

FL90BLW Series

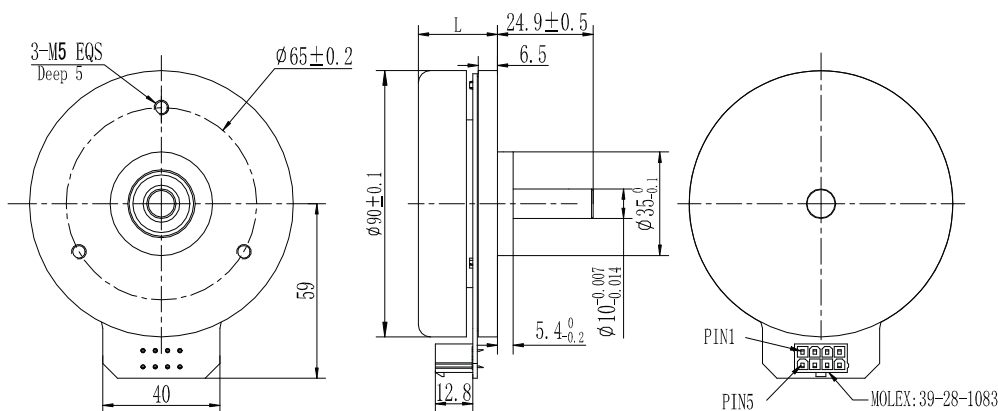
外转子无刷电机
Outer Rotor BLDC Motor



FULLING MOTOR

机械尺寸

(Dimensions)



选件 Options



接插件

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)	110N 距法兰10mm (10mm From the flange)
最大轴向负载 (Max axial force)	45N
介电强度 (Dielectric Strength)	600VAC/1S
绝缘电阻 (Insulation Resistance)	100M Ω , 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)

接插件型号 Connector Model	Pin位 Pin number	功能 Functions
MOLEX: 39-28-1083	PIN3	霍尔电源正 (Vcc)
	PIN1	霍尔 U (Hu)
	PIN2	霍尔 V (Hv)
	PIN5	霍尔 W (Hw)
	PIN6	霍尔电源负 (GND)
	PIN7	U相 (Phase U)
	PIN8	V相 (Phase V)
	PIN4	W相 (Phase W)

电性能

(Electrical Specifications)

	单位 (Unit)	FL90BLW27-24V-27130A	FL90BLW40-48V-16170A
极数 (Number of poles)		22	
相数 (Number of phases)		3	
额定电压 (Rated voltage)	VDC	24	48
额定转矩 (Rated torque)	N.m	0.457	0.964
连续运行转矩 (Continuous stall torque)	N.m	0.548	1.157
额定速度 (Rated speed)	RPM	2700	1670
额定功率 (Rated power)	W	130	169
峰值转矩 (Peak torque)	N.m	1.6	3
峰值电流 (Peak current)	A	23	13
线电阻 (Line to line resistance)	ohms@20°C	0.21	0.65
线电感 (Line to line inductance)	mH	0.19	0.9
转矩常数 (Torque constant)	mN.m/A	70.2	241
反电势 (Back EMF)	Vrms/KRPM	5.2	17.9
转动惯量 (Rotor inertia)	g.cm ²	3000	5000
机身长度 (Motor length) L	mm	27	40
重量 (Weight)	Kg	0.6	1