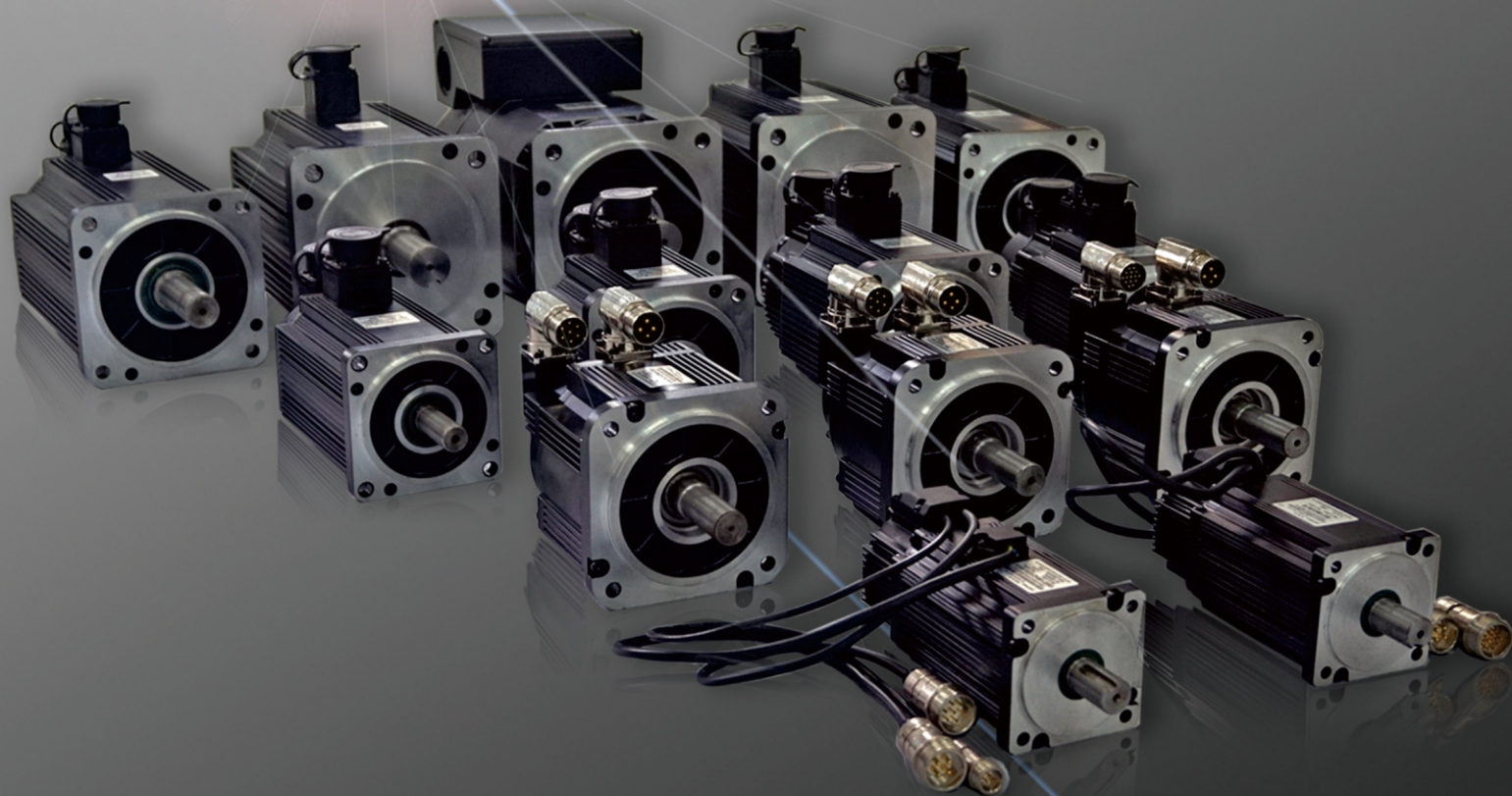


ST系列伺服电机



ISO9001 : 2015



M02804202

LB伺服电机

LB SERVO MOTORS

机座号 (mm) : 110、130、150
FRAME SIZE

额定转矩 (Nm) : 2.0~27
RATED TORQUE

额定功率 (Kw) :0.6~5.5
RATED POWER

额定转速 (rpm) : 1500、2000、2500、3000
RATED SPEED

最高转速 (rpm) : /
MAXIMUM SPEED

极对数: 4
POLES

转子惯量: 中惯量
ROTOR INERTIA

反馈元件: 可选
FEEDBACK

失电制动器: 可配
POWER-OFF BRAKE

适配驱动器工作电压 (VAC) : 220
MATCHED DRIVER WORKING VOLTAGE CODE

LDD伺服电机

LDD SERVO MOTORS

机座号 (mm) : 110、130
FRAME SIZE

额定转矩 (Nm) : 4.2~17.8
RATED TORQUE

额定功率 (Kw) :0.65~3.1
RATED POWER

额定转速 (rpm) : 1500、2000、3000
RATED SPEED

最高转速 (rpm) : 2000、3000、4000
MAXIMUM SPEED

极对数: 5
POLES

转子惯量: 中惯量
ROTOR INERTIA

反馈元件: 可选
FEEDBACK

失电制动器: 可配
POWER-OFF BRAKE

适配驱动器工作电压 (VAC) : 220
MATCHED DRIVER WORKING VOLTAGE CODE

LEE伺服电机

LEE SERVO MOTORS

机座号 (mm) : 60、80
FRAME SIZE

额定转矩 (Nm) : 0.32~4
RATED TORQUE

额定功率 (Kw) :0.1~1.3
RATED POWER

额定转速 (rpm) : 3000
RATED SPEED

最高转速 (rpm) : 6000
MAXIMUM SPEED

极对数: 5
POLES

转子惯量: 中惯量
ROTOR INERTIA

反馈元件: 可选
FEEDBACK

失电制动器: 可配
POWER-OFF BRAKE

适配驱动器工作电压 (VAC) : 220
MATCHED DRIVER WORKING VOLTAGE CODE

HB伺服电机

HB SERVO MOTORS

机座号 (mm) : 110、130、150
FRAME SIZE

额定转矩 (Nm) : 2.0~ 27.0
RATED TORQUE

额定功率 (Kw) :0.6~5.5
RATED POWER

额定转速 (rpm) : 1500、2000、2500、3000
RATED SPEED

最高转速 (rpm) : /
MAXIMUM SPEED

极对数: 4
POLES

转子惯量: 中惯量
ROTOR INERTIA

反馈元件: 可选
FEEDBACK

失电制动器: 可配
POWER-OFF BRAKE

适配驱动器工作电压 (VAC) : 380
MATCHED DRIVER WORKING VOLTAGE CODE

HBB伺服电机

HBB SERVO MOTORS

机座号 (mm) : 150
FRAME SIZE

额定转矩 (Nm) : 4.8~28.7
RATED TORQUE

额定功率 (Kw) :0.85~5.5
RATED POWER

额定转速 (rpm) : 1500、2000
RATED SPEED

最高转速 (rpm) : 3000
MAXIMUM SPEED

极对数: 4
POLES

转子惯量: 中惯量
ROTOR INERTIA

反馈元件: 可选
FEEDBACK

失电制动器: 可配
POWER-OFF BRAKE

适配驱动器工作电压 (VAC) : 380
MATCHED DRIVER WORKING VOLTAGE CODE

HDD伺服电机

HDD SERVO MOTORS

机座号 (mm) : 110、130、180
FRAME SIZE

额定转矩 (Nm) : 4.2~55
RATED TORQUE

额定功率 (Kw) :0.65~8.6
RATED POWER

额定转速 (rpm) : 1500、2000、3000
RATED SPEED

最高转速 (rpm) : 2000、3000、4000
MAXIMUM SPEED

极对数: 5
POLES

转子惯量: 中惯量
ROTOR INERTIA

反馈元件: 可选
FEEDBACK

失电制动器: 可配
POWER-OFF BRAKE

适配驱动器工作电压 (VAC) : 380
MATCHED DRIVER WORKING VOLTAGE CODE

HEE伺服电机

HEE SERVO MOTORS

机座号 (mm) : 80
FRAME SIZE

额定转矩 (Nm) : 1.3~4
RATED TORQUE

额定功率 (Kw) :0.4~1.3
RATED POWER

额定转速 (rpm) : 3000
RATED SPEED

最高转速 (rpm) : 6000
MAXIMUM SPEED

极对数: 5
POLES

转子惯量: 中惯量
ROTOR INERTIA

反馈元件: 可选
FEEDBACK

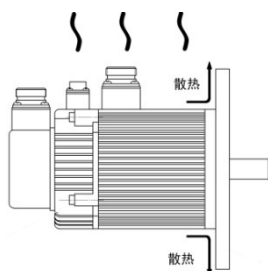
失电制动器: 可配
POWER-OFF BRAKE

适配驱动器工作电压 (VAC) : 380
MATCHED DRIVER WORKING VOLTAGE CODE

安装与连线

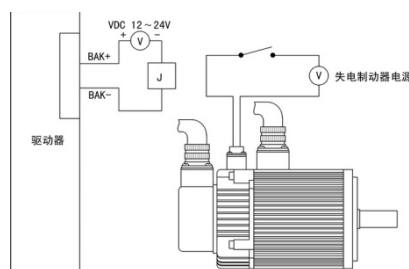
INSTALLED & CONNECT

请您关注以下 ATTENTIONS



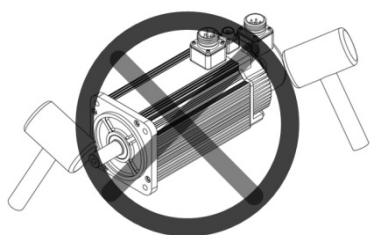
伺服电机为自冷式散热方式，安装时请选择足够大的安装板。伺服电机长期工作，机体本身会有一定的温度，这是正常情况。

The servo motor operate with natural cooling, please mounting in enough size plate. It's normal that the motors generate some heat when in long-time working.



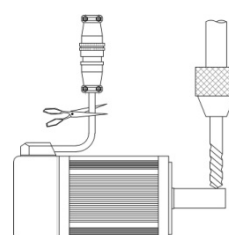
装配了失电制动器的伺服电机，其失电制动器的电源必须由驱动器控制开闭，否则会造成工作状态不佳。

The power-off brake in the some motor must be controled by drivers, if not, it will cause the motor default.



伺服电机内装精密反馈元件，严禁重力敲击电机轴伸端及后部。请注意电机轴伸端的最大径、轴向力的限值。

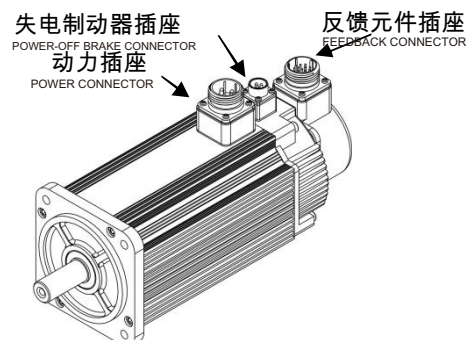
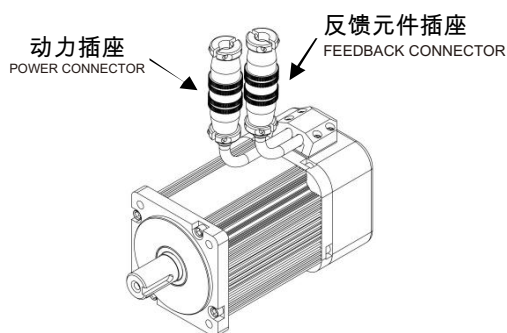
The motors have high-precision feedback components inside, please don't hit the shaft end and the rear. Pay attention to the limits of the maximum diameter and axial force about the shaft side.



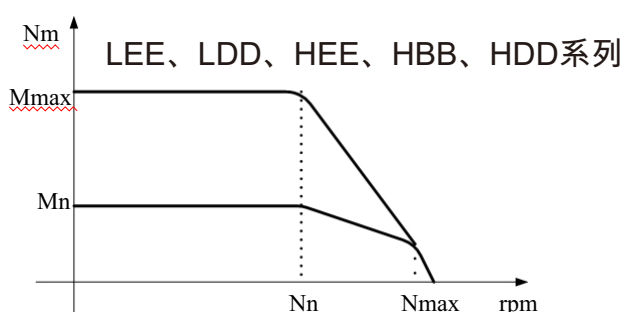
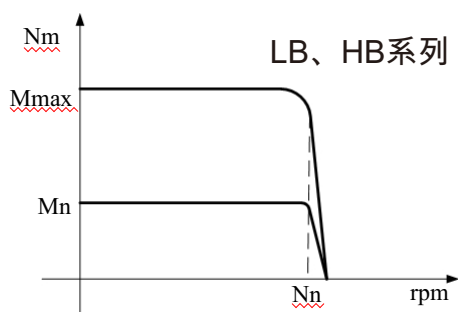
严禁随意更改、拆装及加工电机部件。请您将需求告之我们，我们来为您服务。

Don't change /assemble and process the parts of te motor arbitrarily. Please tell us your requirements ,we will at your service.

电机电连接器 MOTOR CONNECTOR



转矩转速曲线示意图 TORQUE & SPEED GRAPH



ST系列伺服电机的Mmax=3Mn；Mmax输出状态为短时工作。使用时请查询配置的驱动器输出容量。

ST servo motor series mmax=3mn .mmax output state is in short time operation. please refer to output capacity of configured driver while using

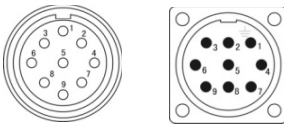
动力插座（4P插座）：60、80、110、130、150、180机座号
POWER SOCKET (4PIN)

绕组引线	U	V	W	
插头编号	2	3	4	1



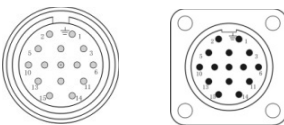
反馈元件插座：省线增量式编码器（代码F1，9P插座/插头）
ENCODER SOCKET

信号	+5V	0V	A+	A-	B+	B-	Z+	Z-	
插头编号	2	3	4	7	5	8	6	9	1



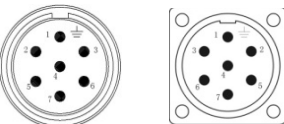
反馈元件插座：非省线式增量编码器（代码F、F5，15 P，DB插座/插头）
ENCODER SOCKET

信号	+5V	0V	A+	A-	B+	B-	Z+	Z-	U+	U-	V+	V-	W+	W-	
插头编号	2	3	4	7	5	8	6	9	10	13	11	14	12	15	1



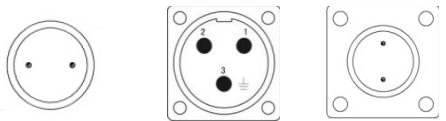
反馈元件插座：TAMAGAWA绝对式多圈编码器（代码M、M1，7P插座/插头）
ENCODER SOCKET

信号	+5V	0V	SD+	SD-	E+	E-	
插头编号	7	5	6	4	3	2	1



失电制动器插座（2 P、3P）：60、80、110、130、150、180机座号
ELECTRIC LOSS BRAKE SOCKET

机座号	60	80	110	130	150	180
工作电压	24VDC	24VDC	24VDC	24VDC	100VDC	100VDC
制动转矩	≥1.3NM	≥2.5NM	≥8Nm	≥12Nm	≥30Nm	≥30Nm
工作电流	≤0.6A					
插座编号	1			2		
备注	电源接入无极性要求 150、180机座号亦可配DC24V失电制动器					



编码器代码：

F：增量复合式光电编码器（2500C/T） F1：省线增量复合光电编码器（2500C/T）
INCREMENTAL ENCODER（2500C/T）

F5：增量复合式光电编码器（5000C/T）
INCREMENTAL ENCODER（5000C/T）

M：TAMAGAWA 绝对值串口协议光电编码器（17bit/33bit）
TAMAGAWA ABSOLUTE ENCODER（17bit/33bit）

M1：TAMAGAWA 绝对值串口协议光电编码器（23bit/39bit）
TAMAGAWA ABSOLUTE ENCODER（23bit/39bit）

C：磁编码器
MAGNETIC ENCODER

特点
FEATURES

机座 (mm) : 110、130、150
FRAME SIZE
额定转速(rpm) : 1500、2000、2500、3000
RATED SPEED
失电制动器 : 选配
ELECTRIC LOSS BRAKE
绝缘等级 : B
INSULATION GRADE
安装方式 : 法兰盘
INSTALLATION METHOD
环境温度 : 0~55℃
ENVIRONMENT TEMPERATURE

额定转矩 (Nm) : 2.0~27
RATED TORQUE
额定功率(Kw) : 0.6~5.5
RATED POWER
极对数 : 4
POLES
防护等级 : 密封自冷式IP65
PROTECTION CLASS
适配驱动器工作电压 (VAC) : 220
MATCHED DRIVER
环境湿度 : < 90% (无结露)
ENVIRONMENT HUMIDITY

LB系列伺服电机命名规则
LB PRODUCTS CODE SPECIFICATION

<u>110</u>	<u>ST</u>	-	<u>M</u>	<u>020</u>	<u>30</u>	<u>L</u>	<u>F</u>	<u>B</u>	<u>Z</u>	<u>/C</u>
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

- (1) 机座号
FRAME SIZE

(4) 额定转矩 : 三位数 × 0.1Nm
RATED TORQUE : THE THREE-DIGIT NUMBER×0.1NM

(7) 编码器代码
ENCODER CODE

(10) 轴伸端键槽代码, 无键无代码
THE SHAFT END KEYWAY CODE, NO CODE MEANS NO KEY
- (2) 交流永磁同步伺服电机
AC PERMANENT MAGNET

(5) 额定转速 : 两位数×100rpm
RATED SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM

(8) 产品系列
PRODUCT SERIES
- (3) 反馈元件类型
FEEDBACK COMPONENTS TYPE

(6) 驱动器工作电压 (VAC) : 220
DRIVER WORKING VOLTAGE CODE

(9) 安装了失电制动器
WITH THE POWER-OFF BRAKE

LB系列一览表
LB SERIES LIST

电机型号 MOTOR TYPE	主要参数 TECHNICAL PARAMETERS			
	额定转矩 RATED TORQUE	额定转速 RATED SPEED	额定电流 RATED CURRENT	额定功率 RATED POWER
110ST-M02030L□B	2.0 Nm	3000 rpm	4.0 A	0.6 Kw
110ST-M04030L□B	4.0 Nm	3000 rpm	5.0 A	1.2 Kw
110ST-M05030L□B	5.0 Nm	3000 rpm	6.0 A	1.5 Kw
110ST-M06020L□B	6.0 Nm	2000 rpm	6.0 A	1.2 Kw
110ST-M06030L□B	6.0 Nm	3000 rpm	8.0 A	1.8 Kw
130ST-M04025L□B	4.0 Nm	2500 rpm	4.0 A	1.0 Kw
130ST-M05025L□B	5.0 Nm	2500 rpm	5.0 A	1.3 Kw
130ST-M06025L□B	6.0 Nm	2500 rpm	6.0 A	1.5 Kw
130ST-M07720L□B	7.7 Nm	2000 rpm	6.0 A	1.6 Kw
130ST-M07725L□B	7.7 Nm	2500 rpm	7.5 A	2.0 Kw
130ST-M07730L□B	7.7 Nm	3000 rpm	9.0 A	2.4 Kw
130ST-M10015L□B	10.0 Nm	1500 rpm	6.0 A	1.5 Kw
130ST-M10025L□B	10.0 Nm	2500 rpm	10.0 A	2.6 Kw
130ST-M15015L□B	15.0 Nm	1500 rpm	9.5 A	2.3 Kw
130ST-M15025L□B	15.0 Nm	2500 rpm	17.0 A	3.8 Kw
150ST-M15025L□B	15.0 Nm	2500 rpm	16.5 A	3.9 Kw
150ST-M18020L□B	18.0 Nm	2000 rpm	16.5 A	3.6 Kw
150ST-M23020L□B	23.0 Nm	2000 rpm	20.5 A	4.7 Kw
150ST-M27020L□B	27.0 Nm	2000 rpm	20.5 A	5.5 Kw

