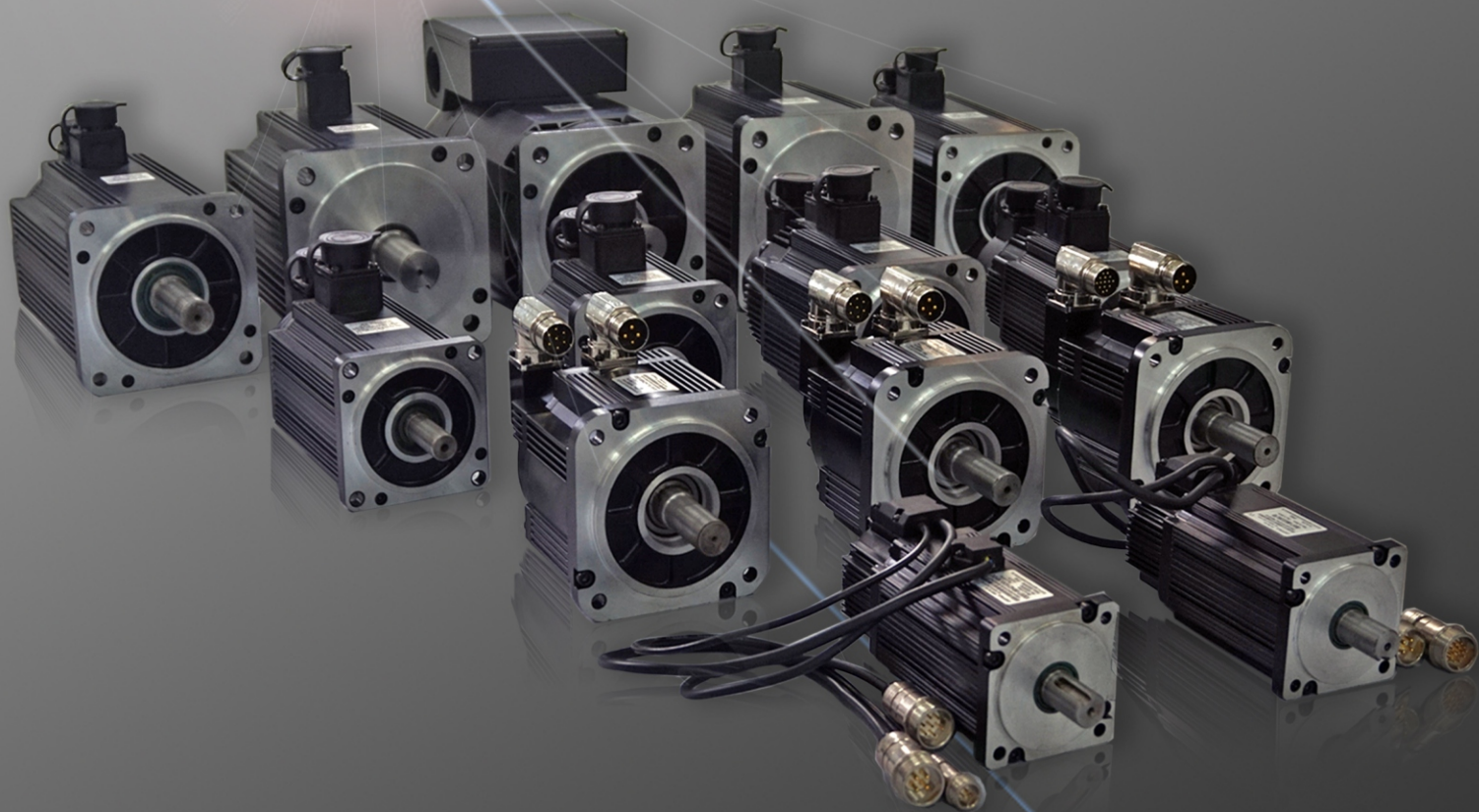


HXDWH

产品目录——

ST系列伺服电机 CTD系列车削电主轴



东莞市旭隆工控设备有限公司

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邮箱: xulonggk@yeah.net

[Http://www.acservomotor-xl.com](http://www.acservomotor-xl.com)

[Http://www.xulonggk.cn](http://www.xulonggk.cn)

QQ:34653256

微信号: 13925507910

销售咨询微信二维码



华大电机

ISO9001 : 2008



M13708102

LB伺服电机
LB SERVO MOTORS

机座号 (mm) : 80、110、130、150
FRAME SIZE
额定转矩 (Nm) : 1.3~27.0
RATED TORQUE
额定功率 (Kw) : 0.4~5.5
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

HB伺服电机
HB SERVO MOTORS

机座号 (mm) : 110、130、150、180
FRAME SIZE
额定转矩 (Nm) : 2.0~55.0
RATED TORQUE
额定功率 (Kw) : 0.6~8.6
RATED POWER
额定转速 (rpm) : 1500、2000、2500、3000
RATED SPEED
最高转速 (rpm) : /
MAX 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

HBBP伺服电机
HBBP SERVO MOTORS

机座号 (mm) : 180
FRAME SIZE
额定转矩 (Nm) : 27.0~70.0
RATED TORQUE
额定功率 (Kw) : 5.5~11.7
RATED POWER
额定转速 (rpm) : 1600、2000
RATED SPEED
最高转速 (rpm) : 2500
MAX 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

LDD伺服电机
LDD SERVO MOTORS

机座号 (mm) : 60、80、110、130
FRAME SIZE
额定转矩 (Nm) : 0.33~17.8
RATED TORQUE
额定功率 (Kw) : 0.1~3.1
RATED POWER
额定转速 (rpm) : 1500、2000、3000
RATED SPEED
最高转速 (rpm) : 2000、3000、5000、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

HBB伺服电机
HBB SERVO MOTORS

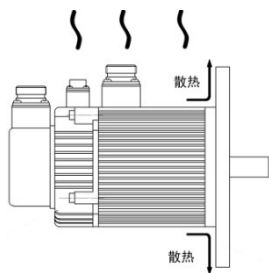
机座号 (mm) : 110、130、150、180
FRAME SIZE
额定转矩 (Nm) : 4.8~55.0
RATED TORQUE
额定功率 (Kw) : 0.85~8.6
RATED POWER
额定转速 (rpm) : 1500、2000
RATED SPEED
最高转速 (rpm) : 3000
MAXIMUM SPEED
极对数 : 4
POLES
转子惯量 : 中惯量
ROTOR INERTIA
反馈元件 : 可选
FEEDBACK
失电制动器 : 可配
POWER-OFF BRAKE
适配驱动器工作电压 (VAC) : 380
MATCHED DRIVER WORKING VOLTAGE CODE

CTD系列车削电主轴
CTD SERIES SPINDLE

套筒直径 (mm) : 150、180、200
SLEEVE DIAMETER
额定转矩 (Nm) : 7.0~52.5
RATED TORQUE
额定功率 (Kw) : 3.7、5.5、7.5、11
RATED POWER
额定转速 (rpm) : 2000、2500、3000
RATED SPEED
最高转速 (rpm) : 5000、6000、8000
MAXIMUM SPEED
过载倍速 : 150%
OVER LOAD
卡盘型式 : 液压
CHUCK TYPE
冷却方式 : 冷液
COOLING WAY
润滑方式 : 油脂
LUBRICATION WAY
轴承安装方式 : TBT/DB
BEARING INSTALLATION
适配驱动器工作电压 (VAC) : 380
MATCHED DRIVER WORKING VOLTAGE CODE

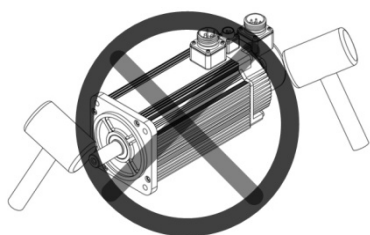
安装与连线

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。

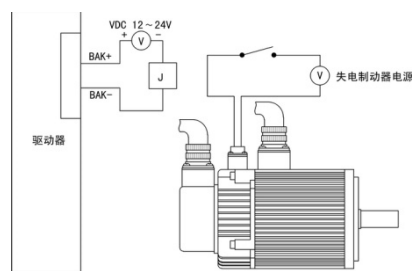
The servo motor operate with natural cooling, please mounting in enough size plate. It's normal that the motors generate some heat when in long-time working.



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。

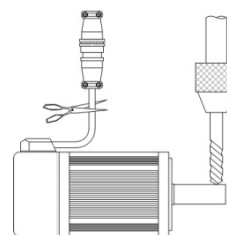
The motors have high-precision feedback components inside, please don't hit the shaft end and the rear. Pay attention to the limits of the maximum diameter and axial force about the shaft side.

INSTALLED & CONNECT



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。

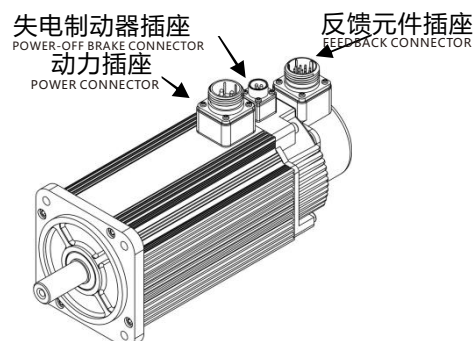
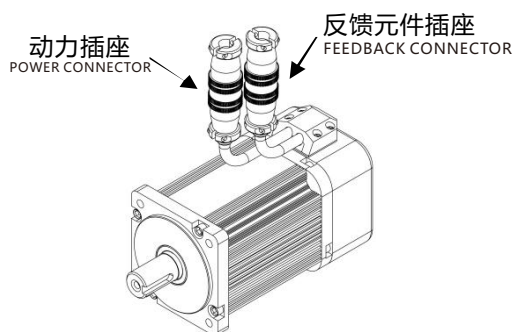
The power-off brake in the some motor must be controled by drivers, if not, it will cause the motor default.



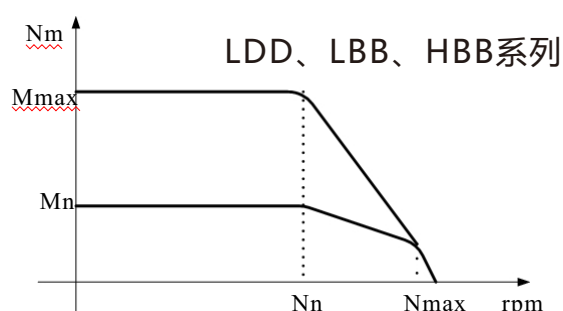
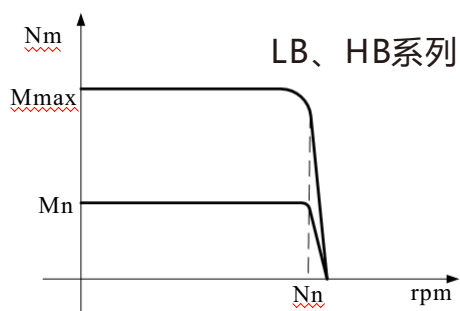
严禁随意更改、拆装及加工电机部件。请您将需求告之我们，我们来为您服务。

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

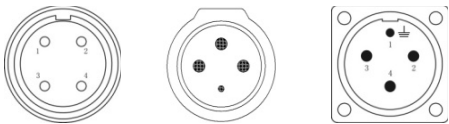


ST系列伺服电机的Mmax=3Mn；Mmax输出状态为短时工作。使用时请查询配置的驱动器输出容量。

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

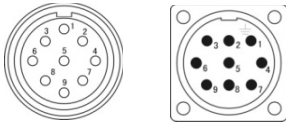
动力插座 (4P插座) : 60、80、110、130、150、180机座号
POWER SOCKET (4PIN)

绕组引线	U	V	W	
插头编号	2	3	4	1



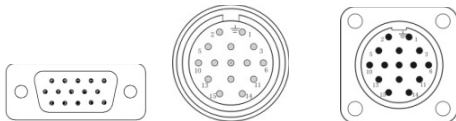
反馈元件插座: 省线增量式编码器 (代码F1, 9P插座/插头)
ENCODER SOCKET

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



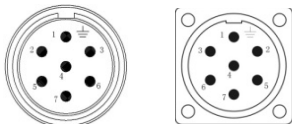
反馈元件插座: 非省线式增量编码器 (代码F、F5, 15 P, DB插座/插头)
ENCODER SOCKET

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



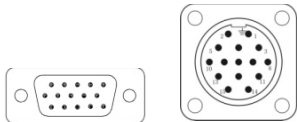
反馈元件插座: TAMAGAWA绝对式多圈编码器 (代码M、M1, 7P插座/插头)
ENCODER SOCKET

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



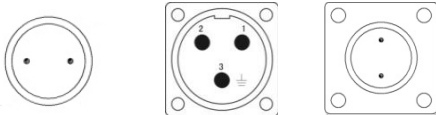
反馈元件插座: 旋转变压器 (代码X, 9P DB插头/插座)
ENCODER SOCKET

信号	R1	R2	S1	S3	S2	S4	空	空	
插头编号	2	3	4	5	6	7	8	9	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)
- X: 旋转变压器
ROTARY TRANSFORMER

LB系列伺服电机

LB SERIES SERVO MOTORS

特 点

FEATURES

- 机座 (mm) : 80、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) : 1.3~27

RATED TORQUE

额定功率(Kw): 0.4~5.5

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

110	ST	-	M	020	30	L	F	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) : 220 DRIVER WORKING VOLTAGE CODE		
(7) 编码器代码 ENCODER CODE			(8) 中惯量 MEDIUM INERTIA					(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										

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
80ST-M01330L□B	1.3 Nm	3000 rpm	2.6 A	0.4 Kw
80ST-M02430L□B	2.4 Nm	3000 rpm	4.2 A	0.75 Kw
80ST-M03330L□B	3.3 Nm	3000 rpm	4.2 A	1.0 Kw
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

● 80机座 (3000rpm)

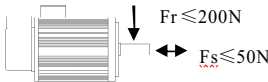
FRAME

电机型号 MOTOR TYPE	80ST-M01330LB	80ST-M02430LB	80ST-M03330LB
额定功率 RATED POWER	0.4 Kw	0.75 Kw	1.0 Kw
额定转矩 RATED TORQUE	13.0 Nm	2.4 Nm	3.3 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	2.6 A	4.2 A	4.2 A
转子惯量 ROTOR INERTIA	0.577×10 ⁻⁴ Kgm ² (0.637×10 ⁻⁴ Kgm ²)	0.934×10 ⁻⁴ Kgm ² (0.994×10 ⁻⁴ Kgm ²)	1.164×10 ⁻⁴ Kgm ² (1.724×10 ⁻⁴ Kgm ²)
机械时间常数 MECHANICAL CONSTANT TIME	1.286 ms	0.774 ms	0.611 ms
最大电流 MAX CURRENT	7.8 A	12.6 A	12.6 A
最大转矩 MAX TORQUE	3.9 Nm	7.2 Nm	9.9 Nm

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

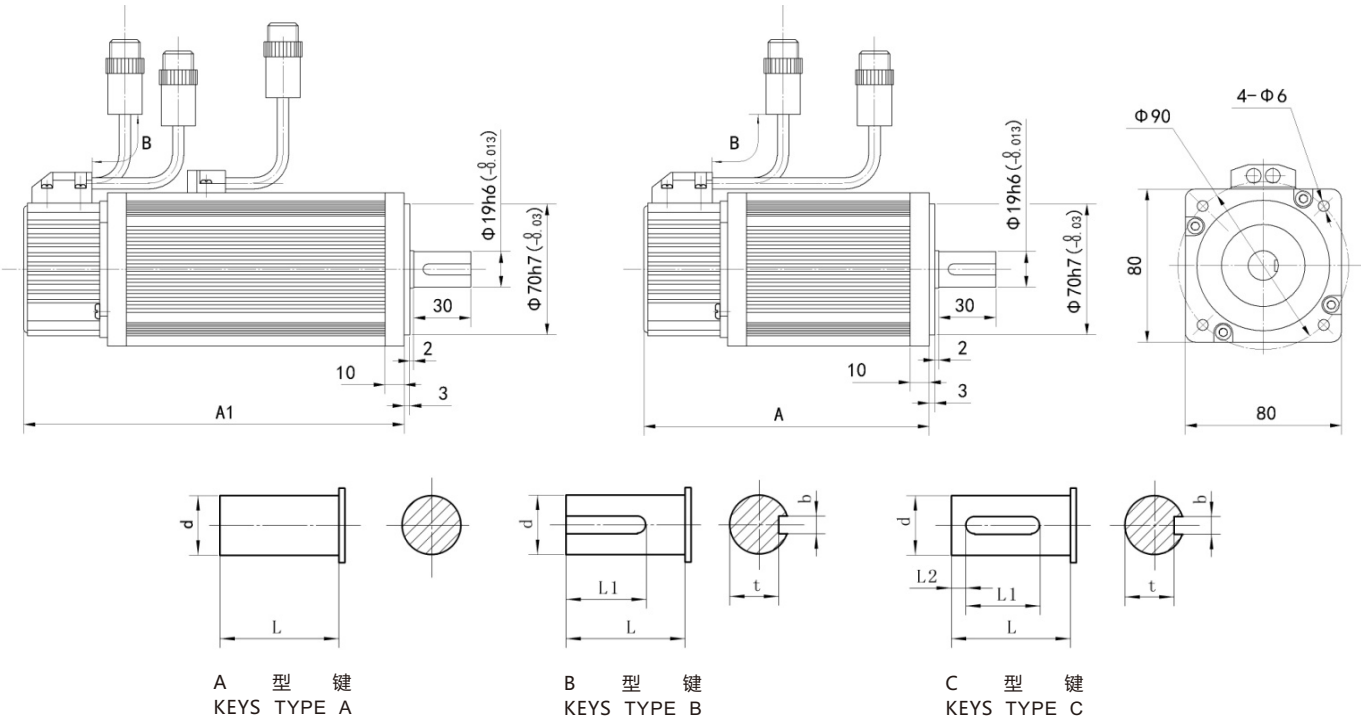
□ 编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图

