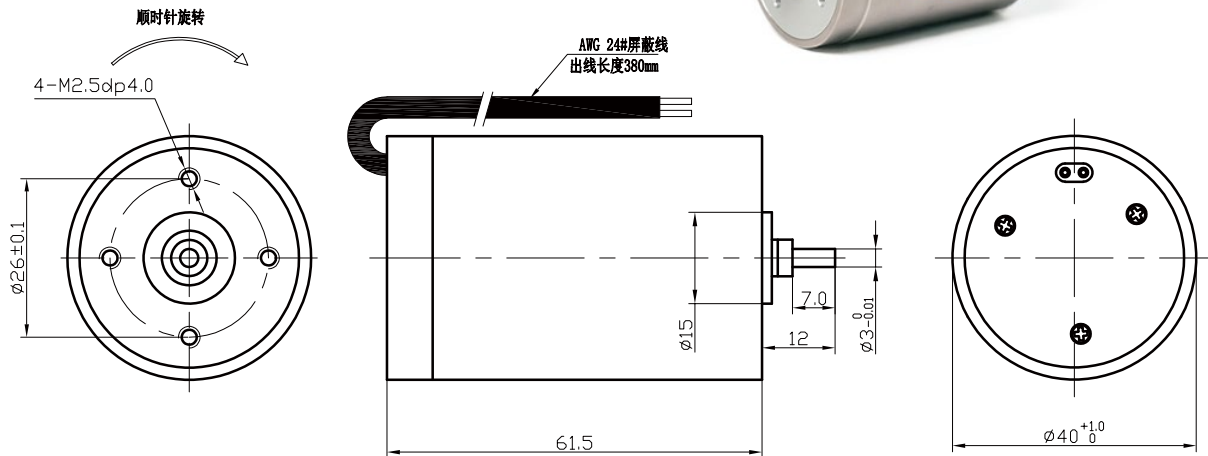


空心杯电枢绕组
Φ40*L60mm 有刷电机Brush DC motor



DC MOTOR



电机型号Motor Model

电机参数 Motor Data		DC4060-2409
1 额定电压 Nominal voltage	V/DC	24
2 额定转速 Nominal speed	rpm	6205
3 额定电流 Nominal current	A	1.89
4 额定转矩 Nominal torque	mNm	60
5 空载转速 No-load speed	rpm	6700
6 空载电流 No-load current	mA	130
7 最大效率 Max. efficiency	%	85.8
8 最大连续转矩 Max continuous torque	mNm	145
9 堵转电流 Stall current	A	24
10 堵转转矩 Stall torque	mNm	812

电机常数 Motor Constants

11 电机阻抗 Terminal resistance	Ω	0.40
12 电机感抗 Terminal inductance	mH	0.16
13 转矩常数 Torque constant	mNm/A	25.40
14 转速常数 Speed constant	rpm/V	375
15 转速/转矩常数 Speed/torque constant	rpm/mNm	5.90
16 机械时间常数 Mechanical time constant	ms	3
17 转子惯量 Rotor inertia	gcm ²	48.90

其它 Others

18 极对数	Number of pole pairs		1
19 相数	Number of phase		13
20 重量	Weight of motor	g	268
21 噪音	Typical noise level	dB	≤50

The graph displays three performance metrics against speed (rpm) on the x-axis. The left y-axis represents efficiency (η) and power factor (P) from 60 to 100. The right y-axis represents current (I) from 60 to 100. The efficiency curve (η, blue) starts at approximately 95% at 1000 rpm and decreases to about 65% at 3000 rpm. The power factor curve (P, green) starts at approximately 85% at 1000 rpm, peaks at about 95% around 2000 rpm, and then decreases to about 75% at 3000 rpm. The current curve (I, red) starts at approximately 200A at 1000 rpm and increases to about 300A at 3000 rpm.

Speed (rpm)	Efficiency (η)	Power Factor (P)	Current (I)
1000	95%	85%	200A
1500	90%	90%	220A
2000	85%	95%	240A
2500	80%	90%	260A
3000	65%	75%	300A

电机端子定义Motor terminal definition

T1	P1	Motor+
T2	P2	Motor-

端子型号Terminal model: SH1.0-6Pin

电机特性曲线 (Motor Characteristics Curve)

