

Motor Data		106212001					
Values at nominal voltage 额定电压值							
1	Nominal voltage 额定电压	U_N	48				V
2	No load speed 空载转速	n_0	5400				rpm
3	No load current 空载电流	I_0	80				mA
4	Stall torque 堵转转矩	M_H	1391.4				mNm
5	Stall current 堵转电流	M_I	16.6				A
6	Max. efficiency 最大效率	η_{max}	86				%
7	Nominal power 额定功率	W_N	77.3				W
8	Nominal speed 额定转速	n_N	4771				rpm
9	Nominal torque (max.continuous torque) 额定转矩	M_N	162				mNm
10	Nominal current (max.continuous current) 额定电流	I_N	2				A

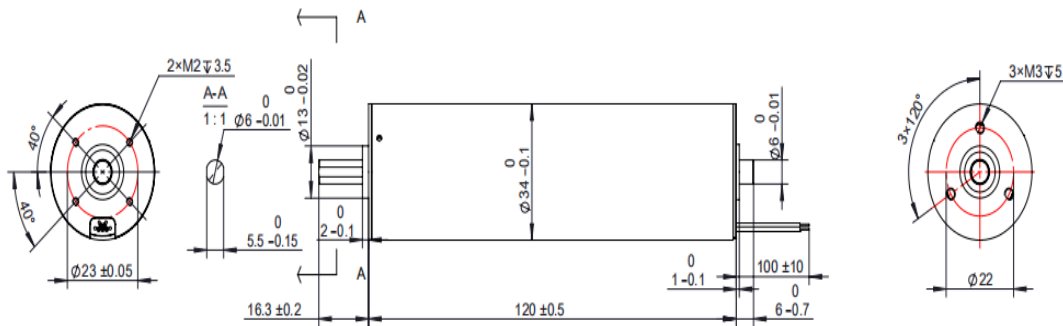
Characteristics 技术参数							
11	Terminal resistance phase to phase 相间电阻	R	2.9				Ω
12	Terminal inductance phase to phase 相间电感	L	1351				μH
13	Back-EMF constant 反电势常数	K_E	8.85				mV/rpm
14	Torque constant 转矩常数	K_M	84.47				mNm/A
15	Speed constant 转速常数	K_n	113				rpm/V
16	Current constant 电流常数	K_I	0.012				A/mNm
17	Speed / torque gradient 转速/转矩斜率	$\Delta n/\Delta M$	3.88				rpm/mNm
18	Mechanical time constant 机械时间常数	τ_m	6.8				ms
19	Rotor inertia 转子惯量	J	75.0				gcm^2

Specifications 技术参数							
20 Operating temperature range: 工作温度范围:							
Motor 电机				-20.....+100			$^{\circ}\text{C}$
winding, max permissible 线圈最高允许温度				+125			$^{\circ}\text{C}$
21 Direction of rotation 旋转方向				electronically reversible			
22 Max. speed 最大允许转速		n_{max}		6500			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)				90			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							g

Dimensional drawing 尺寸图



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

Connection Motor (Cable AF250 0.2²)

Motor winding A				brown
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Note: About the torque curves, please contact us for more information.

Motor winding B yellow
Motor winding C grey