DIMENSIONAL DRAWING



型号	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
80ST-M01330LB	129	171	500	30	25	2	Φ19 ⁰ _{-0.013}	6 ⁰ _{-0.03}	15.5 ⁰ _{-0.1}
80ST-M02430LB	151	193	500	30	25	2	Φ19 ⁰ _{-0.013}	6 ⁰ _{-0.03}	15.5 ⁰ _{-0.1}
80ST-M03330LB	165	208	500	30	25	2	Φ19 ⁰ _{-0.013}	6 ⁰ _{-0.03}	15.5 ⁰ _{-0.1}

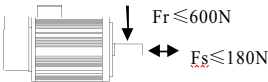
● 110机座 (3000rpm)
FRAME

电机型号 MOTOR TYPE	110ST-M02030L□B	110ST-M04030L□B	110ST-M05030L□B	110ST-M06020L□B	110ST-M06030L□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	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
最大电流 MAX CURRENT	12.0 A	15.0 A	18.0 A	18.0 A	24.0 A
最大转矩 MAX TORQUE	6.0 Nm	12.0 Nm	15.0 Nm	18.0 Nm	18.0 Nm

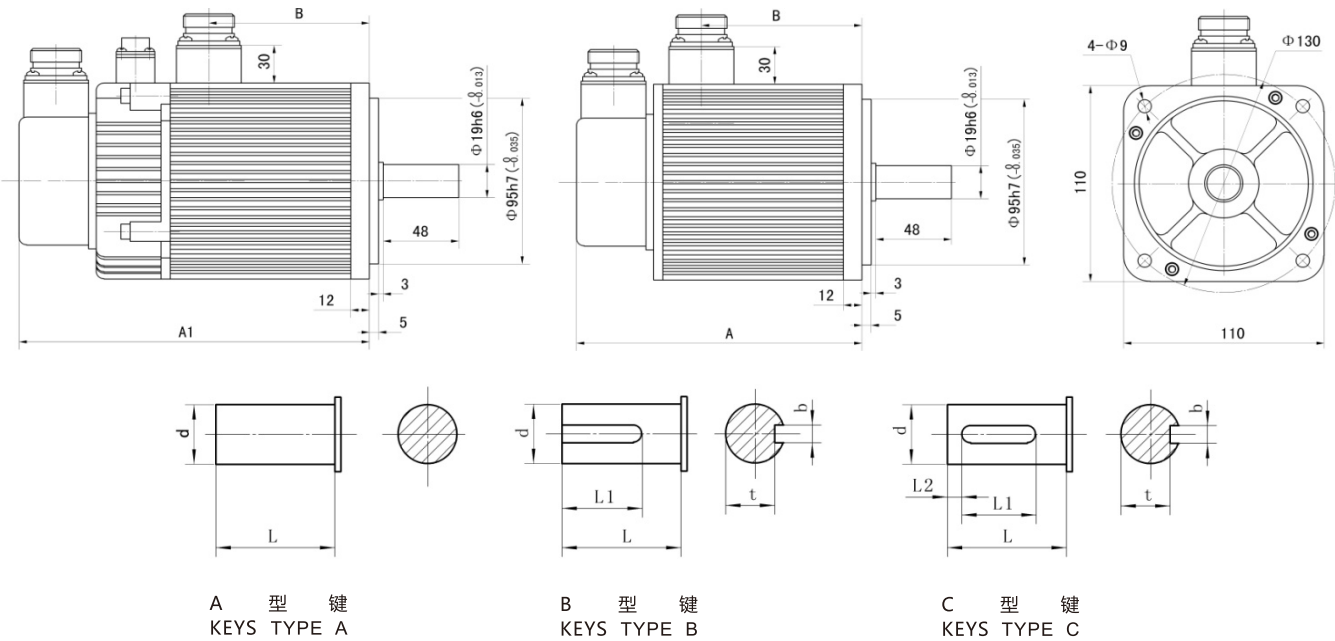
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□ 编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图
DIMENSIONAL DRAWING



型号	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
110ST-M02030L□B	158	200	76	48	40	3	Φ19 ⁰ _{-0.013}	6 ⁰ _{-0.03}	15.5 ⁰ _{-0.1}
110ST-M04030L□B	185	227	102	48	40	3	Φ19 ⁰ _{-0.013}	6 ⁰ _{-0.03}	15.5 ⁰ _{-0.1}
110ST-M05030L□B	200	242	118	48	40	3	Φ19 ⁰ _{-0.013}	6 ⁰ _{-0.03}	15.5 ⁰ _{-0.1}
110ST-M06020L□B 110ST-M06030L□B	217	259	134	48	40	3	Φ19 ⁰ _{-0.013}	6 ⁰ _{-0.03}	15.5 ⁰ _{-0.1}

● 130机座 (2500rpm)

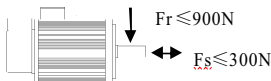
FRAME

电机型号 MOTOR TYPE	130ST-M04025LB	130ST-M05025LB	130ST-M06025LB
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	$1.04\times10^{-3}\text{ Kg}\cdot\text{m}^2$ ($1.207\times10^{-3}\text{ Kg}\cdot\text{m}^2$)	$1.337\times10^{-3}\text{ Kg}\cdot\text{m}^2$ ($1.504\times10^{-3}\text{ Kg}\cdot\text{m}^2$)	$1.556\times10^{-3}\text{ Kg}\cdot\text{m}^2$ ($1.723\times10^{-3}\text{ Kg}\cdot\text{m}^2$)
机械时间常数 MECHANICAL CONSTANT TIME	3.457 ms	3.478 ms	2.824 ms
最大电流 MAX CURRENT	12.0 A	15.0 A	18.0 A
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.

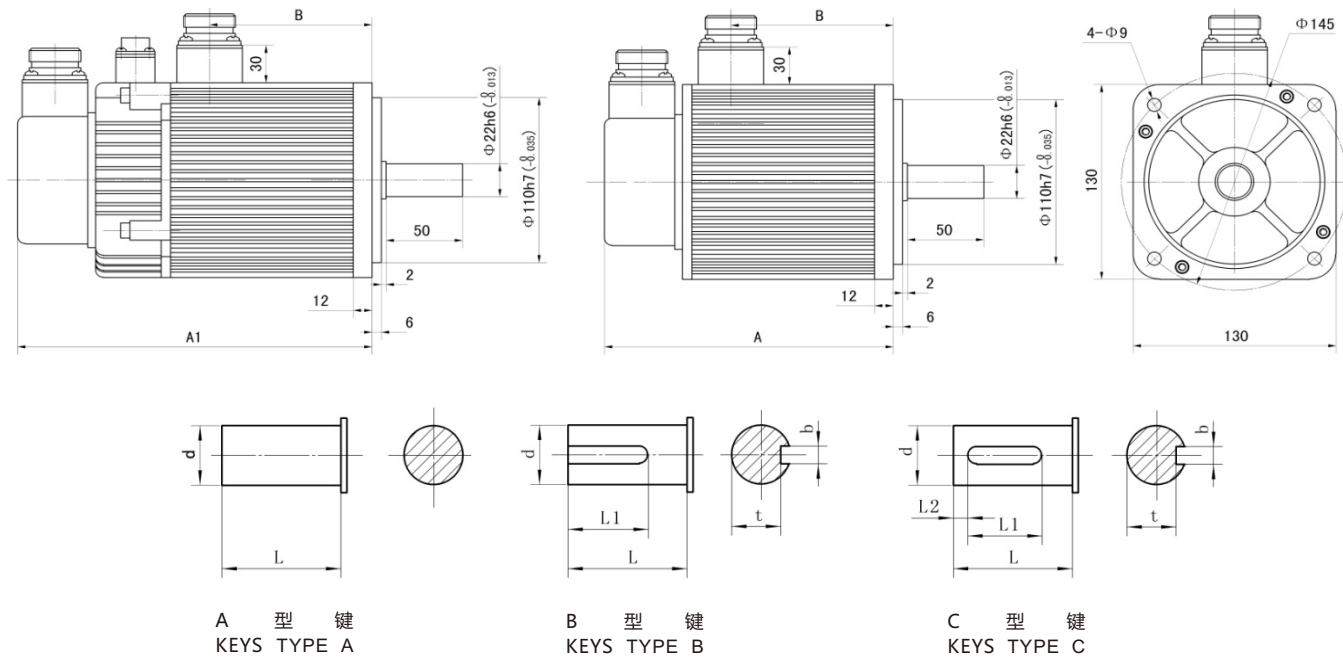
□ 编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图

DIMENSIONAL DRAWING



型号	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
130ST-M04025LB	163	205	80	50	40	5	$\Phi 22^{0}_{-0.013}$	$6^{0}_{-0.03}$	$18.5^{0}_{-0.1}$
130ST-M05025LB	171	213	89	50	40	5	$\Phi 22^{0}_{-0.013}$	$6^{0}_{-0.03}$	$18.5^{0}_{-0.1}$
130ST-M06025LB	181	223	98	50	40	5	$\Phi 22^{0}_{-0.013}$	$6^{0}_{-0.03}$	$18.5^{0}_{-0.1}$

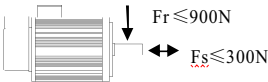
● 130机座 (1500rpm、2000rpm、2500rpm、3000rpm)
FRAME

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	$1.959 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.126 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$1.959 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.126 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$1.959 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.126 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$2.539 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.706 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)
机械时间常数 MECHANICAL CONSTANT TIME	2.356 ms	2.142 ms	2.262 ms	2.196 ms
最大电流 MAX CURRENT	18.0A	20.7A	27.0 A	18.0 A
最大转矩 MAX TORQUE	23.1 Nm	23.1 Nm	23.1 Nm	30.0 Nm

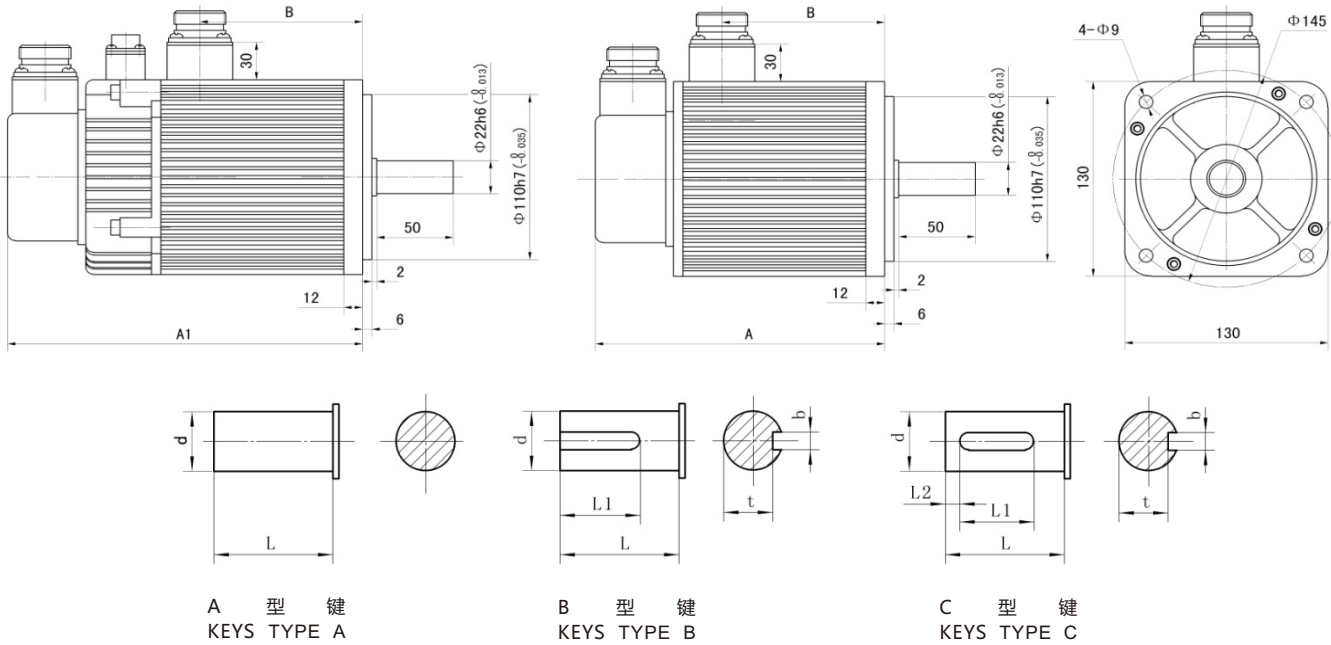
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□ 编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图
DIMENSIONAL DRAWING



型号	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
130ST-M07720L□B 130ST-M07725L□B 130ST-M07730L□B	195	237	112	50	40	5	$\Phi 22^{+0}_{-0.013}$	$6^{+0}_{-0.03}$	$18.5^{+0}_{-0.1}$
130ST-M10015L□B	219	261	136	50	40	5	$\Phi 22^{+0}_{-0.013}$	$6^{+0}_{-0.03}$	$18.5^{+0}_{-0.1}$

LB系列伺服电机

LB SERIES SERVO MOTORS

● 130机座（1500rpm、2500rpm）

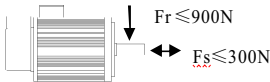
FRAME

电机型号 MOTOR TYPE	130ST-M10025LB	130ST-M15015LB	130ST-M15025LB
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 Kg·m ² (2.706×10 ⁻³ Kg·m ²)	2.914×10 ⁻³ Kg·m ² (3.081×10 ⁻³ Kg·m ²)	2.914×10 ⁻³ Kg·m ² (3.081×10 ⁻³ Kg·m ²)
机械时间常数 MECHANICAL CONSTANT TIME	1.996 ms	1.606 ms	1.146 ms
最大电流 MAX CURRENT	30.0 A	28.5 A	51.0 A
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.

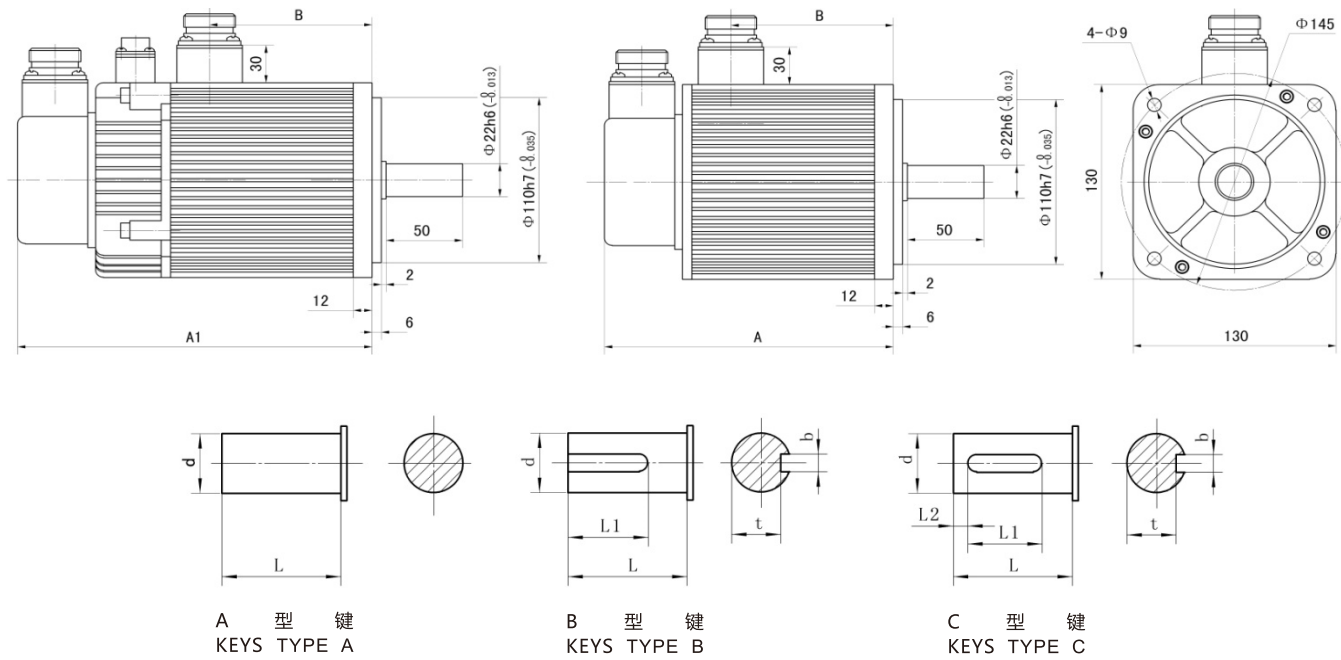
□ 编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图

DIMENSIONAL DRAWING



型号	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
130ST-M10025LB	219	261	136	50	40	5	Φ22 ⁰ _{-0.013}	6 ⁰ _{-0.03}	18.5 ⁰ _{-0.1}
130ST-M15015LB 130ST-M15025LB	267	309	184	50	40	5	Φ22 ⁰ _{-0.013}	6 ⁰ _{-0.03}	18.5 ⁰ _{-0.1}

LB系列伺服电机

LB SERIES SERVO MOTORS

● 150机座 (2000rpm、2500rpm)

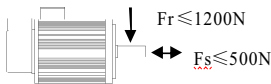
FRAME

电机型号 MOTOR TYPE	150ST-M15025LB	150ST-M18020LB	150ST-M23020LB	150ST-M27020LB
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
最大电流 MAX CURRENT	49.5A	49.5A	61.5 A	61.5 A
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.

