

# WEIDE SERVO MOTOR DESCRIPTION

## 伺服电机简要说明 (The Brief introduction of Servo Motor)

110、130、150、180 机座号(Frame size):

动力插座 Power sockets (4P):

|                       |   |   |   |    |
|-----------------------|---|---|---|----|
| 绕组引线<br>Winding leads | U | V | W | PE |
| 插座编号<br>Socket Number | 2 | 3 | 4 | 1  |

反馈元件插座 Feedback element socket:

省线增量式编码器插座 (15P 插座) Provincial line incremental encoder socket (15P socket)

|                      |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 信号引线<br>Signal leads | 5V | GND | A+ | B+ | Z+ | A- | B- | Z- |    |    |    |    |    |    | PE |
| 插座编号<br>SocketNumber | 2  | 3   | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 1  |

非省线增量式编码器插座 (15P 插座) Non-Provincial-line incremental encoder socket (15P socket)

|                      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 信号引线<br>Signal leads | 5V | 0V | A+ | B+ | Z+ | A- | B- | Z- | U+ | V+ | W+ | U- | V- | W- | PE |
| 插座编号<br>SocketNumbe  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 1  |

绝对式多圈编码器插座 (7P 插座) Multi-turn absolute encoder socket (7P socket)

|                      |     |    |     |    |     |     |    |
|----------------------|-----|----|-----|----|-----|-----|----|
| 信号引线<br>Signal leads | GND | VB | SD- | 0V | SD+ | +5V | PE |
| 插座编号<br>SocketNumbe  | 2   | 3  | 4   | 5  | 6   | 7   | 1  |

40、60、80、90 机座号(Frame size)

动力插座 (4P 对接) Power socket (4P butt):

|                       |   |   |   |    |
|-----------------------|---|---|---|----|
| 绕组引线<br>Winding leads | U | V | W | PE |
| 插座编号<br>Socket Number | 1 | 2 | 3 | 4  |

反馈元件插座 Feedback element socket:

省线增量式编码器插座 (9P 对接) Provincial line incremental encoder socket (9P butt)

|                       |    |     |    |    |    |    |    |    |    |
|-----------------------|----|-----|----|----|----|----|----|----|----|
| 信号引线<br>Signal leads  | 5V | GND | A+ | B+ | Z+ | A- | B- | Z- | PE |
| 插座编号<br>Socket Number | 2  | 3   | 4  | 5  | 6  | 7  | 8  | 9  | 1  |

非省线增量式编码器插座 (15P 对接) Non-Provincial-line incremental encoder socket (15P docking)

|                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 信号引线<br>Signal leads  | 5V | 0V | B+ | Z- | U+ | Z+ | U- | A+ | V+ | W+ | V- | A- | B- | W- | PE |
| 插座编号<br>Socket Number | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 1  |

绝对式多圈编码器插座 (9P 对接) Multi-turn absolute encoder socket (9P butt)

|                       |     |    |     |    |     |     |   |   |    |
|-----------------------|-----|----|-----|----|-----|-----|---|---|----|
| 信号引线<br>Signal leads  | GND | VB | SD- | 0V | SD+ | +5V |   |   | PE |
| 插座编号<br>Socket Number | 2   | 3  | 4   | 5  | 6   | 7   | 8 | 9 | 1  |

精确 节能 强劲动力

## ● LB型号命名 (model named)

电动机的型号由机座号、产品名称代号、性能参数代号等部分组成

Frame motor model from the product name code, code and other components performance parameters

80 ST — M 013 30 L B Z( T X)  
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

(1) 机座号 Frame (2) 交流永磁同步伺服电机 AC permanent magnet synchronous servo motor

(3) 反馈元件代号 (M 代表代表光电编码器、J 代表 17 位绝对值编码器)

Feedback element code (M representatives photoelectric encoder)

(4) 额定转矩: 三位数 $\times 0.1\text{Nm}$  Rated torque: three-digit  $\times 0.1\text{Nm}$

(5) 额定转速: 二位数 $\times 100\text{rpm}$  Rated speed: two-digit  $\times 100\text{rpm}$

(6) 驱动器工作电压 (VAC): L 代表: 220V Drive Voltage (VAC): L representatives: 220V

(7) 中惯量 Inertia

(8) 失电制动器: Z 代表: 有 无 代表: 无

Loss of power brake: Z Representative: Have representatives: No

(9) 输出轴: T 代表: 特殊 无 代表: 无

Output shaft: T Representative: No special representatives: No

(10) 出线方式: X 代表线缆直接式 无: 工业 (航空) 插座式

And outlet: X on behalf of direct cable-free: Industrial (aviation) socket

## ST\_LB 系列 (Series)

机座号 (mm): 40、60、80、90、110、130、150、180

Frame size: 40、60、80、90、110、130、150、180

额定转矩 (Nm): 0.15~48

Rated torque (Nm): 0.15~48

额定功率 (Kw): 0.05~7.5

Rated power (Kw): 0.05~7.5

额定转速 (rpm): 1000、1500、2000、3000

Rated speed (rpm): 1000、1500、2000、3000

转子惯量: 中惯量

Rotor inertia: inertia

反馈元件: 可选

Feedback components: Optional

失电制动器: 可配

Loss of power brake: can be equipped with

适配驱动器工作电压 (VAC): 220

Adapter driver operating voltage (VAC): 220

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## 40 系列伺服电机参数

Item: WEIDE 40 series



### ◎ 规格 Specifications

|                                            |                                                                                                                       |                        |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------|
| 电机型号<br>Motor model                        | 40ST-M00330LBX (□□)                                                                                                   | 40ST-M00130LBX (□□)    |
| 额定功率<br>Rated power (W)                    | 100                                                                                                                   | 50                     |
| 额定线电压<br>Rated line voltage (V)            | 220                                                                                                                   | 220                    |
| 额定线电流<br>Rated line current (A)            | 0.9                                                                                                                   | 0.61                   |
| 额定转速<br>Rated speed (rpm)                  | 3000                                                                                                                  | 3000                   |
| 额定力矩<br>Rated torque (N.m)                 | 0.3                                                                                                                   | 0.159                  |
| 峰值力矩<br>Peak torque (N.m)                  | 1.1                                                                                                                   | 0.557                  |
| 反电势<br>Voltage constant (V/1000r/min)      | 30                                                                                                                    | 29.5                   |
| 力矩系数<br>Torque coefficient (N.m/A)         | 0.33                                                                                                                  | 0.285                  |
| 转子惯量<br>Rotor inertia (kg.m <sup>2</sup> ) | $0.665 \times 10^{-5}$                                                                                                | $0.414 \times 10^{-5}$ |
| 绕组（线间）电阻<br>Line-Line Resistance (Ω)       | 32                                                                                                                    | 20.7                   |
| 绕组（线间）电感<br>Line-Line Inductance (mH)      | 36.5                                                                                                                  | 29.5                   |
| 电气时间常数<br>Electrical time constant (ms)    | 1.1                                                                                                                   | 1.42                   |
| 重量<br>Weight (kg)                          | 0.5                                                                                                                   | 0.3                    |
| 编码器线数<br>Encoder line number (PPR)         | 2500                                                                                                                  |                        |
| 电机绝缘等级<br>Insulation class                 | Class F                                                                                                               |                        |
| 防护等级<br>Safety class                       | IP64                                                                                                                  |                        |
| 使用环境<br>Environment                        | 环境温度: -20℃ ~ +50℃    环境湿度: 相对湿度<90% (不结霜条件)<br>Temperature: -20℃ ~ +50℃    Humidity: <90% (non-condensing conditions) |                        |