□编码器代码

LB系列伺服电机

LB SERIES SERVO MOTORS

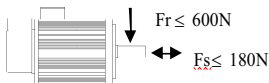
● 110机座 (3000rpm)
FRAME

电机型号 MOTOR TYPE	110ST-M02030LB	110ST-M04030LB	110ST-M05030LB	110ST-M06020LB	110ST-M06030LB
额定功率 RATED POWER	0.6 Kw	1.2 Kw	1.5Kw	1.2 Kw	1.8 Kw
额定转矩 RATED TORQUE	2.0 Nm	4.0 Nm	5.0 Nm	6.0 Nm	6.0 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm	3000 rpm	2000 rpm	3000 rpm
额定电流 RATED CURRENT	4.0 A	5.0 A	6.0 A	6.0 A	8.0 A
转子惯量 ROTOR INERTIA	0.413×10 ⁻³ Kg·m ² (0.477×10 ⁻³ Kg·m ²)	0.693×10 ⁻³ Kg·m ² (0.757×10 ⁻³ Kg·m ²)	0.856×10 ⁻³ Kg·m ² (0.92×10 ⁻³ Kg·m ²)	1.029×10 ⁻³ Kg·m ² (1.093×10 ⁻³ Kg·m ²)	1.029×10 ⁻³ Kg·m ² (1.093×10 ⁻³ Kg·m ²)
机械时间常数 MECHANICAL CONSTANT TIME	4.867 ms	2.531 ms	2.12 ms	1.976 ms	1.855 ms
最大转矩 MAX TORQUE	6.0 Nm	12.0 Nm	15.0 Nm	18.0 Nm	18.0 Nm

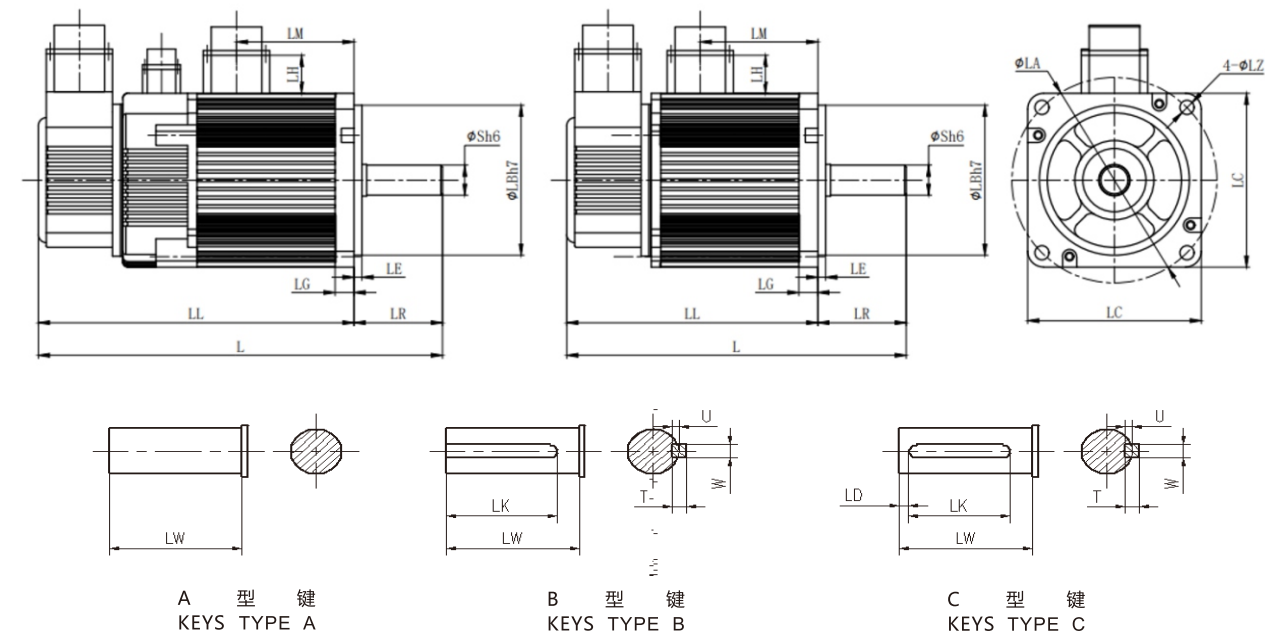
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图
DIMENSIONAL DRAWING



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	LM	LH	T	U	W	LK	LW	LD
110ST-M02030LB	214 (256)	158 (200)	56	5	12	110	130	9	Φ19 ⁰ _{-0.013}	95 ⁰ _{-0.035}	76	30	6	3.5	6	40	48	3
110ST-M04030LB	241 (283)	185 (227)	56	5	12	110	130	9	Φ19 ⁰ _{-0.013}	95 ⁰ _{-0.035}	102	30	6	3.5	6	40	48	3
110ST-M05030LB	256 (298)	200 (242)	56	5	12	110	130	9	Φ19 ⁰ _{-0.013}	95 ⁰ _{-0.035}	118	30	6	3.5	6	40	48	3
110ST-M06020LB 110ST-M06030LB	273 (315)	217 (259)	56	5	12	110	130	9	Φ19 ⁰ _{-0.013}	95 ⁰ _{-0.035}	134	30	6	3.5	6	40	48	3

● 130机座 (2500rpm)

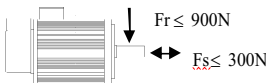
FRAME

电机型号 MOTOR TYPE	130ST-M04025L-B	130ST-M05025L-B	130ST-M06025L-B
额定功率 RATED POWER	1.0 Kw	1.3 Kw	1.5 Kw
额定转矩 RATED TORQUE	4.0 Nm	5.0 Nm	6.0 Nm
额定转速 RATED SPEED	2500 rpm	2500 rpm	2500 rpm
额定电流 RATED CURRENT	4.0 A	5.0 A	6.0 A
转子惯量 ROTOR INERTIA	1.04×10 ⁻³ Kg·m ² (1.207×10 ⁻³ Kg·m ²)	1.337×10 ⁻³ Kg·m ² (1.504×10 ⁻³ Kg·m ²)	1.556×10 ⁻³ Kg·m ² (1.723×10 ⁻³ Kg·m ²)
机械时间常数 MECHANICAL CONSTANT TIME	3.457 ms	3.478 ms	2.824 ms
最大转矩 MAX TORQUE	12.0 Nm	15.0 Nm	18.0 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

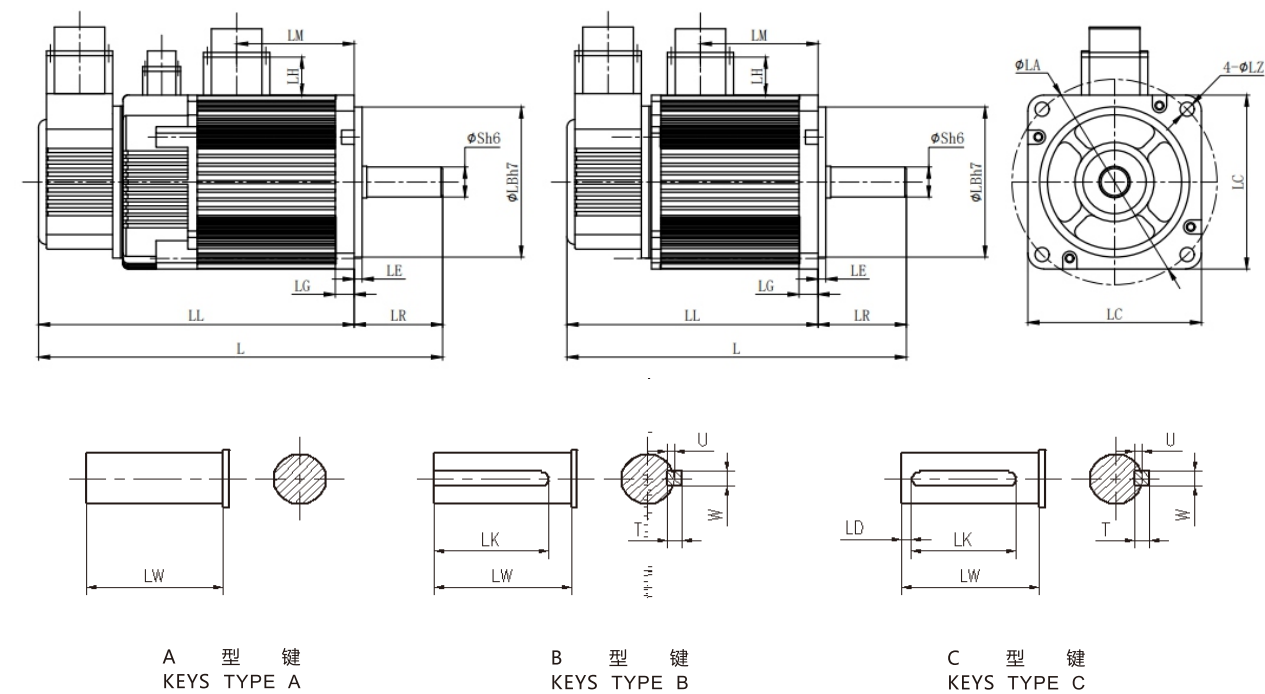
□ 编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图

DIMENSIONAL DRAWING



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	LM	LH	T	U	W	LK	LW	LD
130ST-M04025L-B	221 (263)	163 (205)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	80	30	6	3.5	6	40	50	5
130ST-M05025L-B	229 (271)	171 (213)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	89	30	6	3.5	6	40	50	5
130ST-M06025L-B	239 (281)	181 (223)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	98	30	6	3.5	6	40	50	5

LB系列伺服电机

LB SERIES SERVO MOTORS

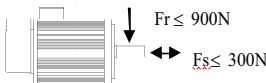
- 130机座 (1500rpm、2000rpm、2500rpm、3000rpm)
- FRAME

电机型号 MOTOR TYPE	130ST-M07720L□B	130ST-M07725L□B	130ST-M07730L□B	130ST-M10015L□B
额定功率 RATED POWER	1.6 Kw	2.0 Kw	2.4 Kw	1.5 Kw
额定转矩 RATED TORQUE	7.7 Nm	7.7 Nm	7.7 Nm	10.0 Nm
额定转速 RATED SPEED	2000 rpm	2500 rpm	3000 rpm	1500 rpm
额定电流 RATED CURRENT	6.0 A	7.5 A	9.0 A	6.0 A
转子惯量 ROTOR INERTIA	1.959×10 ⁻³ Kg·m ² (2.126×10 ⁻³ Kg·m ²)	1.959×10 ⁻³ Kg·m ² (2.126×10 ⁻³ Kg·m ²)	1.959×10 ⁻³ Kg·m ² (2.126×10 ⁻³ Kg·m ²)	2.539×10 ⁻³ Kg·m ² (2.706×10 ⁻³ Kg·m ²)
机械时间常数 MECHANICAL CONSTANT TIME	2.356 ms	2.142 ms	2.262 ms	2.196 ms
最大转矩 MAX TORQUE	23.1 Nm	23.1 Nm	23.1 Nm	30.0 Nm

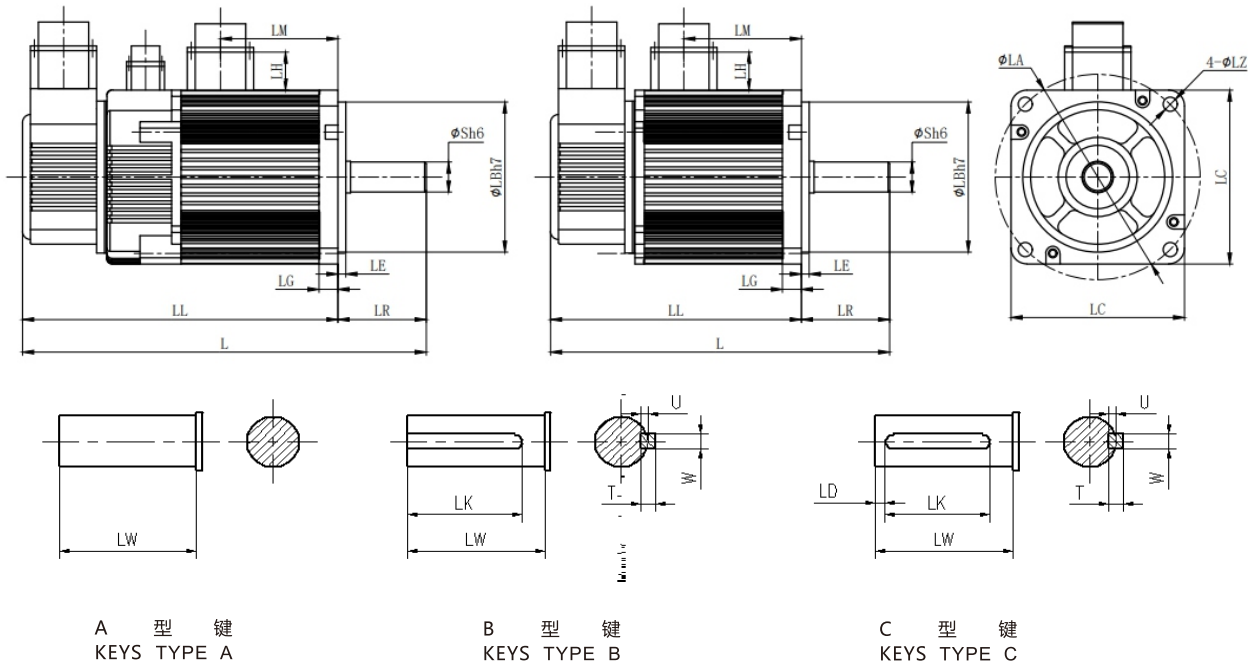
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图
DIMENSIONAL DRAWING



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	LM	LH	T	U	W	LK	LW	LD
130ST-M07720L□B 130ST-M07725L□B 130ST-M07730L□B	253 (295)	195 (237)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	112	30	6	3.5	6	40	50	5
130ST-M10015L□B	277 (319)	219 (261)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	136	30	6	3.5	6	40	50	5

LB系列伺服电机

LB SERIES SERVO MOTORS

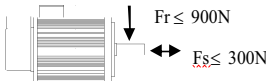
● 130机座 (1500rpm、2500rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M10025L-B	130ST-M15015L-B	130ST-M15025L-B
额定功率 RATED POWER	2.6 Kw	2.3 Kw	3.9Kw
额定转矩 RATED TORQUE	10.0 Nm	15.0 Nm	15.0Nm
额定转速 RATED SPEED	2500 rpm	1500 rpm	2500 rpm
额定电流 RATED CURRENT	10.0 A	9.5 A	17.0 A
转子惯量 ROTOR INERTIA	2.539×10 ⁻³ Kgm ² (2.706×10 ⁻³ Kgm ²)	2.914×10 ⁻³ Kgm ² (3.081×10 ⁻³ Kgm ²)	2.914×10 ⁻³ Kgm ² (3.081×10 ⁻³ Kgm ²)
机械时间常数 MECHANICAL CONSTANT TIME	1.996 ms	1.606 ms	1.146 ms
最大转矩 MAX TORQUE	30.0 Nm	45.0 Nm	45.0 Nm

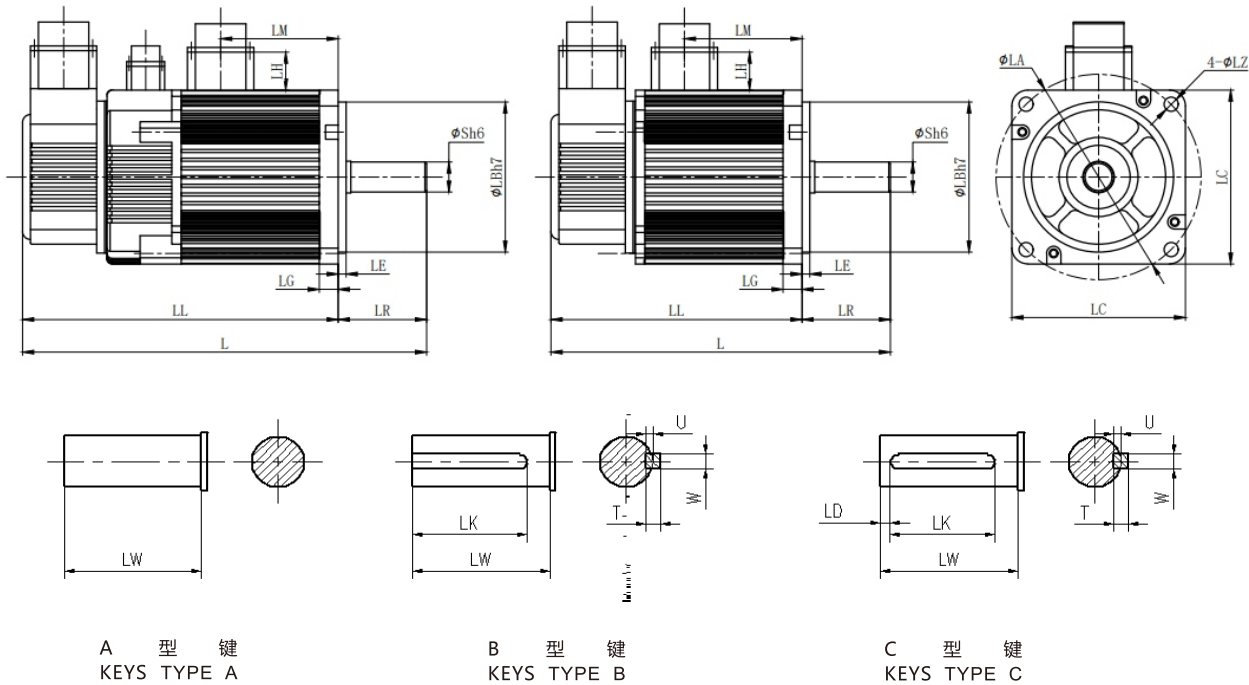
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图
DIMENSIONAL DRAWING



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	LM	LH	T	U	W	LK	LW	LD
130ST-M10025L-B	277 (319)	219 (261)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	136	30	6	3.5	6	40	50	5
130ST-M15015L-B 130ST-M15025L-B	325 (367)	267 (309)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	184	30	6	3.5	6	40	50	5

LB系列伺服电机

LB SERIES SERVO MOTORS

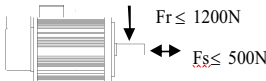
● 150机座 (2000rpm、2500rpm)
FRAME

电机型号 MOTOR TYPE	150ST-M15025L-B	150ST-M18020L-B	150ST-M23020L-B	150ST-M27020L-B
额定功率 RATED POWER	3.8 Kw	3.6 Kw	4.7 Kw	5.5 Kw
额定转矩 RATED TORQUE	15.0 Nm	18.0 Nm	23.0 Nm	27.0 Nm
额定转速 RATED SPEED	2500 rpm	2000 rpm	2000 rpm	2000 rpm
额定电流 RATED CURRENT	16.5A	16.5 A	20.5 A	20.5 A
转子惯量 ROTOR INERTIA	4.609×10 ⁻³ Kg·m ² (5.209×10 ⁻³ Kg·m ²)	6.222×10 ⁻³ Kg·m ² (6.6×10 ⁻³ Kg·m ²)	8.345×10 ⁻³ Kg·m ² (8.945×10 ⁻³ Kg·m ²)	9.871×10 ⁻³ Kg·m ² (10.471×10 ⁻³ Kg·m ²)
机械时间常数 MECHANICAL CONSTANT TIME	1.941ms	2.07 ms	1.909 ms	2.564 ms
最大转矩 MAX TORQUE	45.0 Nm	54.0 Nm	69.0 Nm	81.0 Nm

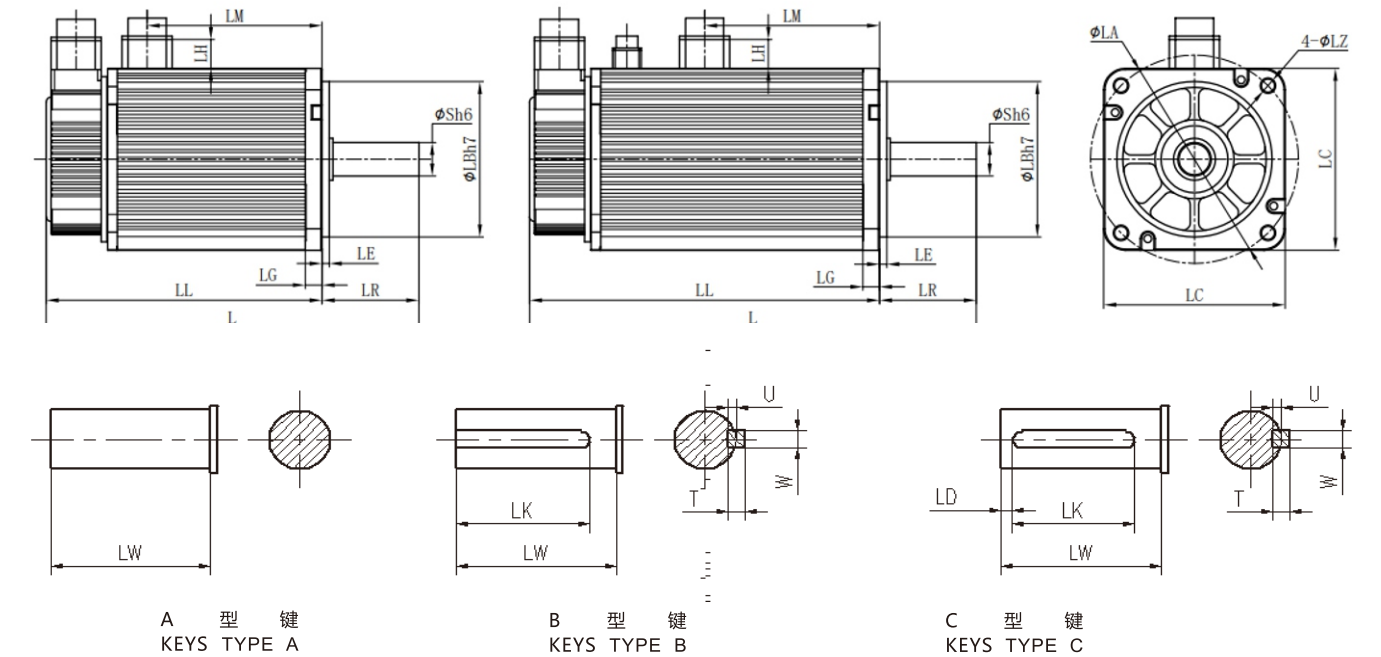
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图
DIMENSIONAL DRAWING