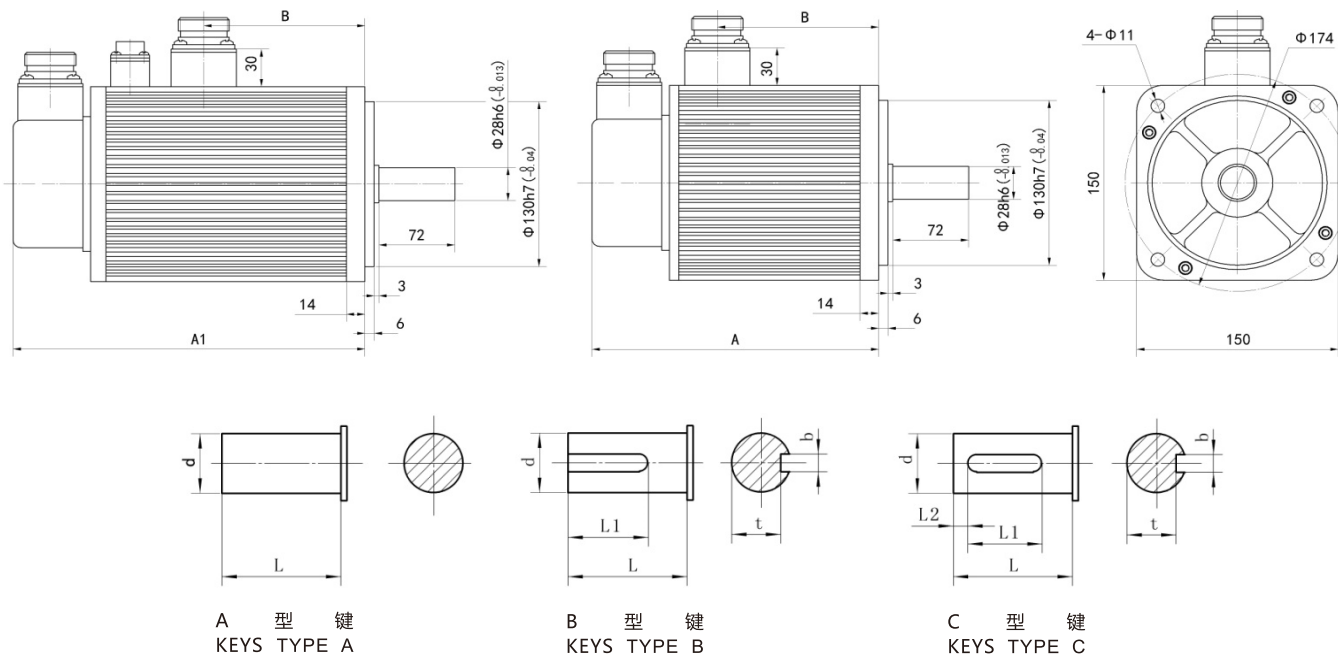
□ 编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图

DIMENSIONAL DRAWING



型号	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
150ST-M15025LB	231	293	146	72	60 (B型) 55 (C型)	5	Φ28 ⁰ _{-0.013}	8 ⁰ _{-0.03}	24 ⁰ _{-0.1}
150ST-M18020LB	250	312	166	72	60 (B型) 55 (C型)	5	Φ28 ⁰ _{-0.013}	8 ⁰ _{-0.03}	24 ⁰ _{-0.1}
150ST-M23020LB	280	342	196	72	60 (B型) 55 (C型)	5	Φ28 ⁰ _{-0.013}	8 ⁰ _{-0.03}	24 ⁰ _{-0.1}
150ST-M27020LB	306	368	222	72	60 (B型) 55 (C型)	5	Φ28 ⁰ _{-0.013}	8 ⁰ _{-0.03}	24 ⁰ _{-0.1}

特点
FEATURES

- 机座 (mm) : 60、80、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) : 0.33~17.8

RATED TORQUE

最高转速 (rpm) : 2000、3000、4000、5000、6000

MAXIMUM SPEED

额定功率(Kw): 0.1~3.1

RATED POWER

极对数: 5

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

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) 中惯量
MEDIUM INERTIA

(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 MAXIMUM SPEED	额定电流 RATED CURRENT	额定功率 RATED POWER
60ST-M0033060LDD	0.32 Nm	3000 rpm	6000 rpm	0.9 A	0.1 Kw
60ST-M0063060LDD	0.64 Nm	3000 rpm	6000 rpm	1.6 A	0.2 Kw
60ST-M0123060LDD	1.27 Nm	3000 rpm	6000 rpm	2.9 A	0.4 Kw
60ST-M0173060LDD	1.75 Nm	3000 rpm	6000 rpm	3.9 A	0.55 Kw
80ST-M0133050LDD	1.3 Nm	3000 rpm	5000 rpm	2.2 A	0.4 Kw
80ST-M0243050LDD	2.4 Nm	3000 rpm	5000 rpm	4.8 A	0.75 Kw
80ST-M0333050LDD	3.3 Nm	3000 rpm	5000 rpm	6.1 A	1.0 Kw
80ST-M0403050LDD	4.0 Nm	3000 rpm	5000 rpm	7.8 A	1.3 Kw
110ST-M0422030LDD	4.2 Nm	2000 rpm	3000 rpm	4.5 A	0.88 Kw
110ST-M0423040LDD	4.2 Nm	3000 rpm	4000 rpm	6.5 A	1.3 Kw
110ST-M0542030LDD	5.4 Nm	2000 rpm	3000 rpm	5.5 A	1.1 Kw
110ST-M0543040LDD	5.4 Nm	3000 rpm	4000 rpm	8.2 A	1.7 Kw
110ST-M0642030LDD	6.4 Nm	2000 rpm	3000 rpm	6.5 A	1.3 Kw
110ST-M0642540LDD	6.4 Nm	2500 rpm	4000 rpm	9.5 A	1.7 Kw
110ST-M0752030LDD	7.5 Nm	2000 rpm	3000 rpm	8.0 A	1.6 Kw
130ST-M0421530LDD	4.2 Nm	1500 rpm	3000 rpm	5.5 A	0.65 Kw
130ST-M0423040LDD	4.2 Nm	3000 rpm	4000 rpm	7.0 A	1.3 Kw
130ST-M0541530LDD	5.4 Nm	1500 rpm	3000 rpm	6.5 A	0.85 Kw
130ST-M0543040LDD	5.4 Nm	3000 rpm	4000 rpm	9.5 A	1.7 Kw
130ST-M0641530LDD	6.4 Nm	1500 rpm	3000 rpm	8.0 A	1.0 Kw
130ST-M0643040LDD	6.4 Nm	3000 rpm	4000 rpm	11.5 A	2.0 Kw
130ST-M0751530LDD	7.5 Nm	1500 rpm	3000 rpm	9.0 A	1.2 Kw
130ST-M0753040LDD	7.5 Nm	3000 rpm	4000 rpm	12.0 A	2.4 Kw
130ST-M0841530LDD	8.4 Nm	1500 rpm	3000 rpm	9.5 A	1.3 Kw
130ST-M0843040LDD	8.4 Nm	3000 rpm	4000 rpm	13.5 A	2.6 Kw
130ST-M0961530LDD	9.6 Nm	1500 rpm	3000 rpm	10.0 A	1.5 Kw
130ST-M0962540LDD	9.6 Nm	2500 rpm	4000 rpm	16.0 A	2.5 Kw
130ST-M1151530LDD	11.5 Nm	1500 rpm	3000 rpm	14.0 A	1.8 Kw
130ST-M1152040LDD	11.5 Nm	2000 rpm	4000 rpm	17.8 A	2.4 Kw
130ST-M1461520LDD	14.6 Nm	1500 rpm	2000 rpm	11.0 A	2.3 Kw
130ST-M1462040LDD	14.6 Nm	2000 rpm	4000 rpm	23.0 A	3.1 Kw
130ST-M1461530LDD	14.6 Nm	1500 rpm	3000 rpm	16.0 A	2.3 Kw
130ST-M1781520LDD	17.8 Nm	1500 rpm	2000 rpm	19.0 A	2.8 Kw

□编码器代码

Encodercode

● 60机座 (3000rpm/6000rpm)
 FRAME

电机型号 MOTOR TYPE	60ST-M0033060L□DD	60ST-M0063060L□DD
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	0.9 A	1.6 A
转子惯量 ROTOR INERTIA	0.131Kg ^{m²} ×10 ⁻⁴ (0.141 Kg ^{m²} ×10 ⁻⁴)	0.24×10 ⁻⁴ Kg ^{m²} (0.25×10 ⁻⁴ Kg ^{m²})
机械时间常数 MECHANICAL CONSTANT TIME	20.05 ms	16.68 ms
最大电流 MAX CURRENT	2.7 A	4.9 A
最大转矩 MAX TORQUE	1.12 Nm	2.24 Nm

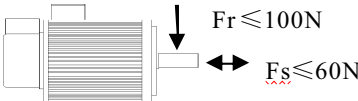
● 60机座 (3000rpm/6000rpm)
 FRAME

电机型号 MOTOR TYPE	60ST-M0123060L□DD	60ST-M0173060L□DD
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	2.9 A	3.9 A
转子惯量 ROTOR INERTIA	0.315Kg ^{m²} ×10 ⁻⁴ (0.325Kg ^{m²} ×10 ⁻⁴)	0.401Kg ^{m²} ×10 ⁻⁴ (0.411 Kg ^{m²} ×10 ⁻⁴)
机械时间常数 MECHANICAL CONSTANT TIME	7.61 ms	6.0 ms
最大电流 MAX CURRENT	8.8 A	11.9 A
最大转矩 MAX TORQUE	3.9 Nm	7.2 Nm

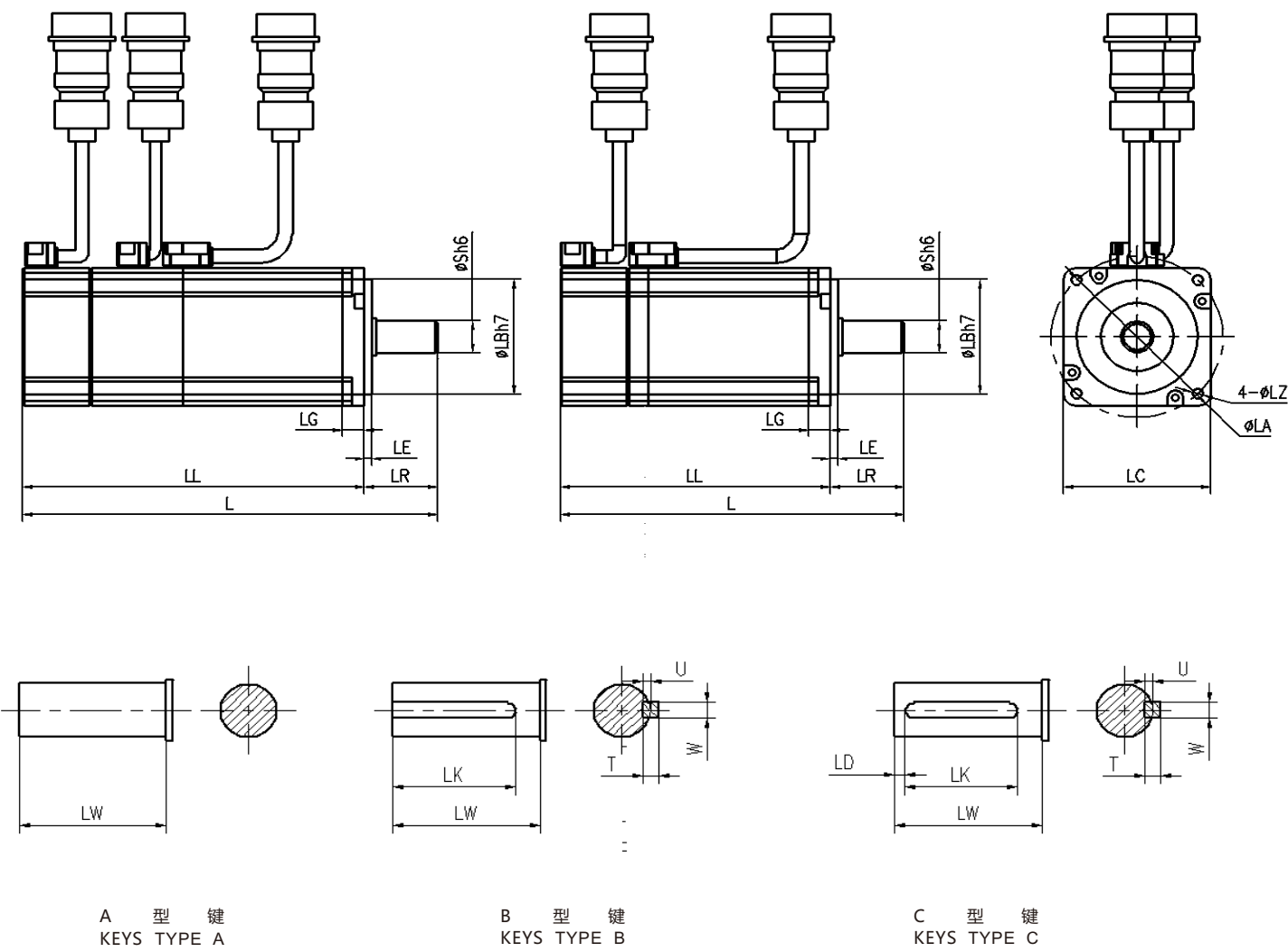
括号内为带失电制动器的转子惯量。
 Rotor moment of inertia with power-off brake in brackets.

□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□DD	113 (142)	83 (112)	30	3	9	60	70	4.5	14 ⁰ _{-0.03}	50 ⁰ _{-0.04}	5	3	5	20	25	3
60ST-M0063060L□DD	122 (151)	92 (121)	30	3	9	60	70	4.5	14 ⁰ _{-0.03}	50 ⁰ _{-0.04}	5	3	5	20	25	3
60ST-M0123060L□DD	140 (169)	110 (139)	30	3	9	60	70	4.5	14 ⁰ _{-0.03}	50 ⁰ _{-0.04}	5	3	5	20	25	3
60ST-M0173060L□DD	155 (184)	125 (154)	30	3	9	60	70	4.5	14 ⁰ _{-0.03}	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/5000rpm)

FRAME

电机型号 MOTOR TYPE	80ST-M0133050LDD	80ST-M0243050LDD
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	5000 rpm	5000 rpm
额定电流 RATED CURRENT	2.2 A	4.8 A
转子惯量 ROTOR INERTIA	0.614Kg ^{m²} ×10 ⁻⁴ (0.680Kg ^{m²} ×10 ⁻⁴)	0.932×10 ⁻⁴ Kg ^{m²} (0.998×10 ⁻⁴ Kg ^{m²})
机械时间常数 MECHANICAL CONSTANT TIME	5.678 ms	4.467 ms
最大电流 MAX CURRENT	6.9 A	15.0 A
最大转矩 MAX TORQUE	3.9 Nm	7.2 Nm

● 80机座 (3000rpm/5000rpm)

FRAME

电机型号 MOTOR TYPE	80ST-M0333050LDD	80ST-M0403050LDD
额定功率 RATED POWER	1.0 Kw	1.3 Kw
额定转矩 RATED TORQUE	3.3 Nm	4.0 Nm
额定转速 RATED SPEED	3000 rpm	3000 rpm
最高转速 MAXIMUM SPEED	5000 rpm	5000 rpm
额定电流 RATED CURRENT	6.1 A	7.8 A
转子惯量 ROTOR INERTIA	1.122Kg ^{m²} ×10 ⁻⁴ (1.188Kg ^{m²} ×10 ⁻⁴)	1.331Kg ^{m²} ×10 ⁻⁴ (1.397 Kg ^{m²} ×10 ⁻⁴)
机械时间常数 MECHANICAL CONSTANT TIME	4.248 ms	4.728 ms
最大电流 MAX CURRENT	19.2 A	24.6 A
最大转矩 MAX TORQUE	9.9 Nm	12.0 Nm

括号内为带失电制动器的转子惯量。

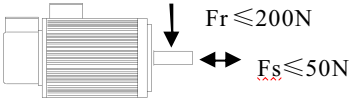
Rotor moment of inertia with power-off brake in brackets.