精确 节能 强劲动力

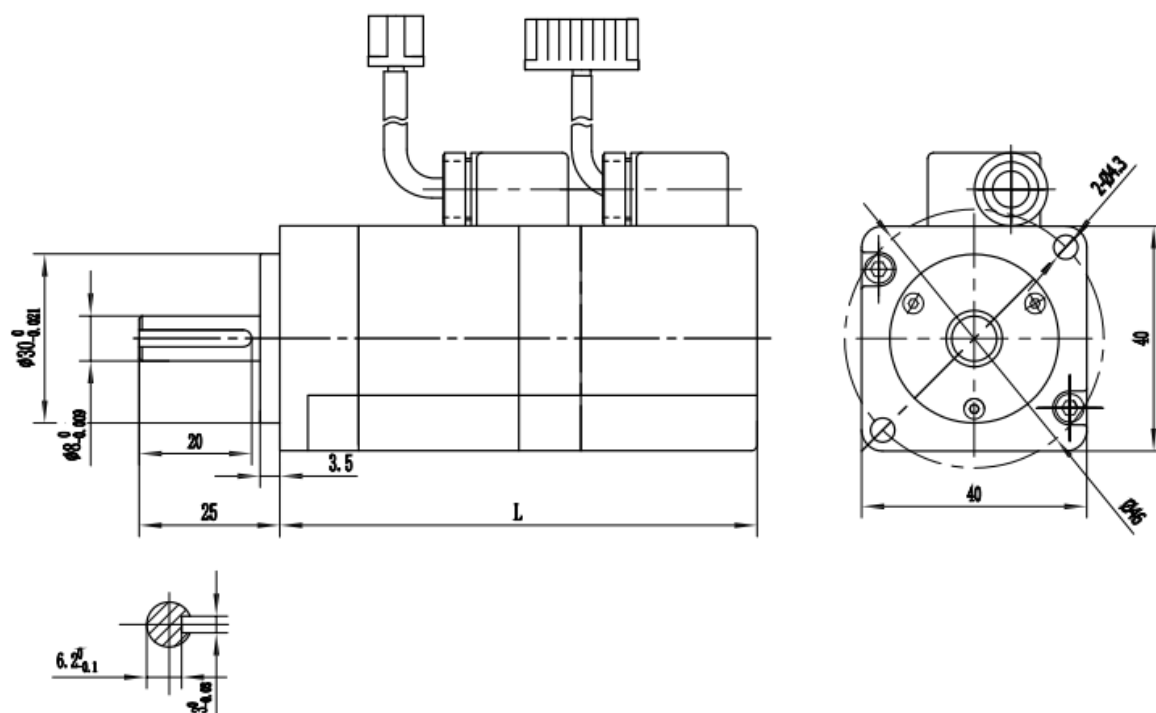
## 安装注意 Installation precaution

- 1、 安装/拆卸部位到电机轴末端时，请不要用力敲打轴，以防止敲坏轴另一端的编码器。
- 2、 尽量防止轴座振动，以防止轴承的损坏。

1. Installation/disassembly components coupled to the motor shaft end ,do not hit shaft hard To prevent the other side of motor shaft encoder was knocked out bad.
2. Striving to make the best of its shaft to prevent vibration and bearing damage.

## ⊙ 安装尺寸 Installation Dimension: unit=mm

| 型号 Model                            | 40ST-M00330LBX (□□) | 40ST-M00130LBX (□□) |
|-------------------------------------|---------------------|---------------------|
| 不带刹车尺寸 (L)<br>Without brake size(L) | 84.8                | 71.8                |



\* 以上为标准安装尺寸，可根据客户要求改动

The above is a standard installation dimensions, can alter according to customer requirements

精确 节能 强劲动力

## 60 系列伺服电机参数

Item: WEIDE 60 series

### ◎ 规格 Specifications

|                                            |                                                                                                                      |                       |                       |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|
| 电机型号<br>Motor model                        | 60ST-M00630LBX(□□)                                                                                                   | 60ST-M01330LBX(□□)    | 60ST-M01930LBX(□□)    |
| 额定功率<br>Rated power (W)                    | 200                                                                                                                  | 400                   | 600                   |
| 额定线电压<br>Rated line voltage (V)            | 220                                                                                                                  | 220                   | 220                   |
| 额定线电流<br>Rated line current (A)            | 1.2                                                                                                                  | 2.8                   | 3.5                   |
| 额定转速<br>Rated speed (rpm)                  | 3000                                                                                                                 | 3000                  | 3000                  |
| 额定力矩<br>Rated torque (N.m)                 | 0.637                                                                                                                | 1.27                  | 1.91                  |
| 峰值力矩<br>Peak torque (N.m)                  | 1.91                                                                                                                 | 3.9                   | 5.73                  |
| 反电势<br>Voltage constant (V/1000r/min)      | 30.9                                                                                                                 | 29.6                  | 34                    |
| 力矩系数<br>Torque coefficient (N.m/A)         | 0.53                                                                                                                 | 0.45                  | 0.55                  |
| 转子惯量<br>Rotor inertia (kg.m <sup>2</sup> ) | $0.175 \times 10^{-4}$                                                                                               | $0.29 \times 10^{-4}$ | $0.39 \times 10^{-4}$ |
| 绕组（线间）电阻<br>Line-Line Resistance (Ω)       | 6.18                                                                                                                 | 2.35                  | 1.93                  |
| 绕组（线间）电感<br>Line-Line Inductance (mH)      | 29.3                                                                                                                 | 14.5                  | 10.7                  |
| 电气时间常数<br>Electrical time constant (ms)    | 4.74                                                                                                                 | 6.17                  | 5.5                   |
| 重量<br>Weight (kg)                          | 1.16                                                                                                                 | 1.63                  | 2.07                  |
| 编码器线数<br>Encoder line number (PPR)         | 2500                                                                                                                 |                       |                       |
| 电机绝缘等级<br>Insulation class                 | Class F                                                                                                              |                       |                       |
| 防护等级<br>Safety class                       | IP64                                                                                                                 |                       |                       |
| 使用环境<br>Environment                        | 环境温度: -20℃ ~ +50℃    环境湿度: 相对湿度<90%（不结霜条件）<br>Temperature: -20℃ ~ +50℃    Humidity: <90% (non-condensing conditions) |                       |                       |

精确 节能 强劲动力

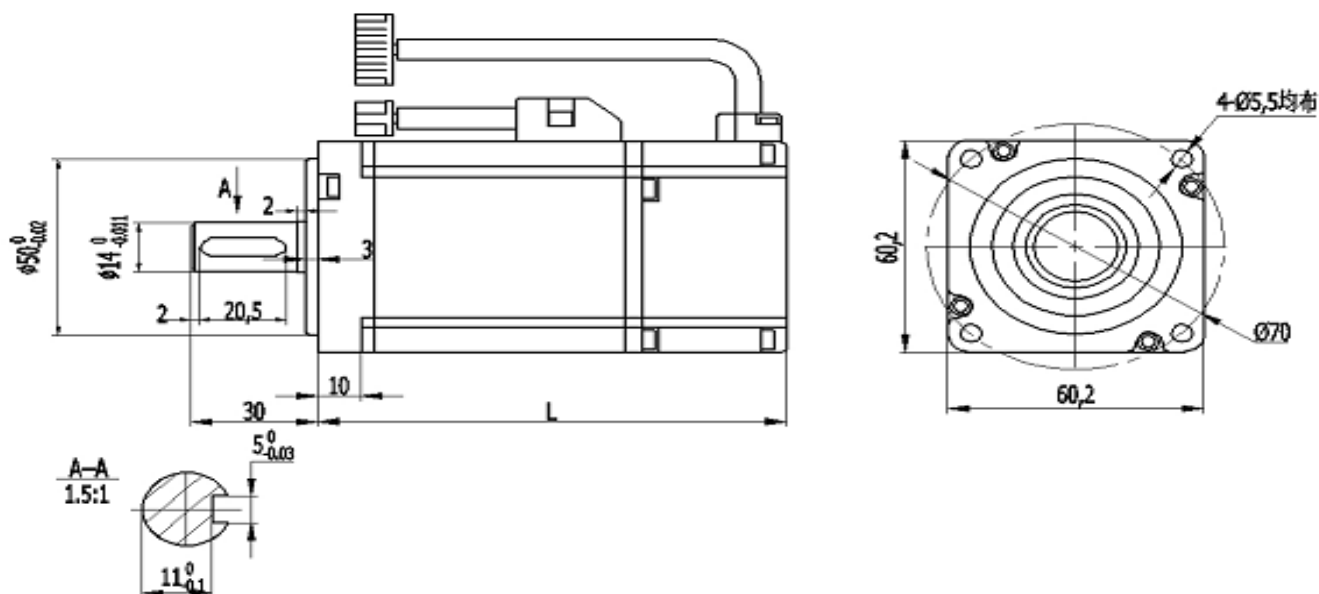
⊙ 安装注意 Installation precaution

- 3、 安装/拆卸部位到电机轴末端时，请不要用力敲打轴，以防止敲坏轴另一端的编码器。
- 4、 尽量防止轴座振动，以防止轴承的损坏。

3. Installation/disassembly components coupled to the motor shaft end ,do not hit shaft hard To prevent the other side of motor shaft encoder was knocked out bad.
4. Striving to make the best of its shaft to prevent vibration and bearing damage.

