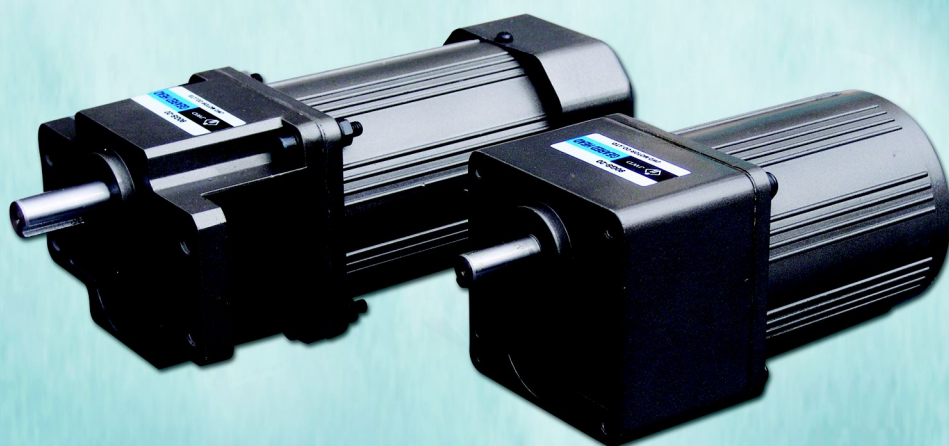




**JWD**<sup>®</sup>  
金维达电机有限公司

# 平行轴齿轮减速电机系列

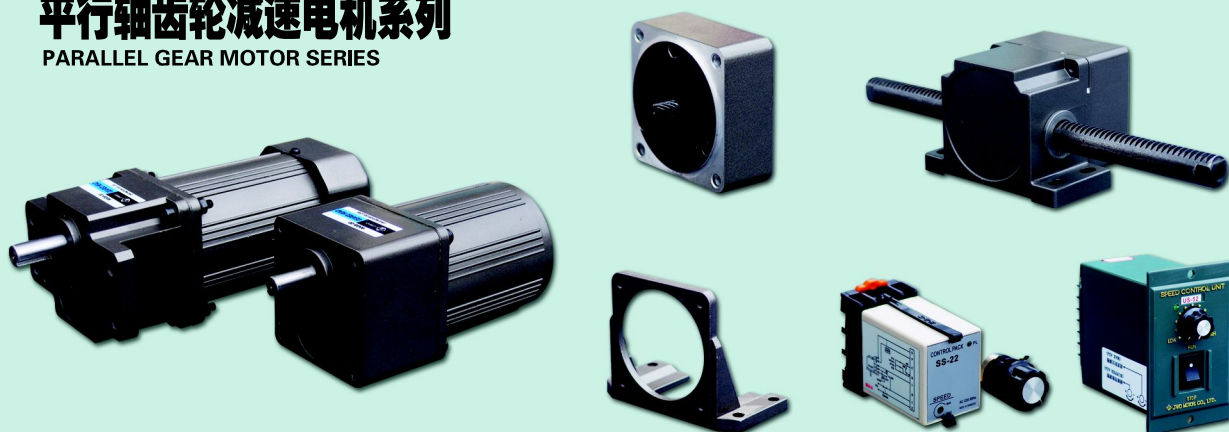
PARALLEL GEAR MOTOR SERIES



JWD MOTOR CO.,LTD.

## 平行轴齿轮减速电机系列

PARALLEL GEAR MOTOR SERIES



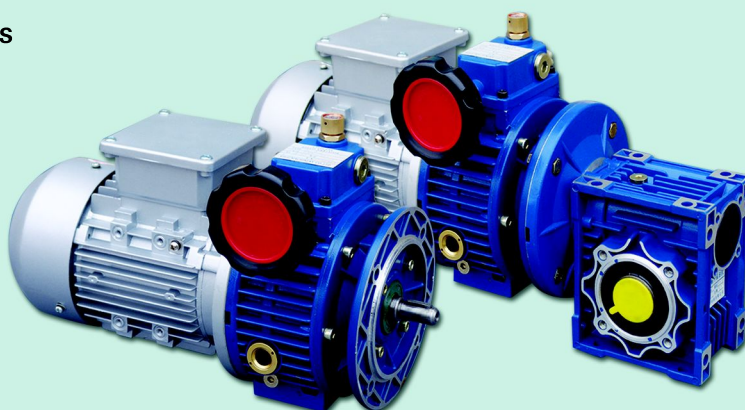
## HG直交轴齿轮减速电机系列

HYPOID GEAR MOTOR SERIES



## 蜗轮减速电机系列

WORM-GEAR MOTOR SERIES



# 高强度 长寿命 低噪音

## 金维达减速电动机系列



通过GB/T19001-2008/ ISO9001:2008认证/注册

注册号: 00109Q19584R0M13300



A022954



质量方针: 品质如金 顾客为本

公司目的: 顾客满意

公司愿望: 所有顾客——直接的或间接的——要求都应该得到满足

持续改进总体业绩是公司的一个永恒目标

Principle for quality: Take quality as gold and take customer as the foundation

Company goal: Customers are satisfied with our products.

Company desire: Demands of all customers—whether they are direct or indirect—should be satisfied.

A continuous improvement of overall achievements is an eternal goal of the company.

金维达电机有限公司向顾客提供的YYJT、YSCJ系列齿轮减速电子调速电动机是由单相、三相异步电动机、平行轴齿轮减速箱、永磁测速发电机和电子调速器组成(简称平行轴减速电机)。

只需改变齿轮减速箱的传动比, 减速电机便可获得不同的输出转速。

减速电机的减速比在1: 2 ~ 1: 650之间供顾客选择。

公司获得GB/T19001-2008/ ISO9001:2008质量管理体系认证注册。

金维达减速电机获得CCC认证和CE认证。

Provided by Taizhou Jinweida Motor Co.,Ltd, YYJT、YSCJ series of asynchronous motor with gear speed and electric speed control is composed of single-phase or three-phase asynchronous motor, orthogonal axis reduction gearbox, permanent-magnet tacho generator and electronic speed control(called "parallel gear motor" for short).

The reduction gearbox ratio of Jinweida motor is 1: 2 ~ 1: 650 which are for customers to choose.

The company has been passed the attestation of GB/T19001-2008/ ISO9001:2008 Quality management system.

Jinweida gear motor has also been assed the CCC attestation of China Compulsory certification and the CE attestation of European Communities.

### 注意事项 Attention items:

- 1、客户按设备所给定的指标, 选择具有相应技术参数的电机;
- 2、在定货时应标明电机的功率、电源电压及所需的转速(或速比);
- 3、若有调整, 恕不告知, 请谅解。咨询事宜与本公司经营部、技术部联系。

绕组引出线不承受外力! 电机安装使用前应接地!

- 1、The customer shall select the motors with relative technical parameters according to given index data of the equipment;
- 2、The power ,voltage and required speed(or speed ratio)shall be indicated clearly on the motor during order;
- 3、Please forgive us not to inform you any adjustment if that happened. Please not hesitate to contact business department and technology department of our company if you require consulting any further questions.  
The outgoing wire of the winding shall not bear any forces! Please ground it before the installation of the motor !

本样本内容如有改动, 恕不另通知。 Please forgive us not to inform you any adjustment if this sample book happened.

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## AC平行轴齿轮减速电机技术参数与外形图

### AC parallel gear motor technical parameter and overall dimension

|                  |    |
|------------------|----|
| 6W/10W/□60mm     | 8  |
| 15W/20W/□70mm    | 10 |
| 25W/30W/□80mm    | 12 |
| 40W/□90mm        | 14 |
| 60W/□90mm        | 16 |
| 90W /120W/□90mm  | 18 |
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### Speed controller structure and principle

## DC平行轴齿轮减速电机技术参数与外形图

### DC parallel gear motor technical parameter and overall dimension

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### Middle speed reducer dimensions

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|---------|----|

### Linear type gear head dimensions





## ● 特点与用途

### Characteristic and use

YYJT及YSCJ系列减速电机运转平稳，且具有低噪声、低能耗、高精度、高效率的优点。适于精密的输送、提升、印刷、包装、医疗、食品、电子等自动和半自动设备中作传动之用。也非常适合作为影视设备、舞台灯光、健身器械等设施中的配套装置。

YYJT YSCJ series of gear motor are in a steady operation, having advantages of noise free, less energy consumption, higher precision and higher efficiency. They apply to transmission of auto-and semi-auto-equipments use as precision transport, lift, print, pack, medicine, food, electron and so forth. They also apply very much to supporting devices such as movie and TV equipments, stage lighting and body - building apparatus etc.

## ● 减速电机一般通用参数

### General parameter for geared-down motor

#### 1. 通用技术条件

绝缘电阻值 常态下 $\geq 20M\Omega$   
绝缘强度 1500V/1min无击穿或闪络现象  
温升极限值 75K  
电机用导线 CQC认证、105℃、600V

#### 2. 基本工况

工作制 连续 (SI)  
冷却方式 IC40

#### 3. 基本环境条件

温度  $-10 \sim +40^{\circ}\text{C}$   
相对湿度 15% ~ 90%

#### 1. General technical condition

insulation resistance:  $\geq 20M\Omega$  (normality)  
insulation strength: 1500V/1min (no breakdown or flashover)  
limit of temp rise: 75K  
wire for motor: CQC、105℃、600V

#### 2. Basic work condition

work system: continuous (si)  
way of cooling: IC 40

#### 3. Basic environment condition

temperature:  $-10 \sim +40^{\circ}\text{C}$   
relative humidity: 15% ~ 90%

注意事项：在齿轮出轴上安装连轴器、皮带轮等传动机构时，不可直接在出轴上以工具敲击安装，否则会造成减速器内部的损伤。

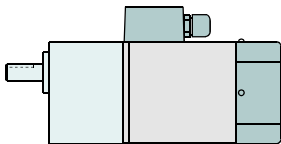
Attention items: Installed in the gear out of the shaft couplings, pulleys and other transmission institutions, not directly knock on the output shaft to install, otherwise it will cause internal damage reducer.





## ● 减速电机结构、部件特点概述

Gear motor structure& Characteristic



整体结构: 减速器 + 电动机 + 附件

structure: reducer+ motor+ accessories

| 减速器分类 reducers classification              |                    |                                                                                     |                                                                                                                                              |
|--------------------------------------------|--------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 名称 name                                    |                    | 图片 photo                                                                            | 特点 Characteristic                                                                                                                            |
| 常规<br>Ordinary                             |                    |    | 广泛应用Widely used<br>出轴样式多样: 平键、铣扁、钻孔等<br>out-shaft styles: flat key, milling flat, hole and more                                              |
| 中间减速箱<br>Middle reducer                    |                    |   | 出轴居中out-shaft in the central<br>不同的出轴样式, 既可作为二级减速箱, 又可直接作为减速箱用。                                                                              |
| 直线(垂直)<br>Linear type gear head-Vertical   |                    |  | 实现直线提拉、推移物件的往复运动<br>Straight pulling, pushing the object of reciprocating motion                                                             |
| 直线(水平)<br>Linear type gear head-Horizontal |                    |  | 实现水平方向推移物件的往复运动<br>Horizontal direction pushing the object of reciprocating motion                                                           |
| 电动机分类 motors classification                |                    |                                                                                     |                                                                                                                                              |
| 名称name                                     |                    | 图片photo                                                                             | 特点Characteristic                                                                                                                             |
| 常规<br>AC motor                             | 单相<br>1-phase      |  | 常规电源, 可选配调速, 在机械传动领域广泛应用<br>Common power, could be with speed control system to work, In the field of mechanical transmission is widely used |
|                                            | 三相<br>3-phase      |                                                                                     | 起动转矩大, 在机械传动领域广泛应用<br>large Starting torque, In the field of mechanical transmission is widely used                                          |
|                                            | 转矩<br>Torque motor |                                                                                     | 低速及堵转时能稳定运行, 常用于卷取及张紧场合<br>Low speed and locked-rotor can run stably, commonly used in coiling and tensioning purposes                       |
| 直流<br>DC motor                             |                    |  | 起动转矩大、调速性能好<br>large Starting torque、good at Adjust speed                                                                                    |



附件 accessories

| 名称 name                 | 图片 photo                                                                            | 特点 Characteristic                               |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|
| 接线盒<br>Terminal box     |    | 内置接线柱、电容<br>The built-in terminals, capacitance |
| 风叶<br>fan               |    | 40W以上电机尾部标配风叶<br>Motor above 40W with fan       |
| 刹车<br>brake             |    | 联接电机转轴，即刹即停<br>Namely brake namely stop         |
| 调速器<br>Speed regulation |  | 实现电器方式调速<br>Realize electric control            |
| 安装底座<br>Install base    |  | 方便安装<br>Easy installation                       |

● 减速电机允许负载 Allowable load for the gear motor

(单位: N.m)

| 同步转速<br>r/min |      | 500  | 300  | 200  | 120   | 100   | 60    | 50    | 30    | 20   | 15   | 10  | 6   | 5   | 3   | 2   | 1.5  | 1    |
|---------------|------|------|------|------|-------|-------|-------|-------|-------|------|------|-----|-----|-----|-----|-----|------|------|
| 减速比i          |      | 3    | 5    | 7.5  | 12.5  | 15    | 25    | 30    | 50    | 75   | 100  | 150 | 250 | 300 | 500 | 750 | 1000 | 1500 |
| □60           | 6W   | 0.11 | 0.18 | 0.26 | 0.45  | 0.54  | 0.80  | 0.97  | 1.47  | 1.80 | 2.45 |     |     |     |     |     |      |      |
|               | 10W  | 0.16 | 0.26 | 0.40 | 0.60  | 0.72  | 1.20  | 1.46  | 2.02  | 2.40 | 2.96 |     |     |     |     |     |      |      |
| □70           | 15W  | 0.28 | 0.48 | 0.75 | 1.18  | 1.47  | 2.15  | 2.35  | 3.92  | 4.9  |      |     |     |     |     |     |      |      |
|               | 20W  | 0.35 | 0.58 | 0.87 | 1.45  | 1.71  | 2.61  | 3.04  | 4.56  | 4.9  |      |     |     |     |     |     |      |      |
| □80           | 25W  | 0.45 | 0.79 | 1.18 | 1.86  | 2.25  | 3.43  | 4.12  | 6.18  | 7.84 |      |     |     |     |     |     |      |      |
|               | 30W  | 0.56 | 0.8  | 1.2  | 2.0   | 2.4   | 4.0   | 4.2   | 6.5   | 7.84 |      |     |     |     |     |     |      |      |
| □90           | 40W  | 0.72 | 1.18 | 1.77 | 2.94  | 3.53  | 5.0   | 6.47  | 9.81  |      |      |     |     |     |     |     |      |      |
|               | 60W  | 1.08 | 1.77 | 2.64 | 4.02  | 4.80  | 7.25  | 8.73  | 14.71 |      |      |     |     |     |     |     |      |      |
|               | 90W  | 1.7  | 2.6  | 4.1  | 6.8   | 7.9   | 13.7  | 19.71 |       |      |      |     |     |     |     |     |      |      |
|               | 120W | 2.11 | 3.52 | 5.28 | 8.04  | 9.6   | 14.5  | 19.71 |       |      |      |     |     |     |     |     |      |      |
| □100          | 120W | 2.11 | 3.52 | 5.28 | 8.45  | 10.2  | 16.9  | 25    |       |      |      |     |     |     |     |     |      |      |
|               | 140W | 2.46 | 4.11 | 6.16 | 9.86  | 11.8  | 19.73 | 25    |       |      |      |     |     |     |     |     |      |      |
|               | 160W | 2.81 | 4.69 | 7.04 | 11.27 | 13.53 | 22.55 | 25    |       |      |      |     |     |     |     |     |      |      |
|               | 180W | 3.17 | 5.28 | 7.92 | 12.68 | 15.23 | 25    |       |       |      |      |     |     |     |     |     |      |      |



### AC减速电动机的型号含义

Type meaning of the AC gear motor



**90 YYJT(YSCJ) 60 - 3**

电压等级:  
Voltage class

| 1    | 2    | 3    | 4    |
|------|------|------|------|
| 110V | 200V | 220V | 380V |

输出功率:  
Output power

| 6  | 15  | 25  | 40  | 60  | 90  | 120  |
|----|-----|-----|-----|-----|-----|------|
| 6W | 15W | 25W | 40W | 60W | 90W | 120W |

产品名称代号: YYJT为单相 (1-phase) YSCJ为三相 (3-phase) T为带调速with speed regulation  
Product name code

机座号:  
Frame size

| 60    | 70    | 80    | 90    | 100       |
|-------|-------|-------|-------|-----------|
| 60x60 | 70x70 | 80x80 | 90x90 | 104 × 104 |

### 转矩电动机的型号含义

Type meaning of the Torque motor

**90 T - 20W - 1**

电压等级  
Voltage class

| 1    | 2    |
|------|------|
| 100V | 200V |

输出功率  
Output power

转矩电机区别符号  
Special symbols

机座号  
Frame size

| 60    | 70    | 80    | 90    | 100       |
|-------|-------|-------|-------|-----------|
| 60x60 | 70x70 | 80x80 | 90x90 | 104 × 104 |



### DC减速电动机的型号含义

Type meaning of the DC gear motor

**90 D 60 - 12 - 30S**

转速 (例) 30S: 3000r/min  
Speed e.g.

