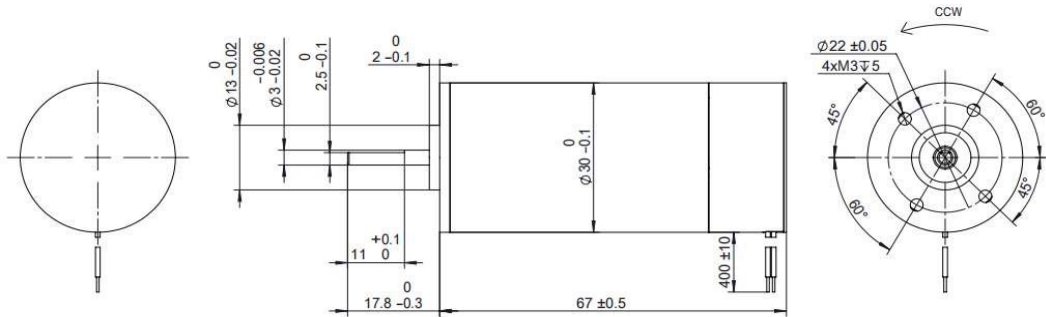


Φ30 mm brushless motor, with integrated electronics



Motor Data		165506702					
Values at nominal voltage 额定电压值							
1	Nominal voltage 额定电压	U_N	24				V
2	No load speed 空载转速	n_o	9500				rpm
3	No load current 空载电流	I_o	120				mA
4	Stall torque 堵转转矩	M_H	246.0				mNm
5	Stall current 堵转电流	M_I	10.4				A
6	Max. efficiency 最大效率	η_{max}	80				%
7	Nominal power 额定功率	W_N	36.2				W
8	Nominal speed 额定转速	n_N	7676				rpm
9	Nominal torque (max.continuous torque) 额定转矩	M_N	47.2				mNm
10	Nominal current (max.continuous current) 额定电流	I_N	2.1				A
Characteristics 技术参数							
11	Terminal resistance phase to phase 相间电阻	R	2.3				Ω
12	Terminal inductance phase to phase 相间电感	L	321				uH
13	Back-EMF constant 反电势常数	K_E	2.50				mV/rpm
14	Torque constant 转矩常数	K_M	23.85				mNm/A
15	Speed constant 转速常数	K_n	400				rpm/V
16	Current constant 电流常数	K_I	0.042				A/mNm
17	Speed / torque gradient 转速/转矩斜率	$\Delta n/\Delta M$	38.62				rpm/mNm
18	Mechanical time constant 机械时间常数	τ_m	8.2				ms
19	Rotor inertia 转子惯量	J	10.5				gcm ²
Specifications 技术参数							
20	Operating temperature range: 工作温度范围:						
	Motor 电机				-20.....+155		°C
	winding, max permissible 线圈最高允许温度				+155		°C
21	Direction of rotation 旋转方向				electronically reversible		
22	Max. speed 最大允许转速	n_{max}			10000		rpm
23	Number of pole pairs 磁极对数				1		
24	Number of phases 相数				3		
25	Magnet material 磁钢材料				NdFeB		
26	Hall sensors 霍尔传感器						
Mechanical data 机械参数							
27	Bearing type 轴承类型				ball bearings, preloaded		
28	Axial play 轴向间隙				0 - 0.3		mm
29	Max. axial load (dynamic) 最大轴向载荷 (动态)				6		N
30	Max. force for press fits (static) 最大轴向压配合力 (静态)				98		N
	(static, shaft supported) (静态, 支撑轴)				1200		N
31	Max. radial loading, 5 mm from flange 最大径向载荷				28		N
Product 产品							
32	Weight of motor 重量		328				g

Dimensional drawing 尺寸图



Option, cable and connection information 选件, 电缆和连接信息

Connection Motor							
red		24VDC	black		GND		