⊙ 安装尺寸 Installation Dimension: unit=mm

| 型号 Model                                  | 60ST-M00630LBX (□□) | 60ST-M01330LBX (□□) | 60ST-M01930LBX (□□) |
|-------------------------------------------|---------------------|---------------------|---------------------|
| 不带刹车尺寸 (L)<br>Without brake size(L)       | 116                 | 141                 | 169                 |
| 带刹车尺寸 (L)<br>With brake size (L)          | 164                 | 189                 | 217                 |
| 带电磁抱闸 (L)<br>With electromagneti brake(L) | 148                 | 173                 | 201                 |



\* 以上为标准安装尺寸，可根据客户要求改动

The above is a standard installation dimensions, can alter according to customer requirements

精确 节能 强劲动力

## 80 系列伺服电机参数

Item: WEIDE 80 series

### ⊙ 规格 Specifications

|                                           |                                                                                                                       |                        |                        |                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|
| 电机型号<br>Motor model                       | 80ST-M01330LBX<br>(□□)                                                                                                | 80ST-M02430LBX<br>(□□) | 80ST-M03520LBX<br>(□□) | 80ST-M04025LBX<br>(□□) |
| 额定功率<br>Rated power(KW)                   | 0.4                                                                                                                   | 0.75                   | 0.73                   | 1.0                    |
| 额定线电压<br>Rated line voltage(V)            | 220                                                                                                                   | 220                    | 220                    | 220                    |
| 额定线电流<br>Rated line current(A)            | 2.0                                                                                                                   | 3.0                    | 3.0                    | 4.4                    |
| 额定转速<br>Rated speed(rpm)                  | 3000                                                                                                                  | 3000                   | 2000                   | 2500                   |
| 额定力矩<br>Rated torque(N.m)                 | 1.27                                                                                                                  | 2.39                   | 3.5                    | 4.0                    |
| 峰值力矩<br>Peak torque(N.m)                  | 3.8                                                                                                                   | 7.1                    | 10.5                   | 12                     |
| 峰值电流<br>Peak Current(A)                   | 6.0                                                                                                                   | 9.0                    | 9.0                    | 13.2                   |
| 反电势<br>Voltageconstant(V/1000r/min)       | 40                                                                                                                    | 48                     | 71                     | 56                     |
| 力矩系数<br>Torque coeffcient(N.m/A)          | 0.64                                                                                                                  | 0.8                    | 1.17                   | 0.9                    |
| 转子惯量<br>Rotor inertia(kg.m <sup>2</sup> ) | $1.05 \times 10^{-4}$                                                                                                 | $1.82 \times 10^{-4}$  | $2.63 \times 10^{-4}$  | $2.97 \times 10^{-4}$  |
| 绕组(线间)电阻<br>Line-Line Resistance(Ω)       | 4.44                                                                                                                  | 2.88                   | 3.65                   | 1.83                   |
| 绕组(线间)电感<br>Line-Line Inductance(mH)      | 7.93                                                                                                                  | 6.4                    | 8.8                    | 4.72                   |
| 电气时间常数<br>Electrical time constant(ms)    | 1.66                                                                                                                  | 2.22                   | 2.4                    | 2.58                   |
| 重量<br>Weight(kg)                          | 1.78                                                                                                                  | 2.9                    | 3.9                    | 4.1                    |
| 编码器线数<br>Encoder line number(PPR)         | 2500                                                                                                                  |                        |                        |                        |
| 电机绝缘等级<br>Insulation class                | Class F                                                                                                               |                        |                        |                        |
| 防护等级<br>Safety class                      | IP65                                                                                                                  |                        |                        |                        |
| 使用环境<br>Environment                       | 环境温度: -20℃ ~ +50℃    环境湿度: 相对湿度<90% (不结霜条件)<br>Temperature: -20℃ ~ +50℃    Humidity: <90% (non-condensing conditions) |                        |                        |                        |

精确 节能 强劲动力

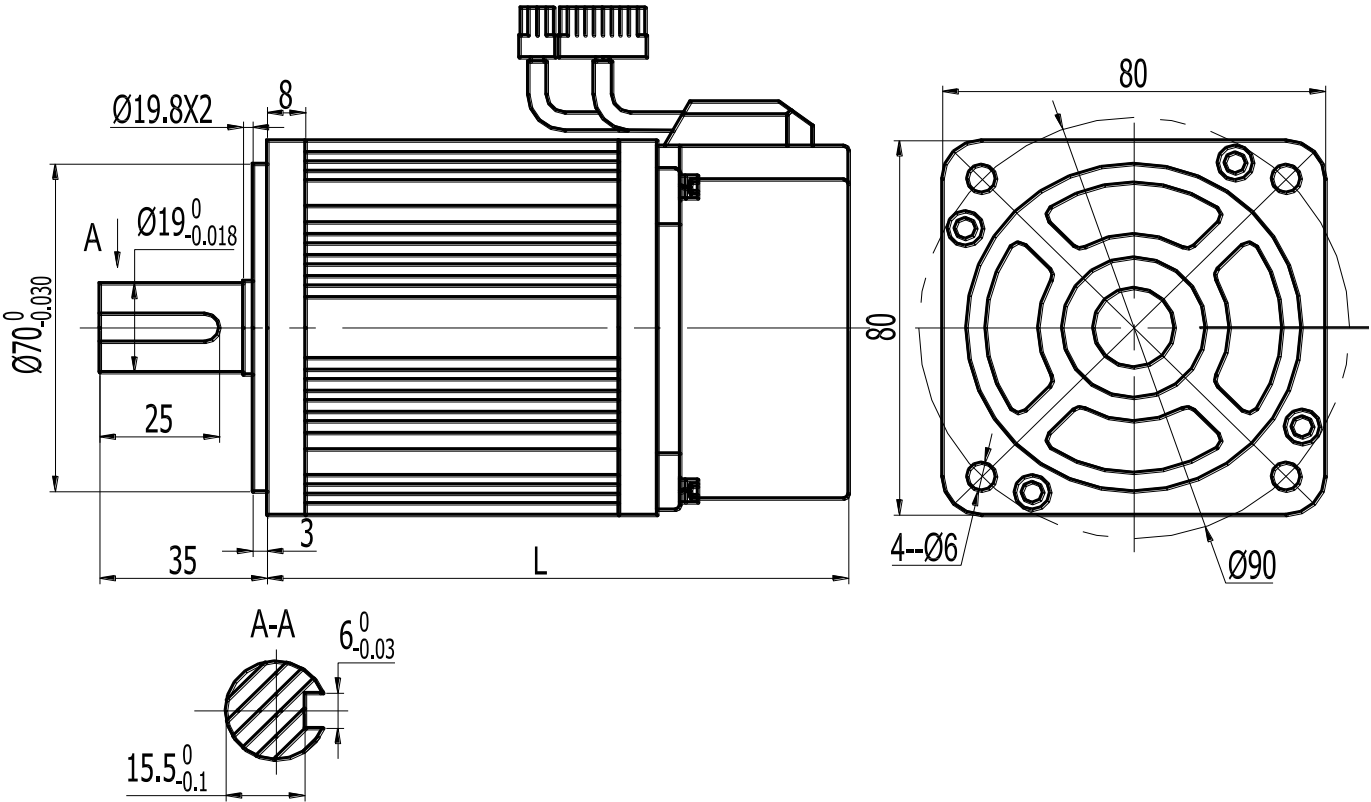
⊙ 安装注意 Installation precaution

- 1. 安装/拆卸部位到电机轴末端时，请不要用力敲打轴，以防止敲坏轴另一端的编码器。
- 2. 尽量防止轴座振动，以防止轴承的损坏。

- 1. Installation/disassembly components coupled to the motor shaft end ,do not hit shaft hard To prevent the other side of motor shaft encoder was knocked out bad.
- 2. Striving to make the best of its shaft to prevent vibration and bearing damage.