□ 编码器代码

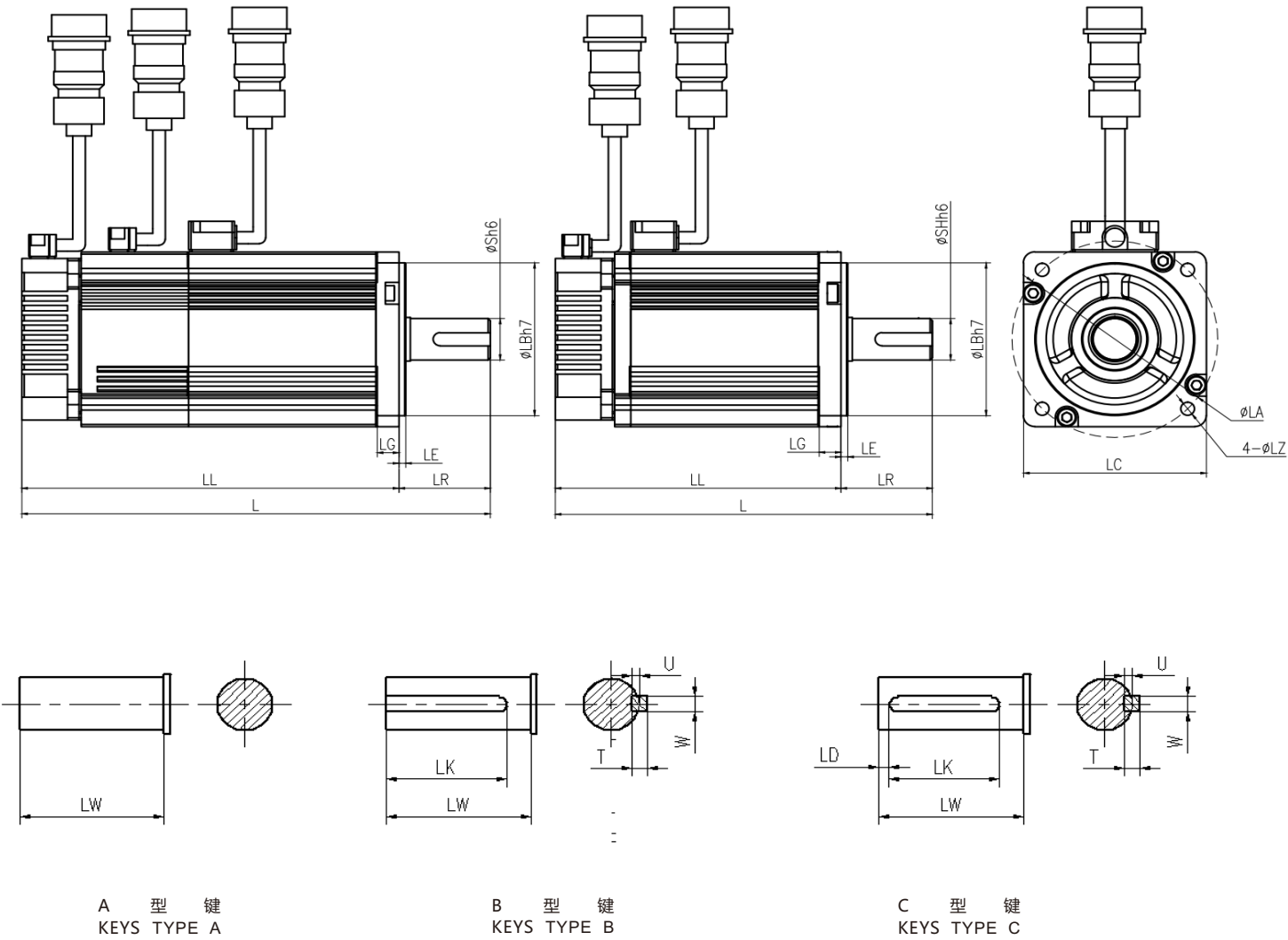
Encoder code

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
80ST-M0133050L□DD	143 (183)	103 (143)	40	3	9.5	80	90	6	19 ⁰ _{-0.013}	70 ⁰ _{-0.03}	6	3.5	6	25	35	5
80ST-M0243050L□DD	165 (205)	125 (165)	40	3	9.5	80	90	6	19 ⁰ _{-0.013}	70 ⁰ _{-0.03}	6	3.5	6	25	35	5
80ST-M0333050L□DD	180 (220)	140 (180)	40	3	9.5	80	90	6	19 ⁰ _{-0.013}	70 ⁰ _{-0.03}	6	3.5	6	25	35	5
80ST-M0403050L□DD	195 (235)	155 (195)	40	3	9.5	80	90	6	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.

● 110 机座 (2000rpm/3000rpm)
FRAME

电机型号 MOTOR TYPE	110ST-M0422030LDD	110ST-M0542030LDD	110ST-M0642030LDD	110ST-M0752030LDD
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 ^m ²×10 ⁻³ (0.851Kg ^m ²×10 ⁻³)	0.916 Kg ^m ²×10 ⁻³ (0.98 Kg ^m ²×10 ⁻³)	1.061 Kg ^m ²×10 ⁻³ (1.125 Kg ^m ²×10 ⁻³)	1.238 Kg ^m ²×10 ⁻³ (1.302 Kg ^m ²×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.752ms	1.396 ms	1.283 ms	1.266 ms
最大电流 MAX CURRENT	14.0 A	17.5 A	20.5 A	25.0 A
最大转矩 MAX TORQUE	12.6 Nm	16.2 Nm	19.2 Nm	22.5 Nm

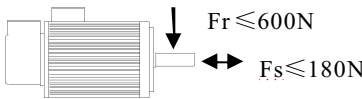
● 110 机座 (2500rpm/4000rpm、3000rpm/4000rpm)
FRAME

电机型号 MOTOR TYPE	110ST-M0423040LDD	110ST-M0543040LDD	110ST-M0642540LDD
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 ^m ²×10 ⁻³ (0.851Kg ^m ²×10 ⁻³)	0.916 Kg ^m ²×10 ⁻³ (0.98 Kg ^m ²×10 ⁻³)	1.061 Kg ^m ²×10 ⁻³ (1.125 Kg ^m ²×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.737ms	1.588 ms	1.422 ms
最大电流 MAX CURRENT	19.8 A	25.0 A	29.0 A
最大转矩 MAX TORQUE	12.6 Nm	16.2 Nm	19.2 Nm

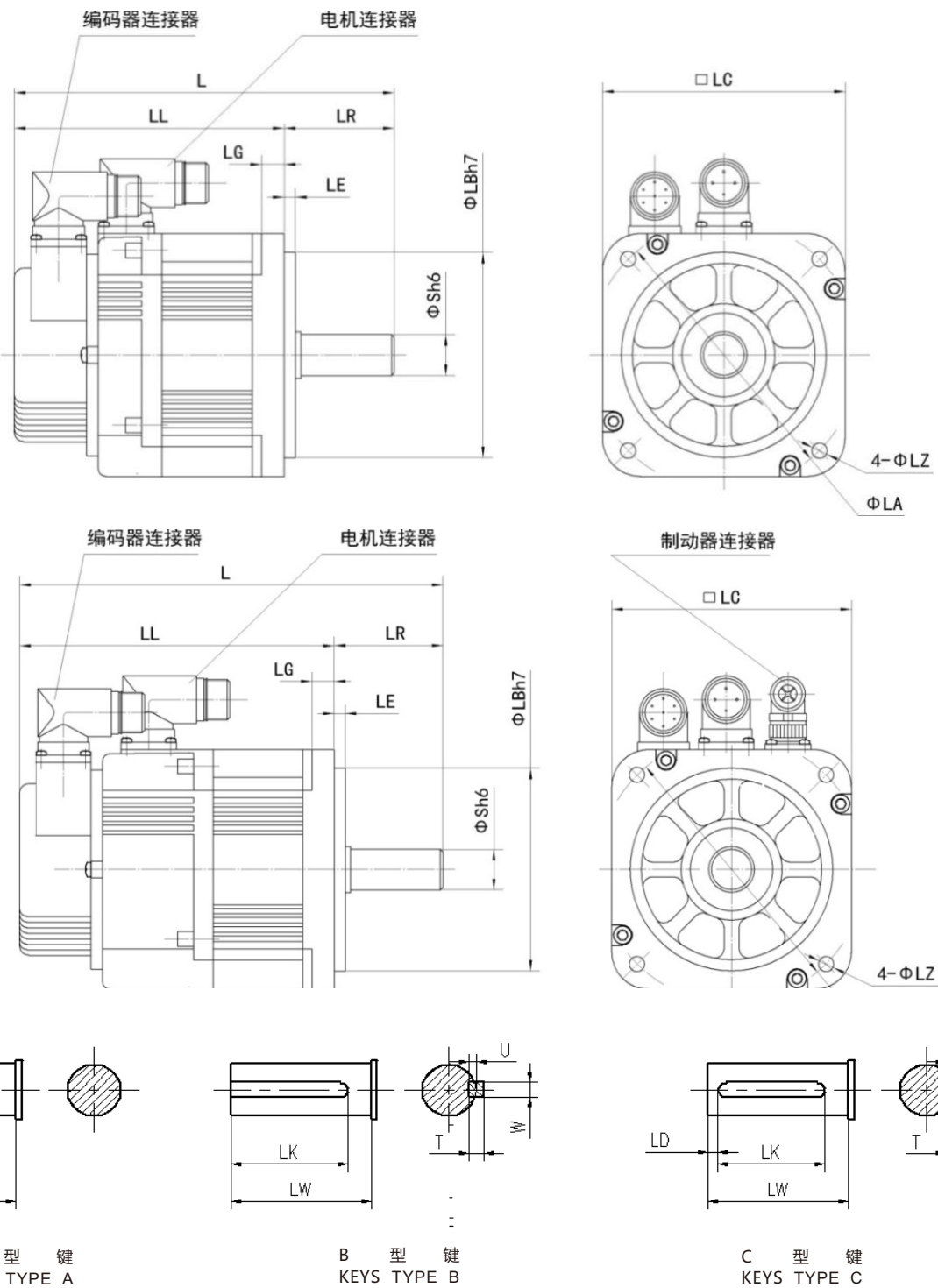
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□ 编码器代码
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
110ST-M0422030L□DD 110ST-M0423040L□DD	209 (245)	153 (189)	56	5	12	110	130	9	$19^{\circ}_{-0.013}$	$95^{\circ}_{-0.04}$	6	3.5	6	40	48	3
110ST-M0542030L□DD 110ST-M0543040L□DD	219 (255)	163 (199)	56	5	12	110	130	9	$19^{\circ}_{-0.013}$	$95^{\circ}_{-0.04}$	6	3.5	6	40	48	3
110ST-M0642030L□DD 110ST-M0643040L□DD	229 (265)	173 (209)	56	5	12	110	130	9	$19^{\circ}_{-0.013}$	$95^{\circ}_{-0.04}$	6	3.5	6	40	48	3
110ST-M0752030L□DD	240 (276)	184 (220)	56	5	12	110	130	9	$19^{\circ}_{-0.013}$	$95^{\circ}_{-0.04}$	6	3.5	6	40	48	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.

● 130 机座 (1500rpm/3000rpm)

FRAME

电机型号 MOTOR TYPE	130ST-M0421530LDD	130ST-M0541530LDD	130ST-M0641530LDD
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	$1.163 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($1.33 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$1.388 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($1.555 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$1.604 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($1.771 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	3.704ms	2.900 ms	2.804 ms
最大电流 MAX CURRENT	17.3 A	25.0 A	25.2 A
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-M0751530LDD	130ST-M0841530LDD	130ST-M0961530LDD
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	$1.857 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($2.024 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$2.059 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($2.226 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$2.369 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($2.536 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.409 ms	2.071 ms	2.167 ms
最大电流 MAX CURRENT	28.4 A	30.0 A	31.5 A
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。

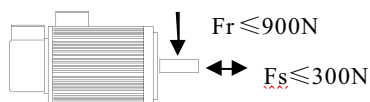
Rotor moment of inertia with power-off brake in brackets.

□ 编码器代码

Encoder code

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	$3.015 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($3.182 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$4.070 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($4.237 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.415 ms	1.875 ms
最大电流 MAX CURRENT	44.1 A	50.4 A
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	$4.070 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($4.237 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$4.548 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($4.715 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	1.553 ms	1.575 ms
最大电流 MAX CURRENT	34.7 A	60.0 A
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。

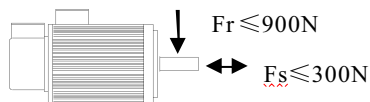
Rotor moment of inertia with power-off brake in brackets.

□编码器代码

Encoder code

最大径、轴向力：

Max diameter/axial force



● 130 机座 (3000rpm/4000rpm)

FRAME

电机型号 MOTOR TYPE	130ST-M0423040LDD	130ST-M0543040LDD
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	$1.163 \text{ Kg}\cdot\text{m}^2 \times 10^{-3}$ ($1.33 \text{ Kg}\cdot\text{m}^2 \times 10^{-3}$)	$1.388 \text{ Kg}\cdot\text{m}^2 \times 10^{-3}$ ($1.555 \text{ Kg}\cdot\text{m}^2 \times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	3.270 ms	2.806 ms
最大电流 MAX CURRENT	21.4 A	29.0 A
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-M0643040LDD	130ST-M0753040LDD	130ST-M0843040LDD
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	$1.604 \text{ Kg}\cdot\text{m}^2 \times 10^{-3}$ ($1.771 \text{ Kg}\cdot\text{m}^2 \times 10^{-3}$)	$1.857 \text{ Kg}\cdot\text{m}^2 \times 10^{-3}$ ($2.024 \text{ Kg}\cdot\text{m}^2 \times 10^{-3}$)	$2.369 \text{ Kg}\cdot\text{m}^2 \times 10^{-3}$ ($2.536 \text{ Kg}\cdot\text{m}^2 \times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.544 ms	2.068 ms	2.19 ms
最大电流 MAX CURRENT	35.0 A	36.6 A	41.2 A
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。

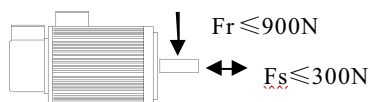
Rotor moment of inertia with power-off brake in brackets.

□ 编码器代码

Encoder code

最大径、轴向力：

Max diameter/axial force



● 130 机座（2500rpm、2000rpm/4000rpm）

FRAME

电机型号 MOTOR TYPE	130ST-M0962540LDD	130ST-M1152040LDD	130ST-M1462040LDD
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
最大电流 MAX CURRENT	48.8 A	54.3 A	70.2 A
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。

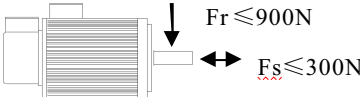
Rotor moment of inertia with power-off brake in brackets.

□ 编码器代码

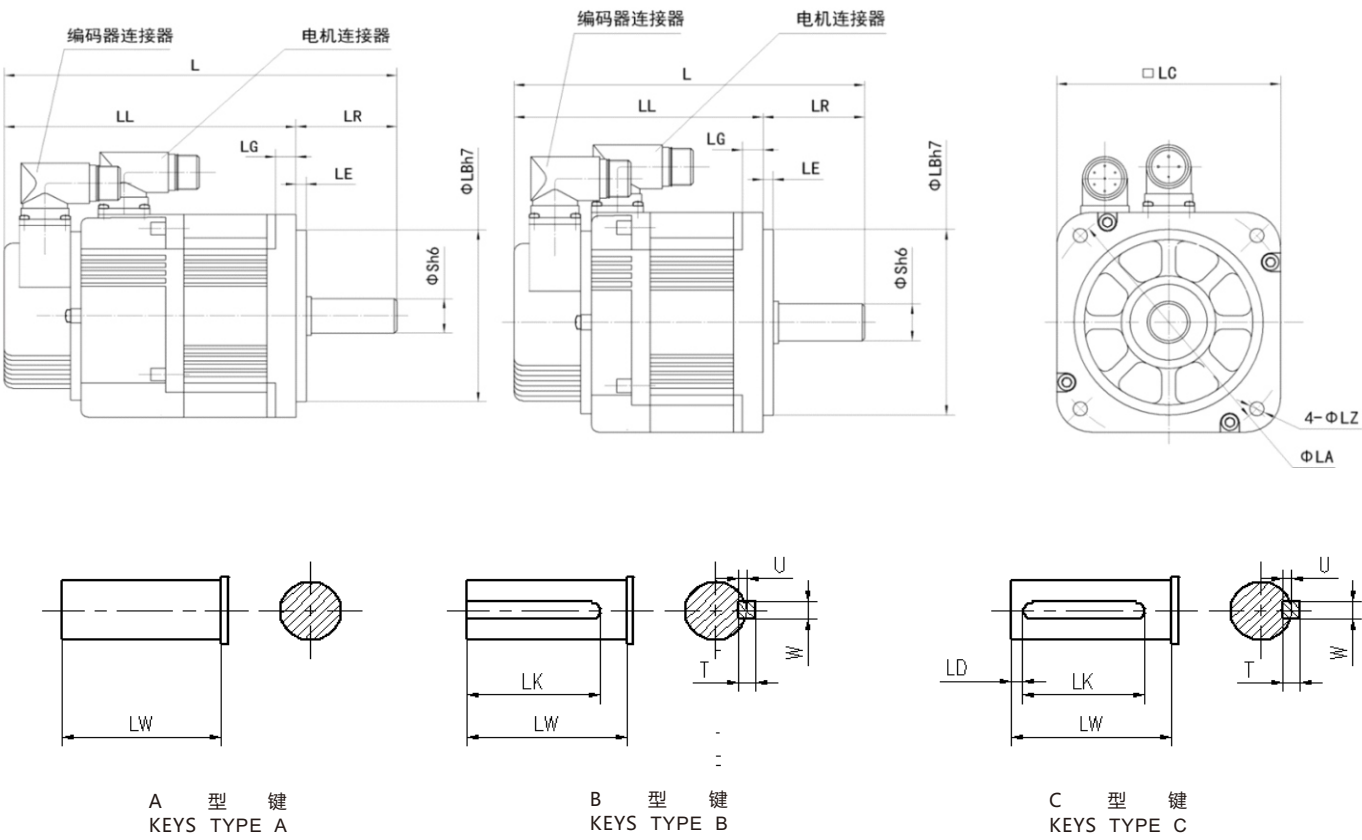
Encoder code

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
130ST-M0421530L□DD	198	139	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M0423040L□DD	(225)	(166)														
130ST-M0541530L□DD	204	145	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M0543040L□DD	(231)	(172)														
130ST-M0641530L□DD	211	152	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M0643040L□DD	(238)	(178)														
130ST-M0751530L□DD	218	159	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M0753040L□DD	(245)	(186)														
130ST-M0841530L□DD	224	165	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M0843040L□DD	(251)	(192)														
130ST-M0843040L□DD	232	173	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M0961530L□DD	(259)	(200)														
130ST-M0962540L□DD	251	192	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M1151530L□DD	(278)	(219)														
130ST-M1152040L□DD	283	224	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M1461520L□DD	(310)	(251)														
130ST-M1461530L□DD																
130ST-M1462040L□DD	304	245	59	6	12	130	145	8.5	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M1781520L□DD	(331)	(272)														

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.