电压 (例) 12: 12V  
Voltage e.g.

输出功率 (例) 60: 60W  
Output power

直流电机区别符号  
Special symbols

机座号  
Frame size

| 60    | 80    | 90    |
|-------|-------|-------|
| 60x60 | 80x80 | 90x90 |





### ● 齿轮减速箱的型号含义

Type meaning of the reduction gearbox

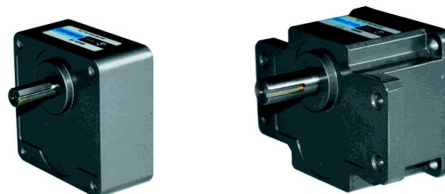
**90**   **GK(GS)**   **30**

减速比1: 30  
Ratio:1:30

齿轮箱型式: GK为普通型, GS为加强型  
Gearbox type :GK is common, GS is strengthened

机座号  
Frame size

| 60    | 70    | 80    | 90    | 100       |
|-------|-------|-------|-------|-----------|
| 60x60 | 70x70 | 80x80 | 90x90 | 104 × 104 |



### ● 中间减速机的型号含义

Type meaning of the Middle speed reducer

**90**   **GK10**   **X**

中间减速机区别符号  
Special symbols

减速比1: 10  
Ratio:1:10

机座号  
Frame size

| 60    | 70    | 80    | 90    | 100       |
|-------|-------|-------|-------|-----------|
| 60x60 | 70x70 | 80x80 | 90x90 | 104 × 104 |



### ● 直线齿轮箱的型号含义

Type meaning of the linear type gear head

**90**   **L**   **F(B)**   **50-3**

齿条有效行程3: 300mm  
Rack effective travel

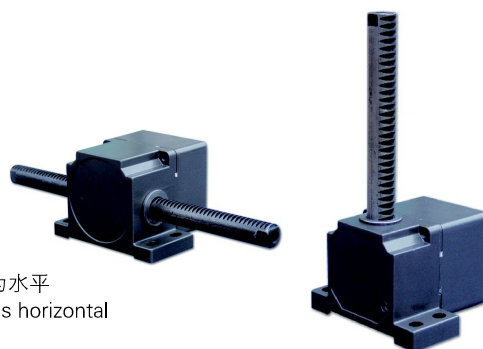
齿条的基本速度50: 50mm/s  
The basic rate of rack

齿条的移动方向: F为垂直; B为水平  
The direction: F is vertical; B is horizontal

直线减速机区别符号  
Special symbols

机座号  
Frame size

| 60    | 70    | 80    | 90    |
|-------|-------|-------|-------|
| 60x60 | 70x70 | 80x80 | 90x90 |





# 6/10W

## □60mm



### ● 电机特性

List of motor characteristics

| 电机型号<br>Motor model |                         | 规格<br>Specs           | 输出功率<br>Output Power<br>W | 电源电压<br>Voltage<br>V | 频率<br>Frequency<br>Hz | 电流<br>Current<br>A   | 起动扭矩<br>Starting Torque |       | 额定扭矩<br>Rated Torque |       | 额定转速<br>Rated Revolution<br>r/min | 电容量/耐压<br>Capacity/ve<br>μ F/VAC |      |         |
|---------------------|-------------------------|-----------------------|---------------------------|----------------------|-----------------------|----------------------|-------------------------|-------|----------------------|-------|-----------------------------------|----------------------------------|------|---------|
| 公司型号<br>JWD types   | 对应其它厂家<br>型号Other types |                       |                           |                      |                       |                      | mN.m                    | gf.cm | mN.m                 | gf.cm |                                   |                                  |      |         |
| 60YYJT6-3           | 2IK6GK<br>2IK6A         | 感应<br>Induction       | 6                         | 单相<br>1-phase<br>220 | 50                    | 0.1                  | 38                      | 380   | 47.7                 | 477   | 1200                              | 0.5/450                          |      |         |
|                     |                         |                       |                           |                      | 60                    | 0.09                 | 30                      | 300   | 39.5                 | 395   | 1450                              | 0.5/450                          |      |         |
|                     | 2RK6GK<br>2RK6A         | 可逆Reversible<br>30min |                           |                      | 50                    | 0.11                 | 45                      | 450   | 47.7                 | 477   | 1200                              | 0.8/450                          |      |         |
|                     |                         |                       |                           |                      | 60                    | 0.12                 | 37.5                    | 375   | 39.5                 | 395   | 1450                              | 0.8/450                          |      |         |
| 60YYJT6-1           | 2IK6GK<br>2IK6A         | 感应<br>Induction       | 6                         | 单相<br>1-phase<br>110 | 50                    | 0.2                  | 38                      | 380   | 47.7                 | 477   | 1200                              | 2/250                            |      |         |
|                     |                         |                       |                           |                      | 60                    | 0.18                 | 30                      | 300   | 39.5                 | 395   | 1450                              | 2/250                            |      |         |
|                     | 2RK6GK<br>2RK6A         | 可逆Reversible<br>30min |                           |                      | 50                    | 0.22                 | 45                      | 450   | 47.7                 | 477   | 1200                              | 3/250                            |      |         |
|                     |                         |                       |                           |                      | 60                    | 0.25                 | 37.5                    | 375   | 39.5                 | 395   | 1450                              | 3/250                            |      |         |
| 60YSCJ6-4           | 2IK6GK<br>2IK6A         | —                     | 6                         | 三相<br>3-phase<br>380 | 50                    | 0.03                 | 100                     | 1000  | 47.7                 | 477   | 1200                              | —                                |      |         |
| 60YSCJ6-3           | 2RK6GK<br>2RK6A         | —                     | 6                         | 三相<br>3-phase<br>220 | 60                    | 0.03                 | 83                      | 830   | 39.5                 | 395   | 1450                              | —                                |      |         |
|                     |                         |                       |                           |                      | 50                    | 0.05                 | 100                     | 1000  | 47.7                 | 477   | 1200                              | —                                |      |         |
|                     | 2RK6GK<br>2RK6A         |                       | 6                         |                      | 60                    | 0.05                 | 83                      | 830   | 39.5                 | 395   | 1450                              | —                                |      |         |
|                     |                         |                       |                           |                      |                       |                      |                         |       |                      |       |                                   |                                  |      |         |
|                     | 2IK10GK<br>2IK10A       | 感应<br>Induction       |                           |                      | 10                    | 单相<br>1-phase<br>220 | 50                      | 0.1   | 60                   | 600   | 80                                | 800                              | 1200 | 0.8/450 |
|                     |                         |                       |                           |                      |                       |                      | 60                      | 0.1   | 49                   | 490   | 65.8                              | 658                              | 1450 | 0.8/450 |
| 2RK10GK<br>2RK10A   | 可逆Reversible<br>30min   | 50                    | 0.13                      | 72                   |                       |                      | 720                     | 80    | 800                  | 1200  | 1.0/450                           |                                  |      |         |
|                     |                         | 60                    | 0.14                      | 59                   |                       |                      | 590                     | 65.8  | 658                  | 1450  | 1.0/450                           |                                  |      |         |
| 60YYJT10-1          | 2IK10GK<br>2IK10A       | 感应<br>Induction       | 10                        | 单相<br>1-phase<br>110 | 50                    | 0.20                 | 60                      | 600   | 80                   | 800   | 1200                              | 3/250                            |      |         |
|                     |                         |                       |                           |                      | 60                    | 0.20                 | 49                      | 490   | 65.8                 | 658   | 1450                              | 3/250                            |      |         |
|                     | 2RK10GK<br>2RK10A       | 可逆Reversible<br>30min |                           |                      | 50                    | 0.26                 | 72                      | 720   | 80                   | 800   | 1200                              | 4/250                            |      |         |
|                     |                         |                       |                           |                      | 60                    | 0.28                 | 59                      | 590   | 65.8                 | 658   | 1450                              | 4/250                            |      |         |

- 上表参数是指电机单体，不附加任何负荷装置。
- 电机额定转速、额定电流允许在±5%范围内变动。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

### ● 减速电机允许负载

Allowable load for the gear motor

| 减速参数<br>Geared-down<br>parameter | 同步转速r/min<br>Synchronous speed |                                   | 500          | 300          | 200          | 120          | 100          | 60           | 50            | 30            | 20            | 15            | 10  | 6   | 5   | 3   | 2   | 1.5  | 1    |
|----------------------------------|--------------------------------|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|-----|-----|-----|-----|-----|------|------|
|                                  | 减速比i<br>ratio                  |                                   | 3            | 5            | 7.5          | 12.5         | 15           | 25           | 30            | 50            | 75            | 100           | 150 | 250 | 300 | 500 | 750 | 1000 | 1500 |
| 最大允许负载<br>Max allowable load     | 6W                             | $\frac{\text{Kg.cm}}{\text{N.m}}$ | 1.15<br>0.11 | 1.85<br>0.18 | 2.67<br>0.26 | 4.57<br>0.45 | 5.46<br>0.54 | 8.07<br>0.80 | 9.74<br>0.97  | 14.70<br>1.47 | 18.05<br>1.80 | 24.50<br>2.45 |     |     |     |     |     |      |      |
|                                  | 10W                            | $\frac{\text{Kg.cm}}{\text{N.m}}$ | 1.63<br>0.16 | 2.65<br>0.26 | 4.07<br>0.40 | 6.07<br>0.60 | 7.20<br>0.72 | 12.0<br>1.20 | 14.61<br>1.46 | 20.23<br>2.02 | 24.0<br>2.40  | 29.60<br>2.96 |     |     |     |     |     |      |      |

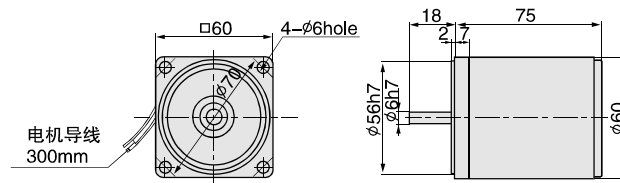
- 转速是以电动机的同步转速为基准除以减速比而算出的数值。实际转速将随负载大小变化而比所示数值减少2~20%左右。
- 希望以大于上表的减速比进一步减速时，可在电动机与减速机之间安装减速比为10的中间减速机。
- 当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速机输出轴和负载连接处加装扭矩限制装置，确保齿轮减速箱正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed will vary the size of the load changes in less than the values shown in 2 ~ 20%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.



### ● 圆轴型 Circular shaft type

60YYJ6 ( 10 )

60YSCJ6

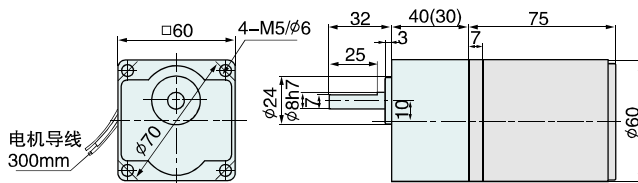


结构：电动机  
重量：0.8kg

### ● 定速型 Optical axis type

60YYJ6 ( 10 ) /60GK□

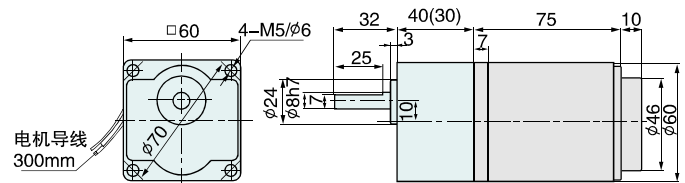
60YSCJ6



结构：减速器+电动机  
重量：1.1kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 调速型 Speed regulation type

60YYJT6 ( 10 ) /60GK□

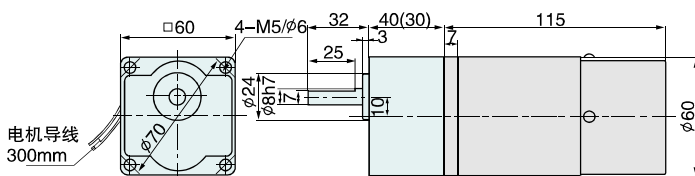


结构：减速器+电动机+调速器  
重量：1.1kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 刹车定速型 Brake Optical axis type

60YYJ6 ( 10 ) /60GK□

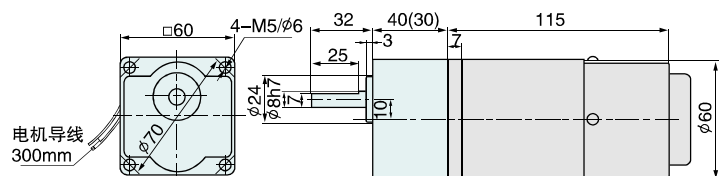
60YSCJ6



结构：减速器+电动机+刹车器  
重量：1.4kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 刹车调速型 Brake Speed regulation type