⊙ 安装尺寸 Installation Dimension: unit=mm

| 型号 Model            | 不带刹车尺寸 (L)<br>Without brake size (L) | 带电磁抱闸 (L)<br>With electromagnetic brake (L) | 带永磁包闸 (L)<br>With permanent magnet brake<br>package (L) |
|---------------------|--------------------------------------|---------------------------------------------|---------------------------------------------------------|
| 80ST-M01330LBX (□□) | 124                                  | 164                                         | 178                                                     |
| 80ST-M02430LBX (□□) | 151                                  | 191                                         | 205                                                     |
| 80ST-M03520LBX (□□) | 179                                  | 219                                         | 233                                                     |
| 80ST-M04025LBX (□□) | 191                                  | 231                                         | 245                                                     |



\* 以上为标准安装尺寸，可根据客户要求改动

The above is a standard installation dimensions, can alter according to customer requirements

精确 节能 强劲动力

90 系列伺服电机参数

Item: WEIDE 90 series

⊙ 规格 Specifications

|                                            |                                                                                                                       |                      |                      |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|
| 电机型号<br>Motor model                        | 90ST-M02430LBX (□□)                                                                                                   | 90ST-M03520LBX (□□)  | 90ST-M04025LBX (□□)  |
| 额定功率<br>Rated power (KW)                   | 0.75                                                                                                                  | 0.73                 | 1.0                  |
| 额定线电压<br>Rated line voltage (V)            | 220                                                                                                                   | 220                  | 220                  |
| 额定线电流<br>Rated line current (A)            | 3                                                                                                                     | 3.0                  | 4                    |
| 额定转速<br>Rated speed (rpm)                  | 3000                                                                                                                  | 2000                 | 2500                 |
| 额定力矩<br>Rated torque (N.m)                 | 2.4                                                                                                                   | 3.5                  | 4                    |
| 峰值力矩<br>Peak torque (N.m)                  | 7.1                                                                                                                   | 10.5                 | 12                   |
| 峰值电流<br>Peak Current (A)                   | 9                                                                                                                     | 9                    | 12                   |
| 反电势<br>Voltage constant (V/1000r/min)      | 51                                                                                                                    | 67                   | 60                   |
| 力矩系数<br>Torque coefficient (N.m/A)         | 0.8                                                                                                                   | 1.2                  | 1.0                  |
| 转子惯量<br>Rotor inertia (kg.m <sup>2</sup> ) | $2.45 \times 10^{-4}$                                                                                                 | $3.4 \times 10^{-4}$ | $3.7 \times 10^{-4}$ |
| 绕组（线间）电阻<br>Line-Line Resistance (Ω)       | 3.2                                                                                                                   | 4.06                 | 2.69                 |
| 绕组（线间）电感<br>Line-Line Inductance (mH)      | 7.0                                                                                                                   | 9.7                  | 6.21                 |
| 电气时间常数<br>Electrical time constant (ms)    | 2.2                                                                                                                   | 2.39                 | 2.3                  |
| 重量<br>Weight (kg)                          | 3.1                                                                                                                   | 3.9                  | 4.2                  |
| 编码器线数<br>Encoder line number (PPR)         | 2500                                                                                                                  | 2500                 | 2500                 |
| 电机绝缘等级<br>Insulation class                 | Class F                                                                                                               |                      |                      |
| 防护等级<br>Safety class                       | IP65                                                                                                                  |                      |                      |
| 使用环境<br>Environment                        | 环境温度: -20℃ ~ +50℃    环境湿度: 相对湿度<90% (不结霜条件)<br>Temperature: -20℃ ~ +50℃    Humidity: <90% (non-condensing conditions) |                      |                      |

精确    节能    强劲动力

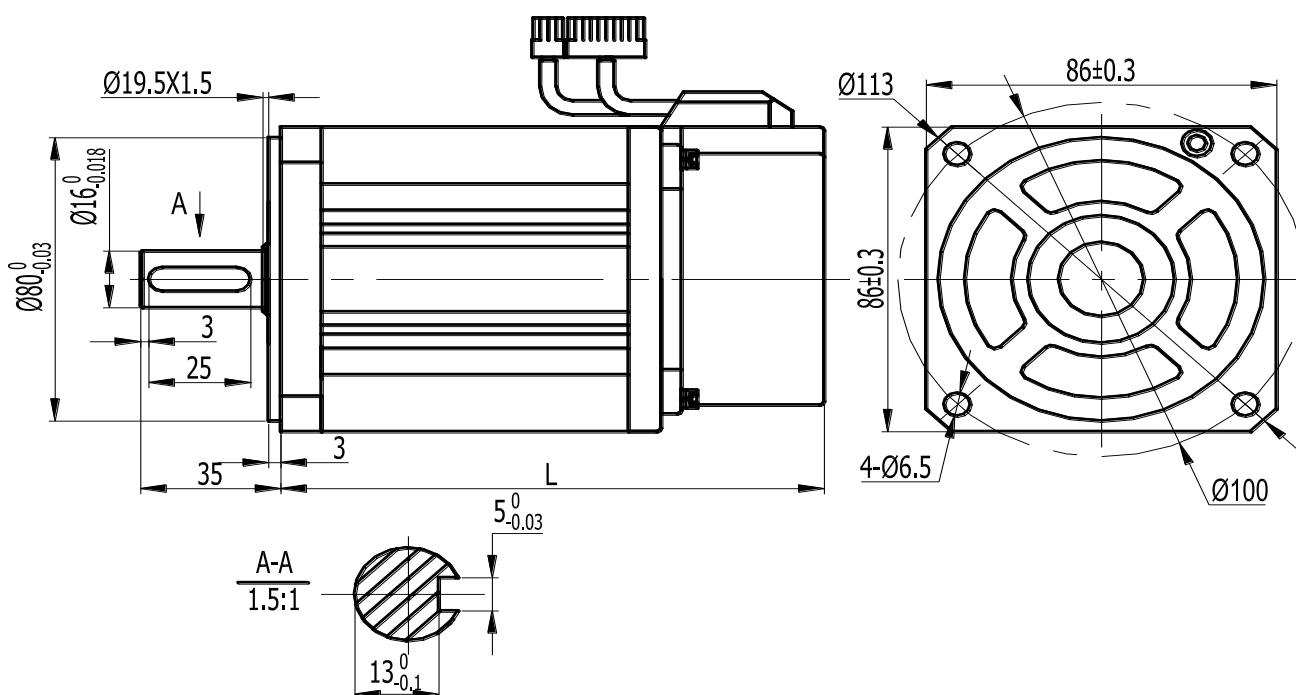
⊙ 安装注意 Installation precaution

1. 安装/拆卸部位到电机轴末端时，请不要用力敲打轴，以防止敲坏轴另一端的编码器。
2. 尽量防止轴座振动，以防止轴承的损坏。

1. Installation/disassembly components coupled to the motor shaft end ,do not hit shaft hard To prevent the other side of motor shaft encoder was knocked out bad.
2. Striving to make the best of its shaft to prevent vibration and bearing damage.

⊙ 安装尺寸 Installation Dimension: unit=mm

| 型号 Model            | 不带刹车尺寸 (L)<br>Without brake size (L) | 带电磁抱闸 (L)<br>With electromagnetic brake (L) | 带永磁包闸 (L)<br>With permanent magnet brake<br>package (L) |
|---------------------|--------------------------------------|---------------------------------------------|---------------------------------------------------------|
| 90ST-M02430LBX (□□) | 150                                  | 198                                         | 201                                                     |
| 90ST-M03520LBX (□□) | 172                                  | 220                                         | 229                                                     |
| 90ST-M04025LBX (□□) | 182                                  | 230                                         | 239                                                     |



\* 以上为标准安装尺寸，可根据客户要求改动

The above is a standard installation dimensions, can alter according to customer requirements

精确 节能 强劲动力

## 110 系列伺服电机参数

Item: WEIDE 110 series

### ◎ 规格 Specifications

|                                            |                                                                                                                 |                       |                       |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|
| 电机型号<br>Motor model                        | 110ST-M02030LB (□□)                                                                                             | 110ST-M04020LB (□□)   | 110ST-M04030LB (□□)   |
| 额定功率<br>Rated power (KW)                   | 0.6                                                                                                             | 0.8                   | 1.2                   |
| 额定线电压<br>Rated line voltage (V)            | 220                                                                                                             | 220                   | 220                   |
| 额定线电流<br>Rated line current (A)            | 2.5                                                                                                             | 3.5                   | 5.0                   |
| 额定转速<br>Rated speed (rpm)                  | 3000                                                                                                            | 2000                  | 3000                  |
| 额定力矩<br>Rated torque (N.m)                 | 2                                                                                                               | 4                     | 4                     |
| 峰值力矩<br>Peak torque (N.m)                  | 6                                                                                                               | 12                    | 12                    |
| 反电势<br>Voltage constant (V/1000r/min)      | 56                                                                                                              | 79                    | 54                    |
| 力矩系数<br>Torque coefficient (N.m/A)         | 0.8                                                                                                             | 1.14                  | 0.8                   |
| 转子惯量<br>Rotor inertia (kg.m <sup>2</sup> ) | $0.31 \times 10^{-3}$                                                                                           | $0.54 \times 10^{-3}$ | $0.54 \times 10^{-3}$ |
| 绕组 (线间) 电阻<br>Line-Line Resistance (Ω)     | 3.6                                                                                                             | 2.41                  | 1.09                  |
| 绕组 (线间) 电感<br>Line-Line Inductance (mH)    | 8.32                                                                                                            | 7.3                   | 3.3                   |
| 电气时间常数<br>Electrical time constant (ms)    | 2.3                                                                                                             | 3                     | 3.0                   |
| 重量<br>Weight (kg)                          | 4.5                                                                                                             | 6                     | 6                     |
| 编码器线数<br>Encoder line number (PPR)         | 2500                                                                                                            |                       |                       |
| 电机绝缘等级<br>Insulation class                 | Class F                                                                                                         |                       |                       |
| 防护等级<br>Safety class                       | IP65                                                                                                            |                       |                       |
| 使用环境<br>Environment                        | 环境温度: -20℃ ~ +50℃ 环境湿度: 相对湿度<90% (不结霜条件)<br>Temperature: -20℃ ~ +50℃ Humidity: <90% (non-condensing conditions) |                       |                       |