HB系列伺服电机

HB SERIES SERVO MOTORS

特点

FEATURES

- 机座 (mm) : 110、130、150、180

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) : 2.0~55.0

RATED TORQUE

额定功率(Kw): 0.6~8.6

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

	<u>110</u>	<u>ST</u>	-	<u>M</u>	<u>020</u>	<u>30</u>	<u>H</u>	<u>F1</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			(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)	中惯量 MEDIUM INERTIA				(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
180ST-M18020H□B	18.0 Nm	2000 rpm	10.0 A	3.6 Kw
180ST-M23020H□B	23.0 Nm	2000 rpm	13.5 A	4.7 Kw
180ST-M27020H□B	27.0 Nm	2000 rpm	13.5 A	5.5 Kw
180ST-M36015H□B	36.0 Nm	1500 rpm	14.0 A	5.6 Kw
180ST-M45015H□B	45.0 Nm	1500 rpm	16.5 A	7.0 Kw
180ST-M55015H□B	55.0 Nm	1500 rpm	20.5 A	8.6 Kw

□编码器代码

Encodercode

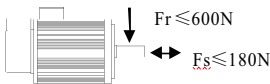
● 110 机座 (2000rpm、3000rpm)
FRAME

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	$0.413\times10^{-3}\text{ Kg}\text{m}^2$ ($0.477\times10^{-3}\text{ Kg}\text{m}^2$)	$0.693\times10^{-3}\text{ Kg}\text{m}^2$ ($0.757\times10^{-3}\text{ Kg}\text{m}^2$)	$0.856\times10^{-3}\text{ Kg}\text{m}^2$ ($0.92\times10^{-3}\text{ Kg}\text{m}^2$)	$1.029\times10^{-3}\text{ Kg}\text{m}^2$ ($1.093\times10^{-3}\text{ Kg}\text{m}^2$)	$1.029\times10^{-3}\text{ Kg}\text{m}^2$ ($1.093\times10^{-3}\text{ Kg}\text{m}^2$)
机械时间常数 MECHANICAL CONSTANT TIME	6.979 ms	3.682 ms	2.594 ms	2.174 ms	1.942 ms
最大电流 MAX CURRENT	9.0 A	12.0 A	13.5 A	10.5 A	15.0 A
最大转矩 MAX TORQUE	6.0 Nm	12.0 Nm	15.0 Nm	18.0 Nm	18.0 Nm

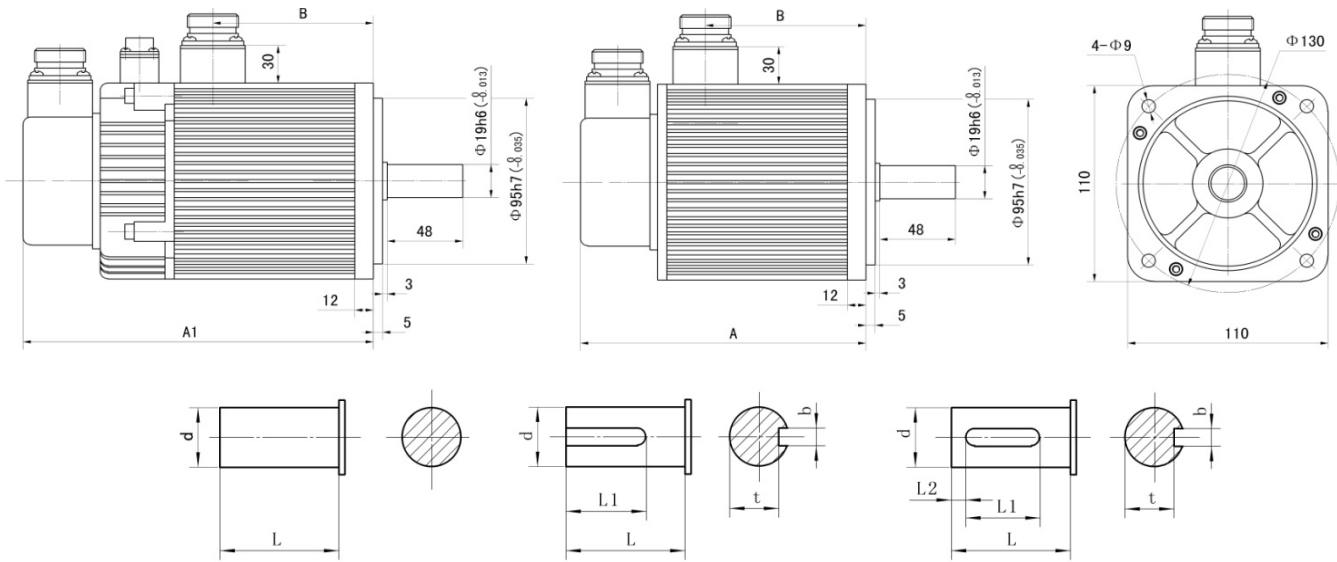
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

最大径、轴向力：
Max diameter/axial force

□ 编码器代码
Encoder code



尺寸图
DIMENSIONAL DRAWING



	A 型 键 KEYS TYPE A			B 型 键 KEYS TYPE B			C 型 键 KEYS TYPE C		
型号	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
110ST-M02030H□B	158	200	76	48	40	3	$\Phi 19^{0}_{-0.013}$	$6^{0}_{-0.03}$	$15.5^{0}_{-0.1}$
110ST-M04030H□B	185	227	102	48	40	3	$\Phi 19^{0}_{-0.013}$	$6^{0}_{-0.03}$	$15.5^{0}_{-0.1}$
110ST-M05030H□B	200	242	118	48	40	3	$\Phi 19^{0}_{-0.013}$	$6^{0}_{-0.03}$	$15.5^{0}_{-0.1}$
110ST-M06020H□B 110ST-M06030H□B	217	259	134	48	40	3	$\Phi 19^{0}_{-0.013}$	$6^{0}_{-0.03}$	$15.5^{0}_{-0.1}$

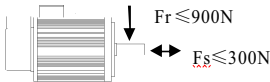
● 130机座 (2500rpm/2500rpm)
FRAME

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	$1.04\times10^{-3}\text{ Kg}\cdot\text{m}^2$ ($1.207\times10^{-3}\text{ Kg}\cdot\text{m}^2$)	$1.337\times10^{-3}\text{ Kg}\cdot\text{m}^2$ ($1.504\times10^{-3}\text{ Kg}\cdot\text{m}^2$)	$1.337\times10^{-3}\text{ Kg}\cdot\text{m}^2$ ($1.504\times10^{-3}\text{ Kg}\cdot\text{m}^2$)	$1.556\times10^{-3}\text{ Kg}\cdot\text{m}^2$ ($1.723\times10^{-3}\text{ Kg}\cdot\text{m}^2$)
机械时间常数 MECHANICAL CONSTANT TIME	4.894 ms	3.718 ms	3.934 ms	4.014 ms
最大电流 MAX CURRENT	9.0 A	9.0 A	10.5 A	13.5 A
最大转矩 MAX TORQUE	12.0 Nm	15.0 Nm	15.0 Nm	18.0 Nm

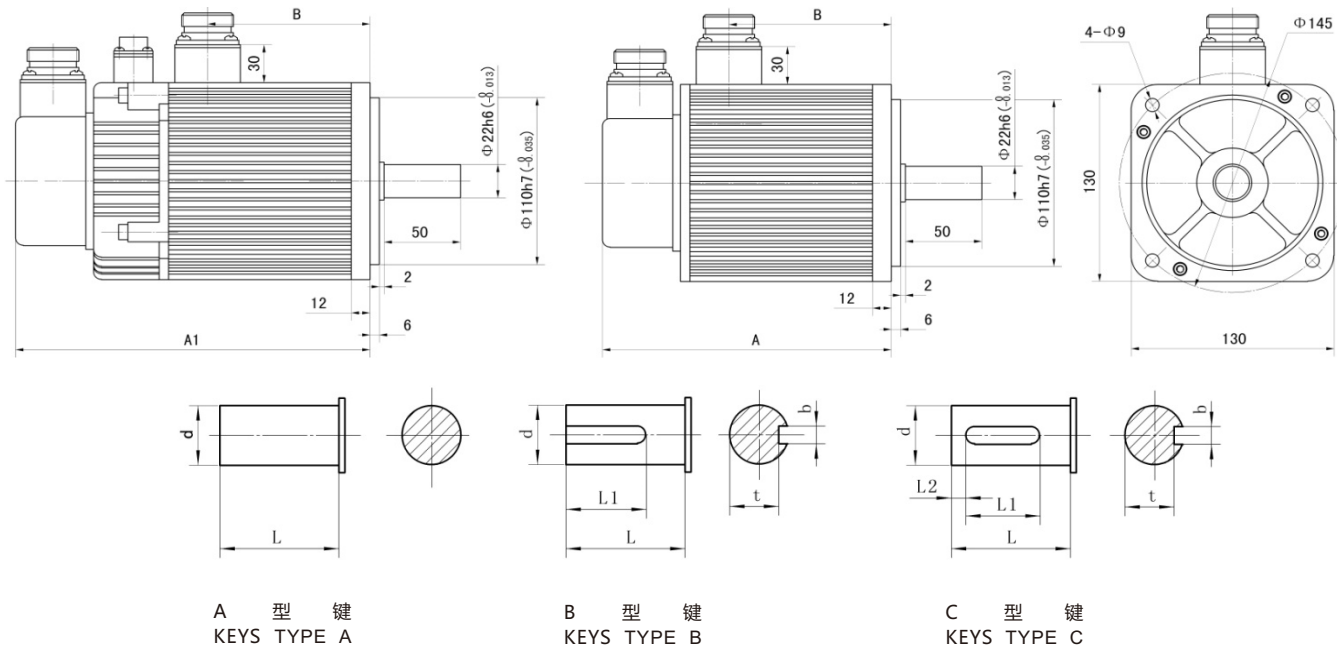
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□ 编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图
DIMENSIONAL DRAWING



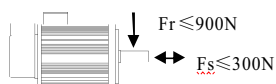
型号	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
130ST-M04025H□B	163	205	80	50	40	5	$\Phi 22_{-0.013}^0$	$6_{-0.03}^0$	$18.5_{-0.1}^0$
130ST-M05020H□B 130ST-M05025H□B	171	213	89	50	40	5	$\Phi 22_{-0.013}^0$	$6_{-0.03}^0$	$18.5_{-0.1}^0$
130ST-M06025H□B	181	223	98	50	40	5	$\Phi 22_{-0.013}^0$	$6_{-0.03}^0$	$18.5_{-0.1}^0$

HB SERIES SERVO MOTORS

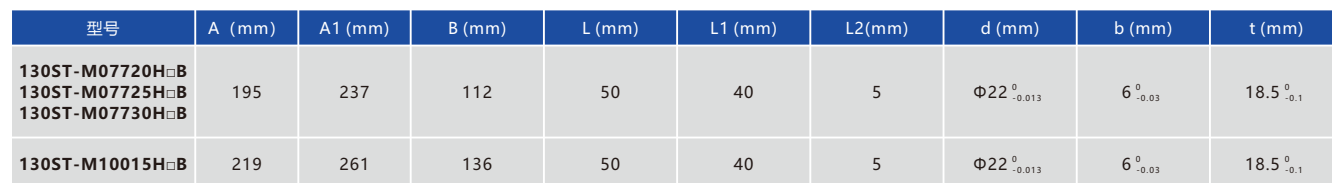
FRAME

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.

最大径、轴向力：
Max diameter/axial force



DIMENSIONAL DRAWING



HB SERIES SERVO MOTORS

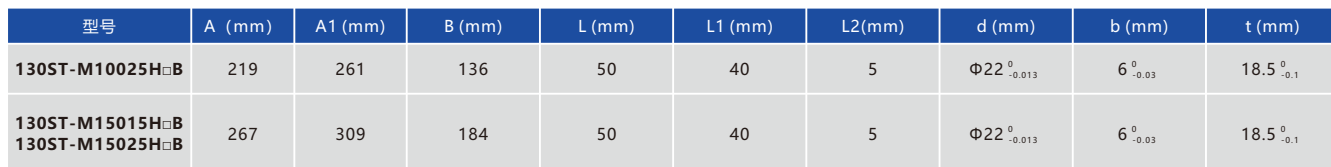
FRAME

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.

最大径、轴向力：
Max diameter/axial force



DIMENSIONAL DRAWING



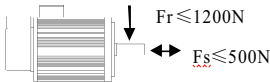
● 150机座 (2000rpm、2500rpm)
FRAME

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	$4.609 \times 10^{-3} \text{ Kg m}^2$ ($5.209 \times 10^{-3} \text{ Kg m}^2$)	$6.222 \times 10^{-3} \text{ Kg m}^2$ ($6.6 \times 10^{-3} \text{ Kg m}^2$)	$8.345 \times 10^{-3} \text{ Kg m}^2$ ($8.945 \times 10^{-3} \text{ Kg m}^2$)	$9.871 \times 10^{-3} \text{ Kg m}^2$ ($10.471 \times 10^{-3} \text{ Kg m}^2$)
机械时间常数 MECHANICAL CONSTANT TIME	1.941ms	2.07 ms	1.909 ms	2.564 ms
最大电流 MAX CURRENT	49.5A	49.5A	61.5 A	61.5 A
最大转矩 MAX TORQUE	45.0 Nm	54.0 Nm	69.0 Nm	81.0 Nm

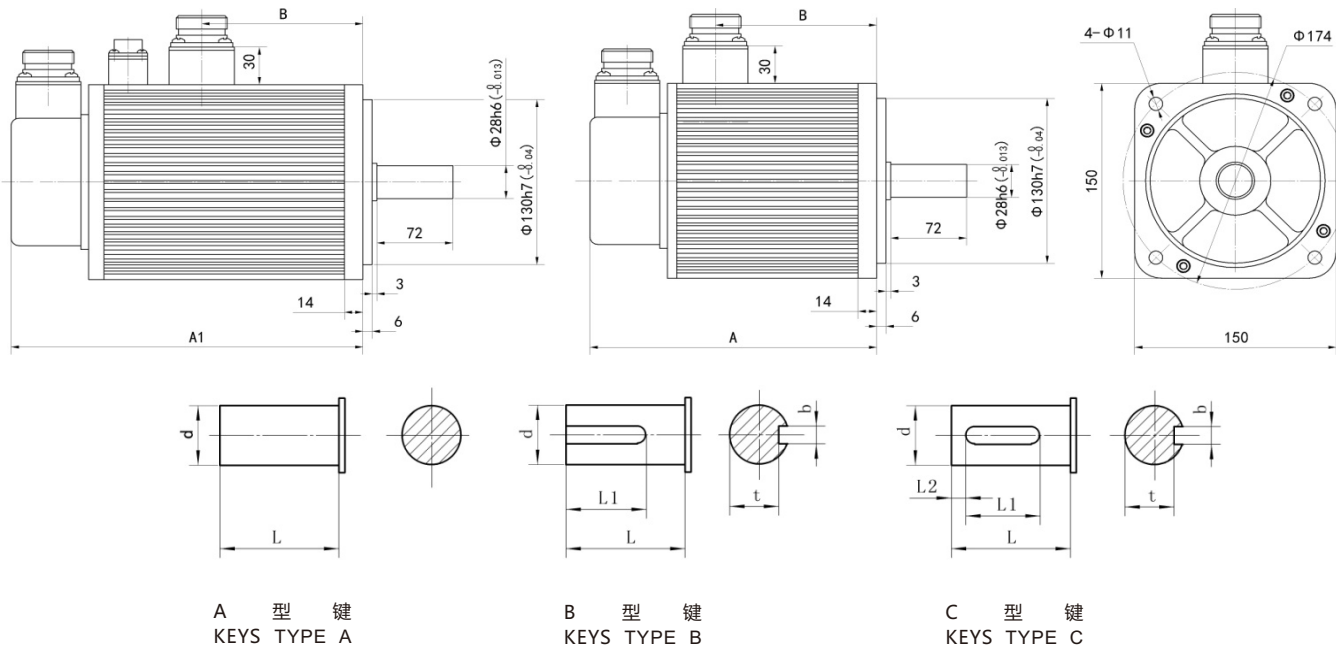
括号内为带失电动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□ 编码器代码
Encoder code

