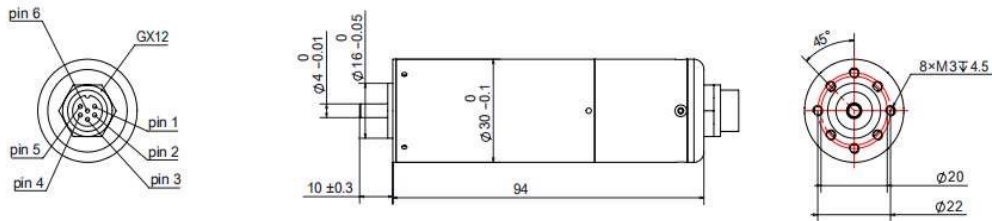


Φ30 mm brushless motor , with integrated electronics



Motor Data			165506401					
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	6400					rpm
3	No load current 空载电流	I_o	120					mA
4	Stall torque 堵转转矩	M_H	277.9					mNm
5	Stall current 堵转电流	M_I	8.0					A
6	Max. efficiency 最大效率	η_{max}	77					%
7	Nominal power 额定功率	W_N	31.5					W
8	Nominal speed 额定转速	n_N	4942					rpm
9	Nominal torque (max.continuous torque) 额定转矩	M_N	63.7					mNm
10	Nominal current (max.continuous current) 额定电流	I_N	1.9					A
Characteristics 技术参数								
11	Terminal resistance phase to phase 相间电阻	R	3					Ω
12	Terminal inductance phase to phase 相间电感	L	572					uH
13	Back-EMF constant 反电势常数	K_E	3.69					mV/rpm
14	Torque constant 转矩常数	K_M	35.27					mNm/A
15	Speed constant 转速常数	K_n	271					rpm/V
16	Current constant 电流常数	K_I	0.028					A/mNm
17	Speed / torque gradient 转速/转矩斜率	$\Delta n/\Delta M$	23.03					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	12.3					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 (GX12)

pin 1	24VDC	pin 2	GND
pin 3	RS485-A	pin 4	RS485-B
pin 5	Eanble+	pin 6	Eanble-