精确 节能 强劲动力

## 110 系列伺服电机参数

Item: WEIDE 110 series

### ◎ 规格 Specifications

|                                            |                                                                                                                 |                       |                       |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|
| 电机型号<br>Motor model                        | 110ST-M05030 LB (□□)                                                                                            | 110ST-M06020 LB (□□)  | 110ST-M06030 LB (□□)  |
| 额定功率<br>Rated power (KW)                   | 1.5                                                                                                             | 1.2                   | 1.8                   |
| 额定线电压<br>Rated line voltage (V)            | 220                                                                                                             | 220                   | 220                   |
| 额定线电流<br>Rated line current (A)            | 6.0                                                                                                             | 4.5                   | 6.0                   |
| 额定转速<br>Rated speed (rpm)                  | 3000                                                                                                            | 2000                  | 3000                  |
| 额定力矩<br>Rated torque (N.m)                 | 5                                                                                                               | 6                     | 6                     |
| 峰值力矩<br>Peak torque (N.m)                  | 15                                                                                                              | 12                    | 18                    |
| 反电势<br>Voltage constant (V/1000r/min)      | 62                                                                                                              | 83                    | 60                    |
| 力矩系数<br>Torque coefficient (N.m/A)         | 0.83                                                                                                            | 1.3                   | 1.0                   |
| 转子惯量<br>Rotor inertia (kg.m <sup>2</sup> ) | $0.63 \times 10^{-3}$                                                                                           | $0.76 \times 10^{-3}$ | $0.76 \times 10^{-3}$ |
| 绕组 (线间) 电阻<br>Line-Line Resistance (Ω)     | 1.03                                                                                                            | 1.46                  | 0.81                  |
| 绕组 (线间) 电感<br>Line-Line Inductance (mH)    | 3.43                                                                                                            | 4.7                   | 2.59                  |
| 电气时间常数<br>Electrical time constant (ms)    | 3.33                                                                                                            | 3.2                   | 3.2                   |
| 重量<br>Weight (kg)                          | 6.8                                                                                                             | 7.9                   | 7.9                   |
| 编码器线数<br>Encoder line number (PPR)         | 2500                                                                                                            |                       |                       |
| 电机绝缘等级<br>Insulation class                 | Class F                                                                                                         |                       |                       |
| 防护等级<br>Safety class                       | IP65                                                                                                            |                       |                       |
| 使用环境<br>Environment                        | 环境温度: -20℃ ~ +50℃ 环境湿度: 相对湿度<90% (不结霜条件)<br>Temperature: -20℃ ~ +50℃ Humidity: <90% (non-condensing conditions) |                       |                       |

精确 节能 强劲动力

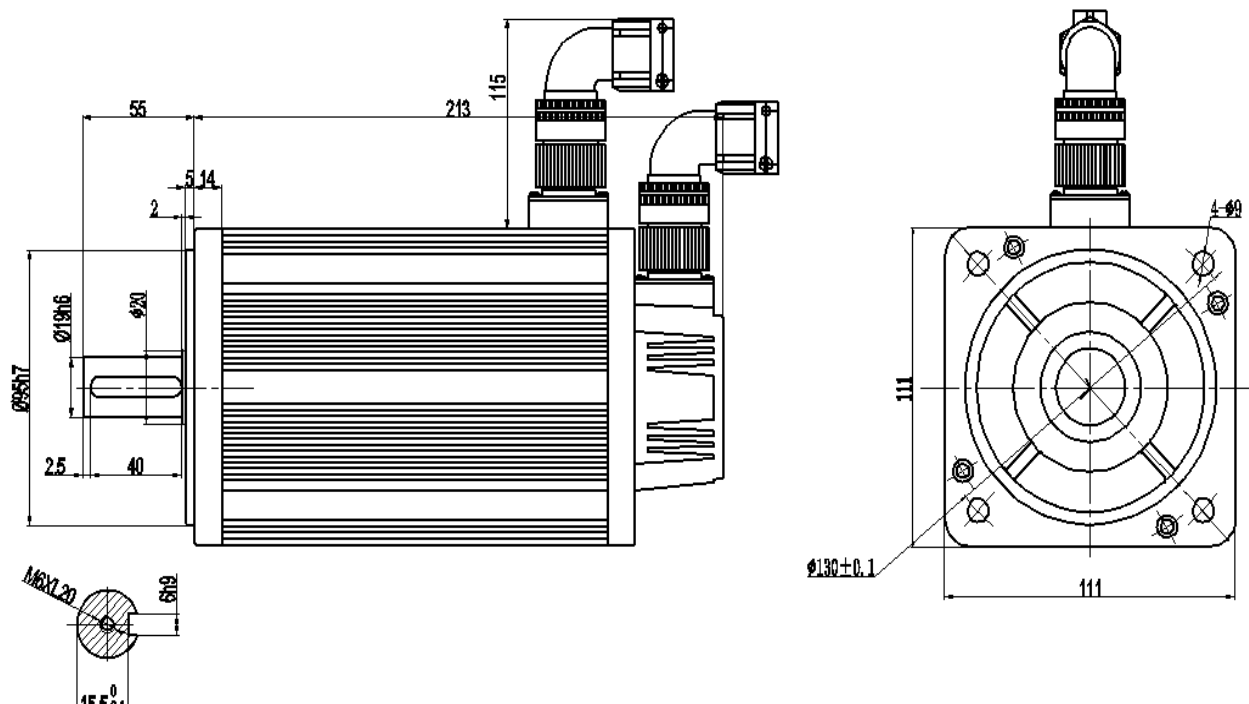
⊙ 安装注意 Installation precaution

1. 安装/拆卸部位到电机轴末端时, 请不要用力敲打轴, 以防止敲坏轴另一端的编码器。
2. 尽量防止轴座振动, 以防止轴承的损坏。

1. Installation/disassembly components coupled to the motor shaft end ,do not hit shaft hard To prevent the other side of motor shaft encoder was knocked out bad.
2. Striving to make the best of its shaft to prevent vibration and bearing damage.

⊙ 安装尺寸 Installation Dimension: unit=mm

|                                                      | 110 系列 (series) |       |       |       |
|------------------------------------------------------|-----------------|-------|-------|-------|
| 额定力矩<br>Rated torque (N.m)                           | 2 N.m           | 4 N.m | 5 N.m | 6 N.m |
| 不带刹车尺寸 (L)<br>Without brake size (L)                 | 159             | 189   | 204   | 219   |
| 带电磁抱闸 (L)<br>With electromagnetic brake (L)          | 233             | 263   | 278   | 293   |
| 带永磁包闸 (L)<br>With permanent magnet brake package (L) | 215             | 245   | 260   | 275   |



\* 以上为标准安装尺寸, 可根据客户要求改动

The above is a standard installation dimensions, can alter according to customer requirements

