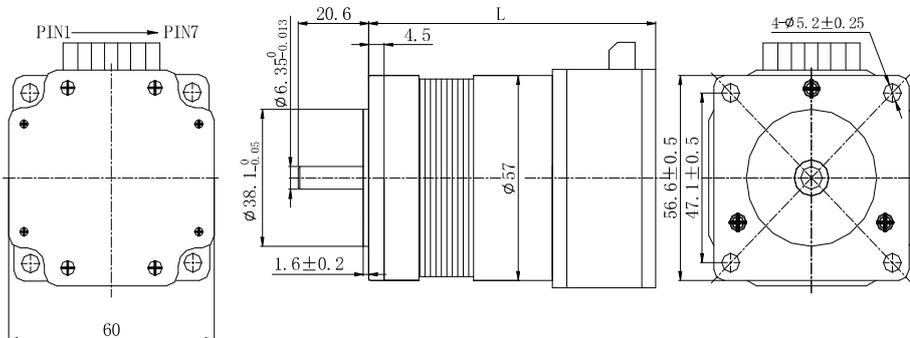


机械尺寸

(Dimensions)



选件 Options



接插件



齿轮箱

特性概要

(General Specifications)

绕组连接方式 (Winding Type)	三角形 (Delta 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)

+Vp	GND	GND	PG	SV	F/R	+5V
○	○	○	○	○	○	○
1	2	3	4	5	6	7

1 +Vp---输入电压 +36VDC(DC POWER INPUT +36VDC)
 2 GND---系统的公共接地(COMMON GROUND OF SYSTEM)
 3 GND---系统的公共接地(COMMON GROUND OF SYSTEM)
 4 PG---速度脉冲输出(TTL), 6个/转(SPEED PULSE OUTPUT(TTL), 6 PULSE/REV)
 5 SV---调速电压0—5VDC (SPEED VOLTAGE 0—5VDC)
 6 F/R---转向控制(ROTATING DIRECTION)
 7 +5V---+5V 电压输出(VOLTAGE OUTPUT)

电性能

(Electrical Specifications)

	单位 (Unit)	FL57BL(S)005-IE	FL57BL(S)01-IE	FL57BL(S)02-IE	FL57BL(S)03-IE
极数 (Number of poles)				4	
相数 (Number of phases)				3	
额定电压 (Rated voltage)	VDC			36	
额定转矩 (Rated torque)	N.m	0.055	0.11	0.22	0.33
连续运行转矩 (Continuous stall torque)	N.m	0.066	0.132	0.264	0.396
额定速度 (Rated speed)	RPM	4000	4000	4000	4000
额定功率 (Rated power)	W	25	46	99	138
峰值转矩 (Peak torque)	N.m	0.15	0.3	0.45	0.48
峰值电流 (Peak current)	A	3.0	5.0	7.5	7.5
线电阻 (Line to line resistance)	ohms@20°C	4.3	1.63	0.64	0.45
线电感 (Line to line inductance)	mH	10	4.4	2.0	1.5
转矩常数 (Torque constant)	N.m/A	0.052	0.061	0.060	0.065
反电势 (Back EMF)	Vrms/KRPM	3.8	4.5	4.45	4.8
转动惯量 (Rotor inertia)	g.cm ²	30	75	119	173
机身长度 (Motor length) L	mm	90	100	139	159
重量 (Weight)	Kg	0.56	0.67	0.9	1.2