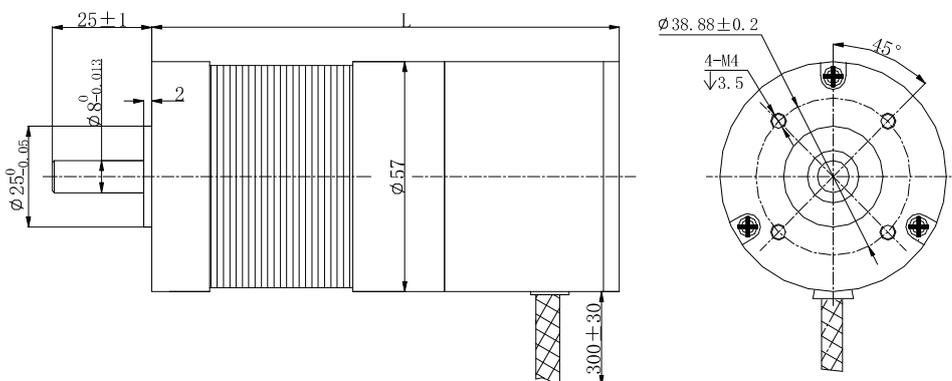


## 机械尺寸

(Dimensions)



选件 Options



接插件

齿轮箱

## 特性概要

(General Specifications)

绕组连接方式 (Winding Type)	星形 (Star connection)
霍尔分布角度 (Hall Effect Angle)	120度电角度 (Electrical Angle of 120 degree)
径向间隙 (Radial Play)	0.02mm@450g
轴向间隙 (Axial Play)	0.08mm@450g
最大径向负载 (Max radial force)	115N 距法兰20mm (20mm From the flange)
最大轴向负载 (Max axial force)	45N
介电强度 (Dielectric Strength)	650VAC/1S
绝缘电阻 (Insulation Resistance)	100MΩ, 500VDC
环境温度 (Ambient Temperature)	-20°C ~ +50°C
绝缘等级 (Insulation Class)	Class B

## 接线说明

(Electric Connection)

引出线型号 Type	引出线颜色 Color	功能 Functions
UL1430	红色 (Red)	电源正 (Vcc)
AWG18	黑色 (Black)	电源负 (GND)
UL1430 AWG26	蓝色 (Blue)	转向控制 (Rotating Direction) CW/CCW
	黄色 (Yellow)	0 ~ +5V speed regulation voltage
	白色 (White)	Speed pulse output(TTL)

## 电性能

(Electrical Specifications)

	单位 (Unit)	FL57BL005-IEX	FL57BL01-IEX	FL57BL02-IEX
极数 (Number of poles)			4	
相数 (Number of phases)			3	
额定电压 (Rated voltage)	VDC		24	
额定转矩 (Rated torque)	N.m	0.055	0.11	0.22
连续运行转矩 (Continuous stall torque)	N.m	0.066	0.132	0.264
额定速度 (Rated speed)	RPM	4000	4000	4000
额定功率 (Rated power)	W	25	46	99
峰值扭矩 (Peak torque)	N.m	0.15	0.22	0.22
峰值电流 (Peak current)	A	4.0	6.0	6.0
线电阻 (Line to line resistance)	ohms@20°C	2.1	0.82	0.35
线电感 (Line to line inductance)	mH	4.1	2.3	1.0
转矩常数 (Torque constant)	N.m/A	0.04	0.04	0.04
反电势 (Back EMF)	Vrms/KRPM	3.0	3.0	3.0
转动惯量 (Rotor inertia)	g.cm <sup>2</sup>	30	75	119
机身长度 (Motor length) L	mm	80	90	120
重量 (Weight)	Kg	0.5	0.6	0.8