精确 节能 强劲动力

## 130 L 系列伺服电机参数

Item: WEIDE 130 L series

### ◎ 规格 Specifications

|                                            |                                                                                                                       |                         |                         |                         |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|
| 电机型号<br>Motor model                        | 130ST-M04025<br>LB (□□)                                                                                               | 130ST-M05025<br>LB (□□) | 130ST-M06025<br>LB (□□) | 130ST-M07725<br>LB (□□) |
| 额定功率<br>Rated power (KW)                   | 1.0                                                                                                                   | 1.3                     | 1.5                     | 2.0                     |
| 额定线电压<br>Rated line voltage (V)            | 220                                                                                                                   | 220                     | 220                     | 220                     |
| 额定线电流<br>Rated line current (A)            | 4.0                                                                                                                   | 5.0                     | 6.0                     | 7.5                     |
| 额定转速<br>Rated speed (rpm)                  | 2500                                                                                                                  | 2500                    | 2500                    | 2500                    |
| 额定力矩<br>Rated torque (N.m)                 | 4                                                                                                                     | 5.0                     | 6                       | 7.7                     |
| 峰值力矩<br>Peak torque (N.m)                  | 12                                                                                                                    | 15                      | 18                      | 22                      |
| 反电势<br>Voltage constant (V/1000r/min)      | 72                                                                                                                    | 68                      | 65                      | 68                      |
| 力矩系数<br>Torque coefficient (N.m/A)         | 1.0                                                                                                                   | 1.0                     | 1.0                     | 1.03                    |
| 转子惯量<br>Rotor inertia (kg.m <sup>2</sup> ) | $0.85 \times 10^{-3}$                                                                                                 | $1.06 \times 10^{-3}$   | $1.26 \times 10^{-3}$   | $1.53 \times 10^{-3}$   |
| 绕组(线间)电阻<br>Line-Line Resistance (Ω)       | 2.76                                                                                                                  | 1.84                    | 1.21                    | 1.01                    |
| 绕组(线间)电感<br>Line-Line Inductance (mH)      | 6.42                                                                                                                  | 4.9                     | 3.87                    | 2.94                    |
| 电气时间常数<br>Electrical time constant (ms)    | 2.32                                                                                                                  | 2.66                    | 3.26                    | 3.80                    |
| 重量<br>Weight (kg)                          | 6.2                                                                                                                   | 6.6                     | 7.4                     | 8.3                     |
| 编码器线数<br>Encoder line number (PPR)         | 2500                                                                                                                  |                         |                         |                         |
| 电机绝缘等级<br>Insulation class                 | Class F                                                                                                               |                         |                         |                         |
| 防护等级<br>Safety class                       | IP65                                                                                                                  |                         |                         |                         |
| 使用环境<br>Environment                        | 环境温度: -20℃ ~ +50℃    环境湿度: 相对湿度<90% (不结霜条件)<br>Temperature: -20℃ ~ +50℃    Humidity: <90% (non-condensing conditions) |                         |                         |                         |

精确 节能 强劲动力

130 L 系列伺服电机参数

Item: WEIDE 130 L series

⊙ 规格 Specifications

|                                            |                                                                                                                      |                         |                         |                         |                         |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 电机型号<br>Motor model                        | 130ST-M10010<br>LB (□□)                                                                                              | 130ST-M10015<br>LB (□□) | 130ST-M10025<br>LB (□□) | 130ST-M15015<br>LB (□□) | 130ST-M15025<br>LB (□□) |
| 额定功率<br>Rated power (KW)                   | 1.0                                                                                                                  | 1.5                     | 2.6                     | 2.3                     | 3.8                     |
| 额定线电压<br>Rated line voltage (V)            | 220                                                                                                                  | 220                     | 220                     | 220                     | 220                     |
| 额定线电流<br>Rated line current (A)            | 4.5                                                                                                                  | 6.0                     | 10                      | 9.5                     | 13.5                    |
| 额定转速<br>Rated speed (rpm)                  | 1000                                                                                                                 | 1500                    | 2500                    | 1500                    | 2500                    |
| 额定力矩<br>Rated torque (N.m)                 | 10                                                                                                                   | 10                      | 10                      | 15                      | 15                      |
| 峰值力矩<br>Peak torque (N.m)                  | 20                                                                                                                   | 25                      | 25                      | 30                      | 30                      |
| 反电势<br>Voltage constant (V/1000r/min)      | 140                                                                                                                  | 103                     | 70                      | 114                     | 67                      |
| 力矩系数<br>Torque coefficient (N.m/A)         | 2.2                                                                                                                  | 1.67                    | 1.0                     | 1.58                    | 1.11                    |
| 转子惯量<br>Rotor inertia (kg.m <sup>2</sup> ) | 1.94×10 <sup>-3</sup>                                                                                                | 1.94×10 <sup>-3</sup>   | 1.94×10 <sup>-3</sup>   | 2.77×10 <sup>-3</sup>   | 2.77×10 <sup>-3</sup>   |
| 绕组（线间）电阻<br>Line-Line Resistance (Ω)       | 2.7                                                                                                                  | 1.5                     | 0.73                    | 1.1                     | 0.49                    |
| 绕组（线间）电感<br>Line-Line Inductance (mH)      | 8.8                                                                                                                  | 4.37                    | 2.45                    | 4.45                    | 1.68                    |
| 电气时间常数<br>Electrical time constant (ms)    | 3.26                                                                                                                 | 2.91                    | 3.36                    | 4.05                    | 3.43                    |
| 重量<br>Weight (kg)                          | 10.2                                                                                                                 | 10.2                    | 9.8                     | 12.6                    | 11.7                    |
| 编码器线数<br>Encoder line number (PPR)         | 2500                                                                                                                 |                         |                         |                         |                         |
| 电机绝缘等级<br>Insulation class                 | Class F                                                                                                              |                         |                         |                         |                         |
| 防护等级<br>Safety class                       | IP65                                                                                                                 |                         |                         |                         |                         |
| 使用环境<br>Environment                        | 环境温度: -20℃ ~ +50℃    环境湿度: 相对湿度<90%（不结霜条件）<br>Temperature: -20℃ ~ +50℃    Humidity: <90% (non-condensing conditions) |                         |                         |                         |                         |

精确    节能    强劲动力

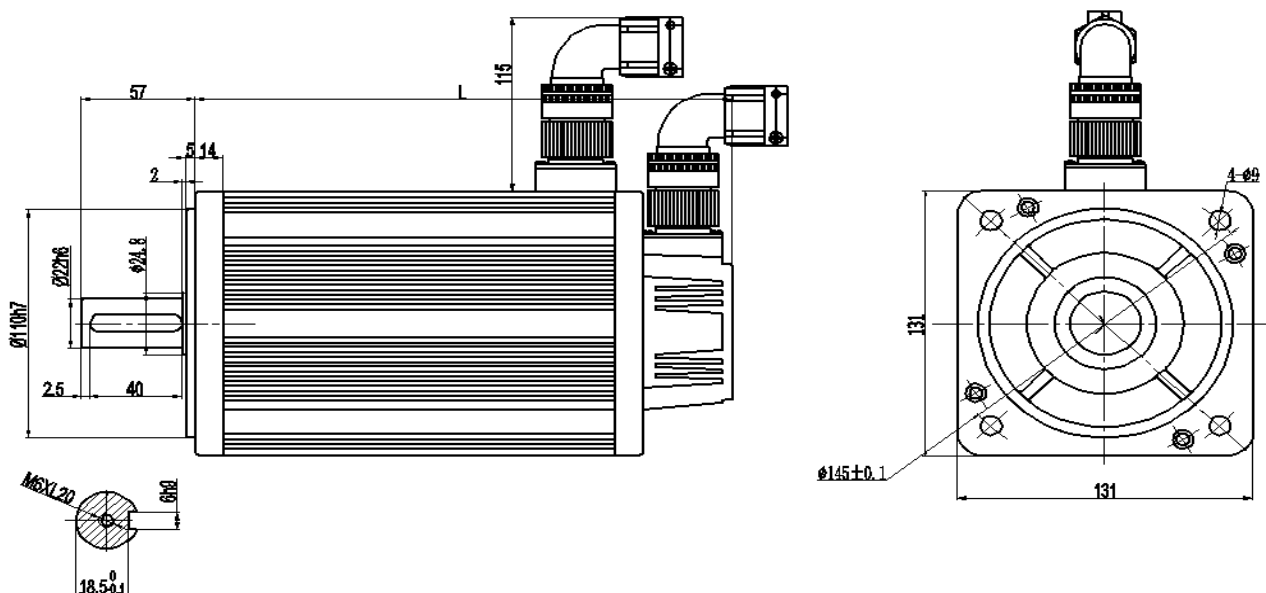
⊙ 安装注意 Installation precaution

1. 安装/拆卸部位到电机轴末端时，请不要用力敲打轴，以防止敲坏轴另一端的编码器。
2. 尽量防止轴座振动，以防止轴承的损坏。

1. Installation/disassembly components coupled to the motor shaft end ,do not hit shaft hard To prevent the other side of motor shaft encoder was knocked out bad.
- 2.Striving to make the best of its shaft to prevent vibration and bearing damage.