最大径、轴向力：
Max diameter/axial force



尺寸图
DIMENSIONAL DRAWING



型号	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
150ST-M15025H□B	231	293	146	72	60 (B型) 55 (C型)	5	$\Phi 28^{+0}_{-0.013}$	$8^{+0}_{-0.03}$	$24^{+0}_{-0.1}$
150ST-M18020H□B	250	312	166	72	60 (B型) 55 (C型)	5	$\Phi 28^{+0}_{-0.013}$	$8^{+0}_{-0.03}$	$24^{+0}_{-0.1}$
150ST-M23020H□B	280	342	196	72	60 (B型) 55 (C型)	5	$\Phi 28^{+0}_{-0.013}$	$8^{+0}_{-0.03}$	$24^{+0}_{-0.1}$
150ST-M27020H□B	306	368	222	72	60 (B型) 55 (C型)	5	$\Phi 28^{+0}_{-0.013}$	$8^{+0}_{-0.03}$	$24^{+0}_{-0.1}$

● 180机座 (2000rpm)
FRAME

电机型号 MOTOR TYPE	180ST-M18020H□B	180ST-M23020H□B	180ST-M27020H□B
额定功率 RATED POWER	3.6 Kw	4.7 Kw	5.5 Kw
额定转矩 RATED TORQUE	18.0 Nm	23.0 Nm	27.0 Nm
额定转速 RATED SPEED	2000 rpm	2000 rpm	2000 rpm
额定电流 RATED CURRENT	10.0 A	13.5 A	13.5 A
转子惯量 ROTOR INERTIA	$5.326 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$ ($5.926 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$)	$6.628 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$ ($7.228 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$)	$7.836 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$ ($8.436 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$)
机械时间常数 MECHANICAL CONSTANT TIME	1.332 ms	1.094 ms	1.352 ms
最大电流 MAX CURRENT	30.0 A	40.5 A	40.5 A
最大转矩 MAX TORQUE	54.0 Nm	69.0 Nm	81.0 Nm

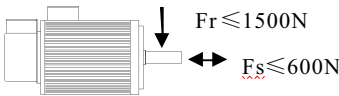
● 180机座 (1500rpm)
FRAME

电机型号 MOTOR TYPE	180ST-M36015H□B	180ST-M45015H□B	180ST-M55015H□B
额定功率 RATED POWER	5.6 Kw	7.0 Kw	8.6 Kw
额定转矩 RATED TORQUE	36.0 Nm	45.0 Nm	55.0 Nm
额定转速 RATED SPEED	1500 rpm	1500 rpm	1500 rpm
额定电流 RATED CURRENT	14.0 A	16.5 A	20.5 A
转子惯量 ROTOR INERTIA	$9.957 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$ ($10.557 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$)	$11.834 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$ ($12.434 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$)	$13.796 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$ ($14.369 \times 10^{-3} \text{ Kg}\cdot\text{m}^2$)
机械时间常数 MECHANICAL CONSTANT TIME	0.945 ms	0.853 ms	1.008 ms
最大电流 MAX CURRENT	45.0 A	51.0 A	63.0 A
最大转矩 MAX TORQUE	108.0 Nm	135.0 Nm	165.0 Nm

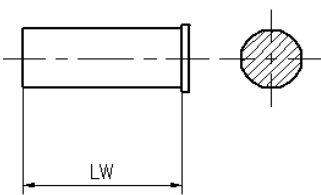
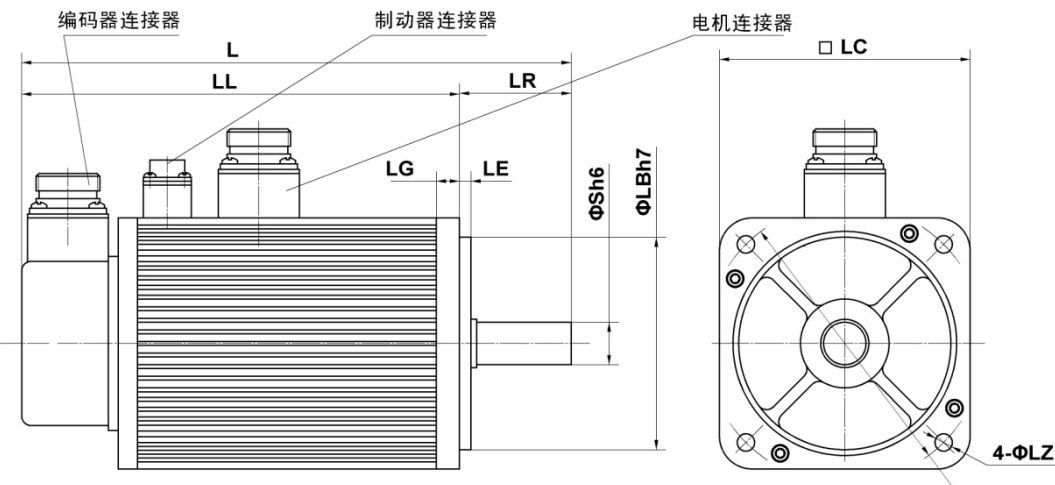
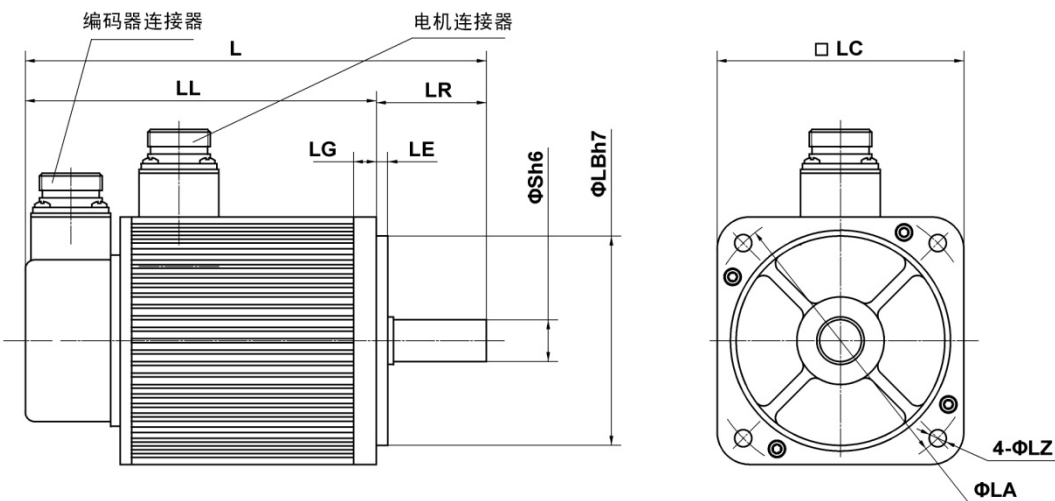
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□编码器代码
Encoder code

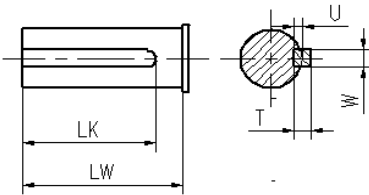
最大径、轴向力：
Max diameter/axial force



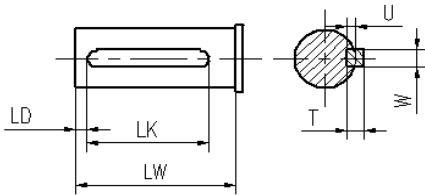
● 安装尺寸



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
180ST-M18020H□B	321 (393)	242 (314)	79	4	20	180	200	13.5	35 ⁰ _{-0.013}	150 ⁰ _{-0.04}	8	5	10	63	73	5
180ST-M23020H□B	345 (417)	266 (338)	79	4	20	180	200	13.5	35 ⁰ _{-0.013}	150 ⁰ _{-0.04}	8	5	10	63	73	5
180ST-M27020H□B	365 (437)	286 (358)	79	4	20	180	200	13.5	35 ⁰ _{-0.013}	150 ⁰ _{-0.04}	8	5	10	63	73	5
180ST-M36015H□B	399 (471)	320 (392)	79	4	20	180	200	13.5	35 ⁰ _{-0.013}	150 ⁰ _{-0.04}	8	5	10	63	73	5
180ST-M45015H□B	431 (503)	352 (424)	79	4	20	180	200	13.5	35 ⁰ _{-0.013}	150 ⁰ _{-0.04}	8	5	10	63	73	5
180ST-M55015H□B	463 (535)	384 (456)	79	4	20	180	200	13.5	35 ⁰ _{-0.013}	150 ⁰ _{-0.04}	8	5	10	63	73	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.

HBB系列伺服电机

HBB SERIES SERVO MOTORS

特点

FEATURES

机座 (mm) : 110、130、150、180
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) : 4.8~55.0
RATED TORQUE
最高转速 (rpm) : 3000
MAXIMUM SPEED
额定功率(Kw): 0.85~8.6
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

110	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

(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) 安装了失电制动器
WITH THE POWER-OFF BRAKE
- (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) 中惯量
MEDIUM INERTIA

(11) 轴伸端键槽代码, 无键无代码
THE SHAFT END KEYWAY CODE, NO CODE MEANS NO KEY
- (3) 反馈元件类型
FEEDBACK COMPONENTS TYPE

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

(9) 具有最高转速特性
MAXIMUM SPEED FEATURES

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	最高转速 MAXIMUM SPEED	额定电流 RATED CURRENT	额定功率 RATED POWER
110ST-M04820H□BB	4.8 Nm	2000 rpm	3000 rpm	3.5 A	1.0 Kw
110ST-M06415H□BB	6.4 Nm	1500 rpm	3000 rpm	4.0 A	1.0 Kw
110ST-M05415H□BB	5.4 Nm	1500 rpm	3000 rpm	3.5 A	0.85 Kw
130ST-M05415H□BB	5.4 Nm	1500 rpm	3000 rpm	3.8 A	0.85 Kw
130ST-M06415H□BB	6.4 Nm	1500 rpm	3000 rpm	4.0 A	1.0 Kw
130ST-M09615H□BB	9.6 Nm	1500 rpm	3000 rpm	6.0 A	1.5 Kw
130ST-M14615H□BB	14.6 Nm	1500 rpm	3000 rpm	9.5 A	2.3 Kw
130ST-M04820H□BB	4.8 Nm	2000 rpm	3000 rpm	3.5 A	1.0 Kw
130ST-M07220H□BB	7.2 Nm	2000 rpm	3000 rpm	5.0 A	1.5 Kw
130ST-M09620H□BB	9.6 Nm	2000 rpm	3000 rpm	7.5 A	2.0 Kw
130ST-M14320H□BB	14.3 Nm	2000 rpm	3000 rpm	9.5 A	3.0 Kw
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
180ST-M18020H□BB	18.0 Nm	2000 rpm	3000 rpm	12.5 A	3.6 Kw
180ST-M23020H□BB	23.0 Nm	2000 rpm	3000 rpm	15.0 A	4.7 Kw
180ST-M27020H□BB	27.0 Nm	2000 rpm	3000 rpm	18.0 A	5.5 Kw
180ST-M36015H□BB	36.0 Nm	1500 rpm	3000 rpm	22.5 A	5.6 Kw
180ST-M45015H□BB	45.0 Nm	1500 rpm	3000 rpm	30.0 A	7.0 Kw
180ST-M55015H□BB	55.0 Nm	1500 rpm	3000 rpm	35.0 A	8.6 Kw

□ 编码器代码
Encoder code

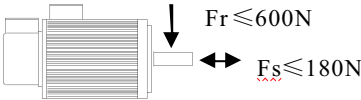
● 110机座 (1500rpm/3000rpm、2000rpm/3000rpm)
FRAME

电机型号 MOTOR TYPE	110ST-M04820H□BB	110ST-M05415H□BB	110ST-M06415H□BB
额定功率 RATED POWER	1.0 Kw	0.85 Kw	1.0 Kw
额定转矩 RATED TORQUE	4.8 Nm	5.4 Nm	6.4 Nm
额定转速 RATED SPEED	2000 rpm	1500 rpm	1500 rpm
最高转速 MAXIMUM SPEED	3000 rpm	3000 rpm	3000 rpm
额定电流 RATED CURRENT	3.5 A	3.5 A	4.0 A
转子惯量 ROTOR INERTIA	0.856 Kg ^m ²×10 ⁻³ (0.92 Kg ^m ²×10 ⁻³)	0.856 Kg ^m ²×10 ⁻³ (0.92 Kg ^m ²×10 ⁻³)	1.029 Kg ^m ²×10 ⁻³ (1.093 Kg ^m ²×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	2.497 ms	2.237 ms	1.756 ms
最大电流 MAX CURRENT	10.5 A	10.5 A	12.0 A
最大转矩 MAX TORQUE	14.4 Nm	16.2 Nm	19.2 Nm

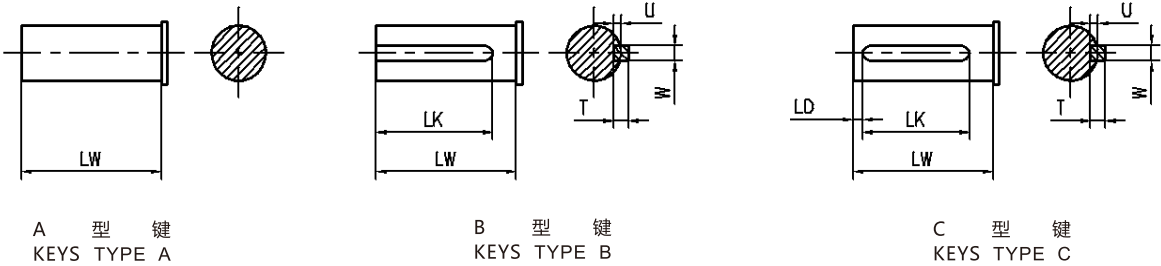
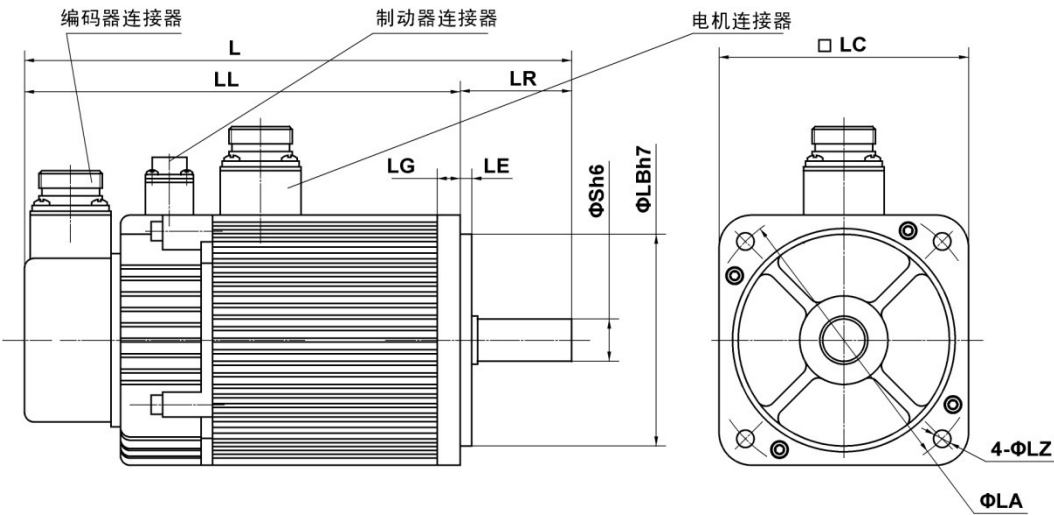
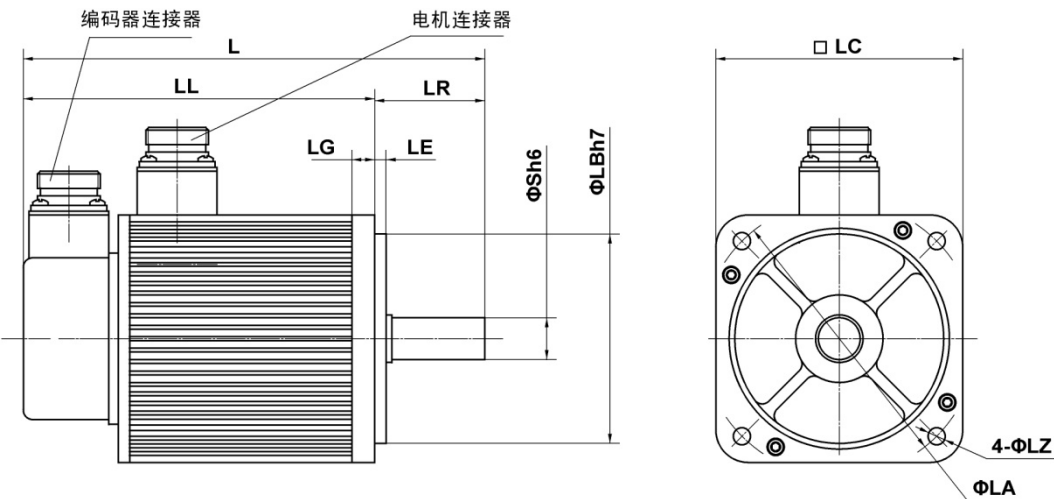
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□ 编码器代码
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
110ST-M04820H□BB 110ST-M05415H□BB	256 (298)	200 (242)	56	5	12	110	130	9	19 ⁰ _{-0.013}	95 ⁰ _{-0.04}	6	3.5	6	40	48	5
110ST-M06415H□BB	273 (315)	217 (259)	56	5	12	110	130	9	19 ⁰ _{-0.013}	95 ⁰ _{-0.04}	6	3.5	6	40	48	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.