60YYJT6 ( 10 ) /60GK□



结构：减速器+电动机+刹车器+调速器  
重量：1.5kg  
减速比：20-250；图中()内的数值速比为3-15



# 15/20W

## □70mm



### ● 电机特性

List of motor characteristics

| 电机型号<br>Motor model |                         | 规格<br>Specs     | 输出功率<br>Output Power<br>W | 电源电压<br>Voltage<br>V | 频率<br>Frequency<br>Hz | 电流<br>Current<br>A | 起动扭矩<br>Starting Torque |       | 额定扭矩<br>Rated Torque |       | 额定转速<br>Rated Revolution<br>r/min | 电容量/耐压<br>Capacity/Ve<br>μ F/VAC |
|---------------------|-------------------------|-----------------|---------------------------|----------------------|-----------------------|--------------------|-------------------------|-------|----------------------|-------|-----------------------------------|----------------------------------|
| 公司型号<br>JWD types   | 对应其它厂家<br>型号Other types |                 |                           |                      |                       |                    | mN.m                    | gf.cm | mN.m                 | gf.cm |                                   |                                  |
| 70YYJT15-3          | 3IK15GK<br>3IK15A       | 感应<br>Induction | 15                        | 单相<br>1-phase<br>220 | 50                    | 0.15               | 92                      | 920   | 115                  | 1150  | 1250                              | 1.2/450                          |
|                     |                         |                 |                           |                      | 60                    | 0.14               | 76                      | 760   | 95.5                 | 955   | 1500                              | 1.2/450                          |
|                     | 可逆Reversible<br>30min   | 50              |                           |                      | 0.16                  | 110                | 1100                    | 150   | 1500                 | 1250  | 1.5/450                           |                                  |
|                     |                         | 60              |                           |                      | 0.18                  | 92                 | 920                     | 127   | 1270                 | 1500  | 1.5/450                           |                                  |
| 70YYJT15-1          | 3IK15GK<br>3IK15A       | 感应<br>Induction | 15                        | 单相<br>1-phase<br>110 | 50                    | 0.33               | 92                      | 920   | 115                  | 1150  | 1250                              | 5/250                            |
|                     |                         |                 |                           |                      | 60                    | 0.30               | 76                      | 760   | 95.5                 | 955   | 1500                              | 5/250                            |
|                     | 可逆Reversible<br>30min   | 50              |                           |                      | 0.36                  | 110                | 1100                    | 150   | 1500                 | 1250  | 6/250                             |                                  |
|                     |                         | 60              |                           |                      | 0.38                  | 92                 | 920                     | 127   | 1270                 | 1500  | 6/250                             |                                  |
| 70YSCJ15-4          | 3IK15GK<br>3IK15A       | ——              | 15                        | 三相<br>3-phase<br>380 | 50                    | 0.06               | 242                     | 2420  | 115                  | 1150  | 1250                              | ——                               |
| 70YSCJ15-3          | 3RK15GK<br>3RK15A       | ——              | 15                        | 三相<br>3-phase<br>220 | 50                    | 0.1                | 242                     | 2420  | 115                  | 1150  | 1250                              | ——                               |
|                     |                         |                 |                           |                      | 60                    | 0.1                | 200                     | 2000  | 95.5                 | 955   | 1500                              | ——                               |
| 70YYJT20-3          | 3IK20GK<br>3IK20A       | 感应<br>Induction | 20                        | 单相<br>1-phase<br>220 | 50                    | 0.22               | 90                      | 900   | 150                  | 1500  | 1250                              | 2/450                            |
|                     |                         |                 |                           |                      | 60                    | 0.22               | 76                      | 760   | 127                  | 1270  | 1500                              | 2/450                            |
|                     | 可逆Reversible<br>30min   | 50              |                           |                      | 0.26                  | 140                | 1400                    | 150   | 1500                 | 1300  | 2.5/450                           |                                  |
|                     |                         | 60              |                           |                      | 0.28                  | 120                | 1200                    | 127   | 1270                 | 1550  | 2.5/450                           |                                  |
| 70YYJT20-1          | 3IK20GK<br>3IK20A       | 感应<br>Induction | 20                        | 单相<br>1-phase<br>110 | 50                    | 0.45               | 90                      | 900   | 150                  | 1500  | 1250                              | 8/250                            |
|                     |                         |                 |                           |                      | 60                    | 0.46               | 76                      | 760   | 127                  | 1270  | 1500                              | 8/250                            |
|                     | 可逆Reversible<br>30min   | 50              |                           |                      | 0.54                  | 140                | 1400                    | 150   | 1500                 | 1300  | 10/250                            |                                  |
|                     |                         | 60              |                           |                      | 0.58                  | 120                | 1200                    | 127   | 1270                 | 1550  | 9/250                             |                                  |

- 上表参数是指电机单体，不附加任何负荷装置。
- 电机额定转速、额定电流允许在 ± 5% 范围内变动。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ± 5%.

### ● 减速电机允许负载

Allowable load for the gear motor

| 减速参数<br>Geared-down<br>parameter | 同步转速r/min<br>Synchronous speed |              | 500          | 300          | 200          | 120          | 100           | 60           | 50           | 30            | 20        | 15  | 10  | 6   | 5   | 3   | 2   | 1.5  | 1    |
|----------------------------------|--------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|---------------|-----------|-----|-----|-----|-----|-----|-----|------|------|
|                                  | 减速比i<br>ratio                  |              | 3            | 5            | 7.5          | 12.5         | 15            | 25           | 30           | 50            | 75        | 100 | 150 | 250 | 300 | 500 | 750 | 1000 | 1500 |
| 最大允许负载<br>Max allowable load     | 15W                            | Kg.cm<br>N.m | 2.86<br>0.28 | 4.81<br>0.48 | 7.51<br>0.75 | 11.8<br>1.18 | 14.7<br>1.47  | 21.5<br>2.15 | 23.5<br>2.35 | 39.27<br>3.92 | 50<br>4.9 |     |     |     |     |     |     |      |      |
|                                  | 20W                            | Kg.cm<br>N.m | 3.52<br>0.35 | 5.80<br>0.58 | 8.74<br>0.87 | 14.5<br>1.45 | 17.15<br>1.71 | 26.1<br>2.61 | 30.4<br>3.04 | 45.6<br>4.56  | 50<br>4.9 |     |     |     |     |     |     |      |      |

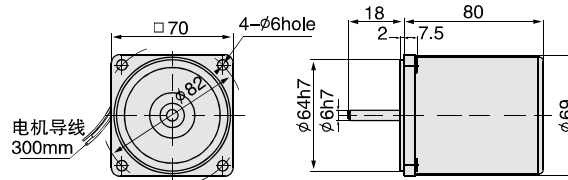
- 转速是以电动机的同步转速为基准除以减速比而算出的数值。实际转速将随负载大小变化而比所示数值减少2~20%左右。
- 希望以大于上表的减速比进一步减速时，可在电动机与减速机之间安装减速比为10的中间减速机。
- 当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速箱输出轴和负载连接处加装扭矩限制装置，确保齿轮减速箱正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed will vary the size of the load changes in less than the values shown in 2 ~ 20%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.



### ● 圆轴型 Circular shaft type

70YYJ15(20)

70YSCJ15

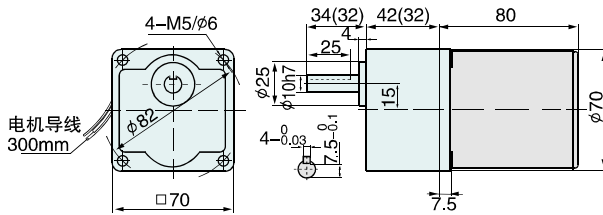


结构：电动机  
重量：1.1kg

### ● 定速型 Optical axis type

70YYJ15(20) /70GK□

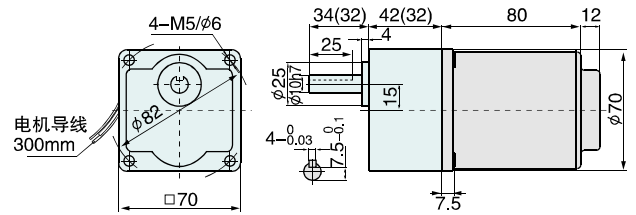
70YSCJ15



结构：减速器+电动机  
重量：1.6kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 调速型 Speed regulation type

70YYJT15 ( 20 ) /70GK□

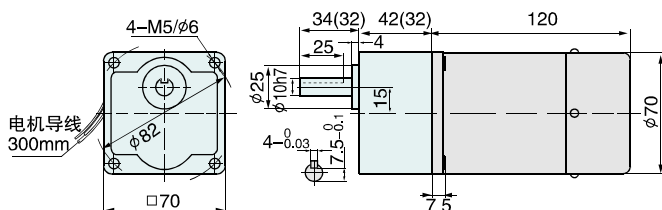


结构：减速器+电动机+调速器  
重量：1.7kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 刹车定速型 Brake Optical axis type

70YYJ15(20) /70GK□

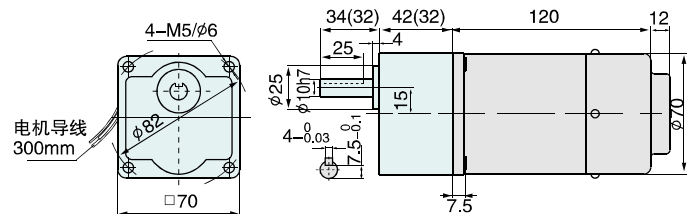
70YSCJ15



结构：减速器+电动机+刹车器  
重量：1.9kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 刹车调速型 Brake Speed regulation type

70YYJT15 ( 20 ) /70GK□



结构：减速器+电动机+刹车器+调速器  
重量：2.0kg  
减速比：20-250；图中()内的数值速比为3-15



# 25/30W

## □80mm



### ● 电机特性

List of motor characteristics

| 电机型号<br>Motor model |                         | 规格<br>Specs         | 输出功率<br>Output Power<br>W | 电源电压<br>Voltage<br>V | 频率<br>Frequency<br>Hz | 电流<br>Current<br>A | 起动扭矩<br>Starting Torque |       | 额定扭矩<br>Rated Torque |       | 额定转速<br>Rated<br>Revolution<br>r/min | 电容量/耐压<br>Capacity/ve<br>μ F/VAC |
|---------------------|-------------------------|---------------------|---------------------------|----------------------|-----------------------|--------------------|-------------------------|-------|----------------------|-------|--------------------------------------|----------------------------------|
| 公司型号<br>JWD types   | 对应其它厂家<br>型号Other types |                     |                           |                      |                       |                    | mN.m                    | gf.cm | mN.m                 | gf.cm |                                      |                                  |
| 80YYJT25-3          | 4IK25GK                 | 感应                  | 25                        | 单相<br>1-phase<br>220 | 50                    | 0.22               | 130                     | 1300  | 185                  | 1850  | 1300                                 | 1.5/450                          |
|                     | 4IK25A                  | Induction           |                           |                      | 60                    | 0.21               | 108                     | 1080  | 154                  | 1540  | 1550                                 | 1.5/450                          |
|                     | 4RK25GK                 | 可逆                  |                           |                      | 50                    | 0.24               | 170                     | 1700  | 185                  | 1850  | 1300                                 | 2/450                            |
|                     | 4RK25A                  | Reversible<br>30min |                           |                      | 60                    | 0.26               | 142                     | 1420  | 154                  | 1540  | 1550                                 | 2/450                            |
| 80YYJT25-1          | 4IK25GK                 | 感应                  | 25                        | 单相<br>1-phase<br>110 | 50                    | 0.48               | 130                     | 1300  | 185                  | 1850  | 1300                                 | 6/250                            |
|                     | 4IK25A                  | Induction           |                           |                      | 60                    | 0.46               | 108                     | 1080  | 154                  | 1540  | 1550                                 | 6/250                            |
|                     | 4RK25GK                 | 可逆                  |                           |                      | 50                    | 0.50               | 170                     | 1700  | 185                  | 1850  | 1300                                 | 8/250                            |
|                     | 4RK25A                  | Reversible<br>30min |                           |                      | 60                    | 0.56               | 142                     | 1420  | 154                  | 1540  | 1550                                 | 8/250                            |
| 80YSCJ25-4          | 4IK25GK                 | —                   | 25                        | 三相<br>3-phase<br>380 | 50                    | 0.14               | 425                     | 4250  | 185                  | 1850  | 1300                                 | —                                |
|                     | 4IK25A                  | —                   |                           |                      | 60                    | 0.12               | 354                     | 3540  | 154                  | 1540  | 1550                                 | —                                |
| 80YSCJ25-3          | 4RK25GK                 | —                   | 25                        | 三相<br>3-phase<br>220 | 50                    | 0.24               | 425                     | 4250  | 185                  | 1850  | 1300                                 | —                                |
|                     | 4RK25A                  | —                   |                           |                      | 60                    | 0.225              | 354                     | 3540  | 154                  | 1540  | 1550                                 | —                                |
| 80YYJT30-3          | 4IK30GK                 | 感应                  | 30                        | 单相<br>1-phase<br>220 | 50                    | 0.28               | 154                     | 1540  | 220                  | 2200  | 1300                                 | 2.2/450                          |
|                     | 4IK30A                  | Induction           |                           |                      | 60                    | 0.3                | 130                     | 1300  | 185                  | 1850  | 1550                                 | 2.2/450                          |
|                     | 4RK30GK                 | 可逆                  |                           |                      | 50                    | 0.3                | 220                     | 2200  | 220                  | 2200  | 1300                                 | 2.5/450                          |
|                     | 4RK30A                  | Reversible<br>30min |                           |                      | 60                    | 0.32               | 180                     | 1800  | 185                  | 1850  | 1550                                 | 2.5/450                          |
| 80YYJT30-1          | 4IK30GK                 | 感应                  | 30                        | 单相<br>1-phase<br>110 | 50                    | 0.58               | 154                     | 1540  | 220                  | 2200  | 1300                                 | 8/250                            |
|                     | 4IK30A                  | Induction           |                           |                      | 60                    | 0.60               | 130                     | 1300  | 185                  | 1850  | 1550                                 | 8/250                            |
|                     | 4RK30GK                 | 可逆                  |                           |                      | 50                    | 0.60               | 220                     | 2200  | 220                  | 2200  | 1300                                 | 10/250                           |
|                     | 4RK30A                  | Reversible<br>30min |                           |                      | 60                    | 0.65               | 180                     | 1800  | 185                  | 1850  | 1550                                 | 10/250                           |

- 上表参数是指电机单体，不附加任何负荷装置。
- 电机额定转速、额定电流允许在 $\pm 5\%$ 范围内变动。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of  $\pm 5\%$ .