⊙ 安装尺寸 Installation Dimension: unit=mm

|                                                         | 130 系列（series） |          |          |            |         |         |         |         |         |     |
|---------------------------------------------------------|----------------|----------|----------|------------|---------|---------|---------|---------|---------|-----|
| 额定力矩<br>Rated torque(N.m)                               | 4<br>N.m       | 5<br>N.m | 6<br>N.m | 7.7<br>N.m | 10 N.m  |         |         | 15 N.m  |         |     |
|                                                         |                |          |          |            | 1000rpm | 1500rpm | 2500rpm | 1500rpm | 2500rpm |     |
| 不带刹车尺寸（L）<br>Without brake size(L)                      | 166            | 171      | 179      | 192        | 213     |         |         | 209     | 241     | 231 |
| 带电磁抱闸 （L）<br>With electromagnetic<br>brake (L)          | 223            | 228      | 236      | 249        | 294     |         |         | 290     | 322     | 312 |
| 带永磁抱闸 （L）<br>With permanent magnet<br>brake package （L） | 236            | 241      | 249      | 262        | 283     |         |         | 279     | 311     | 301 |



\* 以上为标准安装尺寸，可根据客户要求改动

The above is a standard installation dimensions, can alter according to customer requirements

精确 节能 强劲动力

## 150 L 系列伺服电机参数

Item: NAHI 150 L series

### ◎ 规格 Specifications

|                                            |                                                                                                                       |                         |                         |                         |                         |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 电机型号<br>Motor model                        | 150ST-M15025<br>LB (□□)                                                                                               | 150ST-M15020<br>LB (□□) | 150ST-M18020<br>LB (□□) | 150ST-M23020<br>LB (□□) | 150ST-M27020<br>LB (□□) |
| 额定功率<br>Rated power (KW)                   | 3.8                                                                                                                   | 3.0                     | 3.6                     | 4.7                     | 5.5                     |
| 额定线电压<br>Rated line voltage (V)            | 220                                                                                                                   | 220                     | 220                     | 220                     | 220                     |
| 额定线电流<br>Rated line current (A)            | 17                                                                                                                    | 14                      | 17                      | 21                      | 24                      |
| 额定转速<br>Rated speed (rpm)                  | 2500                                                                                                                  | 2000                    | 2000                    | 2000                    | 2000                    |
| 额定力矩<br>Rated torque (N.m)                 | 15                                                                                                                    | 15                      | 18                      | 23                      | 27                      |
| 峰值力矩<br>Peak torque (N.m)                  | 30                                                                                                                    | 30                      | 36                      | 46                      | 54                      |
| 反电势<br>Voltage constant (V/1000r/min)      | 59                                                                                                                    | 70                      | 71                      | 72                      | 64                      |
| 力矩系数<br>Torque coefficient (N.m/A)         | 0.88                                                                                                                  | 1.07                    | 1.05                    | 1.09                    | 1.1                     |
| 转子惯量<br>Rotor inertia (kg.m <sup>2</sup> ) | $3.88 \times 10^{-3}$                                                                                                 | $3.88 \times 10^{-3}$   | $4.6 \times 10^{-3}$    | $5.8 \times 10^{-3}$    | $6.8 \times 10^{-3}$    |
| 绕组（线间）电阻<br>Line-Line Resistance (Ω)       | 0.23                                                                                                                  | 0.34                    | 0.255                   | 0.2                     | 0.125                   |
| 绕组（线间）电感<br>Line-Line Inductance (mH)      | 1.08                                                                                                                  | 1.55                    | 1.3                     | 1.06                    | 0.7                     |
| 电气时间常数<br>Electrical time constant (ms)    | 4.7                                                                                                                   | 4.56                    | 5.1                     | 5.3                     | 5.6                     |
| 重量<br>Weight (kg)                          | 15                                                                                                                    | 15                      | 17                      | 21                      | 23                      |
| 编码器线数<br>Encoder line number (PPR)         | 2500                                                                                                                  |                         |                         |                         |                         |
| 电机绝缘等级<br>Insulation class                 | Class F                                                                                                               |                         |                         |                         |                         |
| 防护等级<br>Safety class                       | IP65                                                                                                                  |                         |                         |                         |                         |
| 使用环境<br>Environment                        | 环境温度: -20℃ ~ +50℃    环境湿度: 相对湿度<90% (不结霜条件)<br>Temperature: -20℃ ~ +50℃    Humidity: <90% (non-condensing conditions) |                         |                         |                         |                         |

● 其它要求请联系我们的技术部

精确 节能 强劲动力

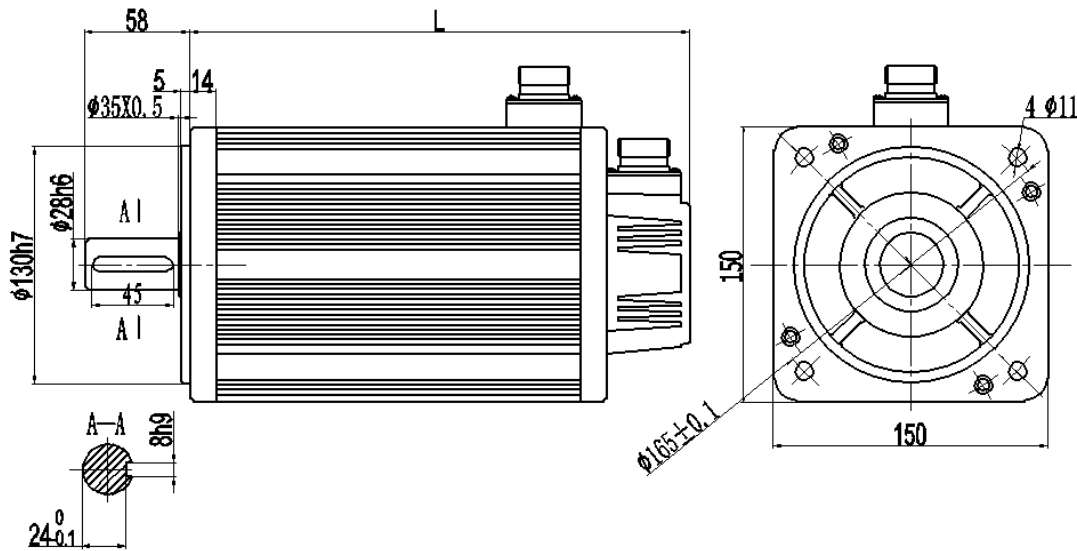
◎ 安装注意 Installation precaution

- 1. 安装/拆卸部位到电机轴末端时，请不要用力敲打轴，以防止敲坏轴另一端的编码器。
- 2. 尽量防止轴座振动，以防止轴承的损坏。

- 1. Installation/disassembly components coupled to the motor shaft end ,do not hit shaft hard To prevent the other side of motor shaft encoder was knocked out bad.
- 2. Striving to make the best of its shaft to prevent vibration and bearing damage.

◎ 安装尺寸 Installation Dimension: unit=mm

|                                                | 150 系列 (series) |         |       |       |       |
|------------------------------------------------|-----------------|---------|-------|-------|-------|
| 额定力矩<br>Rated torque (N.m)                     | 15N.m           |         | 18N.m | 23N.m | 27N.m |
|                                                | 2500rpm         | 2000rpm |       |       |       |
| 不带刹车尺寸 (L)<br>Without brake size(L)            | 230             | 230     | 248   | 278   | 302   |
| 带电磁抱闸 (L)<br>With electromagnetic<br>brake (L) | 303             | 303     | 321   | 351   | 375   |



\* 以上为标准安装尺寸，可根据客户要求改动  
The above is a standard installation dimensions, can alter according to customer requirements