● 130机座 (1500rpm/3000rpm)

FRAME

电机型号 MOTOR TYPE	130ST-M05415H□BB	130ST-M06415H□BB	130ST-M09615H□BB	130ST-M14615H□BB
额定功率 RATED OUTPUT	0.85 Kw	1.0 Kw	1.5 Kw	2.3 Kw
额定转矩 RATED TORQUE	5.4 Nm	6.4 Nm	9.6 Nm	14.6 Nm
额定转速 RATED POWER	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	3.8 A	4.0 A	6.0 A	9.5 A
转子惯量 ROTOR INERTIA	1.337 Kg ^{m²} ×10 ⁻³ (1.504 Kg ^{m²} ×10 ⁻³)	1.556 Kg ^{m²} ×10 ⁻³ (1.723 Kg ^{m²} ×10 ⁻³)	2.539 Kg ^{m²} ×10 ⁻³ (2.706 Kg ^{m²} ×10 ⁻³)	2.914 Kg ^{m²} ×10 ⁻³ (3.081 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	4.465 ms	3.074 ms	1.904 ms	1.284 ms
最大电流 MAX CURRENT	11.4 A	12.0 A	18.0 A	28.5 A
最大转矩 MAX TORQUE	16.2 Nm	19.2 Nm	28.8 Nm	43.8 Nm

● 130机座 (2000rpm/3000rpm)

FRAME

电机型号 MOTOR TYPE	130ST-M04820H□BB	130ST-M07220H□BB	130ST-M09620H□BB	130ST-M14320H□BB
额定功率 RATED POWER	1.0 Kw	1.5 Kw	2.0 Kw	3.0 Kw
额定转矩 RATED TORQUE	4.8 Nm	7.2 Nm	9.6 Nm	14.3 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	3.5 A	5.0 A	7.5 A	9.5 A
转子惯量 ROTOR INERTIA	1.337 Kg ^{m²} ×10 ⁻³ (1.504 Kg ^{m²} ×10 ⁻³)	1.959 Kg ^{m²} ×10 ⁻³ (2.126 Kg ^{m²} ×10 ⁻³)	2.539 Kg ^{m²} ×10 ⁻³ (2.706 Kg ^{m²} ×10 ⁻³)	2.914 Kg ^{m²} ×10 ⁻³ (3.081 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	4.210 ms	2.925 ms	2.975 ms	1.320 ms
最大电流 MAX CURRENT	10.5 A	15.0 A	22.5 A	28.5 A
最大转矩 MAX TORQUE	14.4 Nm	21.6 Nm	28.8 Nm	42.9 Nm

括号内为带失电制动器的转子惯量。

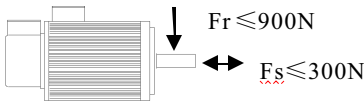
Rotor moment of inertia with power-off brake in brackets.

□编码器代码

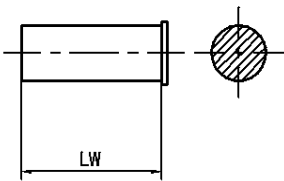
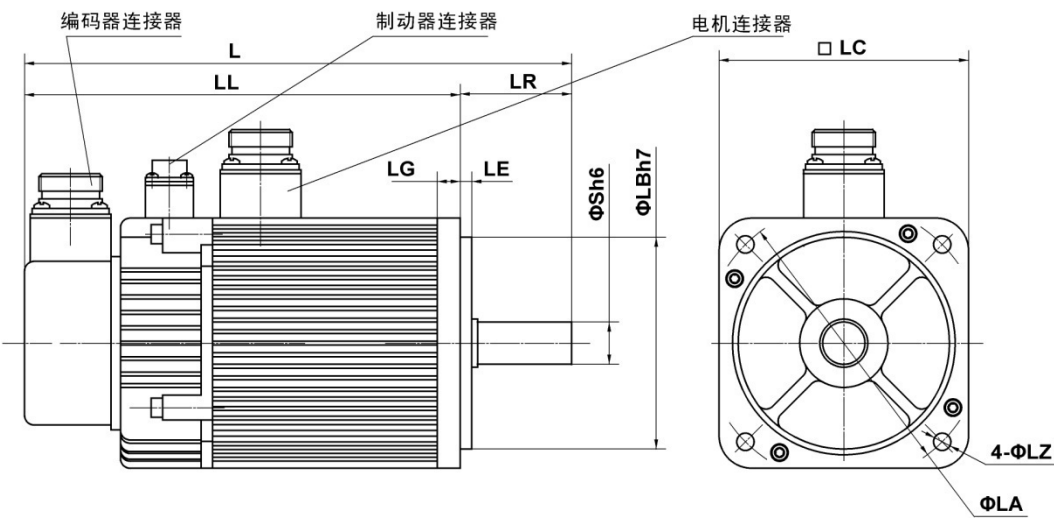
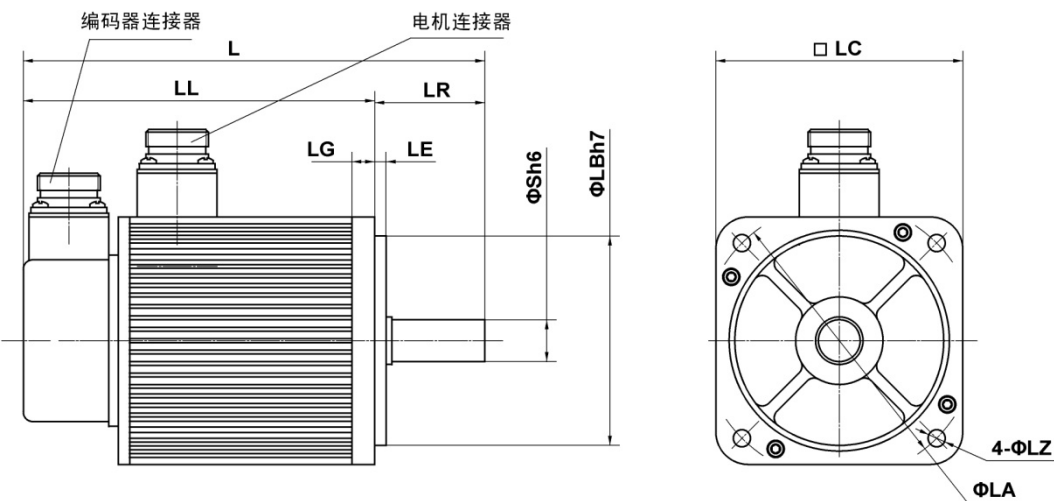
Encodercode

最大径、轴向力：

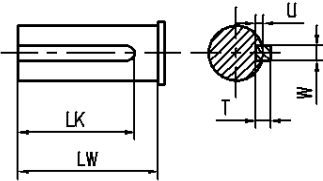
Max diameter/axial force



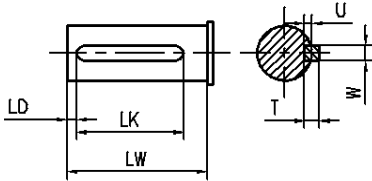
● 安装尺寸



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
130ST-M04820H□BB 130ST-M05415H□BB	229 (271)	171 (213)	58	6	12	130	145	9	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M06415H□BB	239 (281)	181 (223)	58	6	12	130	145	9	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M07220H□BB	253 (295)	195 (237)	58	6	12	130	145	9	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M09620H□BB 130ST-M09615H□BB	277 (319)	219 (261)	58	6	12	130	145	9	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	5
130ST-M14320H□BB 130ST-M14615H□BB	325 (367)	267 (309)	58	6	12	130	145	9	22 ⁰ _{-0.013}	110 ⁰ _{-0.04}	6	3.5	6	40	50	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.

● 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	$4.609 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($5.209 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$6.222 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($6.822 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$8.345 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($8.945 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$9.871 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($10.471 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.171 ms	1.989 ms	1.975 ms	1.798 ms
最大电流 MAX CURRENT	27.0 A	36.0 A	39.0 A	51.0 A
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	$4.609 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($5.209 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$8.345 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($8.945 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)	$9.871 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$ ($10.471 \text{ Kg} \cdot \text{m}^2 \times 10^{-3}$)
机械时间常数 MECHANICAL CONSTANT TIME	2.223 ms	2.028 ms	1.810 ms
最大电流 MAX CURRENT	27.0 A	42.0 A	46.5 A
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。

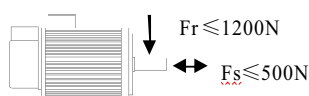
Rotor moment of inertia with power-off brake in brackets.

□编码器代码

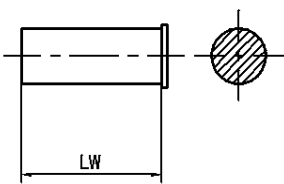
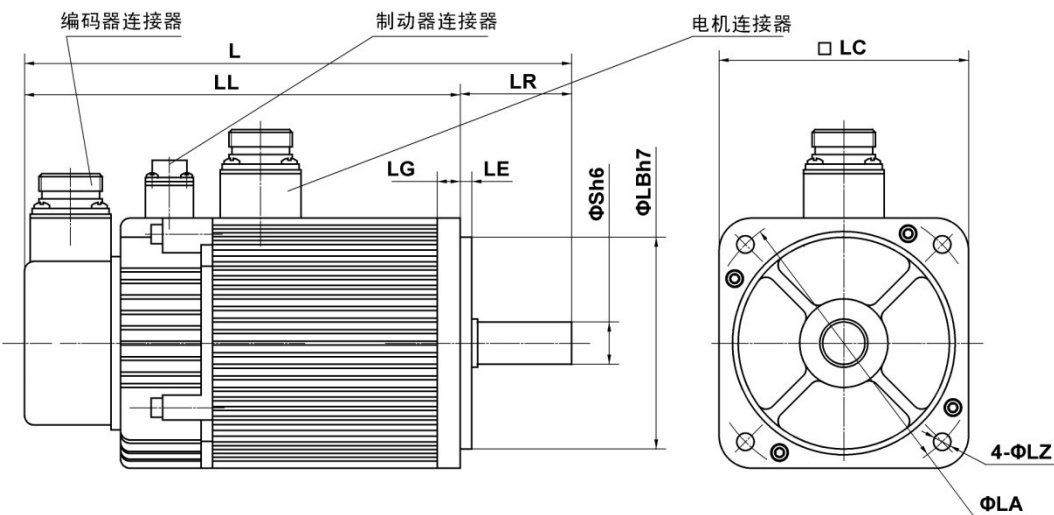
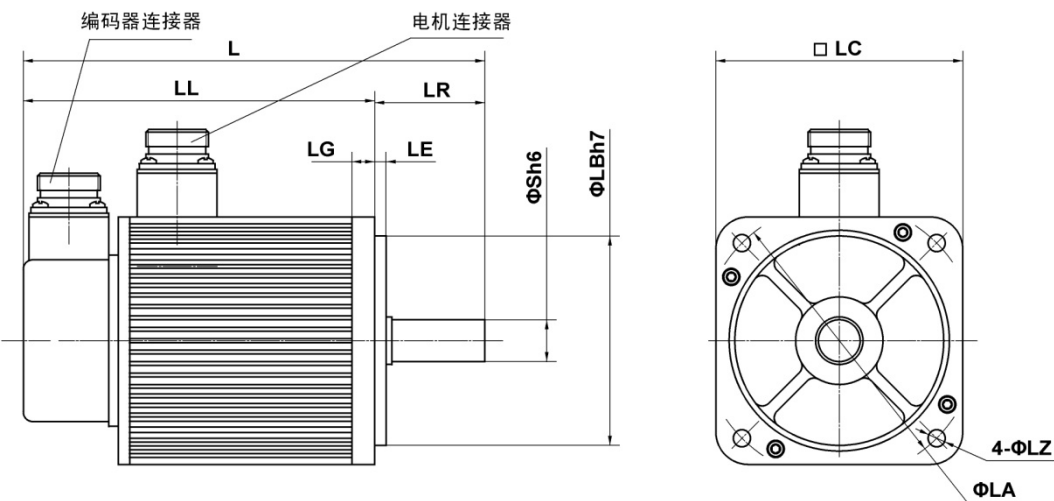
Encoder code

最大径、轴向力：

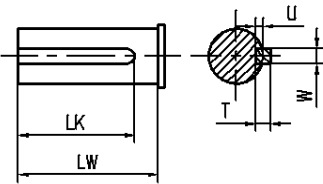
Max diameter/axial force



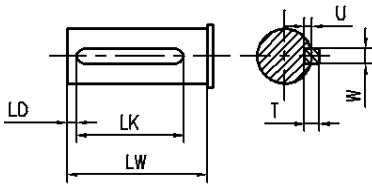
● 安装尺寸



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
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
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
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
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

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 (2000rpm/3000rpm)

FRAME

电机型号 MOTOR TYPE	180ST-M18020H□BB	180ST-M23020H□BB	180ST-M27020H□BB
额定功率 RATED POWER	3.6 Kw	4.7 Kw	5.5 Kw
额定转矩 RATED TORQUE	18.0 Nm	23.0 Nm	27.0 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	12.5 A	15.0 A	18.0 A
转子惯量 ROTOR INERTIA	5.326 Kg ^{m²} ×10 ⁻³ (5.926 Kg ^{m²} ×10 ⁻³)	6.628 Kg ^{m²} ×10 ⁻³ (7.228 Kg ^{m²} ×10 ⁻³)	7.836 Kg ^{m²} ×10 ⁻³ (8.436 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.418 ms	1.015 ms	0.972 ms
最大电流 MAX CURRENT	37.5 A	45.0 A	54.0 A
最大转矩 MAX TORQUE	54.0 Nm	69.0 Nm	81.0 Nm

● 180机座 (1500rpm/3000rpm)

FRAME

电机型号 MOTOR TYPE	180ST-M36015H□BB	180ST-M45015H□BB	180ST-M55015H□BB
额定功率 RATED POWER	5.6 Kw	7.0 Kw	8.6 Kw
额定转矩 RATED TORQUE	36.0 Nm	45.0 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	22.5 A	30.0 A	35.0 A
转子惯量 ROTOR INERTIA	9.957 Kg ^{m²} ×10 ⁻³ (10.557 Kg ^{m²} ×10 ⁻³)	11.834 Kg ^{m²} ×10 ⁻³ (12.434 Kg ^{m²} ×10 ⁻³)	13.796 Kg ^{m²} ×10 ⁻³ (14.369 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	0.875 ms	0.962 ms	0.704 ms
最大电流 MAX CURRENT	67.5 A	90.0 A	108.0 A
最大转矩 MAX TORQUE	108.0 Nm	135.0 Nm	165.0 Nm

括号内为带失电制动器的转子惯量。

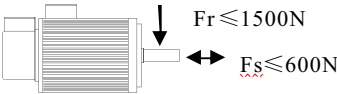
Rotor moment of inertia with power-off brake in brackets.

□编码器代码

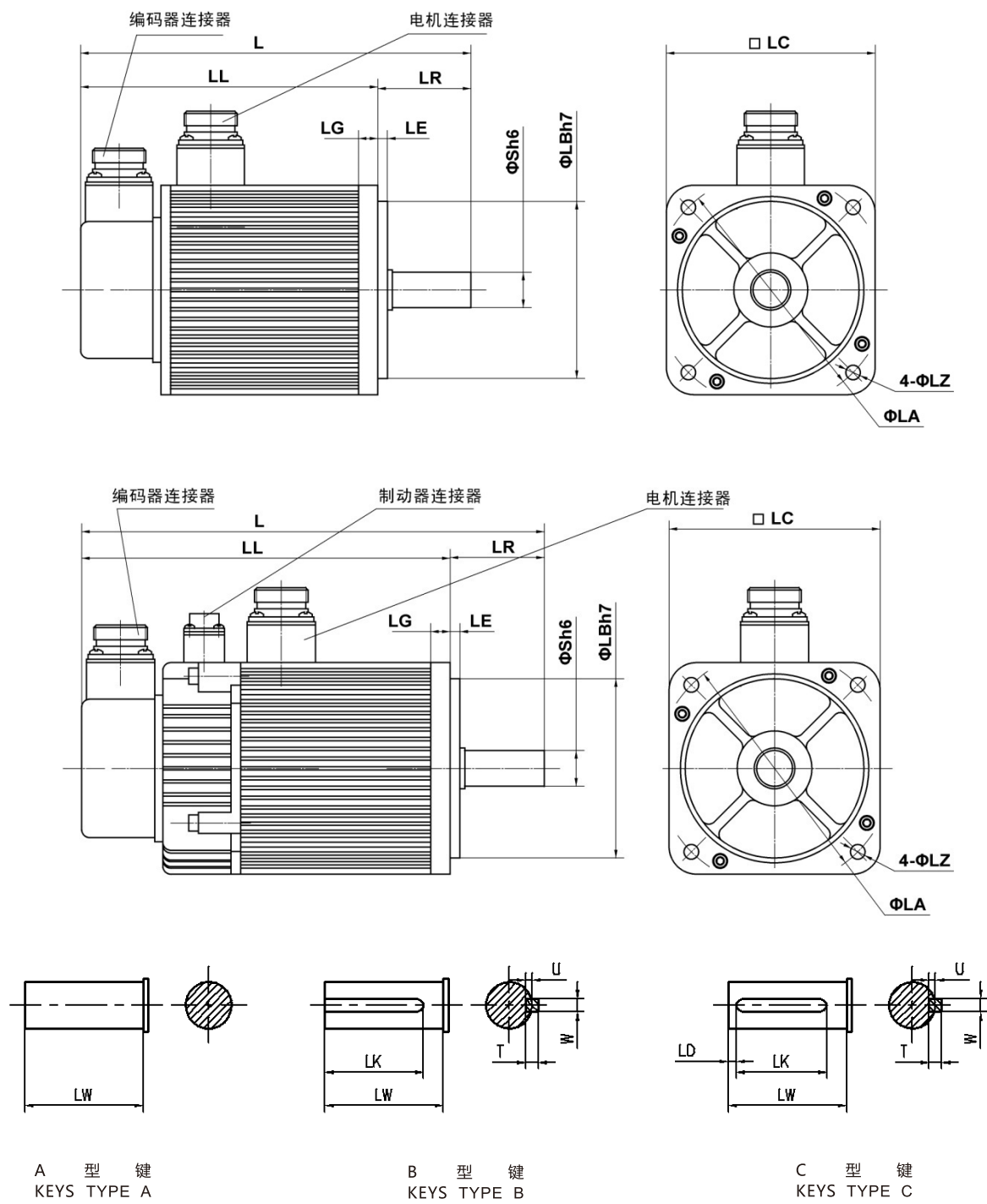
Encodercode

最大径、轴向力：

Max diameter/axial force



● 安装尺寸



型号	L	LL	LR	LE	LG	LC	LA	LZ	ϕS	LB	T	U	W	LK	LW	LD
180ST-M18020H□BB	321 (393)	242 (314)	79	4	20	180	200	13.5	$35^{\circ}_{-0.013}$	$150^{\circ}_{-0.04}$	8	5	10	63	73	5
180ST-M23020H□BB	345 (417)	266 (338)	79	4	20	180	200	13.5	$35^{\circ}_{-0.013}$	$150^{\circ}_{-0.04}$	8	5	10	63	73	5
180ST-M27020H□BB	365 (437)	286 (358)	79	4	20	180	200	13.5	$35^{\circ}_{-0.013}$	$150^{\circ}_{-0.04}$	8	5	10	63	73	5
180ST-M36015H□BB	399 (471)	320 (392)	79	4	20	180	200	13.5	$35^{\circ}_{-0.013}$	$150^{\circ}_{-0.04}$	8	5	10	63	73	5
180ST-M45015H□BB	431 (503)	352 (424)	79	4	20	180	200	13.5	$35^{\circ}_{-0.013}$	$150^{\circ}_{-0.04}$	8	5	10	63	73	5
180ST-M55015H□BB	463 (535)	384 (456)	79	4	20	180	200	13.5	$35^{\circ}_{-0.013}$	$150^{\circ}_{-0.04}$	8	5	10	63	73	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