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	LM	LH	T	U	W	LW	LK	LD
150ST-M15025L-B	312 (374)	231 (293)	81	6	14	150	174	11	Φ28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	146	30	7	4	8	72	60(B型) 55(C型)	5
150ST-M18020L-B	331 (393)	250 (312)	81	6	14	150	174	11	Φ28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	166	30	7	4	8	72	60(B型) 55(C型)	5
150ST-M23020L-B	361 (423)	280 (342)	81	6	14	150	174	11	Φ28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	196	30	7	4	8	72	60(B型) 55(C型)	5
150ST-M27020L-B	387 (449)	306 (368)	81	6	14	150	174	11	Φ28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	222	30	7	4	8	72	60(B型) 55(C型)	5

特点FEATURES

- 机座 (mm) : 110、130

FRAME SIZE

额定转速(rpm) : 1500、2000、2500、3000

RATED SPEED

失电制动器 : 选配

ELECTRIC LOSS BRAKE

绝缘等级 : F

INSULATION GRADE

安装方式 : 法兰盘

INSTALLATION METHOD

环境温度 : 0~55℃

ENVIRONMENT TEMPERATURE
- 额定转矩 (Nm) : 4.2~17.8

RATED TORQUE

最高转速 (rpm) : 2000、3000、4000

MAXIMUM SPEED

额定功率(Kw) : 0.65~3.1

RATED POWER

极对数 : 5

POLES

防护等级 : 密封自冷式IP67

PROTECTION CLASS

适配驱动器工作电压 (VAC) : 220

MATCHED DRIVER

环境湿度 : < 90% (无结露)

ENVIRONMENT HUMIDITY

LDD系列伺服电机命名规则LDD PRODUCTS CODE SPECIFICATION

110	ST	-	M	042	15	30	L	M1	D	D	Z	/C
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)

- (1) 机座号

FRAME SIZE

(4) 额定转矩 : 三位数 × 0.1Nm

RATED TORQUE : THE THREE-DIGIT NUMBER×0.1NM

(7) 驱动器工作电压 (VAC) : 220

DRIVER WORKING VOLTAGE CODE

(10) 具有最高转速特性

MAXIMUM SPEED FEATURES
- (2) 交流永磁同步伺服电机

AC PERMANENT MAGNET

(5) 额定转速 : 二位数×100rpm

RATED SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM

(8) 编码器代码

ENCODER CODE

(11) 安装了失电制动器

WITH THE POWER-OFF BRAKE
- (3) 反馈元件类型

FEEDBACK COMPONENTS TYPE

(6) 最高转速 : 二位数×100rpm

MAXIMUM SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM

(9) 产品系列

PRODUCT SERIES

(12) 轴伸端键槽代码, 无键无代码

THE SHAFT END KEYWAY CODE, NO CODE MEANS NO KEY

LDD系列一览表
LDD SERIES LIST

电机型号 MOTOR TYPE	主要参数 TECHNICAL PARAMETERS				
	额定转矩 RATED TORQUE	额定转速 RATED SPEED	最高转速 MAXIMUMSPEED	额定电流 RATED CURRENT	额定功率 RATED POWER
110ST-M0422030L□DD	4.2 Nm	2000 rpm	3000 rpm	4.5 A	0.88 Kw
110ST-M0423040L□DD	4.2 Nm	3000 rpm	4000 rpm	6.5 A	1.3 Kw
110ST-M0542030L□DD	5.4 Nm	2000 rpm	3000 rpm	5.5 A	1.1 Kw
110ST-M0543040L□DD	5.4 Nm	3000 rpm	4000 rpm	8.2 A	1.7 Kw
110ST-M0642030L□DD	6.4 Nm	2000 rpm	3000 rpm	6.5 A	1.3 Kw
110ST-M0642540L□DD	6.4 Nm	2500 rpm	4000 rpm	9.5 A	1.7 Kw
110ST-M0752030L□DD	7.5 Nm	2000 rpm	3000 rpm	8.0 A	1.6 Kw
130ST-M0421530L□DD	4.2 Nm	1500 rpm	3000 rpm	5.5 A	0.65 Kw
130ST-M0423040L□DD	4.2 Nm	3000 rpm	4000 rpm	7.0 A	1.3 Kw
130ST-M0541530L□DD	5.4 Nm	1500 rpm	3000 rpm	6.5 A	0.85 Kw
130ST-M0543040L□DD	5.4 Nm	3000 rpm	4000 rpm	9.5 A	1.7 Kw
130ST-M0641530L□DD	6.4 Nm	1500 rpm	3000 rpm	8.0 A	1.0 Kw
130ST-M0643040L□DD	6.4 Nm	3000 rpm	4000 rpm	11.5 A	2.0 Kw
130ST-M0751530L□DD	7.5 Nm	1500 rpm	3000 rpm	9.0 A	1.2 Kw
130ST-M0753040L□DD	7.5 Nm	3000 rpm	4000 rpm	12.0 A	2.4 Kw
130ST-M0841530L□DD	8.4 Nm	1500 rpm	3000 rpm	9.5 A	1.3 Kw
130ST-M0843040L□DD	8.4 Nm	3000 rpm	4000 rpm	13.5 A	2.6 Kw
130ST-M0961530L□DD	9.6 Nm	1500 rpm	3000 rpm	10.0 A	1.5 Kw
130ST-M0962540L□DD	9.6 Nm	2500 rpm	4000 rpm	16.0 A	2.5 Kw
130ST-M1151530L□DD	11.5 Nm	1500 rpm	3000 rpm	14.0 A	1.8 Kw
130ST-M1152040L□DD	11.5 Nm	2000 rpm	4000 rpm	17.8 A	2.4 Kw
130ST-M1461520L□DD	14.6 Nm	1500 rpm	2000 rpm	11.0 A	2.3 Kw
130ST-M1462040L□DD	14.6 Nm	2000 rpm	4000 rpm	23.0 A	3.1 Kw
130ST-M1461530L□DD	14.6 Nm	1500 rpm	3000 rpm	16.0 A	2.3 Kw
130ST-M1781520L□DD	17.8 Nm	1500 rpm	2000 rpm	19.0 A	2.8 Kw

□编码器代码
Encodercode

LDD系列伺服电机

LDD SERIES SERVO MOTORS

● 110 机座 (2000rpm/3000rpm)

FRAME

电机型号 MOTOR TYPE	110ST-M0422030L□DD	110ST-M0542030L□DD	110ST-M0642030L□DD	110ST-M0752030L□DD
额定功率 RATED POWER	0.88 Kw	1.1 Kw	1.3 Kw	1.6 Kw
额定转矩 RATED TORQUE	4.2 Nm	5.4 Nm	6.4 Nm	7.5 Nm
额定转速 RATED SPEED	2000 rpm	2000 rpm	2000 rpm	2000 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	4.5A	5.5 A	6.5 A	8.0 A
转子惯量 ROTOR INERTIA	0.787 Kg $\text{m}^2\times 10^{-3}$ (0.851Kg $\text{m}^2\times 10^{-3}$)	0.916 Kg $\text{m}^2\times 10^{-3}$ (0.98 Kg $\text{m}^2\times 10^{-3}$)	1.061 Kg $\text{m}^2\times 10^{-3}$ (1.125 Kg $\text{m}^2\times 10^{-3}$)	1.238 Kg $\text{m}^2\times 10^{-3}$ (1.302 Kg $\text{m}^2\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	1.752ms	1.396 ms	1.283 ms	1.266 ms
最大转矩 MAX TORQUE	12.6 Nm	16.2 Nm	19.2 Nm	22.5 Nm

● 110 机座 (2500rpm/4000rpm、3000rpm/4000rpm)

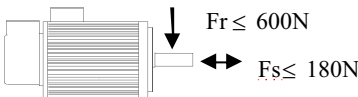
FRAME

电机型号 MOTOR TYPE	110ST-M0423040L□DD	110ST-M0543040L□DD	110ST-M0642540L□DD
额定功率 RATED POWER	1.3 Kw	1.7 Kw	1.7 Kw
额定转矩 RATED TORQUE	4.2 Nm	5.4 Nm	6.4 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm	2500 rpm
最高转速 MAXIMUM SPEED	4000 rpm	4000 rpm	4000 rpm
额定电流 RATED CURRENT	6.5A	8.2 A	9.5 A
转子惯量 ROTOR INERTIA	0.787 Kg $\text{m}^2\times 10^{-3}$ (0.851Kg $\text{m}^2\times 10^{-3}$)	0.916 Kg $\text{m}^2\times 10^{-3}$ (0.98 Kg $\text{m}^2\times 10^{-3}$)	1.061 Kg $\text{m}^2\times 10^{-3}$ (1.125 Kg $\text{m}^2\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	1.737ms	1.588 ms	1.422 ms
最大转矩 MAX TORQUE	12.6 Nm	16.2 Nm	19.2 Nm

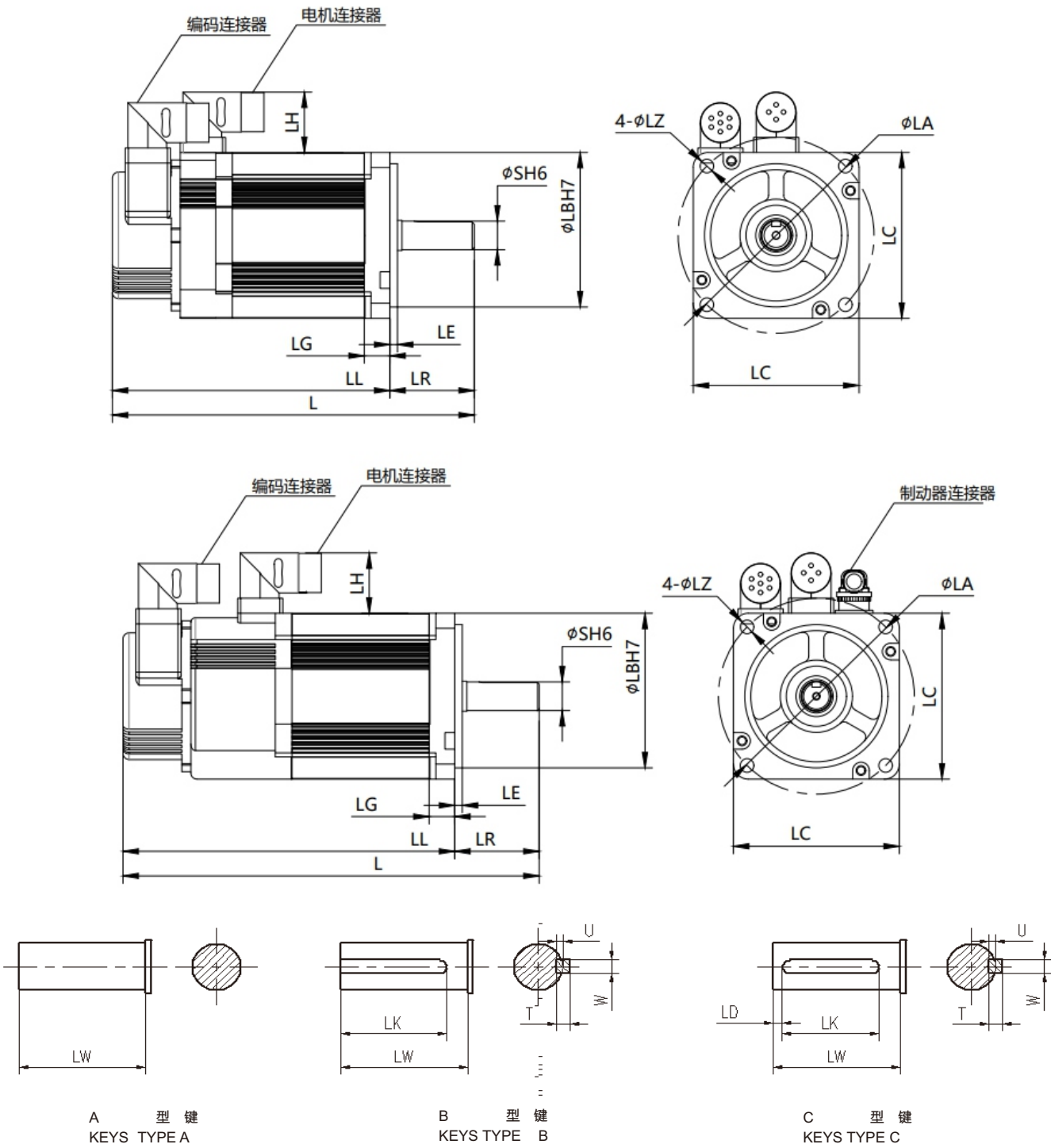
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 安装尺寸



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK	LW	LD	LH
110ST-M0422030LDD 110ST-M0423040LDD	209 (245)	153 (189)	56	5	12	110	130	9	$19^{0}_{-0.013}$	$95^{0}_{-0.04}$	6	3.5	6	40	48	3	45
110ST-M0542030LDD 110ST-M0543040LDD	219 (255)	163 (199)	56	5	12	110	130	9	$19^{0}_{-0.013}$	$95^{0}_{-0.04}$	6	3.5	6	40	48	3	45
110ST-M0642030LDD 110ST-M0642540LDD	229 (265)	173 (209)	56	5	12	110	130	9	$19^{0}_{-0.013}$	$95^{0}_{-0.04}$	6	3.5	6	40	48	3	45
110ST-M0752030LDD	240 (276)	184 (220)	56	5	12	110	130	9	$19^{0}_{-0.013}$	$95^{0}_{-0.04}$	6	3.5	6	40	48	3	45

注：括号内的数值为带失电制动器的电机长度。
Attention: Rotor moment of inertia with power-off brake in brackets.

● 130 机座 (1500rpm/3000rpm)

FRAME

电机型号 MOTOR TYPE	130ST-M0421530L□DD	130ST-M0541530L□DD	130ST-M0641530L□DD
额定功率 RATED POWER	0.65 Kw	0.85 Kw	1.0 Kw
额定转矩 RATED TORQUE	4.2 Nm	5.4 Nm	6.4 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	5.5A	6.5 A	8.0 A
转子惯量 ROTOR INERTIA	1.163 Kg $\cdot$ m ² $\times 10^{-3}$ (1.33 Kg $\cdot$ m ² $\times 10^{-3}$)	1.388 Kg $\cdot$ m ² $\times 10^{-3}$ (1.555 Kg $\cdot$ m ² $\times 10^{-3}$)	1.604 Kg $\cdot$ m ² $\times 10^{-3}$ (1.771 Kg $\cdot$ m ² $\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	3.704ms	2.900 ms	2.804 ms
最大转矩 MAX TORQUE	12.6 Nm	16.2 Nm	19.2 Nm

● 130 机座 (1500rpm/3000rpm)

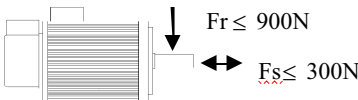
FRAME

电机型号 MOTOR TYPE	130ST-M0751530L□DD	130ST-M0841530L□DD	130ST-M0961530L□DD
额定功率 RATED POWER	1.2 Kw	1.3 Kw	1.5 Kw
额定转矩 RATED TORQUE	7.5 Nm	8.4 Nm	9.6 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	9.0 A	9.5 A	10.0 A
转子惯量 ROTOR INERTIA	1.857 Kg $\cdot$ m ² $\times 10^{-3}$ (2.024 Kg $\cdot$ m ² $\times 10^{-3}$)	2.059 Kg $\cdot$ m ² $\times 10^{-3}$ (2.226 Kg $\cdot$ m ² $\times 10^{-3}$)	2.369 Kg $\cdot$ m ² $\times 10^{-3}$ (2.536 Kg $\cdot$ m ² $\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.409 ms	2.071 ms	2.167 ms
最大转矩 MAX TORQUE	22.5 Nm	25.2 Nm	28.8 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 130 机座 (1500rpm/3000rpm)

FRAME

电机型号 MOTOR TYPE	130ST-M1151530L□DD	130ST-M1461530L□DD
额定功率 RATED POWER	1.8 Kw	2.3 Kw
额定转矩 RATED TORQUE	11.5 Nm	14.6 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm
额定电流 RATED CURRENT	14.0 A	16.0 A
转子惯量 ROTOR INERTIA	3.015 Kg $\text{m}^2\times 10^{-3}$ (3.182 Kg $\text{m}^2\times 10^{-3}$)	4.070 Kg $\text{m}^2\times 10^{-3}$ (4.237 Kg $\text{m}^2\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.415 ms	1.875 ms
最大转矩 MAX TORQUE	34.5 Nm	43.8 Nm

● 130 机座 (1500rpm/2000rpm)

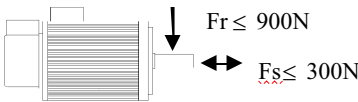
FRAME

电机型号 MOTOR TYPE	130ST-M1461520L□DD	130ST-M1781520L□DD
额定功率 RATED POWER	2.3 Kw	2.8 Kw
额定转矩 RATED TORQUE	14.6 Nm	17.8 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	2000 rpm	2000 rpm
额定电流 RATED CURRENT	11.0 A	19.0 A
转子惯量 ROTOR INERTIA	4.070 Kg $\text{m}^2\times 10^{-3}$ (4.237 Kg $\text{m}^2\times 10^{-3}$)	4.548 Kg $\text{m}^2\times 10^{-3}$ (4.715 Kg $\text{m}^2\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	1.553 ms	1.575 ms
最大转矩 MAX TORQUE	43.8 Nm	53.4 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 130 机座 (3000rpm/4000rpm)

FRAME

电机型号 MOTOR TYPE	130ST-M0423040L□DD	130ST-M0543040L□DD
额定功率 RATED POWER	1.3 Kw	1.7 Kw
额定转矩 RATED TORQUE	4.2 Nm	5.4 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm
最高转速 MAXIMUM SPEED	4000 rpm	4000 rpm
额定电流 RATED CURRENT	7.0 A	9.5 A
转子惯量 ROTOR INERTIA	1.163 Kg $\text{m}^2\times 10^{-3}$ (1.33 Kg $\text{m}^2\times 10^{-3}$)	1.388 Kg $\text{m}^2\times 10^{-3}$ (1.555 Kg $\text{m}^2\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	3.270 ms	2.806 ms
最大转矩 MAX TORQUE	12.6 Nm	16.2 Nm

● 130 机座 (3000rpm/4000rpm)

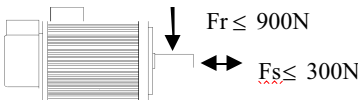
FRAME

电机型号 MOTOR TYPE	130ST-M0643040L□DD	130ST-M0753040L□DD	130ST-M0843040L□DD
额定功率 RATED POWER	2.0 Kw	2.4 Kw	2.6 Kw
额定转矩 RATED TORQUE	6.4 Nm	7.5 Nm	8.4 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm	3000 rpm
最高转速 MAXIMUM SPEED	4000 rpm	4000 rpm	4000 rpm
额定电流 RATED CURRENT	11.5 A	12.0 A	13.5 A
转子惯量 ROTOR INERTIA	1.604 Kg $\text{m}^2\times 10^{-3}$ (1.771 Kg $\text{m}^2\times 10^{-3}$)	1.857 Kg $\text{m}^2\times 10^{-3}$ (2.024 Kg $\text{m}^2\times 10^{-3}$)	2.369 Kg $\text{m}^2\times 10^{-3}$ (2.536 Kg $\text{m}^2\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.544 ms	2.068 ms	2.19 ms
最大转矩 MAX TORQUE	19.2 Nm	22.5 Nm	25.2 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



