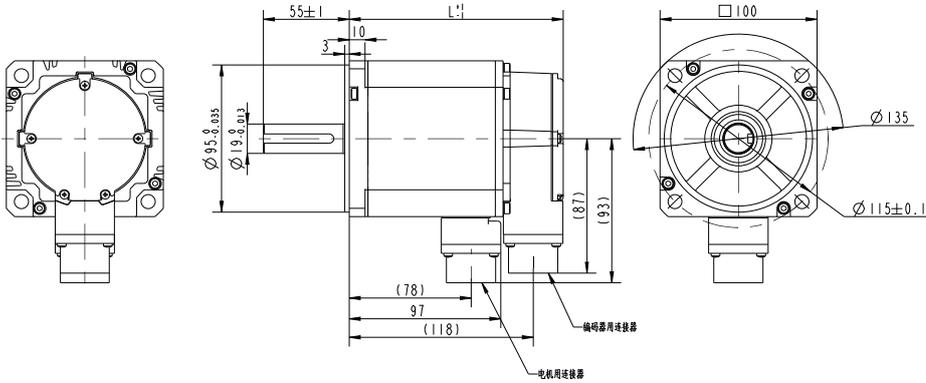


机械尺寸

(Dimensions)



选件 Options



接线说明

(Electric Connection)

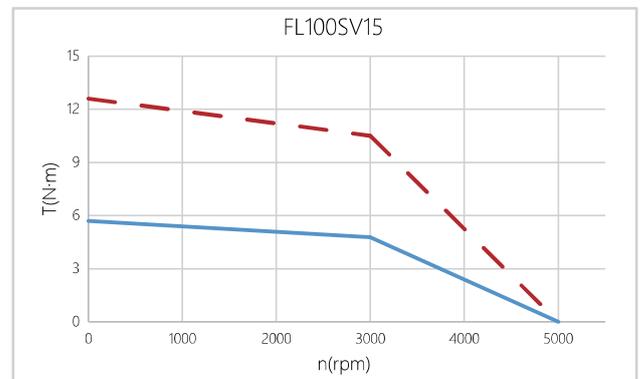
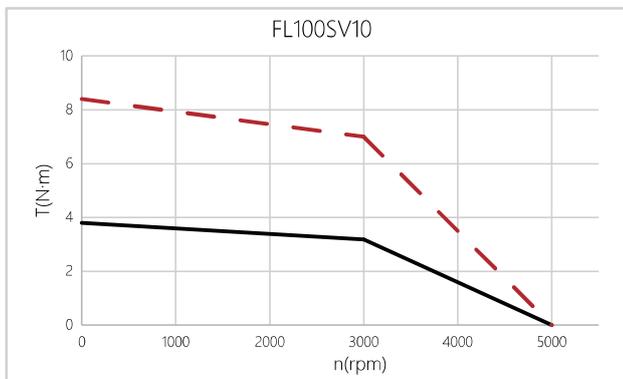
动力线的连接器接线定义见图纸。

编码器的连接器接线定义见图纸。

Electric connection of power and encoder cable is shown in the official drawing.

性能曲线

(Performance Curve)



● 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 and absolute values are available.		
径向负载 (Max radial force)	490N @ 20mm from the flange	环境条件 Environmental conditions	使用环境温度：-20°C~ +50°C; Temperature: -20°C~ +50°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. altitude≤1000m(1000~4000m, Derating use); 存储环境：-20°C~ +85°C, ≤85%RH (无凝露)。 Storage Condition: -20°C~ +85°C, ≤85%RH(No dewing).
轴向负载 (Max axial force)	196N		
绝缘等级 (Insulation Class)	Class F		
防护等级 (Protection level)	IP65		

● 电机技术性能 (Motor Technical Specification)

类型(Model)	单位 (Unit)	FL100SV100		FL100SV150		
			1000		1500	
额定功率(Rated power)	Pn	W				
额定电压(Rated voltage)	U	VDC	220VAC	48VDC	220VAC	48VDC
额定转速(Rated speed)	nn	RPM	3000	3000	3000	3000
额定转矩(Rated torque)	Tn	N·m	3.18	3.18	4.77	4.77
额定电流(Rated current)	In	A	5.0	31.8	7.5	43.4
最大转速(Maximum speed)	nmax	RPM	5000	5000	5000	5000
最大转矩(Maximum torque)	Tm	N·m	7	7	10.5	10.5
最大电流(Maximum current)	Im	A	11	70	16.7	95.5
电阻(Line to line resistance)	RL	Ω	0.82	0.022	0.54	0.015
电感(Line to line inductance)	LL	mH	7.4	0.2	5.2	0.15
反电势系数(BackEMF)	Ke	V/Krpm	38	6.18	38	6.48
转矩系数(Torque constant)	Kt	Nm/A	0.63	0.1	0.63	0.11
电气时间常数(Electrical time constant)	τe	ms	9	9	9.6	10
机械时间常数 (Mechanical time constant)	τm	ms	0.46	0.47	0.43	0.29
转动惯量(Rotor inertia)	Jm0	Kg·cm ²	1.3	1.3	1.84	1.84
转动惯量带制动器(Rotor inertia with brake)	Jm1	Kg·cm ²	1.67	1.67	2.21	2.21
极数(Number of poles)			10	10	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	137	142	159	164
机身长度带制动器(Motor length with brake)	L2	mm	172	177	194	199
重量 (Weight)		Kg	3.73	3.8	4.7	4.8
重量带制动器(Weight with brake)		Kg	4.73	4.8	5.7	5.8