### ● 减速电机允许负载

Allowable load for the gear motor

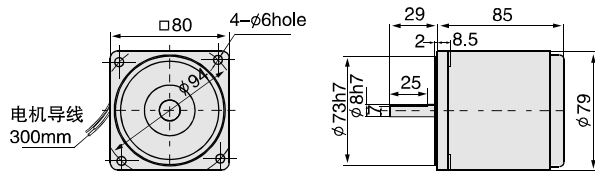
| 减速参数<br>Geared-down<br>parameter | 同步转速r/min<br>Synchronous speed |                                   | 500         | 300         | 200         | 120         | 100         | 60          | 50          | 30          | 20         | 15  | 10  | 6   | 5   | 3   | 2   | 1.5  | 1    |
|----------------------------------|--------------------------------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-----|-----|-----|-----|-----|-----|------|------|
|                                  | 减速比i<br>ratio                  |                                   | 3           | 5           | 7.5         | 12.5        | 15          | 25          | 30          | 50          | 75         | 100 | 150 | 250 | 300 | 500 | 750 | 1000 | 1500 |
| 最大允许负载<br>Max allowable load     | 25W                            | $\frac{\text{Kg.cm}}{\text{N.m}}$ | 4.5<br>0.45 | 7.9<br>0.79 | 12<br>1.18  | 19<br>1.86  | 23<br>2.25  | 35<br>3.43  | 42<br>4.12  | 62<br>6.18  | 80<br>7.84 |     |     |     |     |     |     |      |      |
|                                  | 30W                            | $\frac{\text{Kg.cm}}{\text{N.m}}$ | 5.7<br>0.56 | 8.1<br>0.8  | 12.3<br>1.2 | 20.5<br>2.0 | 24.3<br>2.4 | 40.2<br>4.0 | 42.5<br>4.2 | 65.7<br>6.5 | 80<br>7.84 |     |     |     |     |     |     |      |      |

- 转速是以电动机的同步转速为基准除以减速比而算出的数值。实际转速将随负载大小变化而比所示数值减少2~20%左右。
- 希望以大于上表的减速比进一步减速时，可在电动机与减速机之间安装减速比为10的中间减速机。
- 当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速箱输出轴和负载连接处加装扭矩限制装置，确保齿轮减速箱正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed will vary the size of the load changes in less than the values shown in 2 ~ 20%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.



### ● 圆轴型 Circular shaft type

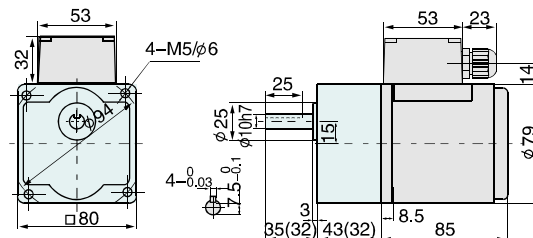
80YYJ25(30)  
80YSCJ25



结构：电动机  
重量：1.5kg

### ● 带端子箱型 With terminal box type

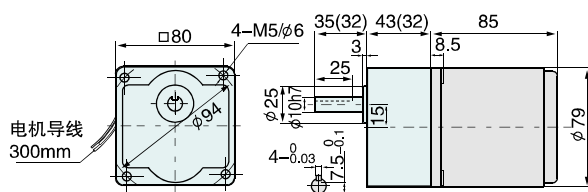
80YYJ25(30) /80GK□  
80YSCJ25



结构：减速器+电动机+端子箱  
重量：2.2kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 定速型 Optical axis type

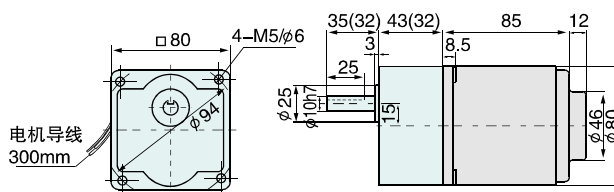
80YYJ25(30) /80GK□  
80YSCJ25



结构：减速器+电动机  
重量：2.1kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 调速型 Speed regulation type

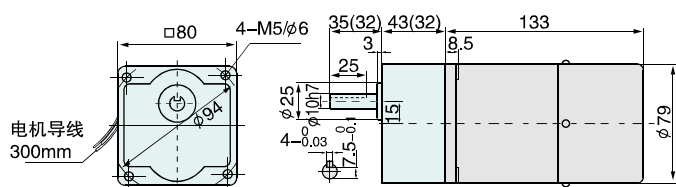
80YYJT25 ( 30 ) /80GK□



结构：减速器+电动机+调速器  
重量：2.2kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 刹车定速型 Brake Optical axis type

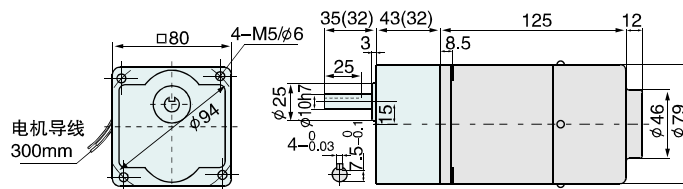
80YYJ25(30) /80GK□  
80YSCJ25



结构：减速器+电动机+刹车器  
重量：2.4kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 刹车调速型 Brake Speed regulation type

80YYJT25 ( 30 ) /80GK□



结构：减速器+电动机+刹车器+调速器  
重量：2.5kg  
减速比：20-250；图中()内的数值速比为3-15



# 40W

## □90mm

### 电机特性

List of motor characteristics



| 电机型号<br>Motor model |                         | 规格<br>Specs           | 输出功率<br>Output Power<br>W | 电源电压<br>Voltage<br>V | 频率<br>Frequency<br>Hz | 电流<br>Current<br>A | 起动扭矩<br>Starting Torque |       | 额定扭矩<br>Rated Torque |       | 额定转速<br>Rated<br>Revolution<br>r/min | 电容量/耐压<br>Capacity/Ve<br>μ F/VAC |
|---------------------|-------------------------|-----------------------|---------------------------|----------------------|-----------------------|--------------------|-------------------------|-------|----------------------|-------|--------------------------------------|----------------------------------|
| 公司型号<br>JWD types   | 对应其它厂家<br>型号Other types |                       |                           |                      |                       |                    | mN.m                    | gf.cm | mN.m                 | gf.cm |                                      |                                  |
| 90YYJT40-3          | 5IK40GK                 | 感应<br>Induction       | 40                        | 单相<br>1-phase<br>220 | 50                    | 0.35               | 206                     | 2060  | 294                  | 2940  | 1300                                 | 2.5/450                          |
|                     | 5IK40A                  |                       |                           |                      | 60                    | 0.33               | 172                     | 1720  | 246                  | 2460  | 1550                                 | 2.5/450                          |
|                     | 5RK40GK                 | 可逆Reversible<br>30min |                           |                      | 50                    | 0.38               | 270                     | 2700  | 294                  | 2940  | 1300                                 | 3.0/450                          |
|                     | 5RK40A                  |                       |                           |                      | 60                    | 0.4                | 226                     | 2260  | 246                  | 2460  | 1550                                 | 3.0/450                          |
| 90YYJT40-1          | 5IK40GK                 | 感应<br>Induction       | 40                        | 单相<br>1-phase<br>110 | 50                    | 0.70               | 206                     | 2060  | 294                  | 2940  | 1300                                 | 10/250                           |
|                     | 5IK40A                  |                       |                           |                      | 60                    | 0.72               | 172                     | 1720  | 246                  | 2460  | 1550                                 | 10/250                           |
|                     | 5RK40GK                 | 可逆Reversible<br>30min |                           |                      | 50                    | 0.76               | 270                     | 2700  | 294                  | 2940  | 1300                                 | 12/250                           |
|                     | 5RK40A                  |                       |                           |                      | 60                    | 0.80               | 226                     | 2260  | 246                  | 2460  | 1550                                 | 12/250                           |
| 90YSCJ40-4          | 5IK40GK                 | ——                    | 40                        | 三相<br>3-phase<br>380 | 50                    | 0.24               | 676                     | 6760  | 294                  | 2940  | 1300                                 | ——                               |
|                     | 5IK40A                  |                       |                           |                      | 60                    | 0.22               | 566                     | 5660  | 246                  | 2460  | 1550                                 | ——                               |
| 90YSCJ40-3          | 5RK40GK                 | ——                    | 40                        | 三相<br>3-phase<br>220 | 50                    | 0.42               | 676                     | 6760  | 294                  | 2940  | 1300                                 | ——                               |
|                     | 5RK40A                  |                       |                           |                      | 60                    | 0.38               | 566                     | 5660  | 246                  | 2460  | 1550                                 | ——                               |

- 上表参数是指电机单体，不附加任何负荷装置。
- 电机额定转速、额定电流允许在  $\pm 5\%$  范围内变动。
- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of  $\pm 5\%$ .

### 减速电机允许负载

Allowable load for the gear motor

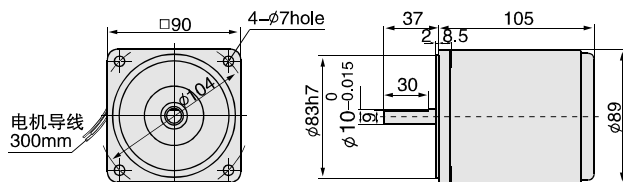
| 减速参数<br>Geared-down<br>parameter | 同步转速r/min<br>Synchronous speed |              | 500         | 300        | 200        | 120        | 100        | 60        | 50         | 30          | 20 | 15  | 10  | 6   | 5   | 3   | 2   | 1.5  | 1    |
|----------------------------------|--------------------------------|--------------|-------------|------------|------------|------------|------------|-----------|------------|-------------|----|-----|-----|-----|-----|-----|-----|------|------|
|                                  | 减速比i<br>ratio                  |              | 3           | 5          | 7.5        | 12.5       | 15         | 25        | 30         | 50          | 75 | 100 | 150 | 250 | 300 | 500 | 750 | 1000 | 1500 |
| 最大允许负载<br>Max allowable load     | 40W                            | Kg.cm<br>N.m | 7.3<br>0.72 | 12<br>1.18 | 18<br>1.77 | 30<br>2.94 | 36<br>3.53 | 55<br>5.0 | 65<br>6.47 | 100<br>9.81 |    |     |     |     |     |     |     |      |      |

- 转速是以电动机的同步转速为基准除以减速比而算出的数值。实际转速将随负载大小变化而比所示数值减少2~20%左右。
- 希望以大于上表的减速比进一步减速时，可在电动机与减速机之间安装减速比为10的中间减速机。
- 当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速箱输出轴和负载连接处加装扭矩限制装置，确保齿轮减速箱正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed will vary the size of the load changes in less than the values shown in 2 ~ 20%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.



### ● 圆轴型 Circular shaft type

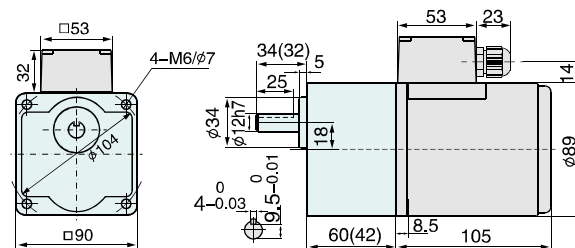
90YYJ40  
90YSCJ40



结构：电动机  
重量：2.3kg

### ● 带端子箱型 With terminal box type

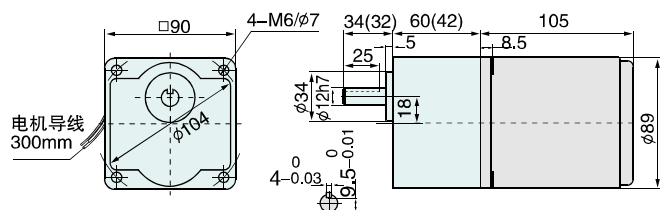
90YYJ40 /90GK□  
90YSCJ40



结构：减速器+电动机+端子箱  
重量：3.5kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 定速型 Optical axis type

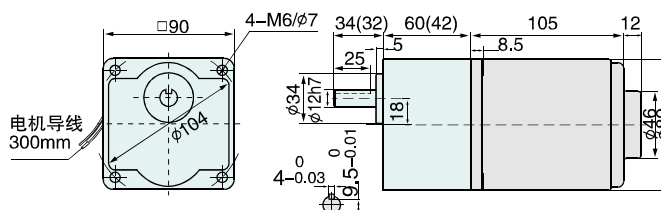
90YYJ40 /90GK□  
90YSCJ40



结构：减速器+电动机  
重量：3.4kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 调速型 Speed regulation type

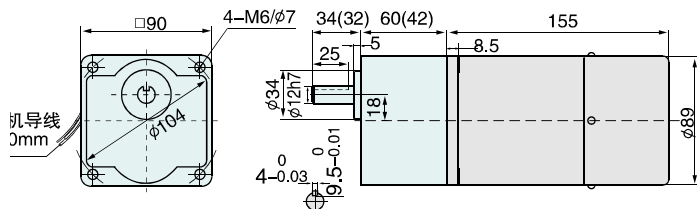
90YYJT40/90GK□



结构：减速器+电动机+调速器  
重量：3.5kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 刹车定速型 Brake Optical axis type

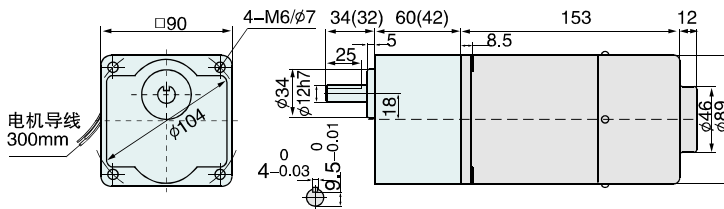
90YYJ40 /90GK□  
90YSCJ40



结构：减速器+电动机+刹车器  
重量：3.7kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 刹车调速型 Brake Speed regulation type

90YYJT40/90GK□



结构：减速器+电动机+刹车器+调速器  
重量：3.8kg  
减速比：20-250；图中()内的数值速比为3-15



60W

□90mm



## ● 电机特性

List of motor characteristics

| 电机型号<br>Motor model |                         | 规格<br>Specs           | 输出功率<br>Output Power<br>W | 电源电压<br>Voltage<br>V | 频率<br>Frequency<br>Hz | 电流<br>Current<br>A | 起动扭矩<br>Starting Torque |       | 额定扭矩<br>Rated Torque |       | 额定转速<br>Rated<br>Revolution<br>r/min | 电容量/耐压<br>Capacity/ve<br>μ F/VAC |
|---------------------|-------------------------|-----------------------|---------------------------|----------------------|-----------------------|--------------------|-------------------------|-------|----------------------|-------|--------------------------------------|----------------------------------|
| 公司型号<br>JWD types   | 对应其它厂家<br>型号Other types |                       |                           |                      |                       |                    | mN.m                    | gf.cm | mN.m                 | gf.cm |                                      |                                  |
| 90YYJT60-3          | 5IK60GK                 | 感应<br>Induction       | 60                        | 单相<br>1-phase<br>220 | 50                    | 0.45               | 380                     | 3800  | 441                  | 4410  | 1300                                 | 3.5/450                          |
|                     | 5IK60A                  |                       |                           |                      | 60                    | 0.48               | 319                     | 3190  | 370                  | 3700  | 1550                                 | 3.5/450                          |
|                     | 5RK60GK                 | 可逆Reversible<br>30min |                           |                      | 50                    | 0.5                | 400                     | 4000  | 670                  | 6700  | 1300                                 | 4/450                            |
|                     | 5RK60A                  |                       |                           |                      | 60                    | 0.52               | 336                     | 3360  | 554                  | 5540  | 1550                                 | 4/450                            |
| 90YYJT60-1          | 5IK60GK                 | 感应<br>Induction       | 60                        | 单相<br>1-phase<br>110 | 50                    | 0.90               | 380                     | 3800  | 441                  | 4410  | 1300                                 | 14/250                           |
|                     | 5IK60A                  |                       |                           |                      | 60                    | 0.88               | 319                     | 3190  | 370                  | 3700  | 1550                                 | 14/250                           |
|                     | 5RK60GK                 | 可逆Reversible<br>30min |                           |                      | 50                    | 1.0                | 400                     | 4000  | 670                  | 6700  | 1300                                 | 16/250                           |
|                     | 5RK60A                  |                       |                           |                      | 60                    | 1.2                | 336                     | 3360  | 554                  | 5540  | 1550                                 | 16/250                           |
| 90YSCJ60-4          | 5IK60GK                 | —                     | 60                        | 三相<br>3-phase<br>380 | 50                    | 0.30               | 1014                    | 10140 | 441                  | 4410  | 1300                                 | —                                |
|                     | 5IK60A                  |                       |                           |                      | 60                    | 0.28               | 851                     | 8510  | 370                  | 3700  | 1550                                 | —                                |
| 90YSCJ60-3          | 5RK60GK                 | —                     | 60                        | 三相<br>3-phase<br>220 | 50                    | 0.52               | 1014                    | 10140 | 441                  | 4410  | 1300                                 | —                                |
|                     | 5RK60A                  |                       |                           |                      | 60                    | 0.48               | 851                     | 8510  | 370                  | 3700  | 1550                                 | —                                |

- 上表参数是指电机单体，不附加任何负荷装置。
- 电机额定转速、额定电流允许在 $\pm 5\%$ 范围内变动。
- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of  $\pm 5\%$ .