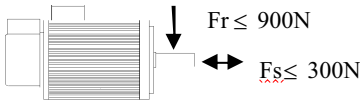
- 130 机座 (2500rpm、2000rpm/4000rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M0962540L□DD	130ST-M1152040L□DD	130ST-M1462040L□DD
额定功率 RATED POWER	2.5 Kw	2.4 Kw	3.1 Kw
额定转矩 RATED TORQUE	9.6 Nm	11.5 Nm	14.6 Nm
额定转速 RATED SPEED	2500 rpm	2000 rpm	2000 rpm
最高转速 MAXIMUM SPEED	4000 rpm	4000 rpm	4000 rpm
额定电流 RATED CURRENT	16.0 A	17.8 A	23.0 A
转子惯量 ROTOR INERTIA	3.015 Kg ^{m²} ×10 ⁻³ (3.182 Kg ^{m²} ×10 ⁻³)	4.070 Kg ^{m²} ×10 ⁻³ (4.237 Kg ^{m²} ×10 ⁻³)	4.548 Kg ^{m²} ×10 ⁻³ (4.715 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	2.010 ms	1.814 ms	1.700 ms
最大转矩 MAX TORQUE	28.8 Nm	34.5 Nm	43.8 Nm

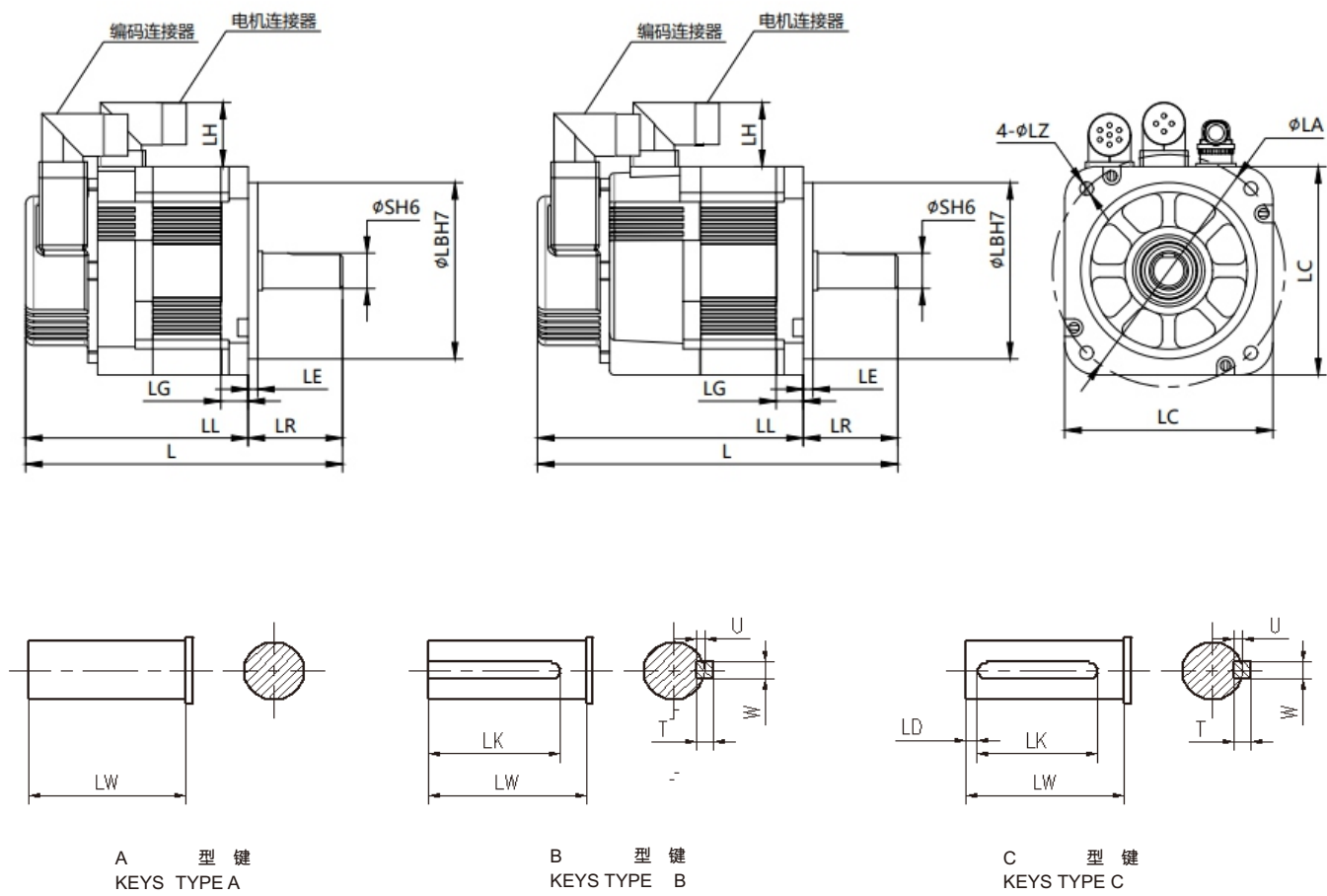
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 安装尺寸



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK	LW	LD	LH
130ST-M0421530L□DD 130ST-M0423040L□DD	198 (225)	139 (166)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0541530L□DD 130ST-M0543040L□DD	204 (231)	145 (172)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0641530L□DD 130ST-M0643040L□DD	211 (237)	152 (178)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0751530L□DD 130ST-M0753040L□DD	218 (245)	159 (186)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0841530L□DD	224 (251)	165 (192)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0843040L□DD 130ST-M0961530L□DD	232 (259)	173 (200)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0962540L□DD 130ST-M1151530L□DD	251 (278)	192 (219)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M1152040L□DD 130ST-M1461520L□DD 130ST-M1461530L□DD	283 (310)	224 (251)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M1462040L□DD 130ST-M1781520L□DD	304 (331)	245 (272)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45

注：括号内的数值为带失电制动器的电机长度。
Attention：Rotor moment of inertia with power-off brake in brackets.

特点
FEATURES

机座 (mm) : 60、80
FRAME SIZE
额定转速(rpm) : 3000
RATED SPEED
失电制动器 : 选配
ELECTRIC LOSS BRAKE
绝缘等级 : F
INSULATION GRADE
安装方式 : 法兰盘
INSTALLATION METHOD
环境温度 : 0~55℃
ENVIRONMENT TEMPERATURE

额定转矩 (Nm) : 0.32~4
RATED TORQUE
最高转速 (rpm) : 6000
MAXIMUM SPEED
额定功率(Kw) : 0.1~1.3
RATED POWER
极对数 : 5
POLES
防护等级 : 密封自冷式IP67
PROTECTION CLASS
适配驱动器工作电压 (VAC) : 220
MATCHED DRIVER
环境湿度 : < 90% (无结露)
ENVIRONMENT HUMIDITY

LEE系列伺服电机命名规则
LEE PRODUCTS CODE SPECIFICATION

60	ST	-	M	012	30	60	L	M1	E	E	Z	/C
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)

- (1) 机座号
FRAME SIZE

(4) 额定转矩 : 三位数 × 0.1Nm
RATED TORQUE : THE THREE-DIGIT NUMBER×0.1NM

(7) 驱动器工作电压 (VAC) : 220
DRIVER WORKING VOLTAGE CODE

(10) 具有最高转速特性
MAXIMUM SPEED FEATURES
- (2) 交流永磁同步伺服电机
AC PERMANENT MAGNET

(5) 额定转速 : 二位数×100rpm
RATED SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM

(8) 编码器代码
ENCODER CODE

(11) 安装了失电制动器
WITH THE POWER-OFF BRAKE
- (3) 反馈元件类型
FEEDBACK COMPONENTS TYPE

(6) 最高转速 : 二位数×100rpm
MAXIMUM SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM

(9) 产品系列
PRODUCT SERIES

(12) 轴伸端键槽代码, 无键无代码
THE SHAFT END KEYWAY CODE, NO CODE MEANS NO KEY

LEE系列一览表
LEE SERIES LIST

电机型号 MOTOR TYPE	主要参数 TECHNICAL PARAMETERS				
	额定转矩 RATED TORQUE	额定转速 RATED SPEED	最高转速 MAXIMUMSPEED	额定电流 RATED CURRENT	额定功率 RATED POWER
60ST-M0033060L□EE	0.32 Nm	3000 rpm	6000 rpm	0.8 A	0.1 Kw
60ST-M0063060L□EE	0.64 Nm	3000 rpm	6000 rpm	1.3 A	0.2 Kw
60ST-M0123060L□EE	1.27 Nm	3000 rpm	6000 rpm	2.3 A	0.4 Kw
60ST-M0173060L□EE	1.75 Nm	3000 rpm	6000 rpm	3.9 A	0.55 Kw
80ST-M0133060L□EE	1.3 Nm	3000 rpm	6000 rpm	2.5 A	0.4 Kw
80ST-M0243060L□EE	2.4 Nm	3000 rpm	6000 rpm	4.5 A	0.75 Kw
80ST-M0333060L□EE	3.3 Nm	3000 rpm	6000 rpm	6 A	1.0 Kw
80ST-M0403060L□EE	4.0 Nm	3000 rpm	6000 rpm	7.3 A	1.3 Kw

□编码器代码
Encodercode

● 60机座 (3000rpm/6000rpm)
FRAME

电机型号 MOTOR TYPE	60ST-M0033060L□EE	60ST-M0063060L□EE
额定功率 RATED POWER	0.1 Kw	0.2 Kw
额定转矩 RATED TORQUE	0.32 Nm	0.64 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm
最高转速 MAXIMUM SPEED	6000 rpm	6000 rpm
额定电流 RATED CURRENT	0.8 A	1.3 A
转子惯量 ROTOR INERTIA	0.25Kgmm ² ×10 ⁻⁴ (0.26Kgmm ² ×10 ⁻⁴)	0.39×10 ⁻⁴ Kgmm ² (0.40Kgmm ² ×10 ⁻⁴)
机械时间常数 MECHANICAL CONSTANT TIME	4.845ms	3.198 ms
最大转矩 MAX TORQUE	1.12 Nm	2.24 Nm

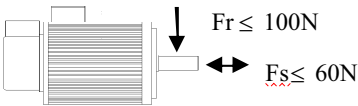
● 60机座 (3000rpm/6000rpm)
FRAME

电机型号 MOTOR TYPE	60ST-M0123060L□EE	60ST-M0173060L□EE
额定功率 RATED POWER	0.4 Kw	0.55 Kw
额定转矩 RATED TORQUE	1.27 Nm	1.75 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm
最高转速 MAXIMUM SPEED	6000 rpm	6000 rpm
额定电流 RATED CURRENT	2.3 A	3.9 A
转子惯量 ROTOR INERTIA	0.65Kgmm ² ×10 ⁻⁴ (0.66Kgmm ² ×10 ⁻⁴)	0.87Kgmm ² ×10 ⁻⁴ (0.88 Kgmm ² ×10 ⁻⁴)
机械时间常数 MECHANICAL CONSTANT TIME	2.123 ms	2 ms
最大转矩 MAX TORQUE	3.9 Nm	7.2 Nm

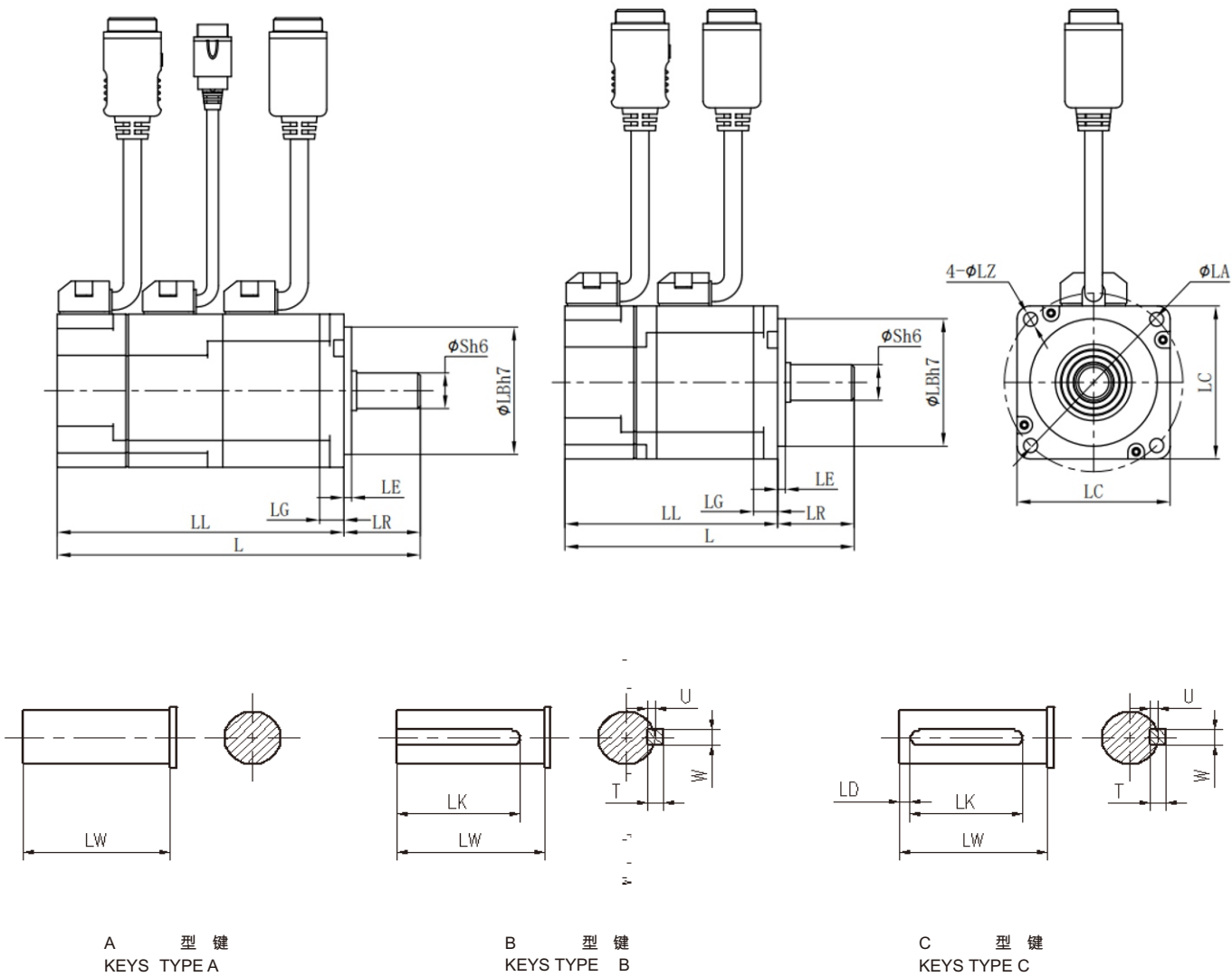
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 安装尺寸



型号	L	LL	LR	LE	LG	LC	LA	LZ	ϕS	LB	T	U	W	LK	LW	LD
60ST-M0033060L□EE	113.5 (142.5)	83.5 (112.5)	30	3	9.5	60	70	5.5	$14^{0}_{-0.011}$	$50^{0}_{-0.04}$	5	3	5	20	25	3
60ST-M0063060L□EE	122.5. (151.5)	92.5 (121.5)	30	3	9.5	60	70	5.5	$14^{0}_{-0.011}$	$50^{0}_{-0.04}$	5	3	5	20	25	3
60ST-M0123060L□EE	140.5 (169.5)	110.5 (139.5)	30	3	9.5	60	70	5.5	$14^{0}_{-0.011}$	$50^{0}_{-0.04}$	5	3	5	20	25	3
60ST-M0173060L□EE	155 (184.5)	125.5 (154.5)	30	3	9.5	60	70	5.5	$14^{0}_{-0.011}$	$50^{0}_{-0.04}$	5	3	5	20	25	3

注：括号内的数值为带失电制动器的电机长度。
Attention：Rotor moment of inertia with power-off brake in brackets.

● 80机座 (3000rpm/6000rpm)
FRAME

电机型号 MOTOR TYPE	80ST-M0133060L=EE	80ST-M0243060L=EE
额定功率 RATED POWER	0.4 Kw	0.75 Kw
额定转矩 RATED TORQUE	1.3 Nm	2.4 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm
最高转速 MAXIMUM SPEED	6000 rpm	6000 rpm
额定电流 RATED CURRENT	2.5 A	4.5 A
转子惯量 ROTOR INERTIA	0.09Kgm ² ×10 ⁻³ (0.1Kgm ² ×10 ⁻³)	0.139Kgm ² ×10 ⁻³ (0.15Kgm ² ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	2.539 ms	1.265 ms
最大转矩 MAX TORQUE	3.9 Nm	7.2 Nm

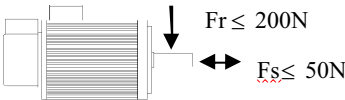
● 80机座 (3000rpm/6000rpm)
FRAME

电机型号 MOTOR TYPE	80ST-M0333060L=EE	80ST-M0403060L=EE
额定功率 RATED POWER	1.0 Kw	1.3 Kw
额定转矩 RATED TORQUE	3.33 Nm	4.0 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm
最高转速 MAXIMUM SPEED	6000 rpm	6000 rpm
额定电流 RATED CURRENT	6 A	7.3 A
转子惯量 ROTOR INERTIA	0.178Kgm ² ×10 ⁻³ (0.189Kgm ² ×10 ⁻³)	0.227Kgm ² ×10 ⁻³ (0.238Kgm ² ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.056 ms	0.953 ms
最大转矩 MAX TORQUE	10 Nm	12.0 Nm

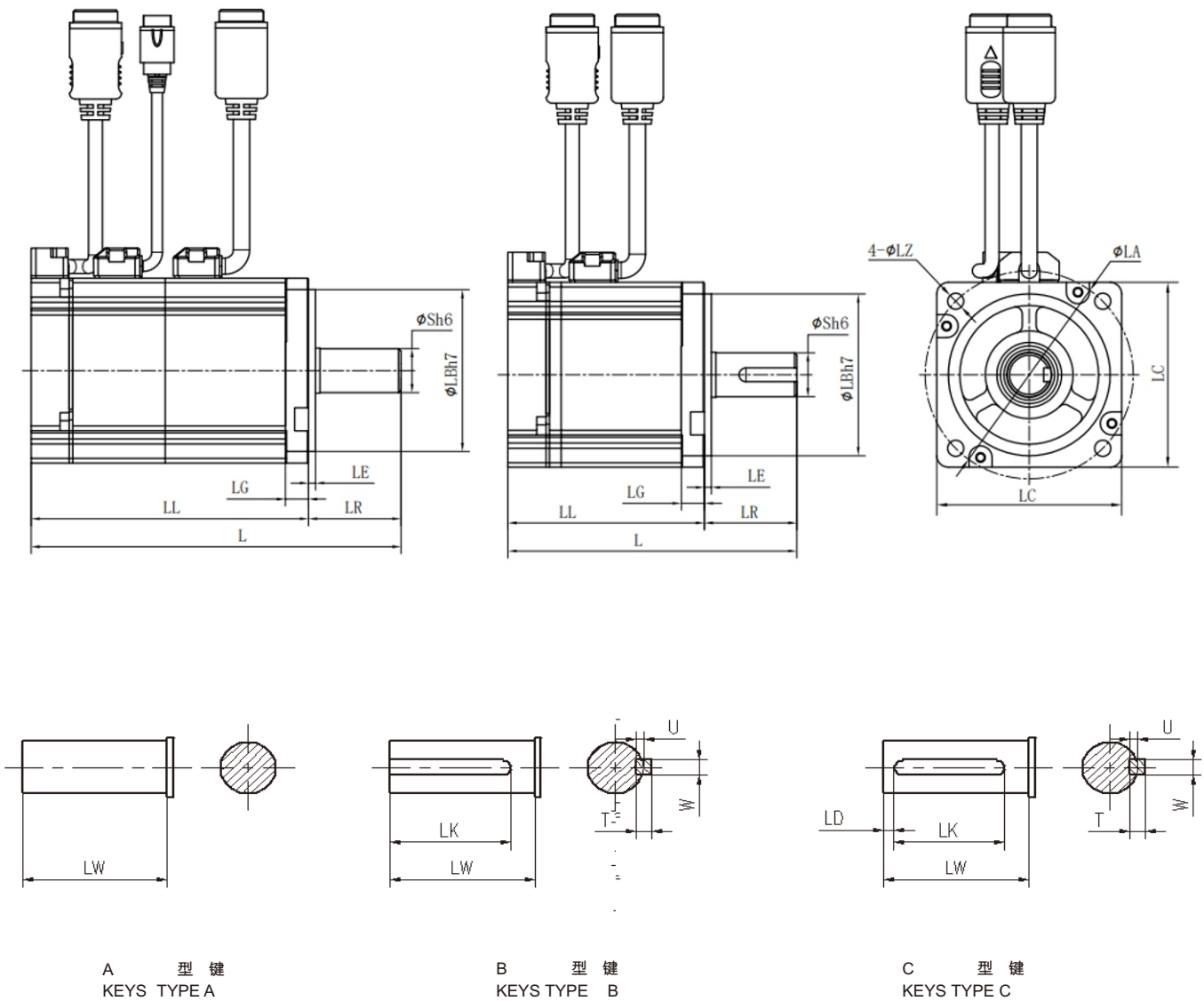
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 安装尺寸



型号	L	LL	LR	LE	LG	LC	LA	LZ	ϕS	LB	T	U	W	LK	LW	LD
80ST-M0133060L□EE	135 (170)	95 (130)	40	3	10	80	90	7	$19^{0}_{-0.013}$	$70^{0}_{-0.03}$	6	3.5	6	25	35	5
80ST-M0243060L□EE	154 (189)	114 (149)	40	3	10	80	90	7	$19^{0}_{-0.013}$	$70^{0}_{-0.03}$	6	3.5	6	25	35	5
80ST-M0333060L□EE	169 (204)	129 (164)	40	3	10	80	90	7	$19^{0}_{-0.013}$	$70^{0}_{-0.03}$	6	3.5	6	25	35	5
80ST-M0403050L□EE	181 (216)	141 (176)	40	3	10	80	90	7	$19^{0}_{-0.013}$	$70^{0}_{-0.03}$	6	3.5	6	25	35	5

注：括号内的数值为带失电制动器的电机长度。
Attention：Rotor moment of inertia with power-off brake in brackets.