精确 节能 强劲动力

## 180 L 系列伺服电机参数

Item: WEIDE 180 L series

### ◎ 规格 Specifications

|                                           |                                                                                                                       |                        |                        |                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|
| 电机型号<br>Motor model                       | 180ST-M17215LB<br>(□□)                                                                                                | 180ST-M19015LB<br>(□□) | 180ST-M21520LB<br>(□□) | 180ST-M27010LB<br>(□□) |
| 额定功率<br>Rated power(KW)                   | 2.7                                                                                                                   | 3.0                    | 4.5                    | 2.9                    |
| 额定线电压<br>Rated line voltage(V)            | 220                                                                                                                   | 220                    | 220                    | 220                    |
| 额定线电流<br>Rated line current(A)            | 10.5                                                                                                                  | 12                     | 16                     | 12                     |
| 额定转速<br>Rated speed(rpm)                  | 1500                                                                                                                  | 1500                   | 2000                   | 1000                   |
| 额定力矩<br>Rated torque(N.m)                 | 17.2                                                                                                                  | 19                     | 21.5                   | 27                     |
| 峰值力矩<br>Peak torque(N.m)                  | 43                                                                                                                    | 47                     | 53                     | 67                     |
| 反电势<br>Voltageconstant(V/1000r/min)       | 112                                                                                                                   | 97                     | 84                     | 138                    |
| 力矩系数<br>Torque coefficient(N.m/A)         | 1.64                                                                                                                  | 1.58                   | 1.34                   | 2.25                   |
| 转子惯量<br>Rotor inertia(kg.m <sup>2</sup> ) | $3.4 \times 10^{-3}$                                                                                                  | $3.8 \times 10^{-3}$   | $4.7 \times 10^{-3}$   | $6.1 \times 10^{-3}$   |
| 绕组(线间)电阻<br>Line-Line Resistance(Ω)       | 0.7                                                                                                                   | 0.4                    | 0.24                   | 0.48                   |
| 绕组(线间)电感<br>Line-Line Inductance(mH)      | 3.5                                                                                                                   | 2.42                   | 1.45                   | 3.26                   |
| 电气时间常数<br>Electrical time constant(ms)    | 5                                                                                                                     | 6                      | 6                      | 6.79                   |
| 重量<br>Weight(kg)                          | 19.5                                                                                                                  | 20.5                   | 22.2                   | 25.5                   |
| 编码器线数<br>Encoder line number(PPR)         | 2500                                                                                                                  |                        |                        |                        |
| 电机绝缘等级<br>Insulation class                | Class F                                                                                                               |                        |                        |                        |
| 防护等级<br>Safety class                      | IP65                                                                                                                  |                        |                        |                        |
| 使用环境<br>Environment                       | 环境温度: -20℃ ~ +50℃    环境湿度: 相对湿度<90% (不结霜条件)<br>Temperature: -20℃ ~ +50℃    Humidity: <90% (non-condensing conditions) |                        |                        |                        |

精确 节能 强劲动力

## 180 L 系列伺服电机参数

Item: WEIDE 180 L series

### ◎ 规格 Specifications

|                                           |                                                                                                                       |                        |                        |                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|
| 电机型号<br>Motor model                       | 180ST-M27015LB<br>(□□)                                                                                                | 180ST-M35010LB<br>(□□) | 180ST-M35015LB<br>(□□) | 180ST-M48015LB<br>(□□) |
| 额定功率<br>Rated power(KW)                   | 4.3                                                                                                                   | 3.7                    | 5.5                    | 7.5                    |
| 额定线电压<br>Rated line voltage(V)            | 220                                                                                                                   | 220                    | 220                    | 220                    |
| 额定线电流<br>Rated line current(A)            | 16                                                                                                                    | 16                     | 19                     | 32                     |
| 额定转速<br>Rated speed(rpm)                  | 1500                                                                                                                  | 1000                   | 1500                   | 1500                   |
| 额定力矩<br>Rated torque(N.m)                 | 27                                                                                                                    | 35                     | 35                     | 48                     |
| 峰值力矩<br>Peak torque(N.m)                  | 67                                                                                                                    | 70                     | 70                     | 96                     |
| 反电势<br>Voltageconstant(V/1000r/min)       | 103                                                                                                                   | 134                    | 113                    | 94                     |
| 力矩系数<br>Torque coefficient(N.m/A)         | 1.69                                                                                                                  | 2.2                    | 1.84                   | 1.5                    |
| 转子惯量<br>Rotor inertia(kg.m <sup>2</sup> ) | $6.1 \times 10^{-3}$                                                                                                  | $8.6 \times 10^{-3}$   | $8.6 \times 10^{-3}$   | $9.5 \times 10^{-3}$   |
| 绕组(线间)电阻<br>Line-Line Resistance(Ω)       | 0.28                                                                                                                  | 0.31                   | 0.21                   | 0.104                  |
| 绕组(线间)电感<br>Line-Line Inductance(mH)      | 1.74                                                                                                                  | 3.28                   | 1.57                   | 0.77                   |
| 电气时间常数<br>Electrical time constant (ms)   | 6.2                                                                                                                   | 10.58                  | 7.47                   | 7.4                    |
| 重量<br>Weight(kg)                          | 25.5                                                                                                                  | 30.5                   | 30.5                   | 40                     |
| 编码器线数<br>Encoder line number(PPR)         | 2500                                                                                                                  |                        |                        |                        |
| 电机绝缘等级<br>Insulation class                | Class F                                                                                                               |                        |                        |                        |
| 防护等级<br>Safety class                      | IP65                                                                                                                  |                        |                        |                        |
| 使用环境<br>Environment                       | 环境温度: -20℃ ~ +50℃    环境湿度: 相对湿度<90% (不结霜条件)<br>Temperature: -20℃ ~ +50℃    Humidity: <90% (non-condensing conditions) |                        |                        |                        |

精确 节能 强劲动力

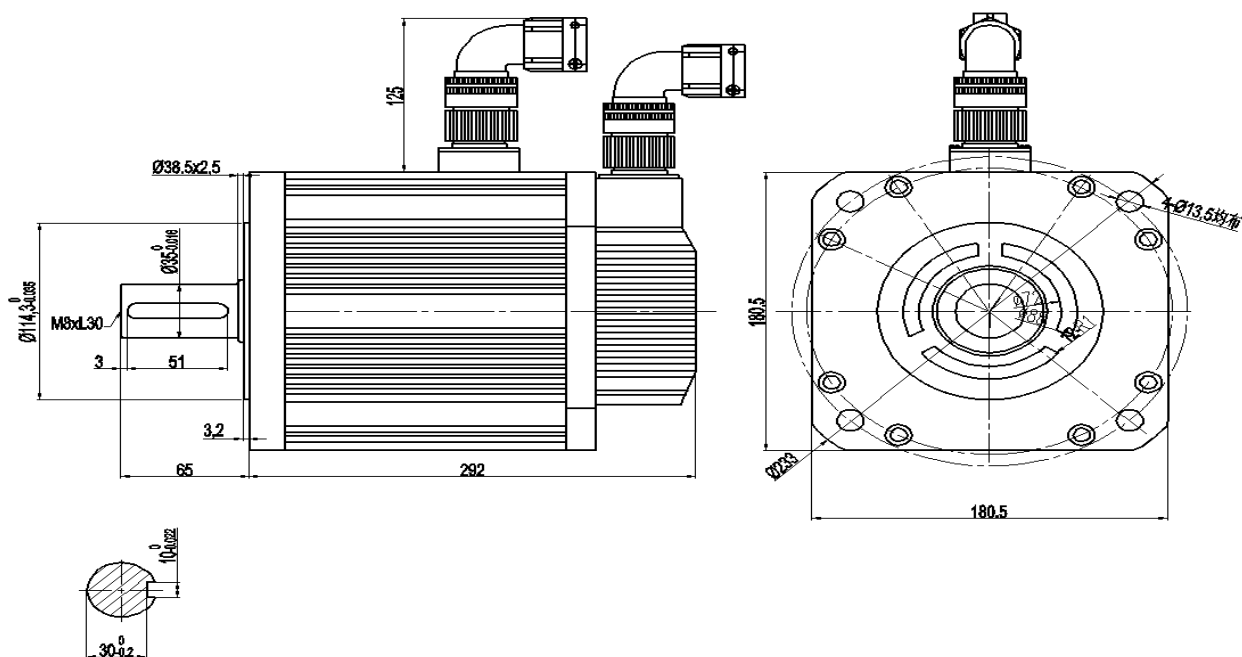
⊙ 安装注意 Installation precaution

1. 安装/拆卸部位到电机轴末端时，请不要用力敲打轴，以防止敲坏轴另一端的编码器。
2. 尽量防止轴座振动，以防止轴承的损坏。

1. Installation/disassembly components coupled to the motor shaft end ,do not hit shaft hard To prevent the other side of motor shaft encoder was knocked out bad.
2. Striving to make the best of its shaft to prevent vibration and bearing damage.

⊙ 安装尺寸 Installation Dimension: unit=mm

|                                                      | 180 系列 (series) |        |          |        |        |        |
|------------------------------------------------------|-----------------|--------|----------|--------|--------|--------|
| 额定力矩<br>Rated torque (N.m)                           | 17.2N.m         | 19 N.m | 21.5 N.m | 27 N.m | 35 N.m | 48 N.m |
| 不带刹车尺寸 (L)<br>Without brake size(L)                  | 226             | 232    | 243      | 262    | 292    | 346    |
| 带电磁抱闸 (L)<br>With electromagnetic brake (L)          | 298             | 304    | 315      | 334    | 364    | 418    |
| 带永磁抱闸 (L)<br>With permanent magnet brake package (L) | 308             | 314    | 325      | 344    | 382    | 436    |



\* 以上为标准安装尺寸，可根据客户要求改动

The above is a standard installation dimensions, can alter according to customer requirements

精确 节能 强劲动力