## ● 减速电机允许负载

Allowable load for the gear-down motor

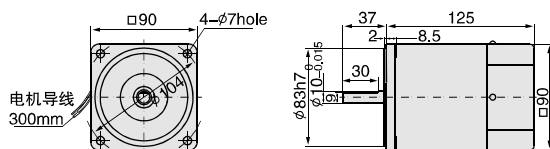
| 减速参数<br>Geared-down<br>parameter | 同步转速r/min<br>Synchronous speed |              | 500        | 300        | 200        | 120        | 100        | 60         | 50         | 30           | 20 | 15  | 10  | 6   | 5   | 3   | 2   | 1.5  | 1    |
|----------------------------------|--------------------------------|--------------|------------|------------|------------|------------|------------|------------|------------|--------------|----|-----|-----|-----|-----|-----|-----|------|------|
|                                  | 减速比i<br>ratio                  |              | 3          | 5          | 7.5        | 12.5       | 15         | 25         | 30         | 50           | 75 | 100 | 150 | 250 | 300 | 500 | 750 | 1000 | 1500 |
| 最大允许负载<br>Max allowable load     | 60W                            | Kg.cm<br>N.m | 11<br>1.08 | 18<br>1.77 | 27<br>2.64 | 41<br>4.02 | 50<br>4.80 | 74<br>7.25 | 89<br>8.73 | 150<br>14.71 |    |     |     |     |     |     |     |      |      |

- 转速是以电动机的同步转速为基准除以减速比而算出的数值。实际转速将随负载大小变化而比所示数值减少2~20%左右。
- 希望以大于上表的减速比进一步减速时，可在电动机与减速机之间安装减速比为10的中间减速机。
- 当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速箱输出轴和负载连接处加装扭矩限制装置，确保齿轮减速箱正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed will vary the size of the load changes in less than the values shown in 2 ~ 20%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.



### ● 圆轴型 Circular shaft type

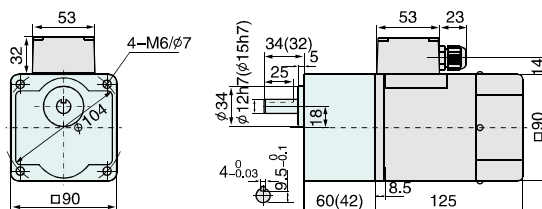
90YYJ60  
90YSCJ60



结构：电动机  
重量：2.6 kg

### ● 带端子箱型 With terminal box type

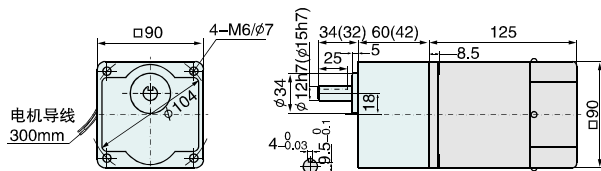
90YYJ60 /90GK□  
90YSCJ60



结构：减速器+电动机+端子箱  
重量：3.9 kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 定速型 Optical axis type

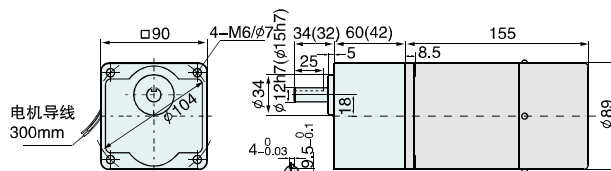
90YYJ60 /90GK□  
90YSCJ60



结构：减速器+电动机  
重量：3.8 kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 刹车定速型 Brake Optical axis type

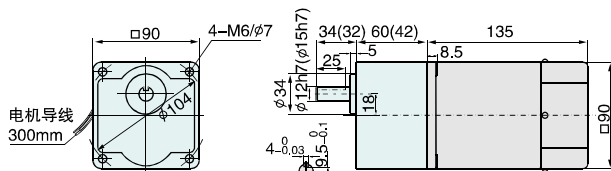
90YYJ60 /90GK□  
90YSCJ60



结构：减速器+电动机+刹车器  
重量：4kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 调速型 Speed regulation type

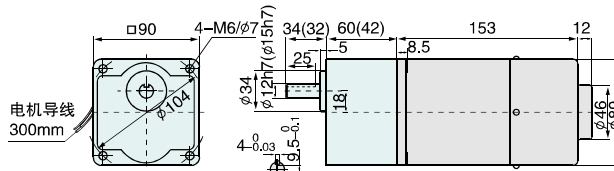
90YYJT60/90GK□



结构：减速器+电动机+调速器  
重量：3.9kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 刹车调速型 Brake Speed regulation type

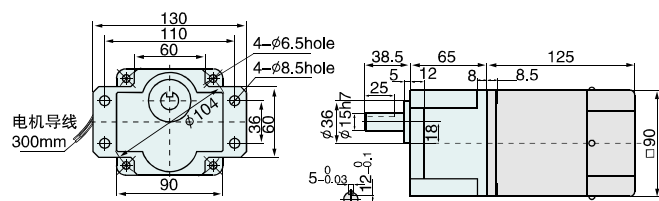
90YYJT60/90GK□



结构：减速器+电动机+刹车器+调速器  
重量：4.1kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 90GS定速型 Optical axis type

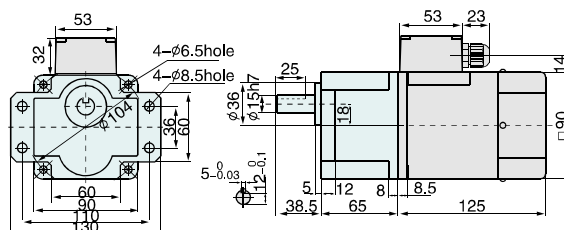
90YYJ60 /90GS□  
90YSCJ60



结构：减速器+电动机+调速器  
重量：3.9kg  
减速比：20-250；图中()内的数值速比为3-15

### ● 90GS带端子箱型 With terminal box type

90YYJ60 /90GS□  
90YSCJ60

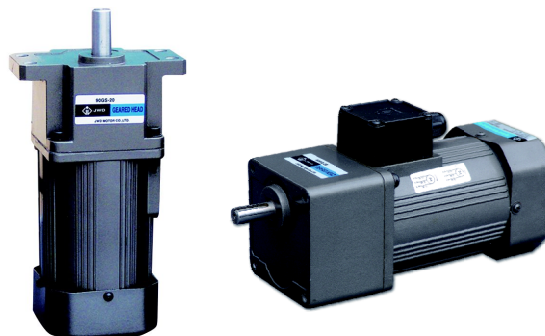


结构：减速器+电动机+端子箱  
重量：4 kg  
减速比：20-250；图中()内的数值速比为3-15



# 90/120W

## □90mm



### ● 电机特性

List of motor characteristics

| 电机型号<br>Motor model |                         | 规格<br>Specs  | 输出功率<br>Output Power<br>W | 电源电压<br>Voltage<br>V | 频率<br>Frequency<br>Hz | 电流<br>Current<br>A | 起动扭矩<br>Starting Torque |       | 额定扭矩<br>Rated Torque |       | 额定转速<br>Rated Revolution<br>r/min | 电容量/耐压<br>Capacity/Ve<br>μF/VAC |
|---------------------|-------------------------|--------------|---------------------------|----------------------|-----------------------|--------------------|-------------------------|-------|----------------------|-------|-----------------------------------|---------------------------------|
| 公司型号<br>JWD types   | 对应其它厂家<br>型号Other types |              |                           |                      |                       |                    | mN.m                    | gf.cm | mN.m                 | gf.cm |                                   |                                 |
| 90YYJT90-3          | 5IK90GK                 | 感应           | 90                        | 单相<br>1-phase<br>220 | 50                    | 0.62               | 600                     | 6000  | 670                  | 6700  | 1300                              | 5/450                           |
|                     | 5IK90A                  | 感应           |                           |                      | 60                    | 0.60               | 496                     | 4960  | 554                  | 5540  | 1550                              | 5/450                           |
|                     | 5RK90GK                 | 可逆Reversible |                           |                      | 50                    | 0.68               | 636                     | 6360  | 670                  | 6700  | 1300                              | 6/450                           |
|                     | 5RK90A                  | 30min        |                           |                      | 60                    | 0.72               | 526                     | 5260  | 554                  | 5540  | 1550                              | 6/450                           |
| 90YYJT90-1          | 5IK90GK                 | 感应           | 90                        | 单相<br>1-phase<br>110 | 50                    | 1.25               | 600                     | 6000  | 670                  | 6700  | 1300                              | 20/250                          |
|                     | 5IK90A                  | 感应           |                           |                      | 60                    | 1.2                | 496                     | 4960  | 554                  | 5540  | 1550                              | 18/250                          |
|                     | 5RK90GK                 | 可逆Reversible |                           |                      | 50                    | 1.38               | 636                     | 6360  | 670                  | 6700  | 1300                              | 24/250                          |
|                     | 5RK90A                  | 30min        |                           |                      | 60                    | 1.5                | 526                     | 5260  | 554                  | 5540  | 1550                              | 24/250                          |
| 90YSCJ90-4          | 5IK90GK                 | —            | 90                        | 三相<br>3-phase<br>380 | 50                    | 0.32               | 1541                    | 15410 | 670                  | 6700  | 1300                              | —                               |
|                     | 5IK90A                  | —            |                           |                      | 60                    | 0.3                | 1274                    | 12740 | 554                  | 5540  | 1500                              | —                               |
| 90YSCJ90-3          | 5RK90GK                 | —            | 90                        | 三相<br>3-phase<br>220 | 50                    | 0.55               | 1541                    | 15410 | 670                  | 6700  | 1250                              | —                               |
|                     |                         |              |                           |                      | 60                    | 0.48               | 1274                    | 12740 | 554                  | 5540  | 1500                              | —                               |
| 90YYJT120-3         | 5IK120GK                | 感应           | 120                       | 单相<br>1-phase<br>220 | 50                    | 0.85               | 625                     | 6250  | 910                  | 9100  | 1250                              | 6/450                           |
|                     | 5IK120A                 | 感应           |                           |                      | 60                    | 0.82               | 525                     | 5250  | 764                  | 7640  | 1500                              | 6/450                           |
|                     | 5RK120GK                | 可逆Reversible |                           |                      | 50                    | 0.95               | 860                     | 8600  | 910                  | 9100  | 1250                              | 8/450                           |
|                     | 5RK120A                 | 30min        |                           |                      | 60                    | 1.0                | 722                     | 7220  | 764                  | 7640  | 1500                              | 8/450                           |
| 90YYJT120-1         | 5IK120GK                | 感应           | 120                       | 单相<br>1-phase<br>110 | 50                    | 1.7                | 625                     | 6250  | 910                  | 9100  | 1250                              | 24/250                          |
|                     | 5IK120A                 | 感应           |                           |                      | 60                    | 1.65               | 525                     | 5250  | 764                  | 7640  | 1500                              | 24/250                          |
|                     | 5RK120GK                | 可逆Reversible |                           |                      | 50                    | 1.9                | 860                     | 8600  | 910                  | 9100  | 1250                              | 30/250                          |
|                     | 5RK120A                 | 30min        |                           |                      | 60                    | 2.1                | 722                     | 7220  | 764                  | 7640  | 1500                              | 30/250                          |
| 90YSCJ120-4         | 5IK120GK                | —            | 120                       | 三相<br>3-phase<br>380 | 50                    | 0.34               | 2000                    | 20000 | 910                  | 9100  | 1250                              | —                               |
|                     |                         |              |                           |                      | 60                    | 0.31               | 1680                    | 16800 | 764                  | 7640  | 1500                              | —                               |
| 90YSCJ120-3         | 5RK120GK                | —            | 120                       | 三相<br>3-phase<br>220 | 50                    | 0.59               | 2000                    | 20000 | 910                  | 9100  | 1250                              | —                               |
|                     |                         |              |                           |                      | 60                    | 0.54               | 1680                    | 16800 | 764                  | 7640  | 1500                              | —                               |

- 上表参数是指电机单体，不附加任何负荷装置。
- 电机额定转速、额定电流允许在±5%范围内变动。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

### ● 减速电机允许负载

Allowable load for the gear motor

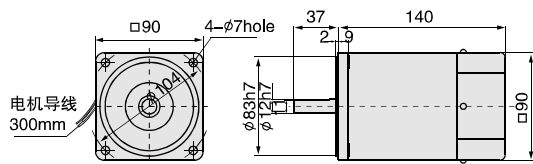
| 减速参数<br>Geared-down<br>parameter |      | 同步转速r/min<br>Synchronous speed | 500  | 300  | 200  | 120  | 100  | 60   | 50    | 30 | 20 | 15  | 10  | 6   | 5   | 3   | 2   | 1.5  | 1    |
|----------------------------------|------|--------------------------------|------|------|------|------|------|------|-------|----|----|-----|-----|-----|-----|-----|-----|------|------|
|                                  |      | 减速比i<br>ratio                  | 3    | 5    | 7.5  | 12.5 | 15   | 25   | 30    | 50 | 75 | 100 | 150 | 250 | 300 | 500 | 750 | 1000 | 1500 |
| 最大允许负载<br>Max allowable load     | 90W  | Kg.cm                          | 17.3 | 26.5 | 41.8 | 69.4 | 80.6 | 140  | 200   |    |    |     |     |     |     |     |     |      |      |
|                                  |      | N.m                            | 1.7  | 2.6  | 4.1  | 6.8  | 7.9  | 13.7 | 19.71 |    |    |     |     |     |     |     |     |      |      |
|                                  | 120W | Kg.cm                          | 21.5 | 36   | 54   | 82   | 98   | 148  | 200   |    |    |     |     |     |     |     |     |      |      |
|                                  |      | N.m                            | 2.11 | 3.52 | 5.28 | 8.04 | 9.6  | 14.5 | 19.71 |    |    |     |     |     |     |     |     |      |      |

- 转速是以电动机的同步转速为基准除以减速比而算出的数值。实际转速将随负载大小变化而比所示数值减少2~20%左右。
- 希望以大于上表的减速比进一步减速时，可在电动机与减速机之间安装减速比为10的中间减速机。
- 当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速箱输出轴和负载连接处加装扭矩限制装置，确保齿轮减速箱正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed will vary the size of the load changes in less than the values shown in 2 ~ 20%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.