特点
FEATURES

机座 (mm) : 110、130、150
FRAME SIZE
额定转速(rpm) : 1500、2000、2500、3000
RATED SPEED
失电制动器 : 选配
ELECTRIC LOSS BRAKE
绝缘等级 : B
INSULATION GRADE
安装方式 : 法兰盘
INSTALLATION METHOD
环境温度 : 0~55℃
ENVIRONMENT TEMPERATURE

额定转矩 (Nm) : 2.0~27.0
RATED TORQUE
额定功率(Kw) : 0.6~5.5
RATED POWER
极对数 : 4
POLES
防护等级 : 密封自冷式IP65
PROTECTION CLASS
适配驱动器工作电压 (VAC) : 380
MATCHED DRIVER
环境湿度 : < 90% (无结露)
ENVIRONMENT HUMIDITY

HB系列伺服电机命名规则
HB PRODUCTS CODE SPECIFICATION

110	ST	-	M	020	30	H	F1	B	Z	/C
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

- (1) 机座号
FRAME SIZE
- (2) 交流永磁同步伺服电机
AC PERMANENT MAGNET
- (3) 反馈元件类型
FEEDBACK COMPONENTS TYPE
- (4) 额定转矩 : 三位数 × 0.1Nm
RATED TORQUE : THE THREE-DIGIT NUMBER×0.1NM
- (5) 额定转速 : 二位数×100rpm
RATED SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM
- (6) 驱动器工作电压 (VAC) : 380
DRIVER WORKING VOLTAGE CODE
- (7) 编码器代码
ENCODER CODE
- (8) 产品系列
PRODUCT SERIES
- (9) 安装了失电制动器
WITH THE POWER-OFF BRAKE
- (10) 轴伸端键槽代码, 无键无代码
THE SHAFT END KEYWAY CODE, NO CODE MEANS NO KEY

HB系列一览表
HB SERIES LIST

电机型号 MOTOR TYPE	主要参数 TECHNICAL PARAMETERS			
	额定转矩 RATED TORQUE	额定转速 RATED SPEED	额定电流 RATED CURRENT	额定功率 RATED POWER
110ST-M02030H□B	2.0 Nm	3000 rpm	3.0 A	0.6 Kw
110ST-M04030H□B	4.0 Nm	3000 rpm	4.0 A	1.2 Kw
110ST-M05030H□B	5.0 Nm	3000 rpm	4.5 A	1.5 Kw
110ST-M06020H□B	6.0 Nm	2000 rpm	3.5 A	1.2 Kw
110ST-M06030H□B	6.0 Nm	3000 rpm	5.0 A	1.6 Kw
130ST-M04025H□B	4.0 Nm	2500 rpm	3.0 A	1.0 Kw
130ST-M05020H□B	5.0 Nm	2000 rpm	3.0 A	1.0 Kw
130ST-M05025H□B	5.0 Nm	2500 rpm	3.5 A	1.3 Kw
130ST-M06025H□B	6.0 Nm	2500 rpm	4.5 A	1.5 Kw
130ST-M07720H□B	7.7 Nm	2000 rpm	4.0 A	1.6 Kw
130ST-M07725H□B	7.7 Nm	2500 rpm	5.5 A	2.0 Kw
130ST-M07730H□B	7.7 Nm	3000 rpm	6.5 A	2.4 Kw
130ST-M10015H□B	10.0 Nm	1500 rpm	4.5 A	1.5 Kw
130ST-M10025H□B	10.0 Nm	2500 rpm	7.0 A	2.6 Kw
130ST-M15015H□B	15.0 Nm	1500 rpm	7.0 A	2.3 Kw
130ST-M15025H□B	15.0 Nm	2500 rpm	11.5 A	3.8 Kw
150ST-M15025H□B	15.0 Nm	2500 rpm	10.0 A	3.8 Kw
150ST-M18020H□B	18.0 Nm	2000 rpm	10.5 A	3.6 Kw
150ST-M23020H□B	23.0 Nm	2000 rpm	13.5 A	4.7 Kw
150ST-M27020H□B	27.0 Nm	2000 rpm	13.5 A	5.5 Kw

□编码器代码
Encodercode

HB系列伺服电机

HB SERIES SERVO MOTORS

● 110 机座 (2000rpm、3000rpm)

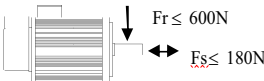
FRAME

电机型号 MOTOR TYPE	110ST-M02030H□B	110ST-M04030H□B	110ST-M05030H□B	110ST-M06020H□B	110ST-M06030H□B
额定功率 RATED POWER	0.6 Kw	1.2 Kw	1.5Kw	1.2 Kw	1.8 Kw
额定转矩 RATED TORQUE	2.0 Nm	4.0 Nm	5.0 Nm	6.0 Nm	6.0 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm	3000 rpm	2000 rpm	3000 rpm
额定电流 RATED CURRENT	3.0 A	4.0 A	4.5 A	3.5 A	5.0 A
转子惯量 ROTOR INERTIA	0.413×10 ⁻³ Kg·m ² (0.477×10 ⁻³ Kg·m ²)	0.693×10 ⁻³ Kg·m ² (0.757×10 ⁻³ Kg·m ²)	0.856×10 ⁻³ Kg·m ² (0.92×10 ⁻³ Kg·m ²)	1.029×10 ⁻³ Kg·m ² (1.093×10 ⁻³ Kg·m ²)	1.029×10 ⁻³ Kg·m ² (1.093×10 ⁻³ Kg·m ²)
机械时间常数 MECHANICAL CONSTANT TIME	6.979 ms	3.682 ms	2.594 ms	2.174 ms	1.942 ms
最大转矩 MAX TORQUE	6.0 Nm	12.0 Nm	15.0 Nm	18.0 Nm	18.0 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

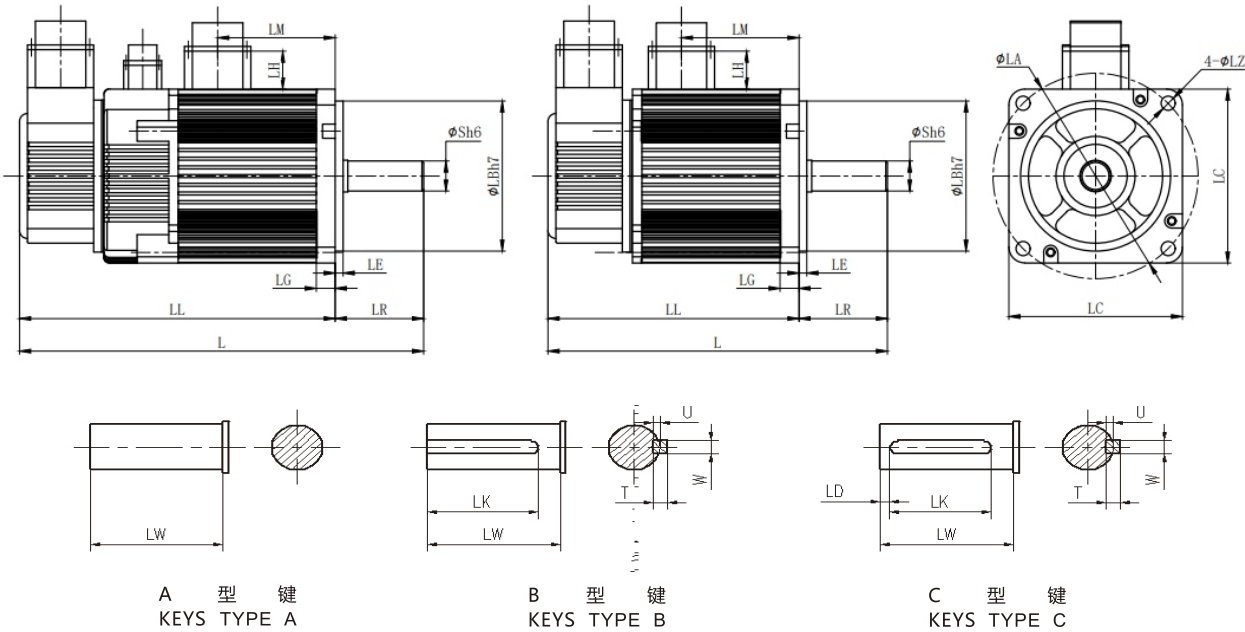
□编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图

DIMENSIONAL DRAWING



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	LM	LH	T	U	W	LK	LW	LD
110ST-M02030H□B	214 (256)	158 (200)	56	5	12	110	130	9	Φ19 ⁰ _{-0.013}	95 ⁰ _{-0.035}	76	30	6	3.5	6	40	48	3
110ST-M04030H□B	241 (283)	185 (227)	56	5	12	110	130	9	Φ19 ⁰ _{-0.013}	95 ⁰ _{-0.035}	102	30	6	3.5	6	40	48	3
110ST-M05030H□B	256 (298)	200 (242)	56	5	12	110	130	9	Φ19 ⁰ _{-0.013}	95 ⁰ _{-0.035}	118	30	6	3.5	6	40	48	3
110ST-M06020H□B 110ST-M06030H□B	273 (315)	217 (259)	56	5	12	110	130	9	Φ19 ⁰ _{-0.013}	95 ⁰ _{-0.035}	134	30	6	3.5	6	40	48	3

HB系列伺服电机

HB SERIES SERVO MOTORS

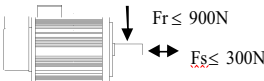
● 130机座 (2500rpm/2500rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M04025H□B	130ST-M05020H□B	130ST-M05025H□B	130ST-M06025H□B
额定功率 RATED POWER	1.0 Kw	1.0 Kw	1.3 Kw	1.5 Kw
额定转矩 RATED TORQUE	4.0 Nm	5.0 Nm	5.0 Nm	6.0 Nm
额定转速 RATED SPEED	2500 rpm	2000 rpm	2500 rpm	2500 rpm
额定电流 RATED CURRENT	3.0 A	3.0 A	3.5 A	4.5 A
转子惯量 ROTOR INERTIA	1.04×10 ⁻³ Kg·m ² (1.207×10 ⁻³ Kg·m ²)	1.337×10 ⁻³ Kg·m ² (1.504×10 ⁻³ Kg·m ²)	1.337×10 ⁻³ Kg·m ² (1.504×10 ⁻³ Kg·m ²)	1.556×10 ⁻³ Kg·m ² (1.723×10 ⁻³ Kg·m ²)
机械时间常数 MECHANICAL CONSTANT TIME	4.894 ms	3.718 ms	3.934 ms	4.014 ms
最大转矩 MAX TORQUE	12.0 Nm	15.0 Nm	15.0 Nm	18.0 Nm

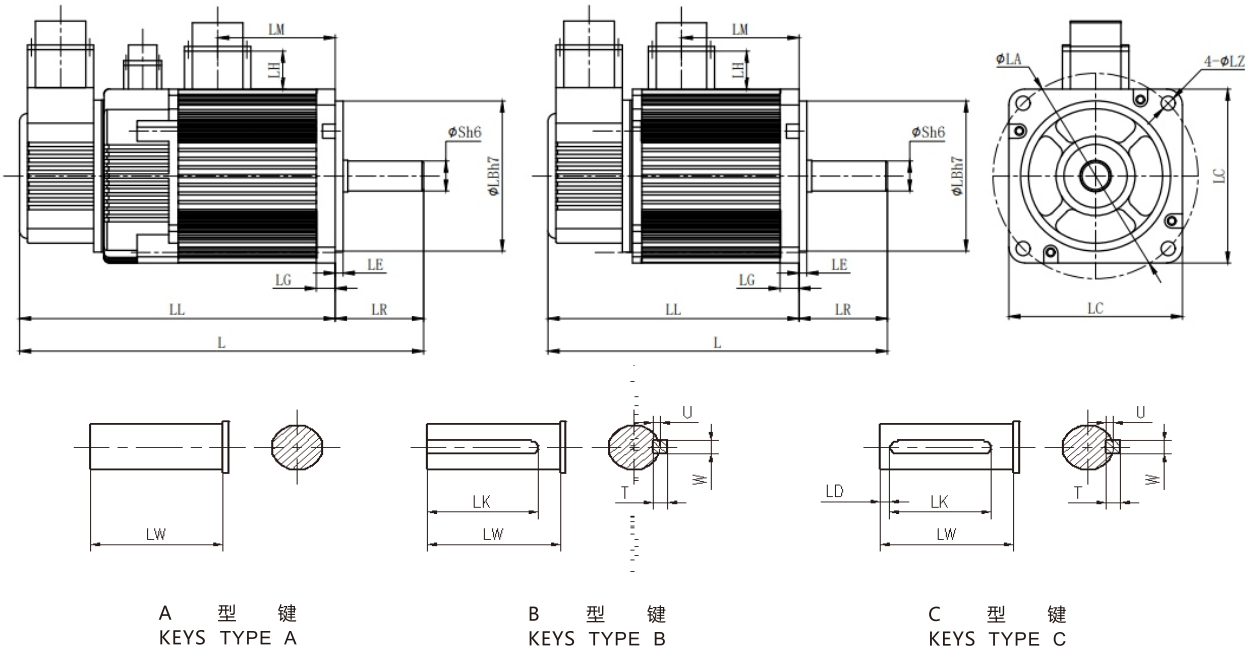
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图
DIMENSIONAL DRAWING



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	LM	LH	T	U	W	LK	LW	LD
130ST-M04025H□B	221 (263)	163 (205)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	80	30	6	3.5	6	40	50	5
130ST-M05025H□B 130ST-M05025H□B	229 (271)	171 (213)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	89	30	6	3.5	6	40	50	5
130ST-M06025H□B	239 (281)	181 (223)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	98	30	6	3.5	6	40	50	5

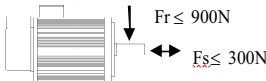
● 130机座 (1500rpm、2000rpm、2500rpm、3000rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M07720H□B	130ST-M07725H□B	130ST-M07730H□B	130ST-M10015H□B
额定功率 RATED POWER	1.6 Kw	2.0 Kw	2.4 Kw	1.5 Kw
额定转矩 RATED TORQUE	7.7 Nm	7.7 Nm	7.7 Nm	10.0 Nm
额定转速 RATED SPEED	2000 rpm	2500 rpm	3000 rpm	1500 rpm
额定电流 RATED CURRENT	4.0 A	5.5 A	6.5 A	4.5 A
转子惯量 ROTOR INERTIA	1.959×10 ⁻³ Kg·m ² (2.126×10 ⁻³ Kg·m ²)	1.959×10 ⁻³ Kg·m ² (2.126×10 ⁻³ Kg·m ²)	1.959×10 ⁻³ Kg·m ² (2.126×10 ⁻³ Kg·m ²)	2.539×10 ⁻³ Kg·m ² (2.706×10 ⁻³ Kg·m ²)
机械时间常数 MECHANICAL CONSTANT TIME	2.115 ms	2.490 ms	2.157 ms	2.669 ms
最大转矩 MAX TORQUE	23.1 Nm	23.1 Nm	23.1 Nm	30.0 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

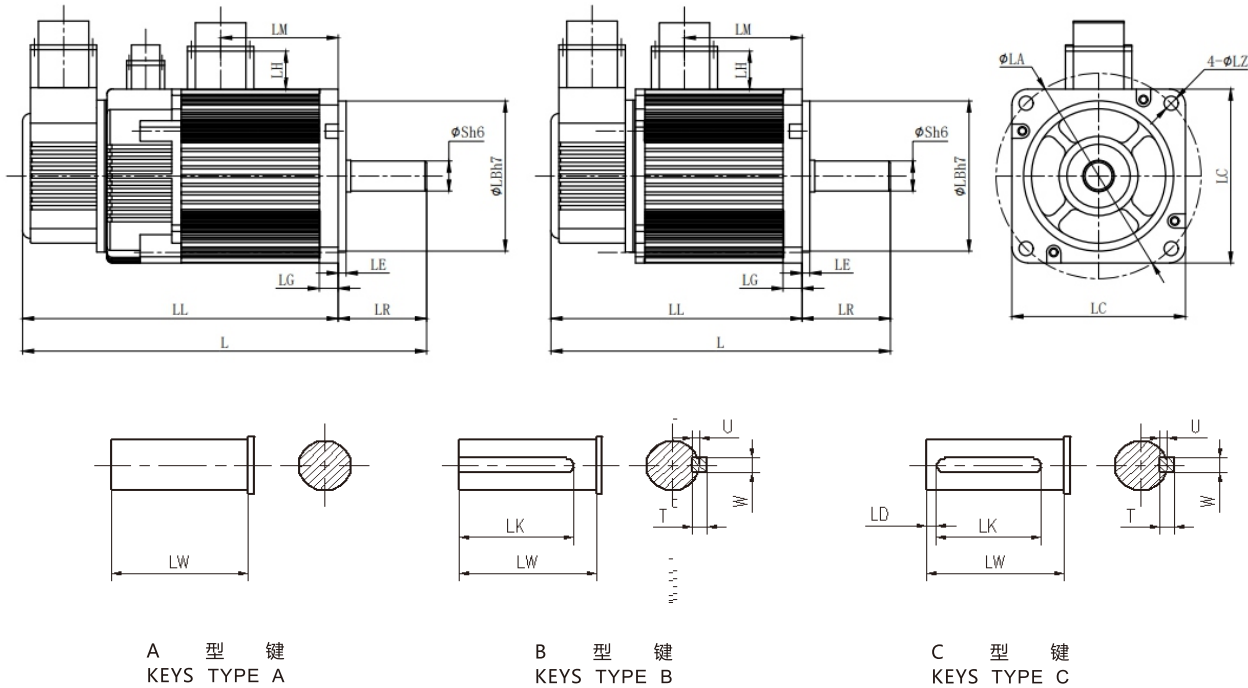
□编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图

DIMENSIONAL DRAWING



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	LM	LH	T	U	W	LK	LW	LD
130ST-M07720H□B 130ST-M07725H□B 130ST-M07730H□B	253 (295)	195 (237)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	112	30	6	3.5	6	40	50	5
130ST-M10015H□B	277 (319)	219 (261)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	136	30	6	3.5	6	40	50	5

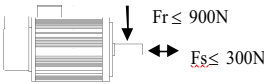
● 130机座 (1500rpm、2500rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M10025H□B	130ST-M15015H□B	130ST-M15025H□B
额定功率 RATED POWER	2.6 Kw	2.3 Kw	3.9Kw
额定转矩 RATED TORQUE	10.0 Nm	15.0 Nm	15.0Nm
额定转速 RATED SPEED	2500 rpm	1500 rpm	2500 rpm
额定电流 RATED CURRENT	7.0 A	7.0 A	11.5 A
转子惯量 ROTOR INERTIA	2.539×10 ⁻³ Kgm ² (2.706×10 ⁻³ Kgm ²)	2.914×10 ⁻³ Kgm ² (3.081×10 ⁻³ Kgm ²)	2.914×10 ⁻³ Kgm ² (3.081×10 ⁻³ Kgm ²)
机械时间常数 MECHANICAL CONSTANT TIME	2.376 ms	1.350 ms	1.218 ms
最大转矩 MAX TORQUE	30.0 Nm	45.0 Nm	45.0 Nm