- 功率型伺服电机
POWER TYPE SERVO MOTOR

机座 (mm) : 180
FRAME SIZE

额定转速(rpm): 1800、2000
RATED SPEED

工作制: S1
WORK

绝缘等级: F
INSULATION GRADE

安装方式: 法兰盘、卧式
INSTALLATION METHOD

环境温度: 0~55℃
ENVIRONMENT TEMPERATURE
- 额定转矩 (Nm) : 27.0~70.0
RATED TORQUE

最高转速 (rpm) : 2500
MAXIMUM SPEED

额定功率(Kw): 5.5~11.7
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

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

180	STP	-	M	270	20	H	F	B	B	P	/C
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

- (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) 温度反馈元件代码
TEMPERATURE SENSOR CODE
- (2) 功率型交流永磁同步伺服电机
POWER TYPE AC PERMANENT MAGNET SERVO MOTO

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

(8) 中惯量
MEDIUM INERTIA

(11) 轴伸端键槽代码, 无键无代码
THE SHAFT END KEYWAY CODE, NO CODE MEANS NO KEY
- (3) 反馈元件类型
FEEDBACK COMPONENTS TYPE

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

(9) 具有最高转速特性
MAXIMUM SPEED FEATURES

HBBP系列一览表
HBBP 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 MAXIMUM SPEED	额定电流 RATED CURRENT	额定功率 RATED POWER
180STP-M27020H□BB△	27.0 Nm	2000 rpm	2500 rpm	13.5 A	5.5 Kw
180STP-M36020H□BB△	36.0 Nm	2000 rpm	2500 rpm	20.0 A	7.5 Kw
180STP-M45018H□BB△	45.0 Nm	1800 rpm	2500 rpm	23.5 A	8.5 Kw
180STP-M55018H□BB△	55.0 Nm	1800 rpm	2500 rpm	30.0 A	10.0 Kw
180STP-M70016H□BB△	70.0 Nm	1600 rpm	2500 rpm	38.0 A	11.7 Kw

- 编码器代码
Encodercode
- △温度反馈元件代码
P: PTC130
K: KTY84

● 180机座（1800rpm/2500rpm、2000rpm/2500rpm）

电机型号 MOTOR TYPE	180STP-M27020H□BB△	180STP-M36020H□BB△	180STP-M45018H□BB△
额定功率 RATED POWER	5.5 Kw	7.5 Kw	8.5 Kw
额定转矩 RATED TORQUE	27.0 Nm	36.0 Nm	45.0Nm
额定转速 RATED SPEED	2000 rpm	2000 rpm	1800 rpm
最高转速 MAXIMUM SPEED	2500 rpm	2500 rpm	2500 rpm
额定电流 RATED CURRENT	13.5 A	20.0 A	23.5 A
转子惯量 ROTOR INERTIA	5.361 Kg ^{m²} ×10 ⁻³ (5.961 Kg ^{m²} ×10 ⁻³)	6.840 Kg ^{m²} ×10 ⁻³ (7.44 Kg ^{m²} ×10 ⁻³)	7.970 Kg ^{m²} ×10 ⁻³ (8.57 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.347 ms	7.44 ms	1.206 ms
最大电流 MAX CURRENT	42 A	62.0 A	72.0 A
最大转矩 MAX TORQUE	81 Nm	108 Nm	135.0 Nm

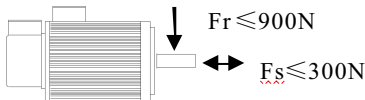
● 180机座（1600rpm/2500rpm、1800rpm/2500rpm

电机型号 MOTOR TYPE	180STP-M55018H□BB△	180STP-M70016H□BB△
额定功率 RATED POWER	10.0 Kw	11.7Kw
额定转矩 RATED TORQUE	55.0 Nm	70.0 Nm
额定转速 RATED SPEED	1800 rpm	1600 rpm
最高转速 MAXIMUM SPEED	2500 rpm	2500 rpm
额定电流 RATED CURRENT	30.0A	38.0 A
转子惯量 ROTOR INERTIA	9.946 Kg ^{m²} ×10 ⁻³ (10.546Kg ^{m²} ×10 ⁻³)	11.896 Kg ^{m²} ×10 ⁻³ (12.496 Kg ^{m²} ×10 ⁻³)
机械时间常数 MECHANICAL CONSTANT TIME	1.039 ms	1.041 ms
最大电流 MAX CURRENT	92.0 A	115.0 A
最大转矩 MAX TORQUE	165.0 Nm	210.0 Nm

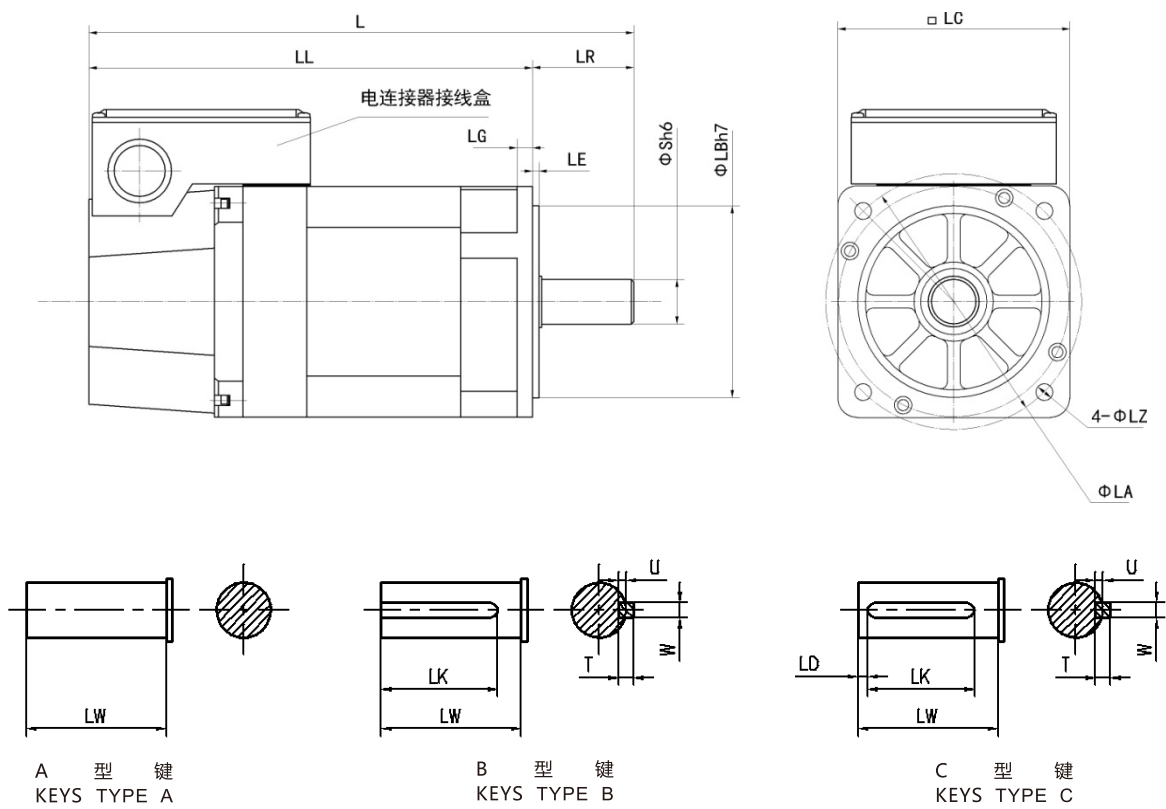
括号内为带失电制动器的转子惯量。
Rotor moment of inertia with power-off brake in brackets.

□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
180STP-M27020H□BB	416	337	79	5	20	180	200	13.5	$35^{0}_{-0.013}$	$150^{0}_{-0.04}$	8	5	10	63	73	5
180STP-M36020H□BB	440	361	79	5	20	180	200	13.5	$35^{0}_{-0.013}$	$150^{0}_{-0.04}$	8	5	10	63	73	5
180STP-M45018H□BB	460	381	79	5	20	180	200	13.5	$35^{0}_{-0.013}$	$150^{0}_{-0.04}$	8	5	10	63	73	5
180STP-M55018H□BB	494	415	79	5	20	180	200	13.5	$35^{0}_{-0.013}$	$150^{0}_{-0.04}$	8	5	10	63	73	5
180STP-M70016H□BB	526	447	79	5	20	180	200	13.5	$35^{0}_{-0.013}$	$150^{0}_{-0.04}$	8	5	10	63	73	5

特点
FEATURES

车削电主轴
LATHE SPINDLE
套筒直径 (mm) : 150、180、200
QUILL DIAMETER
过载倍数: 150%
OVERLOAD CAPACITY
额定转速 (rpm) : 2000、2500、3000
RATED SPEED
额定转矩 (Nm) : 7.0~52.5
RATED TORQUE
冷却方式: 液冷
COOLING TYPE
卡盘型式: 液压
CHUCK TYPE

环境温度: 0~55℃
ENVIRONMENT TEMPERATURE
电机类型: 永磁同步
MOTOR TYPE
工作制: S1/S6-40%
DUTY TYPE
额定功率 (Kw) : 3.7、5.5、7.5、11
RATED POWER
最高转速 (rpm) : 5000、6000、8000
MAXIMUM SPEED
适配驱动器工作电压 (VAC) : 380
MATCHED DRIVER WORKING VOLTAGE
润滑方式: 油脂
LUBRICATING TYPE
轴承安装方式: TBT/DB
BEARING INSTALLATION
环境湿度: 小于90% (无结露)
ENVIRONMENT HUMIDITY

CTD系列车削电主轴命名规则
CTD SERIES LATHE SPINDLE NAMING RULE

200	CTD	075	20	05	H	N	B	A2-6
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

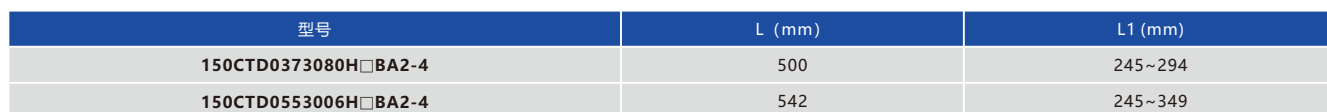
- (1) 套筒直径: 150、180、200
- (2) CTD车削电主轴
- (3) 电机功率: 三位数×0.1Kw
- (4) 额定转速: 二位数 × 100rpm
- (5) 最高转速: 二位数×1000rpm
- (6) 驱动器工作电压 (VAC) : 380
- (7) 编码器代码
- (8) 版本代码
- (9) 主轴鼻规格

CTD系列一览表
CTD SERIES LIST

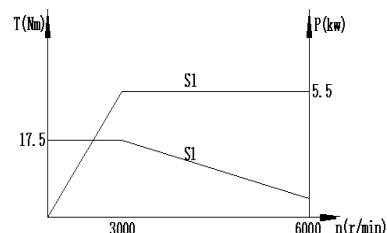
同步电主轴型号 SPINDLE TYPE	主要参数 MAIN PARAMETERS			
	额定功率 RATED POWER	额定转速 RATED SPEED	最高转速 MAXIMUM SPEED	额定转矩 RATED TORQUE
150CTD0373008H□BA2-4	3.7 Kw	3000 rpm	8000 rpm	11.8Nm
150CTD0553006H□BA2-4	5.5 Kw	3000 rpm	6000 rpm	17.5 Nm
180CTD0552006H□BA2-5	5.5 Kw	2000 rpm	6000 rpm	26.0 Nm
180CTD0752505H□BA2-5	7.5Kw	2500 rpm	5000 rpm	28.7Nm
200CTD0752005H□BA2-6	7.5Kw	2000 rpm	5000 rpm	35.8Nm
200CTD1102005H□BA2-6	11 Kw	2000 rpm	5000 rpm	52.5 Nm

适配驱动器工作电压代码: H—AC380V, L—AC220V。
编码器代码□: N—22bit串口协议编码器, P—256齿脉冲式编码器。
热反馈元件: PTC130

- T - N (P - N)

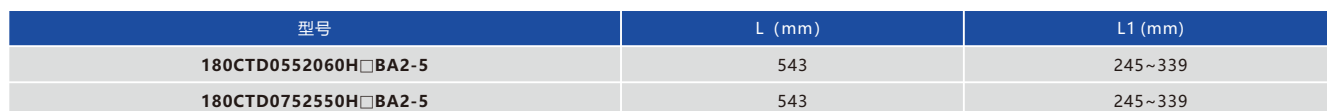


- T - N (P - N)

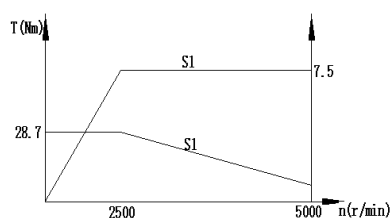


150CTD0553006H□BA2-4

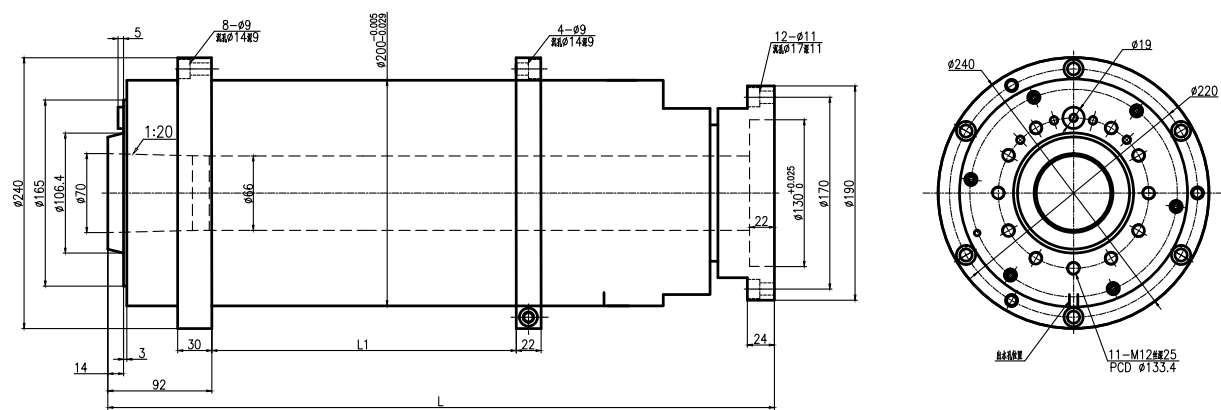
- T - N (P - N)



- T - N (P - N)

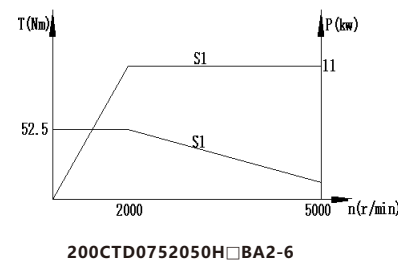
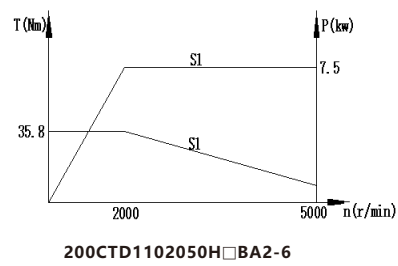


● 200系列：机械尺寸



型号	L (mm)	L1 (mm)
200CTD0752050H□BA2-6	591	270~348
200CTD1102050H□BA2-6	651	270~408

● T - N (P - N)



与您共进

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