### ● 圆轴型 Circular shaft type

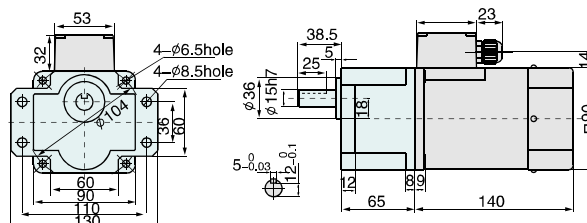
90YYJ90(120)  
90YSCJ90(120)



结构: 电动机  
重量: 3.1 kg

### ● 带端子箱型 With terminal box type

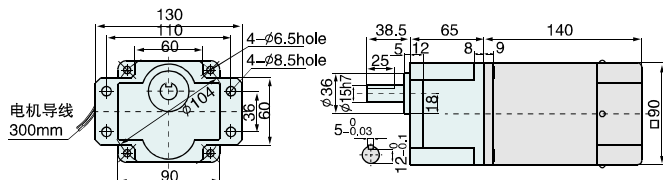
90YYJ90(120) /90GS□  
90YSCJ90(120)



结构: 减速器+电动机+端子箱  
重量: 4.5 kg

### ● 定速型 Optical axis type

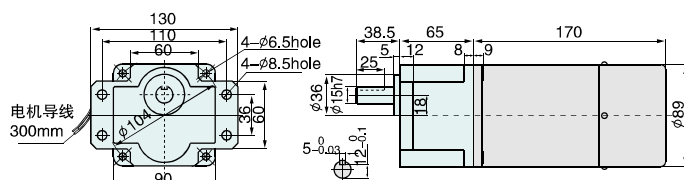
90YYJ90(120) /90GS□  
90YSCJ90(120)



结构: 减速器+电动机  
重量: 4.4 kg

### ● 刹车定速型 Brake Optical axis type

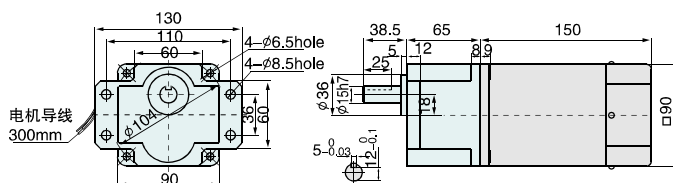
90YYJ90(120) /90GS□  
90YSCJ90(120)



结构: 减速器+电动机+刹车器  
重量: 4.9 kg

### ● 调速型 Speed regulation type

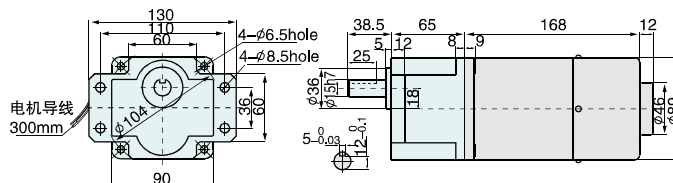
90YYJT90 ( 120 ) /90GS□



结构: 减速器+电动机+调速器  
重量: 4.5 kg

### ● 刹车调速型 Brake Speed regulation type

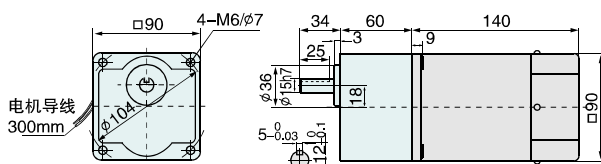
90YYJT90 ( 120 ) /90GS□



结构: 减速器+电动机+刹车器+调速器  
重量: 4.9 kg

### ● 90GK定速型 Optical axis type

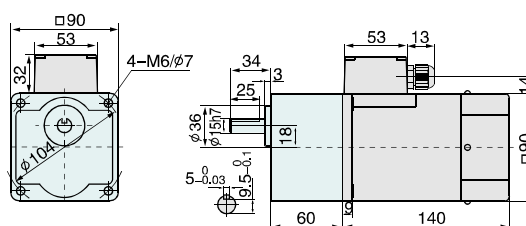
90YYJ90(120) /90GK□  
90YSCJ90(120)



结构: 减速器+电动机  
重量: 4.3 kg

### ● 90GK带端子箱型 With terminal box type

90YYJ90(120) /90GK□  
90YSCJ90(120)



结构: 减速器+电动机+端子箱  
重量: 4.3 kg



# 120/140W

## □100mm



### ● 电机特性

List of motor characteristics

| 电机型号<br>Motor model |                         | 规格<br>Specs           | 输出功率<br>Output Power<br>W | 电源电压<br>Voltage<br>V | 频率<br>Frequency<br>Hz | 电流<br>Current<br>A | 起动扭矩<br>Starting Torque |       | 额定扭矩<br>Rated Torque |       | 额定转速<br>Rated<br>Revolution<br>r/min | 电容量/耐压<br>Capacity/Ve<br>$\mu$ F/VAC |
|---------------------|-------------------------|-----------------------|---------------------------|----------------------|-----------------------|--------------------|-------------------------|-------|----------------------|-------|--------------------------------------|--------------------------------------|
| 公司型号<br>JWD types   | 对应其它厂家<br>型号Other types |                       |                           |                      |                       |                    | mN.m                    | gf.cm | mN.m                 | gf.cm |                                      |                                      |
| 100YYJT120-3        | 6K120GK<br>6K120A       | 感应<br>Induction       | 120                       | 单相<br>1-phase<br>220 | 50                    | 1.0                | 550                     | 5500  | 880                  | 8800  | 1300                                 | 6/450                                |
|                     | 6RK120GK<br>6RK120A     | 可逆Reversible<br>30min |                           |                      | 60                    | 1.0                | 460                     | 4600  | 740                  | 7400  | 1550                                 | 6/450                                |
|                     | 6RK120GK<br>6RK120A     | 可逆Reversible<br>30min |                           |                      | 50                    | 1.2                | 770                     | 7700  | 1260                 | 12600 | 1300                                 | 8/450                                |
|                     | 6RK120GK<br>6RK120A     | 可逆Reversible<br>30min |                           |                      | 60                    | 1.4                | 648                     | 6480  | 980                  | 9800  | 1550                                 | 8/450                                |
| 100YYJT120-1        | 6K120GK<br>6K120A       | 感应<br>Induction       | 120                       | 单相<br>1-phase<br>110 | 50                    | 1.7                | 550                     | 5500  | 880                  | 8800  | 1300                                 | 30/250                               |
|                     | 6RK120GK<br>6RK120A     | 可逆Reversible<br>30min |                           |                      | 60                    | 1.6                | 460                     | 4600  | 740                  | 7400  | 1550                                 | 28/250                               |
|                     | 6RK120GK<br>6RK120A     | 可逆Reversible<br>30min |                           |                      | 50                    | 1.8                | 770                     | 7700  | 1260                 | 12600 | 1300                                 | 32/250                               |
|                     | 6RK120GK<br>6RK120A     | 可逆Reversible<br>30min |                           |                      | 60                    | 2.0                | 648                     | 6480  | 980                  | 9800  | 1550                                 | 32/250                               |
| 100YSCJ120-4        | 6K120GK<br>6K120A       | ——                    | 120                       | 三相<br>3-phase<br>380 | 50                    | 0.46               | 2024                    | 20240 | 880                  | 8800  | 1300                                 | ——                                   |
| 100YSCJ120-3        | 6RK120GK<br>6RK120A     | ——                    | 120                       | 三相<br>3-phase<br>220 | 60                    | 0.42               | 1700                    | 17000 | 740                  | 7400  | 1550                                 | ——                                   |
|                     |                         |                       |                           |                      | 50                    | 0.8                | 2024                    | 20240 | 880                  | 8800  | 1300                                 | ——                                   |
| 100YYJT140-3        | 6K140GK<br>6K140A       | 感应<br>Induction       | 140                       | 单相<br>1-phase<br>220 | 50                    | 1.23               | 662                     | 6620  | 1028                 | 10280 | 1300                                 | 8/450                                |
|                     | 6RK140GK<br>6RK140A     | 可逆Reversible<br>30min |                           |                      | 60                    | 1.12               | 540                     | 5400  | 863                  | 8630  | 1550                                 | 8/450                                |
|                     | 6RK140GK<br>6RK140A     | 可逆Reversible<br>30min |                           |                      | 50                    | 1.3                | 885                     | 8850  | 1028                 | 10280 | 1300                                 | 10/450                               |
|                     | 6RK140GK<br>6RK140A     | 可逆Reversible<br>30min |                           |                      | 60                    | 1.43               | 714                     | 7140  | 863                  | 8630  | 1550                                 | 10/450                               |
| 100YYJT140-1        | 6K140GK<br>6K140A       | 感应<br>Induction       | 140                       | 单相<br>1-phase<br>110 | 50                    | 2.05               | 662                     | 6620  | 1028                 | 10280 | 1300                                 | 32/250                               |
|                     | 6RK140GK<br>6RK140A     | 可逆Reversible<br>30min |                           |                      | 60                    | 1.9                | 540                     | 5400  | 863                  | 8630  | 1550                                 | 30/250                               |
|                     | 6RK140GK<br>6RK140A     | 可逆Reversible<br>30min |                           |                      | 50                    | 2.2                | 885                     | 8850  | 1028                 | 10280 | 1300                                 | 40/250                               |
|                     | 6RK140GK<br>6RK140A     | 可逆Reversible<br>30min |                           |                      | 60                    | 2.4                | 714                     | 7140  | 863                  | 8630  | 1550                                 | 32/250                               |
| 100YSCJ140-4        | 6K140GK<br>6K140A       | ——                    | 140                       | 三相<br>3-phase<br>380 | 50                    | 0.55               | 2362                    | 23620 | 1028                 | 10280 | 1300                                 | ——                                   |
| 100YSCJ140-3        | 6RK140GK<br>6RK140A     | ——                    | 140                       | 三相<br>3-phase<br>220 | 60                    | 0.46               | 1984                    | 19840 | 863                  | 8630  | 1550                                 | ——                                   |
|                     |                         |                       |                           |                      | 50                    | 0.88               | 2764                    | 27640 | 1028                 | 10280 | 1300                                 | ——                                   |
| 100YSCJ140-3        | 6RK140GK<br>6RK140A     | ——                    | 140                       | 三相<br>3-phase<br>220 | 60                    | 0.80               | 2266                    | 22660 | 863                  | 8630  | 1550                                 | ——                                   |

- 上表参数是指电机单体，不附加任何负荷装置。
- 电机额定转速、额定电流允许在 $\pm 5\%$ 范围内变动。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of  $\pm 5\%$ .

### ● 减速电机允许负载

Allowable load for the gear-down motor

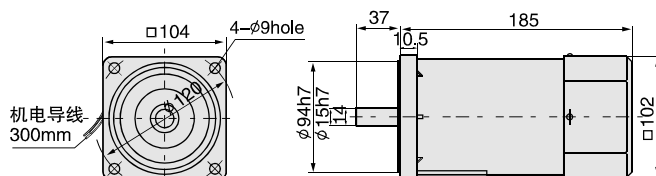
| 减速参数<br>Geared-down<br>parameter | 同步转速r/min<br>Synchronous speed |              | 500          | 300        | 200        | 120          | 100         | 60             | 50        | 30 | 20 | 15  | 10  | 6   | 5   | 3   | 2   | 1.5  | 1    |
|----------------------------------|--------------------------------|--------------|--------------|------------|------------|--------------|-------------|----------------|-----------|----|----|-----|-----|-----|-----|-----|-----|------|------|
|                                  | 减速比i<br>ratio                  |              | 3            | 5          | 7.5        | 12.5         | 15          | 25             | 30        | 50 | 75 | 100 | 150 | 250 | 300 | 500 | 750 | 1000 | 1500 |
| 最大允许负载<br>Max allowable load     | 120W                           | Kg.cm<br>N.m | 21.5<br>2.11 | 36<br>3.52 | 54<br>5.28 | 85<br>8.45   | 103<br>10.2 | 172<br>16.9    | 255<br>25 |    |    |     |     |     |     |     |     |      |      |
|                                  | 140W                           | Kg.cm<br>N.m | 25.1<br>2.46 | 42<br>4.11 | 63<br>6.16 | 99.2<br>9.86 | 120<br>11.8 | 200.7<br>19.73 | 255<br>25 |    |    |     |     |     |     |     |     |      |      |

- 转速是以电动机的同步转速为基准除以减速比而算出的数值。实际转速将随负载大小变化而比所示数值减少2~20%左右。
- 希望以大于上表的减速比进一步减速时，可在电动机与减速机之间安装减速比为10的中间减速机。
- 当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速箱输出轴和负载连接处加装扭矩限制装置，确保齿轮减速箱正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed will vary the size of the load changes in less than the values shown in 2 ~ 20%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.