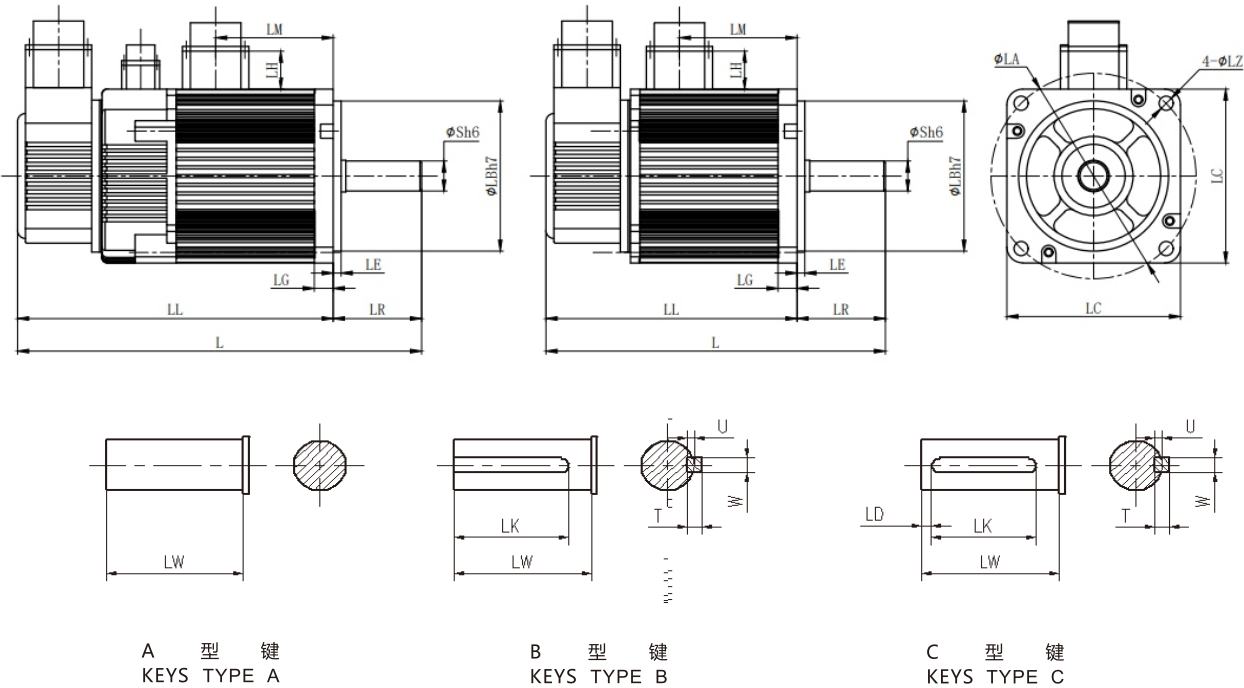
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图
DIMENSIONAL DRAWING



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	LM	LH	T	U	W	LK	LW	LD
130ST-M10025H□B	277 (319)	219 (261)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	136	30	6	3.5	6	40	50	5
130ST-M15015H□B 130ST-M15025H□B	325 (367)	267 (309)	58	6	12	130	145	9	Φ22 ⁰ _{-0.013}	110 ⁰ _{-0.035}	184	30	6	3.5	6	40	50	5

HB系列伺服电机

HB SERIES SERVO MOTORS

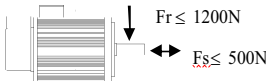
- 150机座 (2000rpm、2500rpm)
- FRAME

电机型号 MOTOR TYPE	150ST-M15025H□B	150ST-M18020H□B	150ST-M23020H□B	150ST-M27020H□B
额定功率 RATED POWER	3.8 Kw	3.6 Kw	4.7 Kw	5.5 Kw
额定转矩 RATED TORQUE	15.0 Nm	18.0 Nm	23.0 Nm	27.0 Nm
额定转速 RATED SPEED	2500 rpm	2000 rpm	2000 rpm	2000 rpm
额定电流 RATED CURRENT	11.5A	10.5 A	13.5 A	13.5 A
转子惯量 ROTOR INERTIA	4.609×10 ⁻³ Kg·m ² (5.209×10 ⁻³ Kg·m ²)	6.222×10 ⁻³ Kg·m ² (6.6×10 ⁻³ Kg·m ²)	8.345×10 ⁻³ Kg·m ² (8.945×10 ⁻³ Kg·m ²)	9.871×10 ⁻³ Kg·m ² (10.471×10 ⁻³ Kg·m ²)
机械时间常数 MECHANICAL CONSTANT TIME	1.941ms	2.07 ms	1.909 ms	2.564 ms
最大转矩 MAX TORQUE	45.0 Nm	54.0 Nm	69.0 Nm	81.0 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

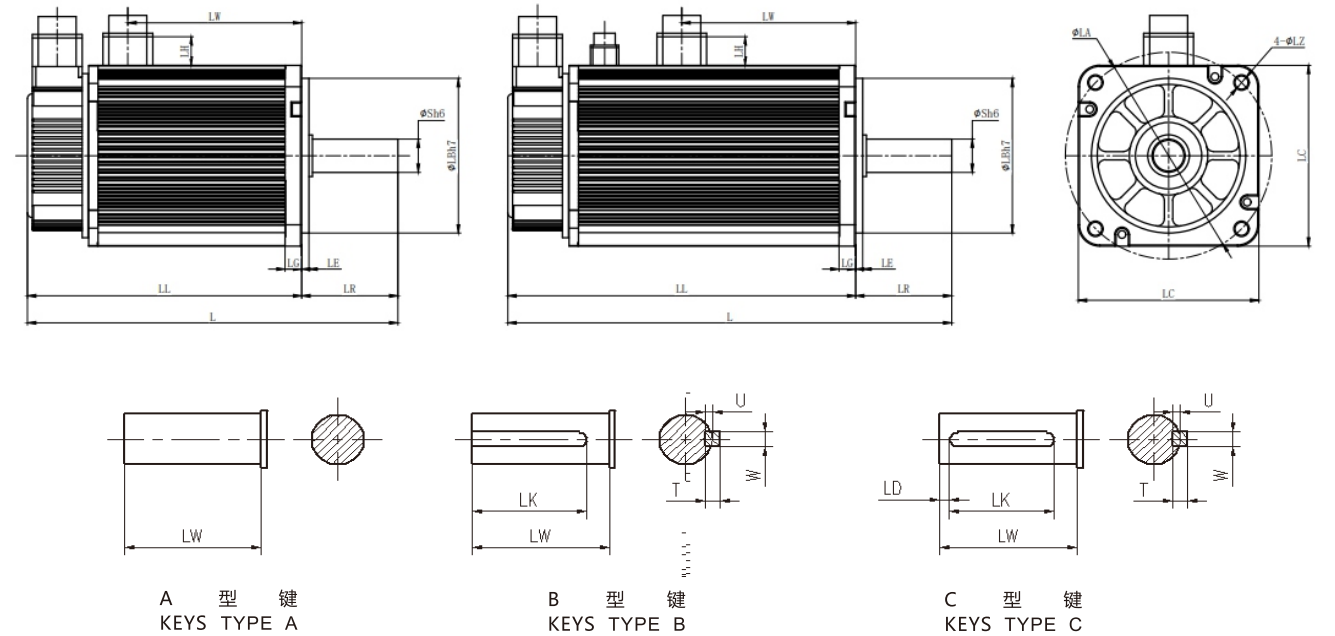
□编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图

DIMENSIONAL DRAWING



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	LM	LH	T	U	W	LW	LK	LD
150ST-M15025H□B	312 (374)	231 (293)	81	6	14	150	174	11	Φ28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	146	30	7	4	8	72	60(B型) 55(C型)	5
150ST-M18020H□B	331 (393)	250 (312)	81	6	14	150	174	11	Φ28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	166	30	7	4	8	72	60(B型) 55(C型)	5
150ST-M23020H□B	361 (423)	280 (342)	81	6	14	150	174	11	Φ28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	196	30	7	4	8	72	60(B型) 55(C型)	5
150ST-M27020H□B	387 (449)	306 (368)	81	6	14	150	174	11	Φ28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	222	30	7	4	8	72	60(B型) 55(C型)	5

特点FEATURES

- 机座 (mm) : 150

FRAME SIZE

额定转速(rpm) : 1500、2000

RATED SPEED

失电制动器 : 选配

ELECTRIC LOSS BRAKE

绝缘等级 : B

INSULATION GRADE

安装方式 : 法兰盘

INSTALLATION METHOD

环境温度 : 0~55℃

ENVIRONMENT TEMPERATURE
- 额定转矩 (Nm) : 14.3~28.7

RATED TORQUE

最高转速 (rpm) : 3000

MAXIMUM SPEED

额定功率(Kw) : 2.3~5.5

RATED POWER

极对数 : 4

POLES

防护等级 : 密封自冷式IP65

PROTECTION CLASS

适配驱动器工作电压 (VAC) : 380

MATCHED DRIVER

环境湿度 : < 90% (无结露)

ENVIRONMENT HUMIDITY

HBB系列伺服电机命名规则HBB PRODUCTS CODE SPECIFICATION

150	ST	-	M	048	20	H	M	B	B	Z	/C
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
(1) 机座号 FRAME SIZE				(2) 交流永磁同步伺服电机 AC PERMANENT MAGNET				(3) 反馈元件类型 FEEDBACK COMPONENTS TYPE			
(4) 额定转矩 : 三位数 × 0.1Nm RATED TORQUE : THE THREE-DIGIT NUMBER×0.1NM				(5) 额定转速 : 两位数×100rpm RATED SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM				(6) 驱动器工作电压 (VAC) : 380 DRIVER WORKING VOLTAGE CODE			
(7) 编码器代码 ENCODER CODE				(8) 中惯量 MEDIUM INERTIA				(9) 具有最高转速特性 MAXIMUM SPEED FEATURES			
(10) 安装了失电制动器 WITH THE POWER-OFF BRAKE				(11) 轴伸端键槽代码 , 无键无代码 THE SHAFT END KEYWAY CODE, NO CODE MEANS NO KEY							

HBB系列一览表HBB SERIES LIST

电机型号 MOTOR TYPE	主要参数 TECHNICAL PARAMETERS				
	额定转矩 RATED TORQUE	额定转速 RATED SPEED	最高转速 MAXIMUMSPEED	额定电流 RATED CURRENT	额定功率 RATED POWER
150ST-M14615H□BB	14.6 Nm	1500 rpm	3000 rpm	9.0 A	2.3 Kw
150ST-M19115H□BB	19.1 Nm	1500 rpm	3000 rpm	12.0 A	3.0 Kw
150ST-M22315H□BB	22.3 Nm	1500 rpm	3000 rpm	13.0 A	3.5 Kw
150ST-M28715H□BB	28.7 Nm	1500 rpm	3000 rpm	17.0 A	4.5 Kw
150ST-M14320H□BB	14.3 Nm	2000 rpm	3000 rpm	9.0 A	3.0 Kw
150ST-M23920H□BB	23.9 Nm	2000 rpm	3000 rpm	14.0 A	5.0 Kw
150ST-M26320H□BB	26.3 Nm	2000 rpm	3000 rpm	15.5 A	5.5 Kw

□编码器代码
Encodercode

● 150机座 (1500rpm/3000rpm)

FRAME

电机型号 MOTOR TYPE	150ST-M14615H□BB	150ST-M19115H□BB	150ST-M22315H□BB	150ST-M28715H□BB
额定功率 RATED POWER	2.3 Kw	3.0 Kw	3.5 Kw	4.5 Kw
额定转矩 RATED TORQUE	14.6 Nm	19.1 Nm	22.3 Nm	28.7 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	9.0 A	12.0 A	13.0 A	17.0 A
转子惯量 ROTOR INERTIA	4.609 Kg ^m ² ×10 ⁻³ (5.209 Kg ^m ² ×10 ⁻³)	6.222 Kg ^m ² ×10 ⁻³ (6.822 Kg ^m ² ×10 ⁻³)	8.345 Kg ^m ² ×10 ⁻³ (8.945 Kg ^m ² ×10 ⁻³)	9.871 Kg ^m ² ×10 ⁻³ (10.471 Kg ^m ² ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	2.171 ms	1.989 ms	1.975 ms	1.798 ms
最大转矩 MAX TORQUE	43.8 Nm	57.3 Nm	66.9 Nm	86.1 Nm

● 150机座 (2000rpm/3000rpm)

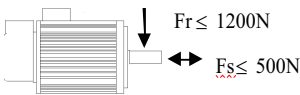
FRAME

电机型号 MOTOR TYPE	150ST-M14320H□BB	150ST-M23920H□BB	150ST-M26320H□BB
额定功率 RATED POWER	3.0 Kw	5.0 Kw	5.5 Kw
额定转矩 RATED TORQUE	14.3 Nm	23.9 Nm	26.3 Nm
额定转速 RATED SPEED	2000 rpm	2000 rpm	2000 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	9.0 A	14.0 A	15.5 A
转子惯量 ROTOR INERTIA	4.609 Kg ^m ² ×10 ⁻³ (5.209 Kg ^m ² ×10 ⁻³)	8.345 Kg ^m ² ×10 ⁻³ (8.945 Kg ^m ² ×10 ⁻³)	9.871 Kg ^m ² ×10 ⁻³ (10.471 Kg ^m ² ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	2.223 ms	2.028 ms	1.810 ms
最大转矩 MAX TORQUE	42.9 Nm	71.7 Nm	78.9 Nm

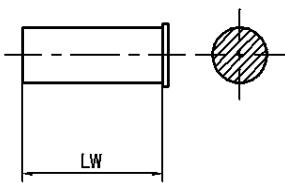
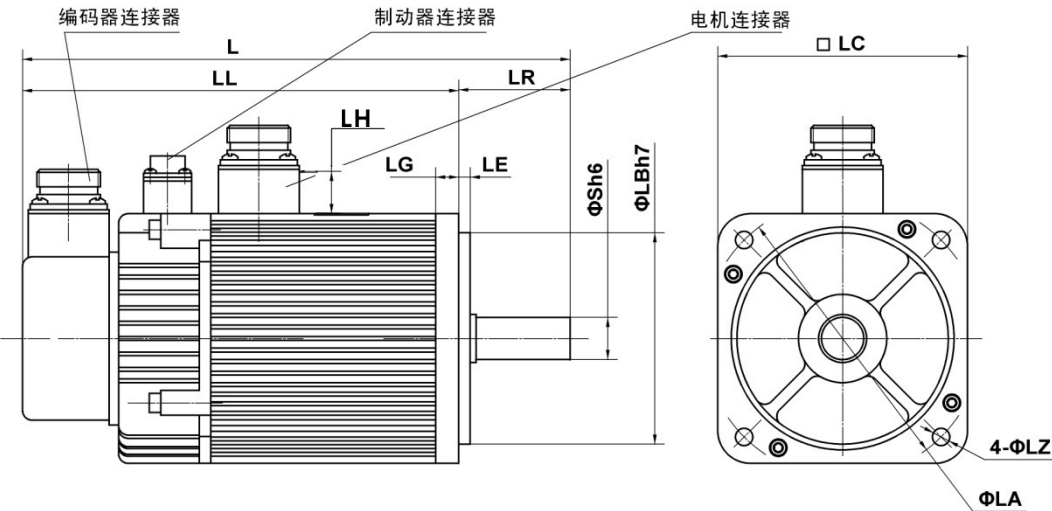
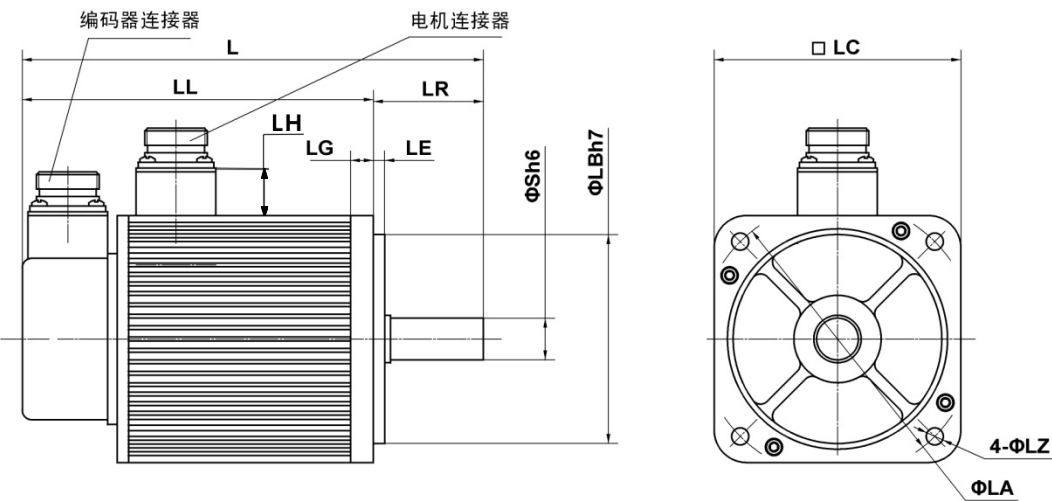
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

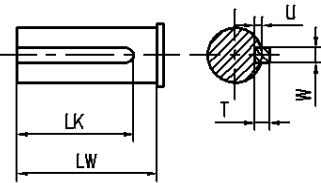
最大径、轴向力：
Max diameter/axial force



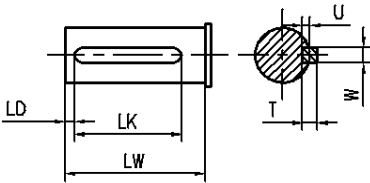
● 安装尺寸



A 型 键
KEYS TYPE A



B 型 键
KEYS TYPE B



C 型 键
KEYS TYPE C

型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK	LW	LD	LH
150ST-M14615H□BB 150ST-M14320H□BB	312 (374)	231 (293)	81	6	14	150	174	11	28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	7	4	8	40	60	5	30
150ST-M19115H□BB	331 (393)	250 (312)	81	6	14	150	174	11	28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	7	4	8	40	60	5	30
150ST-M22315H□BB 150ST-M23920H□BB	361 (423)	280 (342)	81	6	14	150	174	11	28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	7	4	8	40	60	5	30
150ST-M28715H□BB 150ST-M26320H□BB	387 (449)	306 (368)	81	6	14	150	174	11	28 ⁰ _{-0.013}	130 ⁰ _{-0.04}	7	4	8	40	60	5	30

注：括号内的数值为带失电制动器的电机长度。
Attention：Rotor moment of inertia with power-off brake in brackets.

