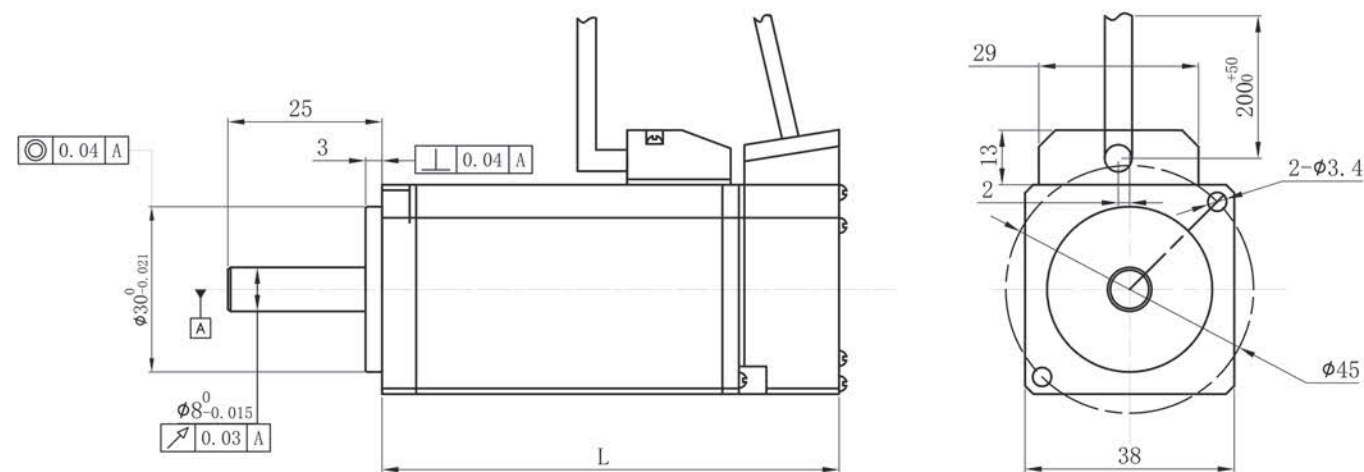


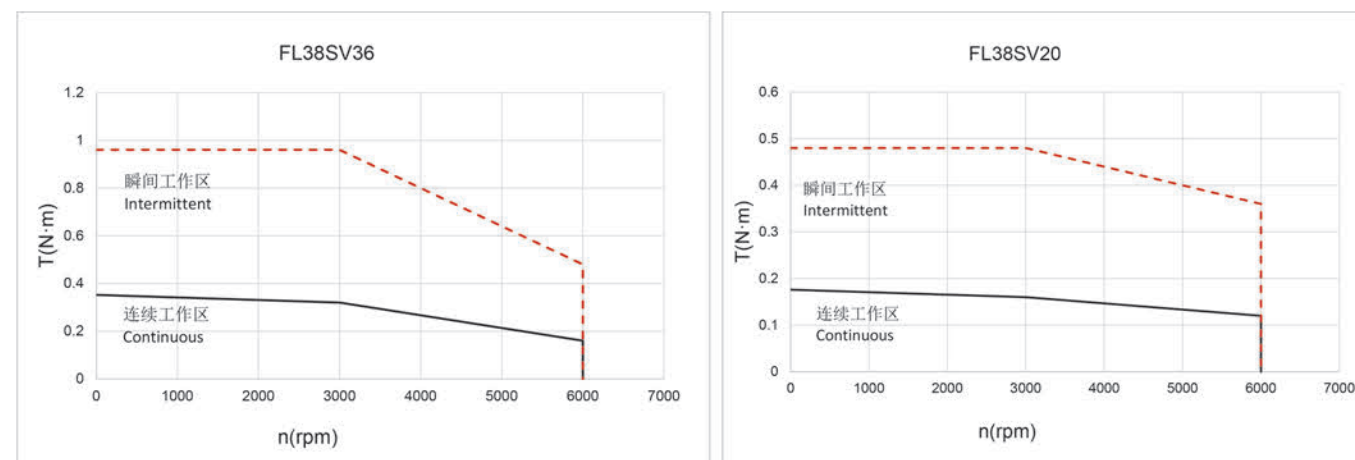
标准伺服电机 Standard Servo Motor



机械尺寸 (Dimension)



性能曲线 (Performance Curve)



接线说明 (Electric Connection)

序号 No.	引出线颜色 Lead Color	引出线型号 Lead Gauge	功能 Function	说明 Description
1	黄色(Yellow)	Cable AWG22	U 相(Phase U)	
2	红色(Red)		V 相(Phase V)	
3	黑色(Black)		W 相(Phase W)	

编码器接线定义请向富兴机电公司咨询
Please ask for the encoder connection from FULLING MOTOR company

一般技术特性 (General Technical Information)

编码器类型 (Encoder type)	1、光电编码器 Optical encoder 2、磁编码器 Magnetic encoder 3、旋转变压器 Resolver 备注：多种分辨率可选，增量式、绝对值式可选。 Note: Multiple resolutions are available ; Incremental or absolute encoders are optional
径向负载 (Max radial force)	120N @ 20mm from the flange
轴向负载 (Max axial force)	60N
绝缘等级 (Insulation Class)	Class B
防护等级 (Protection level)	IP65
环境条件 Environmental conditions	使用环境温度：-20°C~ +40°C ; Temperature: -20°C~ +40°C 使用环境湿度：≤90%RH (无凝露) ; Relative humidity: ≤90%RH(No dewing) 安装环境：远离腐蚀、可燃性气体，油滴，灰尘， 海拔≤1000m(1000~4000m，降额使用) ; Installation environment: Far away active gas, Combustible gas, oil drop, ash. altitudes≤1000m(1000~4000m, Derating use) ; 存储环境：-20°C~ +60°C , ≤85%RH (无凝露) ; Storage Condition: -20°C~ +60°C , ≤85%RH(No dewing).

电机技术性能 (Motor Technical Specification)

类型 (Model)	单位(Unit)	FL38SV20	FL38SV36	
额定功率(Rated power)	P_n	W	50	100
额定电压(Rated voltage)	U	VDC	300	300
额定转速(Rated speed)	n_n	RPM	3000	3000
额定转矩(Rated torque)	T_n	N·m	0.16	0.32
额定电流(Rated current)	I_n	A	0.6	1.1
最大转速(Maximum speed)	n_{max}	RPM	6000	6000
最大转矩(Maximum torque)	T_m	N·m	0.48	0.96
最大电流(Maximum current)	I_m	A	1.8	3.3
电阻(Line to line resistance)	R_L	Ω	30	14
电感(Line to line inductance)	L_L	mH	23	9.1
反电势系数(Back EMF)	K_e	V/Krpm	18	18
转矩系数(Torque constant)	K_t	Nm/A	0.32	0.32
电气时间常数(Electrical time constant)	τ_e	ms	0.77	0.65
机械时间常数 (Mechanical time constant)	τ_m	ms	1.3	1.1
转动惯量(Rotor inertia)	J_{m0}	kg·cm ²	0.026	0.046
转动惯量带制动器(Rotor inertia with brake)	J_{m1}	kg·cm ²	0.0326	0.0526
极数(Number of poles)			10	10
编码器(Encoder)			2500ppr 光电编码器 (增量式) 2500p/rev incremental encoder	
机身长度(Motor length)	L1	mm	72	88
机身长度带制动器(Motor length with brake)	L2	mm	110	126
重量 (Weight)		Kg	0.4	0.5
重量带制动器(Weight with brake)		Kg	0.65	0.75

该款电机可以根据客户需求定制。
The motor can be designed & manufactured with customized request.