### ● 圆轴型 Circular shaft type

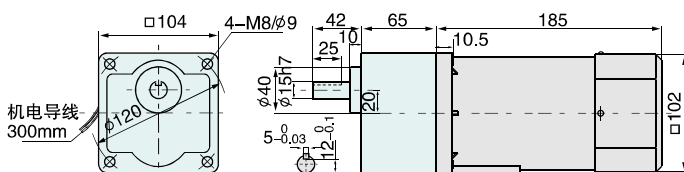
100YYJ120(140)  
100YSCJ120(140)



结构：电动机  
重量：4.8 kg

### ● 定速型 Optical axis type

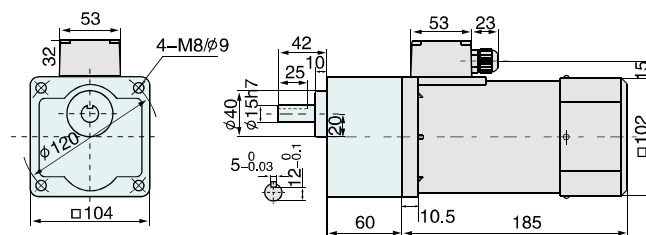
100YYJ120(140) /100GK□  
100YSCJ120(140)



结构：减速器+电动机  
重量：6.4 kg

### ● 带端子箱型 With terminal box type

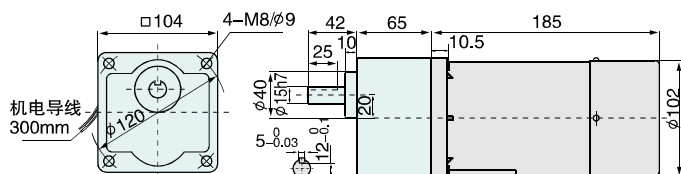
100YYJT120 ( 140 ) /100GK



结构：减速器+电动机+端子箱  
重量：6.5 kg

### ● 刹车定速型 Brake Optical axis type

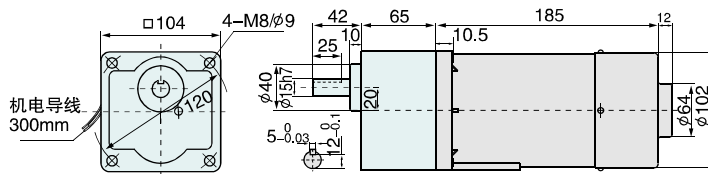
100YYJ120(140) /100GK□  
100YSCJ120(140)



结构：减速器+电动机+刹车器  
重量：6.9 kg

### ● 刹车调速型 Brake Speed regulation type

100YYJT120 ( 140 ) /100GK



结构：减速器+电动机+刹车器+调速器  
重量：6.9 kg



# 160/180W

## □100mm



### ● 电机特性

List of motor characteristics

| 电机型号<br>Motor model |                         | 规格<br>Specs           | 输出功率<br>Output Power<br>W | 电源电压<br>Voltage<br>V | 频率<br>Frequency<br>Hz | 电流<br>Current<br>A | 起动扭矩<br>Starting Torque |       | 额定扭矩<br>Rated Torque |       | 额定转速<br>Rated Revolution<br>r/min | 电容量/耐压<br>Capacity/ve<br>μ F/VAC |
|---------------------|-------------------------|-----------------------|---------------------------|----------------------|-----------------------|--------------------|-------------------------|-------|----------------------|-------|-----------------------------------|----------------------------------|
| 公司型号<br>JWD types   | 对应其它厂家<br>型号Other types |                       |                           |                      |                       |                    | mN.m                    | gf.cm | mN.m                 | gf.cm |                                   |                                  |
| 100YYJT160-3        | 6IK160GK<br>6IK160A     | 感应<br>Induction       | 160                       | 单相<br>1-phase<br>220 | 50                    | 1.25               | 775                     | 7750  | 1260                 | 12600 | 1300                              | 8/450                            |
|                     | 6RK160GK<br>6RK160A     | 可逆Reversible<br>30min |                           |                      | 60                    | 1.24               | 620                     | 6200  | 980                  | 9800  | 1550                              | 8/450                            |
|                     |                         |                       |                           |                      | 50                    | 1.4                | 1000                    | 10000 | 1260                 | 12600 | 1300                              | 10/450                           |
|                     |                         |                       |                           |                      | 60                    | 1.46               | 780                     | 7800  | 980                  | 9800  | 1550                              | 10/450                           |
| 100YYJT160-1        | 6IK160GK<br>6IK160A     | 感应<br>Induction       | 160                       | 单相<br>1-phase<br>110 | 50                    | 2.4                | 775                     | 7750  | 1260                 | 12600 | 1300                              | 32/250                           |
|                     | 6RK160GK<br>6RK160A     | 可逆Reversible<br>30min |                           |                      | 60                    | 2.2                | 620                     | 6200  | 980                  | 9800  | 1550                              | 30/250                           |
|                     |                         |                       |                           |                      | 50                    | 2.6                | 1000                    | 10000 | 1260                 | 12600 | 1300                              | 40/250                           |
|                     |                         |                       |                           |                      | 60                    | 2.8                | 780                     | 7800  | 980                  | 9800  | 1550                              | 36/250                           |
| 100YSCJ160-4        | 6IK160GK<br>6IK160A     | ——                    | 160                       | 三相<br>3-phase<br>380 | 50                    | 0.55               | 2700                    | 27000 | 1175                 | 11750 | 1300                              | ——                               |
| 100YSCJ160-3        | 6RK160GK<br>6RK160A     | ——                    | 160                       | 三相<br>3-phase<br>220 | 50                    | 0.95               | 3504                    | 35040 | 1175                 | 11750 | 1300                              | ——                               |
|                     |                         |                       |                           |                      | 60                    | 0.86               | 2832                    | 28320 | 986                  | 9860  | 1550                              | ——                               |
| 100YYJT180-3        | 6IK180GK<br>6IK200A     | 感应<br>Induction       | 180                       | 单相<br>1-phase<br>220 | 50                    | 1.56               | 990                     | 9900  | 1470                 | 14700 | 1300                              | 10/450                           |
|                     | 6RK180GK<br>6RK180A     | 可逆Reversible<br>30min |                           |                      | 60                    | 1.5                | 830                     | 8300  | 1232                 | 12320 | 1550                              | 10/450                           |
|                     |                         |                       |                           |                      | 50                    | 1.58               | 1300                    | 13000 | 1470                 | 14700 | 1300                              | 12/450                           |
|                     |                         |                       |                           |                      | 60                    | 1.6                | 1090                    | 10900 | 1232                 | 12320 | 1550                              | 12/450                           |
| 100YYJT180-1        | 6IK180GK<br>6IK200A     | 感应<br>Induction       | 180                       | 单相<br>1-phase<br>110 | 50                    | 3.2                | 990                     | 9900  | 1470                 | 14700 | 1300                              | 40/250                           |
|                     | 6RK180GK<br>6RK180A     | 可逆Reversible<br>30min |                           |                      | 60                    | 3.0                | 830                     | 8300  | 1232                 | 12320 | 1550                              | 40/250                           |
|                     |                         |                       |                           |                      | 50                    | 3.3                | 1300                    | 13000 | 1470                 | 14700 | 1300                              | 48/250                           |
|                     |                         |                       |                           |                      | 60                    | 3.4                | 1090                    | 10900 | 1232                 | 12320 | 1550                              | 48/250                           |
| 100YSCJ180-4        | 6IK180GK<br>6IK200A     | ——                    | 180                       | 三相<br>3-phase<br>380 | 50                    | 0.75               | 3504                    | 35040 | 1460                 | 14600 | 1350                              | ——                               |
|                     |                         |                       |                           |                      | 60                    | 0.70               | 2832                    | 28320 | 1180                 | 11800 | 1620                              | ——                               |
| 100YSCJ180-3        | 6RK180GK<br>6RK180A     | ——                    | 180                       | 三相<br>3-phase<br>220 | 50                    | 1.2                | 3504                    | 35040 | 1460                 | 14600 | 1350                              | ——                               |
|                     |                         |                       |                           |                      | 60                    | 1.21               | 2832                    | 28320 | 1180                 | 11800 | 1620                              | ——                               |

- 上表参数是指电机单体，不附加任何负荷装置。
- 电机额定转速、额定电流允许在±5%范围内变动。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ± 5%.

### ● 减速电机允许负载

Allowable load for the gear motor

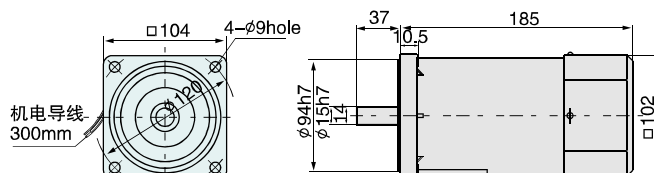
| 减速参数<br>Geared-down<br>parameter | 同步转速/r/min<br>Synchronous speed |                                 | 500          | 300        | 200        | 120            | 100            | 60             | 50 | 30 | 20 | 15  | 10  | 6   | 5   | 3   | 2   | 1.5  | 1         |           |  |  |  |  |
|----------------------------------|---------------------------------|---------------------------------|--------------|------------|------------|----------------|----------------|----------------|----|----|----|-----|-----|-----|-----|-----|-----|------|-----------|-----------|--|--|--|--|
|                                  | 减速比<br>ratio                    |                                 | 3            | 5          | 7.5        | 12.5           | 15             | 25             | 30 | 50 | 75 | 100 | 150 | 250 | 300 | 500 | 750 | 1000 | 1500      |           |  |  |  |  |
| 最大允许负载<br>Max allowable load     | 160W                            | <div>Kg.cm</div> <div>N.m</div> | 28.7<br>2.81 | 48<br>4.69 | 72<br>7.04 | 113.3<br>11.27 | 137.3<br>13.53 | 229.3<br>22.55 |    |    |    |     |     |     |     |     |     |      |           | 255<br>25 |  |  |  |  |
|                                  | 180W                            | <div>Kg.cm</div> <div>N.m</div> | 32.3<br>3.17 | 54<br>5.28 | 81<br>7.92 | 127.5<br>12.68 | 154.5<br>15.23 |                |    |    |    |     |     |     |     |     |     |      | 255<br>25 |           |  |  |  |  |

- 转速是以电动机的同步转速为基准除以减速比而算出的数值。实际转速将随负载大小变化而比所示数值减少2~20%左右。
- 希望以大于上表的减速比进一步减速时，可在电动机与减速机之间安装减速比为10的中间减速机。
- 当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速箱输出轴和负载连接处加装扭矩限制装置，确保齿轮减速箱正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed will vary the size of the load changes in less than the values shown in 2 ~ 20%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.



### ● 圆轴型 Circular shaft type

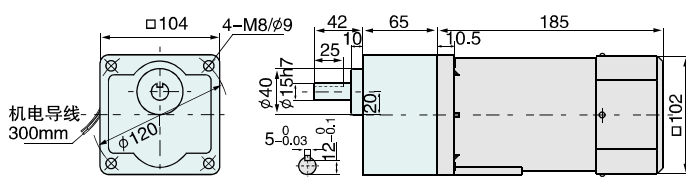
100YYJ160(180)  
100YSCJ160(180)



结构: 电动机  
重量: 5 kg

### ● 定速型 Optical axis type

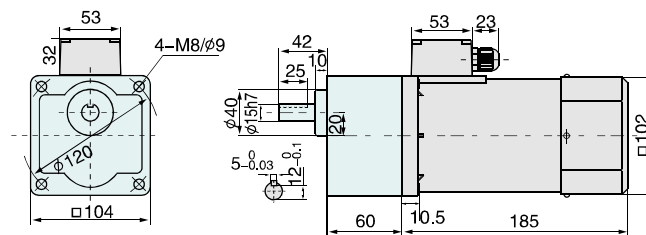
100YYJ160(180) /100GK□  
100YSCJ160(180)



结构: 减速器+电动机  
重量: 6.6 kg

### ● 带端子箱型 With terminal box type

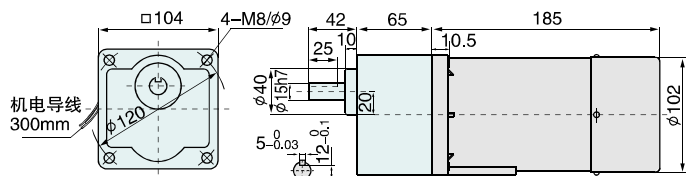
100YYJT160 ( 180 ) /100GK



结构: 减速器+电动机+端子箱  
重量: 6.7 kg

### ● 刹车定速型 Brake Optical axis type

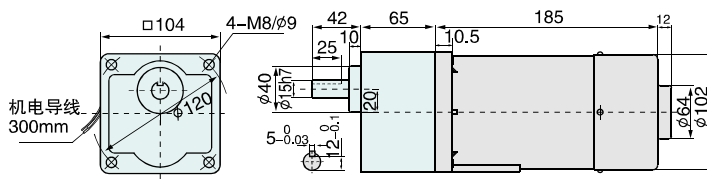
100YYJ160(180) /100GK□  
100YSCJ160(180)



结构: 减速器+电动机+刹车器  
重量: 7 kg

### ● 刹车调速型 Brake Speed regulation type

100YYJT160 ( 180 ) /100GK

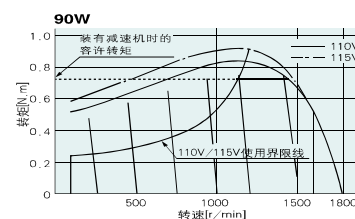
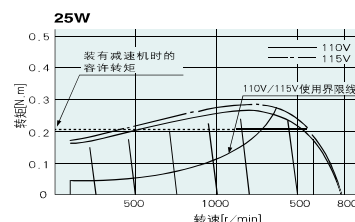
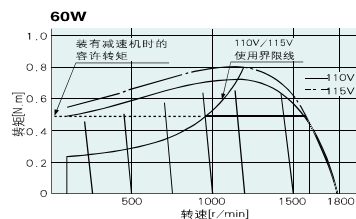
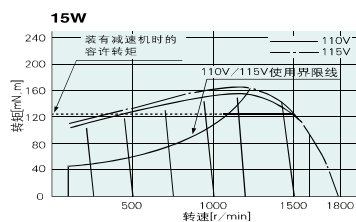
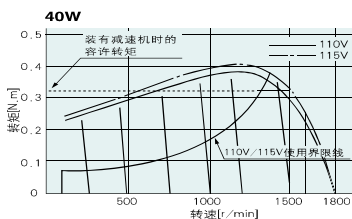
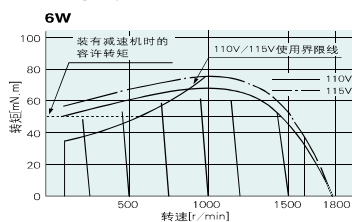


结构: 减速器+电动机+刹车器+调速器  
重量: 7.1 kg

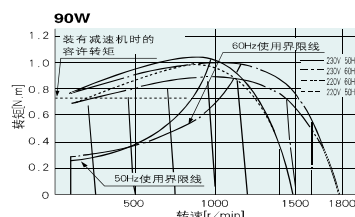
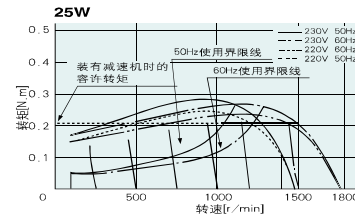
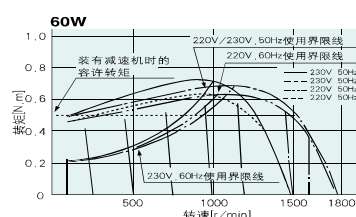
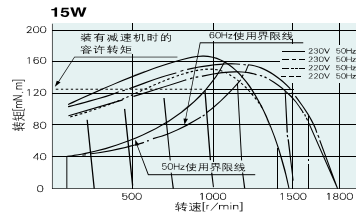
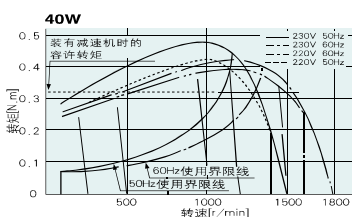
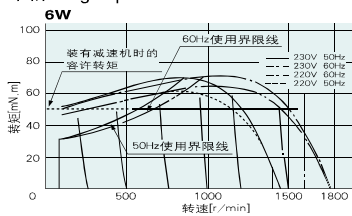