特点
FEATURES

机座 (mm) : 110、130、180
FRAME SIZE
额定转速(rpm) : 1500、2000、3000
RATED SPEED
失电制动器 : 选配
ELECTRIC LOSS BRAKE
绝缘等级 : F
INSULATION GRADE
安装方式 : 法兰盘
INSTALLATION METHOD
环境温度 : 0~55℃
ENVIRONMENT TEMPERATURE

额定转矩 (Nm) : 4.2~55
RATED TORQUE
最高转速 (rpm) : 2000、3000、4000
MAXIMUM SPEED
额定功率(Kw) : 0.65~8.6
RATED POWER
极对数 : 5
POLES
防护等级 : 密封自冷式IP67
PROTECTION CLASS
适配驱动器工作电压 (VAC) : 380
MATCHED DRIVER
环境湿度 : < 90% (无结露)
ENVIRONMENT HUMIDITY

HDD系列伺服电机命名规则
HDD PRODUCTS CODE SPECIFICATION

110	ST	-	M	042	15	30	H	M1	D	D	Z	/C
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)

- (1) 机座号
FRAME SIZE

(4) 额定转矩 : 三位数 × 0.1Nm
RATED TORQUE : THE THREE-DIGIT NUMBER×0.1NM

(7) 驱动器工作电压 (VAC) : 380
DRIVER WORKING VOLTAGE CODE

(10) 具有最高转速特性
MAXIMUM SPEED FEATURES
- (2) 交流永磁同步伺服电机
AC PERMANENT MAGNET

(5) 额定转速 : 二位数×100rpm
RATED SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM

(8) 编码器代码
ENCODER CODE

(11) 安装了失电制动器
WITH THE POWER-OFF BRAKE
- (3) 反馈元件类型
FEEDBACK COMPONENTS TYPE

(6) 最高转速 : 二位数×100rpm
MAXIMUM SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM

(9) 产品系列
PRODUCT SERIES

(12) 轴伸端键槽代码, 无键无代码
THE SHAFT END KEYWAY CODE, NO CODE MEANS NO KEY

HDD系列一览表
H D D SERI ES LI ST

电机型号 MOTOR TYPE	主要参数 TECHNICAL PARAMETERS				
	额定转矩 RATED TORQUE	额定转速 RATED SPEED	最高转速 MAXIMUMSPEED	额定电流 RATED CURRENT	额定功率 RATED POWER
110ST-M0422030H□DD	4.2 Nm	2000 rpm	3000 rpm	2.8 A	0.88 Kw
110ST-M0423040H□DD	4.2 Nm	3000 rpm	4000 rpm	4.0 A	1.3 Kw
110ST-M0542030H□DD	5.4 Nm	2000 rpm	3000 rpm	3.5 A	1.1 Kw
110ST-M0543040H□DD	5.4 Nm	3000 rpm	4000 rpm	4.8 A	1.7 Kw
110ST-M0642030H□DD	6.4 Nm	2000 rpm	3000 rpm	4.0 A	1.3 Kw
110ST-M0642040H□DD	6.4 Nm	2000 rpm	4000 rpm	5.7 A	2.0 Kw
110ST-M0752030H□DD	7.5 Nm	2000 rpm	3000 rpm	4.8 A	1.6 Kw
130ST-M0421530H□DD	4.2 Nm	1500 rpm	3000 rpm	2.7 A	0.65 Kw
130ST-M0423040H□DD	4.2 Nm	3000 rpm	4000 rpm	3.5 A	1.3 Kw
130ST-M0541530H□DD	5.4 Nm	1500 rpm	3000 rpm	3.6 A	0.85 Kw
130ST-M0543040H□DD	5.4 Nm	3000 rpm	4000 rpm	5.0 A	1.7 Kw
130ST-M0641530H□DD	6.4 Nm	1500 rpm	3000 rpm	4.2 A	1.0 Kw
130ST-M0643040H□DD	6.4 Nm	3000 rpm	4000 rpm	5.8 A	2.0 Kw
130ST-M0751530H□DD	7.5 Nm	1500 rpm	3000 rpm	4.8 A	1.2 Kw
130ST-M0753040H□DD	7.5 Nm	3000 rpm	4000 rpm	6.6 A	2.4 Kw
130ST-M0841530H□DD	8.4 Nm	1500 rpm	3000 rpm	5.8 A	1.3 Kw
130ST-M0842040H□DD	8.4 Nm	2000 rpm	4000 rpm	7.2 A	1.8 Kw
130ST-M0961530H□DD	9.6 Nm	1500 rpm	3000 rpm	6.0 A	1.5 Kw
130ST-M0962040H□DD	9.6 Nm	2000 rpm	4000 rpm	9.0 A	2.0 Kw
130ST-M1151530H□DD	11.5 Nm	1500 rpm	3000 rpm	7.0 A	1.8 Kw
130ST-M1152040H□DD	11.5 Nm	2000 rpm	4000 rpm	11.0 A	2.4Kw
130ST-M1461530H□DD	14.6 Nm	1500 rpm	3000 rpm	9.0 A	2.3 Kw
130ST-M1462040H□DD	14.6 Nm	2000 rpm	4000 rpm	13.2 A	3.1 Kw
130ST-M1781520H□DD	17.8 Nm	1500 rpm	2000 rpm	8.0 A	2.8 Kw
180ST-M1861530H□DD	18.6Nm	1500 rpm	3000 rpm	11 A	2.9Kw
180ST-M1862040H□DD	18.6Nm	2000 rpm	4000 rpm	14.2A	3.7Kw
180ST-M2301530H□DD	23.0 Nm	1500 rpm	3000 rpm	13.3 A	3.6 Kw
180ST-M2302040H□DD	23.0 Nm	2000 rpm	4000 rpm	18.5A	4.8 Kw
180ST-M2801530H□DD	28.0 Nm	1500 rpm	3000 rpm	16.5 A	4.4 Kw
180ST-M2802040H□DD	28.0 Nm	2000 rpm	4000 rpm	22 A	5.9 Kw
180ST-M3501530H□DD	35.0 Nm	1500 rpm	3000 rpm	20.5 A	5.5 Kw
180ST-M4801530H□DD	48.0 Nm	1500 rpm	3000 rpm	27.0 A	7.5 Kw
180ST-M5501530H□DD	55.0 Nm	1500 rpm	3000 rpm	31.0 A	8.6 Kw

□编码器代码
Encodercode

● 110 机座 (2000rpm/3000rpm)

FRAME

电机型号 MOTOR TYPE	110ST-M0422030H□DD	110ST-M0542030H□DD	110ST-M0642030H□DD	110ST-M0752030H□DD
额定功率 RATED POWER	0.88 Kw	1.1 Kw	1.3 Kw	1.6 Kw
额定转矩 RATED TORQUE	4.2 Nm	5.4 Nm	6.4 Nm	7.5 Nm
额定转速 RATED SPEED	2000 rpm	2000 rpm	2000 rpm	2000 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	2.8 A	3.5 A	4.0 A	4.8 A
转子惯量 ROTOR INERTIA	0.787 Kg $\text{m}^2\times 10^{-3}$ (0.851Kg $\text{m}^2\times 10^{-3}$)	0.916 Kg $\text{m}^2\times 10^{-3}$ (0.98 Kg $\text{m}^2\times 10^{-3}$)	1.061 Kg $\text{m}^2\times 10^{-3}$ (1.125 Kg $\text{m}^2\times 10^{-3}$)	1.238 Kg $\text{m}^2\times 10^{-3}$ (1.302 Kg $\text{m}^2\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.40ms	1.82 ms	1.60 ms	1.38 ms
最大转矩 MAX TORQUE	12.6 Nm	16.2 Nm	19.2 Nm	22.5 Nm

● 110 机座 (3000rpm/4000rpm)

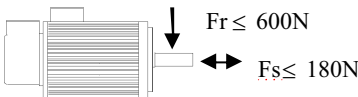
FRAME

电机型号 MOTOR TYPE	110ST-M0423040H□DD	110ST-M0543040H□DD	110ST-M0642040H□DD
额定功率 RATED POWER	1.3 Kw	1.7 Kw	1.3 Kw
额定转矩 RATED TORQUE	4.2 Nm	5.4 Nm	6.4 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm	2000 rpm
最高转速 MAXIMUM SPEED	4000 rpm	4000 rpm	4000 rpm
额定电流 RATED CURRENT	4.0 A	4.8 A	5.7A
转子惯量 ROTOR INERTIA	0.787 Kg $\text{m}^2\times 10^{-3}$ (0.851Kg $\text{m}^2\times 10^{-3}$)	0.916 Kg $\text{m}^2\times 10^{-3}$ (0.98 Kg $\text{m}^2\times 10^{-3}$)	1.061 Kg $\text{m}^2\times 10^{-3}$ (1.125 Kg $\text{m}^2\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.14ms	1.80 ms	1.74 ms
最大转矩 MAX TORQUE	12.6 Nm	16.2 Nm	19.2 Nm

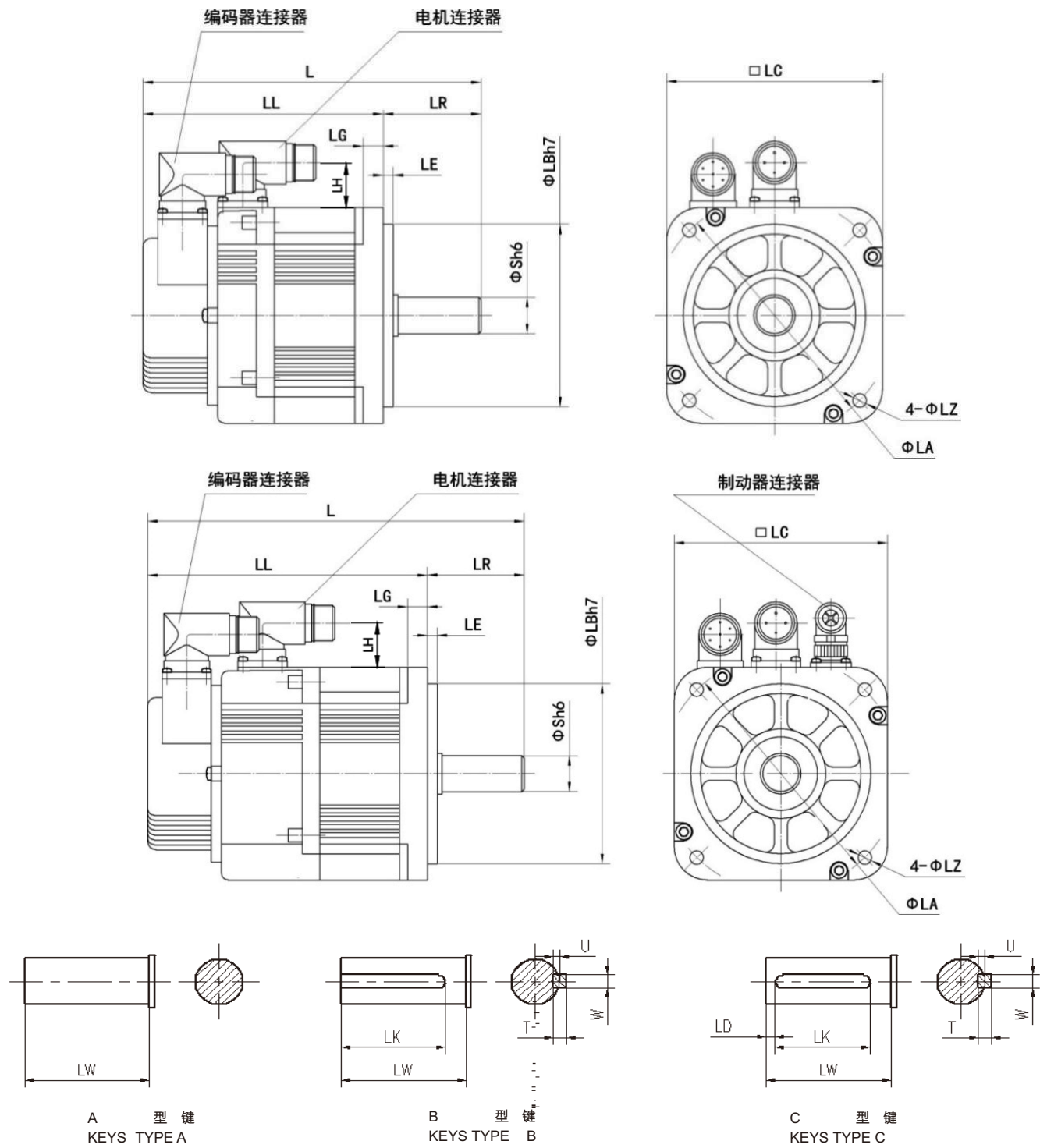
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 安装尺寸



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK	LW	LD	LH
110ST-M0422030H□DD 110ST-M0423040H□DD	209 (245)	153 (189)	56	5	12	110	130	9	19 ⁰ _{-0.013}	95 ⁰ _{-0.04}	6	3.5	6	40	48	3	45
110ST-M0542030H□DD 110ST-M0543040H□DD	219 (255)	163 (199)	56	5	12	110	130	9	19 ⁰ _{-0.013}	95 ⁰ _{-0.04}	6	3.5	6	40	48	3	45
110ST-M0642030H□DD 110ST-M0642040H□DD	229 (265)	173 (209)	56	5	12	110	130	9	19 ⁰ _{-0.013}	95 ⁰ _{-0.04}	6	3.5	6	40	48	3	45
110ST-M0752030H□DD	240 (276)	184 (220)	56	5	12	110	130	9	19 ⁰ _{-0.013}	95 ⁰ _{-0.04}	6	3.5	6	40	48	3	45

注：括号内的数值为带失电制动器的电机长度。
Attention：Rotor moment of inertia with power-off brake in brackets.

● 130 机座 (1500rpm/3000rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M1151530H□DD	130ST-M1461530H□DD
额定功率 RATED POWER	1.8 Kw	2.3 Kw
额定转矩 RATED TORQUE	11.5 Nm	14.6 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm
额定电流 RATED CURRENT	7.0 A	9.0 A
转子惯量 ROTOR INERTIA	3.015 Kg ^{m²} ×10 ⁻³ (3.182 Kg ^{m²} ×10 ⁻³)	4.070 Kg ^{m²} ×10 ⁻³ (4.237 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	2.224 ms	1.54 ms
最大转矩 MAX TORQUE	34.5 Nm	43.8 Nm

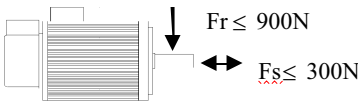
● 130 机座 (1500rpm/2000rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M1781520H□DD
额定功率 RATED POWER	2.8 Kw
额定转矩 RATED TORQUE	17.8 Nm
额定转速 RATED SPEED	1500 rpm
最高转速 MAXIMUM SPEED	2000 rpm
额定电流 RATED CURRENT	8.0 A
转子惯量 ROTOR INERTIA	4.548 Kg ^{m²} ×10 ⁻³ (4.715 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.454ms
最大转矩 MAX TORQUE	53.4 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 130 机座 (1500rpm/3000rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M0421530H□DD	130ST-M0541530H□DD	130ST-M0641530H□DD
额定功率 RATED POWER	0.65 Kw	0.85 Kw	1.0 Kw
额定转矩 RATED TORQUE	4.2 Nm	5.4 Nm	6.4 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	2.7A	3.6 A	4.2 A
转子惯量 ROTOR INERTIA	1.163 Kgm ² ×10 ⁻³ (1.33 Kgm ² ×10 ⁻³)	1.388 Kgm ² ×10 ⁻³ (1.555 Kgm ² ×10 ⁻³)	1.604 Kgm ² ×10 ⁻³ (1.771 Kgm ² ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	2.82ms	2.63 ms	2.11 ms
最大转矩 MAX TORQUE	12.6 Nm	16.2 Nm	19.2 Nm

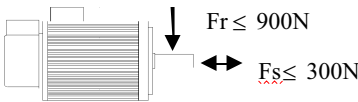
● 130 机座 (1500rpm/3000rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M0751530H□DD	130ST-M0841530H□DD	130ST-M0961530H□DD
额定功率 RATED POWER	1.2 Kw	1.3 Kw	1.5 Kw
额定转矩 RATED TORQUE	7.5 Nm	8.4 Nm	9.6 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	4.8 A	5.8 A	6.0 A
转子惯量 ROTOR INERTIA	1.857 Kgm ² ×10 ⁻³ (2.024 Kgm ² ×10 ⁻³)	2.059 Kgm ² ×10 ⁻³ (2.226 Kgm ² ×10 ⁻³)	2.369 Kgm ² ×10 ⁻³ (2.536 Kgm ² ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	2.12 ms	2.21 ms	1.93 ms
最大转矩 MAX TORQUE	22.5 Nm	25.2 Nm	28.8 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 130 机座 (3000rpm/4000rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M0423040H□DD	130ST-M0543040H□DD
额定功率 RATED POWER	1.3 Kw	1.7 Kw
额定转矩 RATED TORQUE	4.2 Nm	5.4 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm
最高转速 MAXIMUM SPEED	4000 rpm	4000 rpm
额定电流 RATED CURRENT	3.5 A	5.0 A
转子惯量 ROTOR INERTIA	1.163 Kg $\cdot$ m ² $\times 10^{-3}$ (1.33 Kg $\cdot$ m ² $\times 10^{-3}$)	1.388 Kg $\cdot$ m ² $\times 10^{-3}$ (1.555 Kg $\cdot$ m ² $\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.74 ms	3.13 ms
最大转矩 MAX TORQUE	12.6 Nm	16.2 Nm

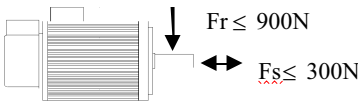
● 130 机座 (2000rpm/4000rpm、3000rpm/4000rpm)
FRAME

电机型号 MOTOR TYPE	130ST-M0643040H□DD	130ST-M0753040H□DD	130ST-M0842040H□DD
额定功率 RATED POWER	2.0 Kw	2.4 Kw	1.8 Kw
额定转矩 RATED TORQUE	6.4 Nm	7.5 Nm	8.4 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm	2000 rpm
最高转速 MAXIMUM SPEED	4000 rpm	4000 rpm	4000 rpm
额定电流 RATED CURRENT	5.8 A	6.6 A	7.2 A
转子惯量 ROTOR INERTIA	1.604 Kg $\cdot$ m ² $\times 10^{-3}$ (1.771 Kg $\cdot$ m ² $\times 10^{-3}$)	1.857 Kg $\cdot$ m ² $\times 10^{-3}$ (2.024 Kg $\cdot$ m ² $\times 10^{-3}$)	2.369 Kg $\cdot$ m ² $\times 10^{-3}$ (2.536 Kg $\cdot$ m ² $\times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.544 ms	2.41 ms	2.19 ms
最大转矩 MAX TORQUE	19.2 Nm	22.5 Nm	25.2 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 130 机座 (2000rpm/4000rpm)

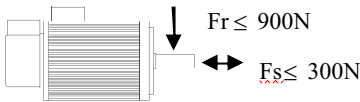
FRAME

电机型号 MOTOR TYPE	130ST-M0962040H□DD	130ST-M1152040H□DD	130ST-M1462040H□DD
额定功率 RATED POWER	2.0 Kw	2.4 Kw	3.1 Kw
额定转矩 RATED TORQUE	9.6 Nm	11.5 Nm	14.6 Nm
额定转速 RATED SPEED	2000 rpm	2000 rpm	2000 rpm
最高转速 MAXIMUM SPEED	4000 rpm	4000 rpm	4000 rpm
额定电流 RATED CURRENT	9.0 A	11.0 A	13.2 A
转子惯量 ROTOR INERTIA	3.015 Kg ^{m²} ×10 ⁻³ (3.182 Kg ^{m²} ×10 ⁻³)	4.070 Kg ^{m²} ×10 ⁻³ (4.237 Kg ^{m²} ×10 ⁻³)	4.548 Kg ^{m²} ×10 ⁻³ (4.715 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	2.11 ms	1.99 ms	1.65 ms
最大转矩 MAX TORQUE	28.8 Nm	34.5 Nm	43.8 Nm

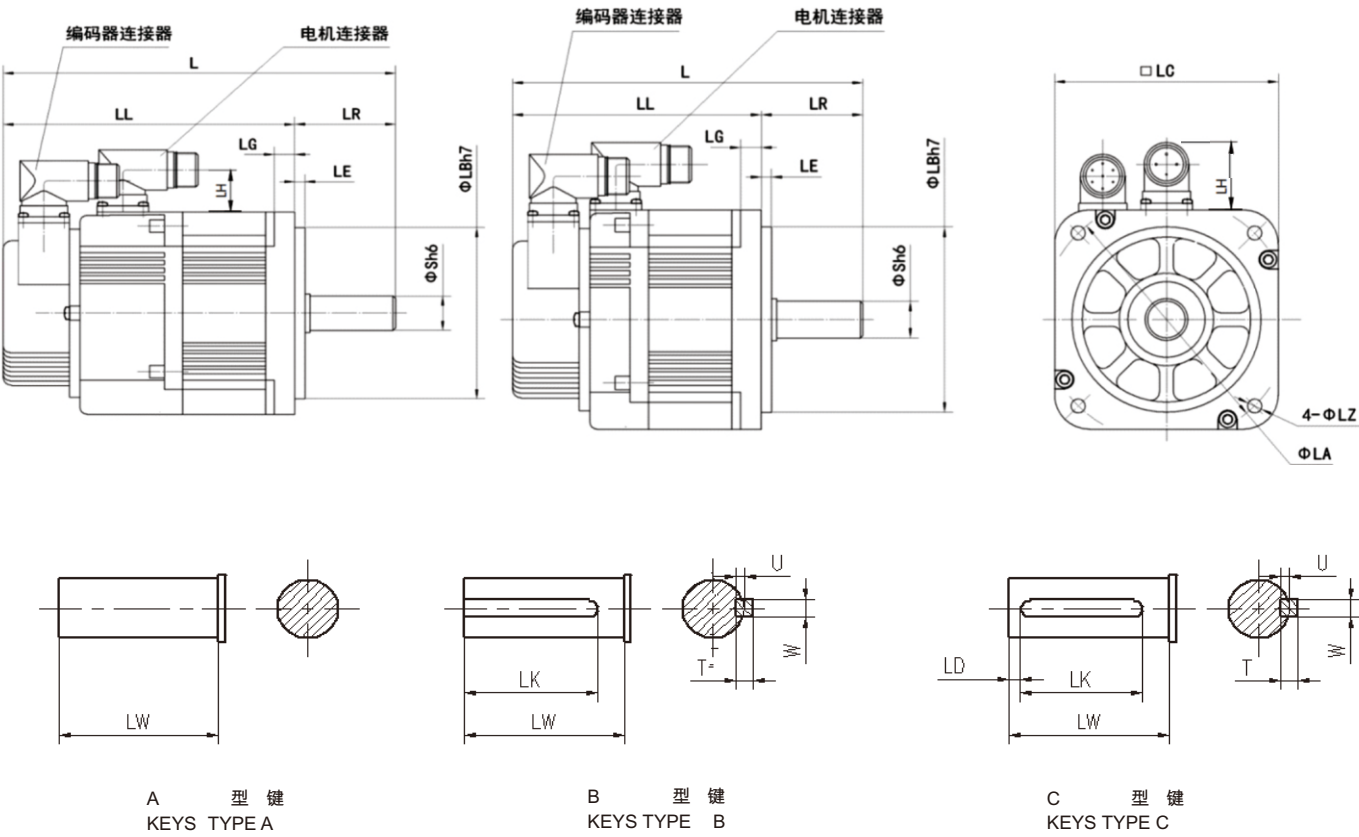
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



● 安装尺寸



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK	LW	LD	LH
130ST-M0421530H□DD 130ST-M0423040H□DD	198 (225)	139 (166)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0541530H□DD 130ST-M0543040H□DD	204 (231)	145 (172)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0641530H□DD 130ST-M0643040H□DD	211 (238)	152 (178)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0751530H□DD 130ST-M0753040H□DD	218 (245)	159 (186)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0841530H□DD 130ST-M0842040H□DD	224 (251)	165 (192)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M0961530H□DD 130ST-M0962040H□DD	232 (259)	173 (200)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M1151530H□DD 130ST-M1152040H□DD	251 (278)	192 (219)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M1461530H□DD 130ST-M1462040H□DD	283 (310)	224 (251)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45
130ST-M1781520H□DD	304 (331)	245 (272)	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5	45

注：括号内的数值为带失电制动器的电机长度。
Attention：Rotor moment of inertia with power-off brake in brackets.

● 180机座 (1500rpm/3000rpm)
FRAME

电机型号 MOTOR TYPE	180ST-M1861530H□DD	180ST-M2301530H□DD	180ST-M2801530H□DD
额定功率 RATED POWER	2.9 Kw	3.6 Kw	4.4 Kw
额定转矩 RATED TORQUE	18.6 Nm	23.0 Nm	28.0 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	11 A	13.3 A	16.5 A
转子惯量 ROTOR INERTIA	5 Kg ^m ² ×10 ⁻³ (5.6 Kg ^m ² ×10 ⁻³)	6.22 Kg ^m ² ×10 ⁻³ (6.82 Kg ^m ² ×10 ⁻³)	6.8 Kg ^m ² ×10 ⁻³ (7.4 Kg ^m ² ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.85ms	1.63 ms	1.18 ms
最大转矩 MAX TORQUE	55.8 Nm	69.0 Nm	84.0 Nm

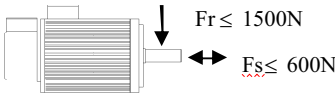
● 180机座 (1500rpm/3000rpm)
FRAME

电机型号 MOTOR TYPE	180ST-M3501530H□DD	180ST-M4801530H□DD	180ST-M5501530H□DD
额定功率 RATED POWER	5.5 Kw	7.5 Kw	8.6 Kw
额定转矩 RATED TORQUE	35.0 Nm	48.0 Nm	55.0 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	20.5 A	27.0 A	31.0 A
转子惯量 ROTOR INERTIA	9.53 Kg ^m ² ×10 ⁻³ (10.13 Kg ^m ² ×10 ⁻³)	12.58 Kg ^m ² ×10 ⁻³ (13.18 Kg ^m ² ×10 ⁻³)	14.41 Kg ^m ² ×10 ⁻³ (15.01 Kg ^m ² ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.28 ms	1.12 ms	1.19 ms
最大转矩 MAX TORQUE	105.0 Nm	144.0 Nm	165.0 Nm

括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



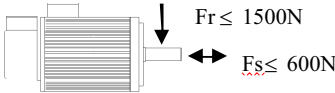
● 180机座 (2000rpm/4000rpm)
FRAME

电机型号 MOTOR TYPE	180ST-M1862040H□DD	180ST-M2302040H□DD	180ST-M2802040H□DD
额定功率 RATED POWER	3.7 Kw	4.8 Kw	5.9 Kw
额定转矩 RATED TORQUE	18.6 Nm	23.0 Nm	28.0 Nm
额定转速 RATED SPEED	2000 rpm	2000 rpm	2000 rpm
最高转速 MAXIMUM SPEED	4000 rpm	4000 rpm	4000 rpm
额定电流 RATED CURRENT	14.2 A	18.5 A	22 A
转子惯量 ROTOR INERTIA	5 Kg ^{m²} ×10 ⁻³ (5.6 Kg ^{m²} ×10 ⁻³)	6.22 Kg ^{m²} ×10 ⁻³ (6.82 Kg ^{m²} ×10 ⁻³)	6.8 Kg ^{m²} ×10 ⁻³ (7.4 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.88ms	1.4 ms	1.32 ms
最大转矩 MAX TORQUE	55.8 Nm	69.0 Nm	84.0 Nm

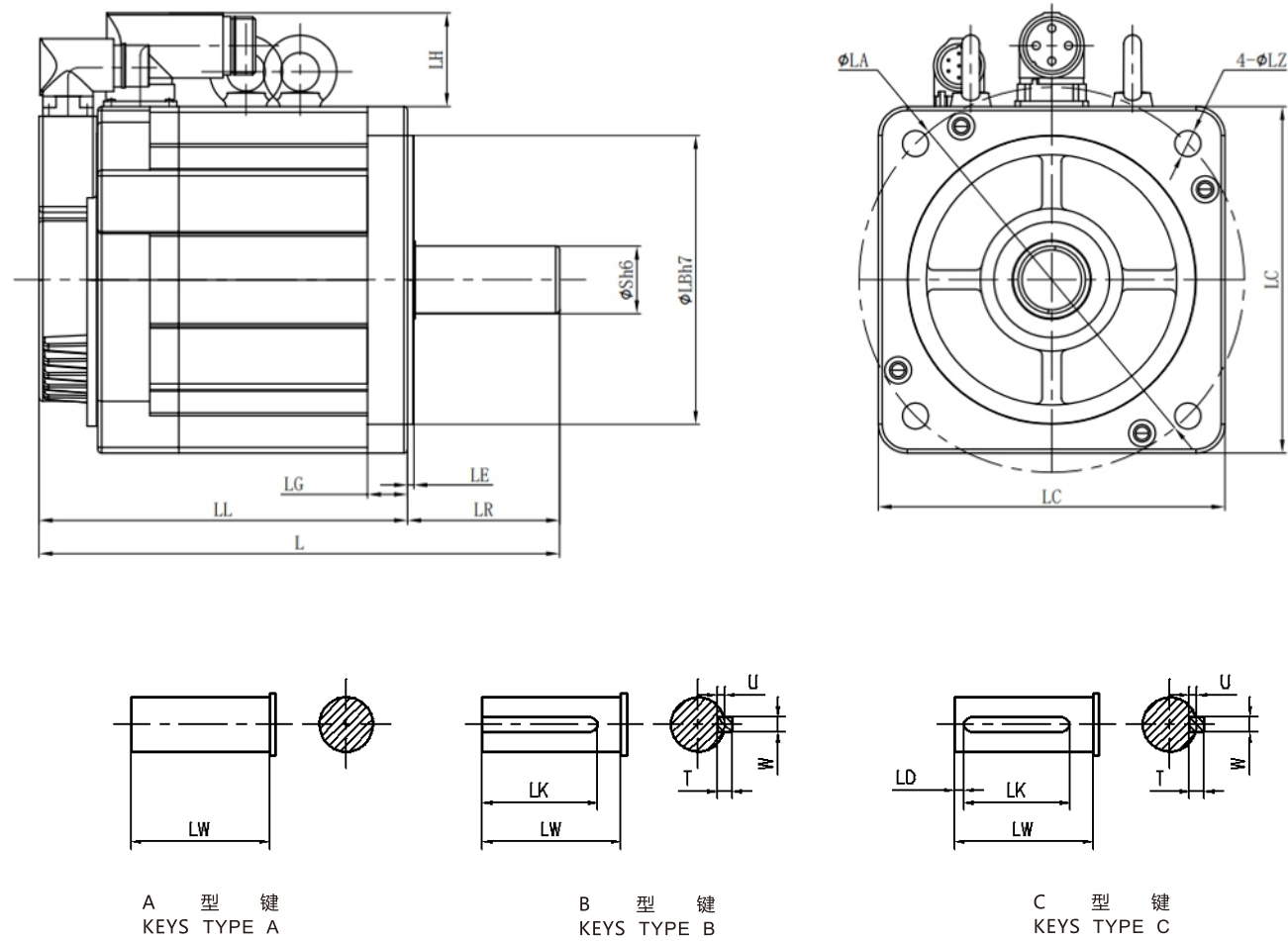
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 安装尺寸



型号	L	LL	LR	LE	LG	LC	LA	LZ	ϕS	LB	T	U	W	LK	LW	LD	LH
180ST-M1861530H□DD 180ST-M1862040H□DD	266 (316)	187 (237)	79	3.2	20.8	180	200	13.5	$35^{0}_{-0.013}$	$114.3^{0}_{-0.04}$	8	5	10	60	75	5	50
180ST-M2301530H□DD 180ST-M2302040H□DD	280 (330)	201 (251)	79	3.2	20.8	180	200	13.5	$35^{0}_{-0.013}$	$114.3^{0}_{-0.04}$	8	5	10	60	75	5	50
180ST-M2801530H□DD 180ST-M2802040H□DD	296 (346)	217 (267)	79	3.2	20.8	180	200	13.5	$35^{0}_{-0.013}$	$114.3^{0}_{-0.04}$	8	5	10	60	75	5	50
180ST-M3501530H□DD	317 (367)	238 (288)	79	3.2	20.8	180	200	13.5	$35^{0}_{-0.013}$	$114.3^{0}_{-0.04}$	8	5	10	60	75	5	50
180ST-M4801530H□DD	352 (402)	273 (323)	79	3.2	20.8	180	200	13.5	$35^{0}_{-0.013}$	$114.3^{0}_{-0.04}$	8	5	10	60	75	5	50
180ST-M5501530H□DD	372 (422)	293 (343)	79	3.2	20.8	180	200	13.5	$35^{0}_{-0.013}$	$114.3^{0}_{-0.04}$	8	5	10	60	75	5	50

注：括号内的数值为带失电制动器的电机长度。
Attention：Rotor moment of inertia with power-off brake in brackets.

LB尺寸可选配150 $^{0}_{-0.04}$ 大止口

特点
FEATURES

- 机座 (mm) : 80
FRAME SIZE

额定转速(rpm) : 3000
RATED SPEED

失电制动器 : 选配
ELECTRIC LOSS BRAKE

绝缘等级 : F
INSULATION GRADE

安装方式 : 法兰盘
INSTALLATION METHOD

环境温度 : 0~55°C
ENVIRONMENT TEMPERATURE
- 额定转矩 (Nm) : 1.3~4
RATED TORQUE

最高转速 (rpm) : 6000
MAXIMUM SPEED

额定功率(Kw) : 0.4~1.3
RATED POWER

极对数 : 5
POLES

防护等级 : 密封自冷式IP67
PROTECTION CLASS

适配驱动器工作电压 (VAC) : 380
MATCHED DRIVER

环境湿度 : < 90% (无结露)
ENVIRONMENT HUMIDITY

HEE系列伺服电机命名规则
HEE PRODUCTS CODE SPECIFICATION

80	ST	-	M	024	30	60	H	M1	E	E	Z	/C
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)

- (1) 机座号
FRAME SIZE

(4) 额定转矩 : 三位数 × 0.1Nm
RATED TORQUE : THE THREE-DIGIT NUMBER×0.1NM

(7) 驱动器工作电压 (VAC) : 380
DRIVER WORKING VOLTAGE CODE

(10) 具有最高转速特性
MAXIMUM SPEED FEATURES
- (2) 交流永磁同步伺服电机
AC PERMANENT MAGNET

(5) 额定转速 : 二位数×100rpm
RATED SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM

(8) 编码器代码
ENCODER CODE

(11) 安装了失电制动器
WITH THE POWER-OFF BRAKE
- (3) 反馈元件类型
FEEDBACK COMPONENTS TYPE

(6) 最高转速 : 二位数×100rpm
MAXIMUM SPEED : THE DOUBLE-DIGITAL NUMBER×100RPM

(9) 产品系列
PRODUCT SERIES

(12) 轴伸端键槽代码, 无键无代码
THE SHAFT END KEYWAY CODE, NO CODE MEANS NO KEY

HEE系列一览表

H EE SERI ES L I ST

电机型号 MOTOR TYPE	主要参数 TECHNICAL PARAMETERS				
	额定转矩 RATED TORQUE	额定转速 RATED SPEED	最高转速 MAXIMUMSPEED	额定电流 RATED CURRENT	额定功率 RATED POWER
80ST--M0133060H□EE	1.3 Nm	3000 rpm	6000 rpm	1.6 A	0.4 Kw
80ST-M0243060H□EE	2.4 Nm	3000 rpm	6000 rpm	2.7 A	0.75 Kw
80ST-M0333060H□EE	3.33 Nm	3000 rpm	6000 rpm	3.5 A	1.0 Kw
80ST-M0403060H□EE	4.0 Nm	3000 rpm	6000 rpm	4.4 A	1.3 Kw

□编码器代码
Encodercode

● 80机座 (3000rpm/6000rpm)
FRAME

电机型号 MOTOR TYPE	80ST-M0133060H□EE	80ST-M0243060H□EE
额定功率 RATED POWER	0.4 Kw	0.75 Kw
额定转矩 RATED TORQUE	1.3 Nm	2.4 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm
最高转速 MAXIMUM SPEED	6000 rpm	6000 rpm
额定电流 RATED CURRENT	1.6 A	2.7 A
转子惯量 ROTOR INERTIA	0.09Kgm ² ×10 ⁻³ (0.1Kgm ² ×10 ⁻³)	0.139×10 ⁻³ Kgm ² (0.15×10 ⁻³ Kgm ²)
机械时间常数 MECHANICAL CONSTANT TIME	2.51 ms	1.29 ms
最大转矩 MAX TORQUE	3.9 Nm	7.2 Nm

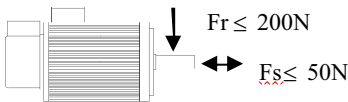
● 80机座 (3000rpm/6000rpm)
FRAME

电机型号 MOTOR TYPE	80ST-M0333060H□EE	80ST-M0403060H-EE
额定功率 RATED POWER	1.0 Kw	1.3 Kw
额定转矩 RATED TORQUE	3.33 Nm	4.0 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm
最高转速 MAXIMUM SPEED	6000 rpm	6000 rpm
额定电流 RATED CURRENT	3.5 A	4.4 A
转子惯量 ROTOR INERTIA	0.178Kgm ² ×10 ⁻³ (0.189Kgm ² ×10 ⁻³)	0.227Kgm ² ×10 ⁻³ (0.238Kgm ² ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.01 ms	0.99 ms
最大转矩 MAX TORQUE	10 Nm	12.0 Nm

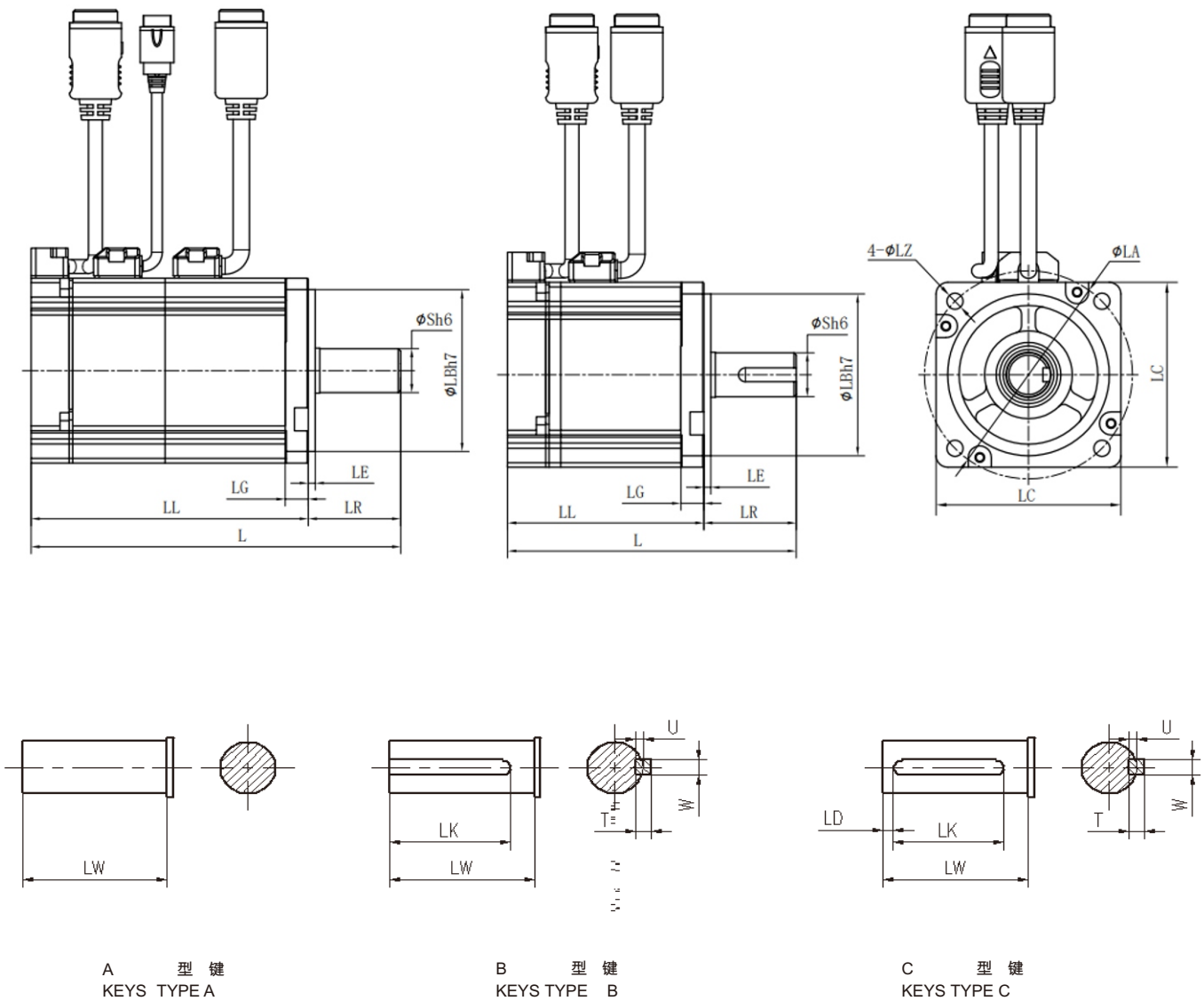
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encodercode

最大径、轴向力：
Max diameter/axial force



● 安装尺寸



型号	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK	LW	LD
80ST-M0133060H□EE	135 (170)	95 (130)	40	3	10	80	90	7	$19^{+0}_{-0.013}$	$70^{+0}_{-0.03}$	6	3.5	6	25	35	5
80ST-M0243060H□EE	154 (189)	114 (149)	40	3	10	80	90	7	$19^{+0}_{-0.013}$	$70^{+0}_{-0.03}$	6	3.5	6	25	35	5
80ST-M0333060H□EE	169 (204)	129 (164)	40	3	10	80	90	7	$19^{+0}_{-0.013}$	$70^{+0}_{-0.03}$	6	3.5	6	25	35	5
80ST-M0403060H□EE	181 (216)	141 (176)	40	3	10	80	90	7	$19^{+0}_{-0.013}$	$70^{+0}_{-0.03}$	6	3.5	6	25	35	5

注：括号内的数值为带失电制动器的电机长度。
Attention：Rotor moment of inertia with power-off brake in brackets.





定转子冲片生产线



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机加工生产线



电机总装生产线

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华信电机（苏州）有限公司

Huaxin Electric Machinery (Suzhou) Co., Ltd.

江苏省苏州市吴中区孙武路1026号

网址：www.dghxdwh.com