## ● 转速—转矩特性 Speed-torque characteristics

单相 Single-phase 110V



单相 Single-phase 220V



## ● 转矩电动机参数-100/-200系列

Torque motor parameter-100/-200V series

( )内为-200系列特有参数

( ) is Peculiar to 200 series

| 参数<br>Parameter            | 项目<br>Item | 定格时间<br>Rated time | 定格电压<br>Rated voltage | 频率<br>Frequency | 起动扭矩<br>Starting torque | 最大输出功率<br>Maximum<br>output power<br>W | 最大输出扭矩<br>Maximum<br>output torque<br>N.m | 最大输出时电流<br>Current at<br>maximum output<br>A | 最大输出时转速<br>Speed at<br>maximum output<br>r/min | 电容量<br>Capacitor<br>caacity<br>μF/VAC | 与减速机组合<br>尺寸对应页码<br>With gearbox<br>page No. |
|----------------------------|------------|--------------------|-----------------------|-----------------|-------------------------|----------------------------------------|-------------------------------------------|----------------------------------------------|------------------------------------------------|---------------------------------------|----------------------------------------------|
| 电机<br>Motor                |            |                    |                       | Hz              | N.m                     |                                        |                                           |                                              |                                                |                                       |                                              |
|                            |            |                    |                       |                 |                         |                                        |                                           |                                              |                                                |                                       |                                              |
| 70T—6W—1<br>(70T—6W—2)     | 5min       | 100V(200V)         | 50HZ                  | 0.15            | 6.5                     | 0.09                                   | 0.56 (0.3)                                | 750                                          | 8 (2)                                          | P11                                   |                                              |
|                            | 连续         | 60V (120V)         |                       | 0.056           | 2.6                     | 0.034                                  | 0.21 (0.12)                               |                                              |                                                |                                       |                                              |
| 80T—10W—1<br>(80T—10W—2)   | 5min       | 100V(200V)         | 50HZ                  | 0.223           | 10.5                    | 0.134                                  | 0.6 (0.32)                                | 750                                          | 10 (2.5)                                       | P13                                   |                                              |
|                            | 连续         | 60V (120V)         |                       | 0.113           | 3.9                     | 0.049                                  | 0.49 (0.20)                               |                                              |                                                |                                       |                                              |
| 80T—13W—1<br>(80T—13W—2)   | 5min       | 100V(200V)         | 50HZ                  | 0.28            | 13.2                    | 0.168                                  | 0.65 (0.35)                               | 750                                          | 12 (3)                                         | P13                                   |                                              |
|                            | 连续         | 60V (120V)         |                       | 0.141           | 4.5                     | 0.057                                  | 0.50 (0.26)                               |                                              |                                                |                                       |                                              |
| 90T—20W—1<br>(90T—20W—2)   | 5min       | 100V(200V)         | 50HZ                  | 0.32            | 20                      | 0.25                                   | 0.85 (0.5)                                | 750                                          | 16 (4)                                         | P15                                   |                                              |
|                            | 连续         | 60V (120V)         |                       | 0.1             | 6.0                     | 0.09                                   | 0.55 (0.323)                              |                                              |                                                |                                       |                                              |
| 100T—30W—1<br>(100T—30W—2) | 5min       | 100V(200V)         | 50HZ                  | 0.52            | 33                      | 0.42                                   | 1.18 (0.56)                               | 750                                          | 20 (5)                                         | P21                                   |                                              |
|                            | 连续         | 60V (120V)         |                       | 0.23            | 12                      | 0.151                                  | 0.6 (0.3)                                 |                                              |                                                |                                       |                                              |
| 100T—40W—1<br>(100T—40W—2) | 5min       | 100V(200V)         | 50HZ                  | 0.74            | 45                      | 0.6                                    | 1.75 (0.74)                               | 750                                          | 30 (6)                                         | P21                                   |                                              |
|                            | 连续         | 60V (120V)         |                       | 0.323           | 17                      | 0.225                                  | 0.866 (0.366)                             |                                              |                                                |                                       |                                              |

注：1、转矩电机有近似线性的转矩、转速运行特性。

2、转矩电机最大转矩在电机堵转点出现，而此时电机堵转电流增加不多。

3、若电机长期工作在堵转状态下，需加装强制冷却风机。

4、转矩电机具有良好的开环、闭环调速性能。

1.Torque motor has approximate linear torque, speed operating characteristics.

2.Maximum torque of torque motor appears at motor locked rotor point, while here motor locked rotor current does not increase much.

3.If motor works in locked rotor condition for a long time, forced cooling fan should be mounted.

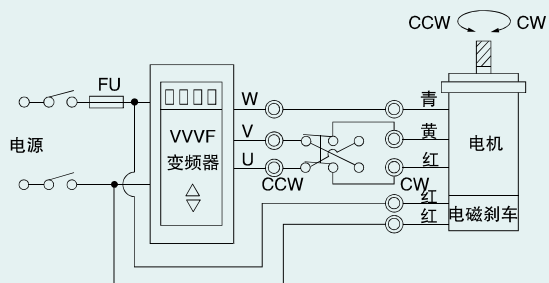
4.Torque motor has good open loop closed loop speed regulation performance



## ● 连结方式 Connecting type

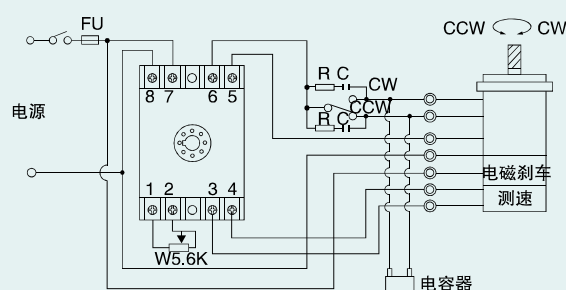
三相刹车电机配变频器

Three-phase brake motor with frequency converter



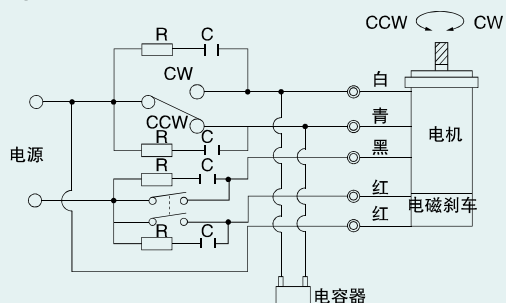
刹车带调速电机配SS速度控制器

Brake band speed regulating motor with SS speed controller



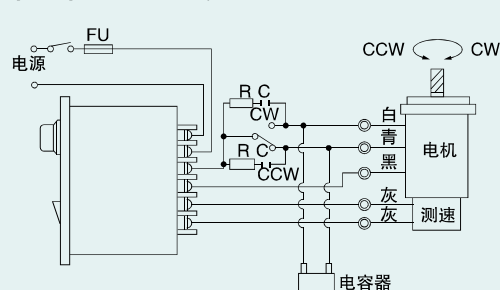
刹车电机接线图

Wiring diagram of brake motor



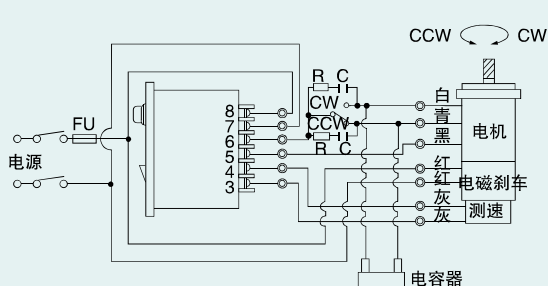
调速电机配US速度控制器

Speed regulating motor with US speed controller



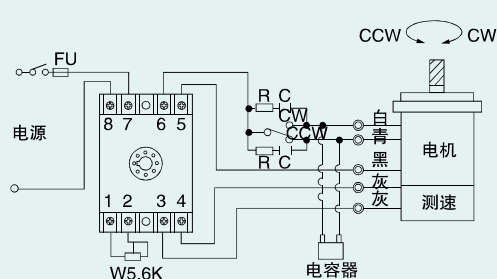
刹车带调速电机配US速度控制器

Brake band speed regulating motor with US speed controller



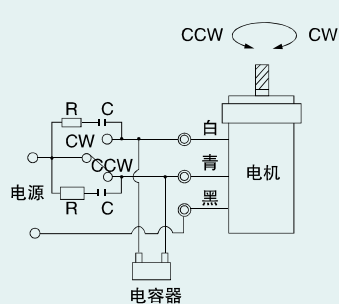
调速电机配SS速度控制器

Speed regulating motor with SS speed controller



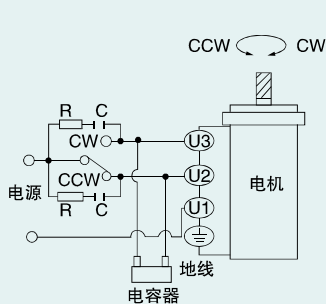
引出线电机

Outgoing line motor



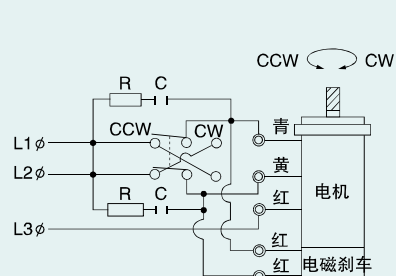
配端子箱电机

Motor with terminal box



三相带电磁刹车电机

Three-phase motor with electromagnet



图中R、C为阻容吸收回路，确保电机及相关控制部件可靠工作

The R and C circuit is resistance-capacitance absorption circuit, which ensures the reliable operation of the motor and relative control components.

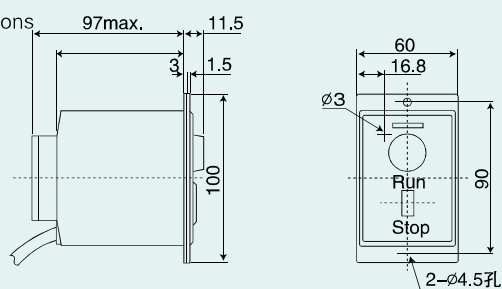
(R=5~330Ω C=0.1~0.22μF 250VAC(450VAC))



### ● US 速度控制器 US Speed controller



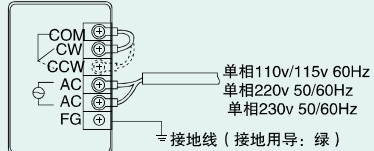
尺寸图 Dimensions



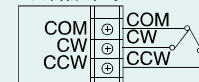
控制器接线图

Connection diagrams of the controller

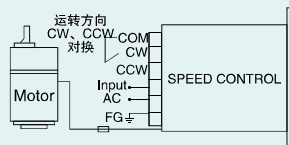
调整器背面



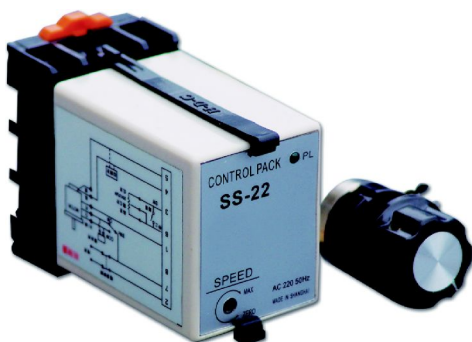
正反转操作时



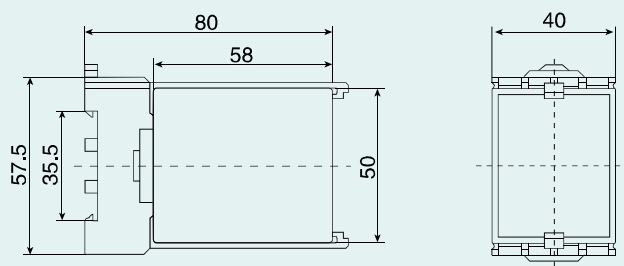
开关触点容量: AC250V感应负载5A以上



### ● SS 速度控制器 SS Speed controller

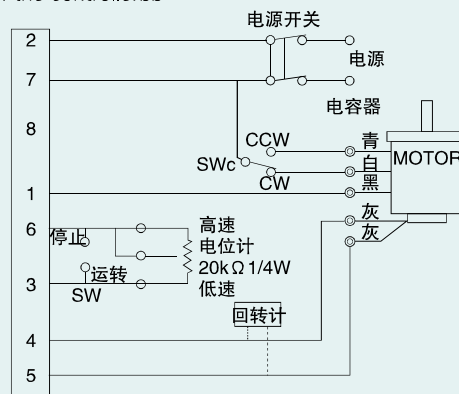


尺寸图 Dimensions



控制器接线图

Connection diagrams of the controller



注: 以上“接线图”仅供参考。  
"Connection diagrams" is for reference only.

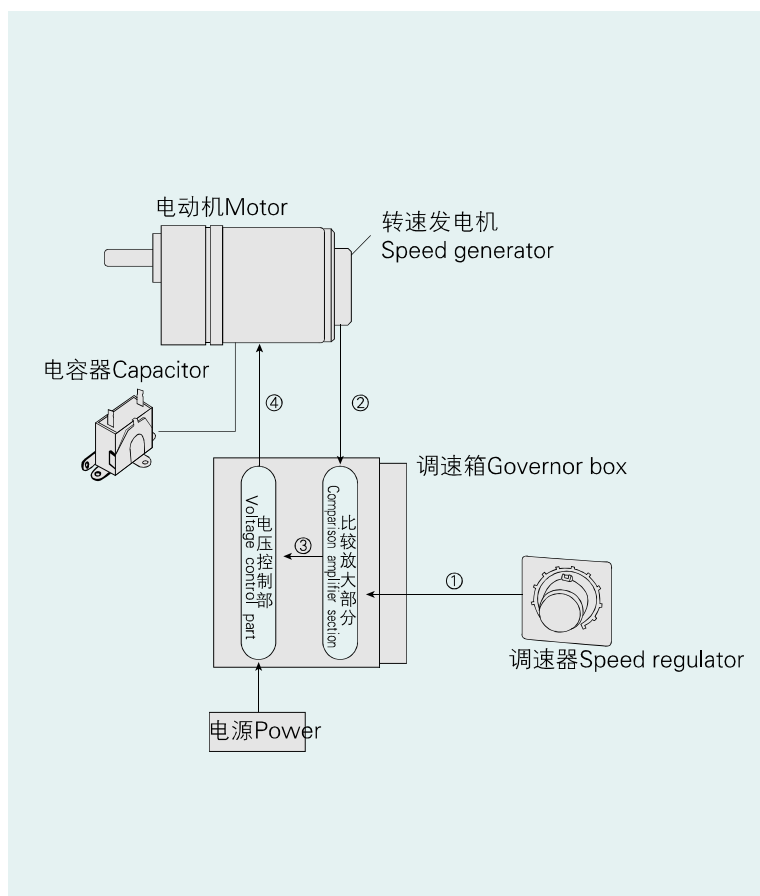


## ● 调速电机控制系统 Control system

### 控制原理

#### Control principle

- 由调速器提供速度设定电压。
- 检测出电动机转速并输出速度信号电压。
- 输出速度设定电压与速度信号电压的差。
- 为能达到所设定速度，按比较放大部分的输出提供电压给电动机。
- Speed lator provides speed setting voltage.
- Detects motor speed and outputs speed signal voltage.
- Output diffence between speed setting voltage and speed signal voltage.
- To reach the set speed,supply voltage to motor according to output of comparison amplifier section.



### 使用方法

#### Method of Use

- 操作步骤：速度控制器和电机接好后，接上AC电源，当控制器按钮调至RUN，从电机轴方向看，电机顺时针方向旋转。
- 不同的速度：基本型的速度控制器速度旋钮顺时针旋转，电机转速增加，反之电机转速减少，调整范围90-1350rpm。
- 关闭：将开关按钮指向STOP，电机运转停止，此按钮不是电源的开关按钮，需要长时间停止运转时，请另外设置电源开关。
- Operation:The speed control unit and the lead wire connector of the motor ae connected and then the piug cord is connected to ACpower.When the RUN/STOP swith of the control unit is switched to RUN,then it is turn clockwise.
- Variable Speed:If the SPEED VOLUME swith of the control unit is turned clockwise number of rotation of the motor increases and l it is tuned counter-clockwise,slows down.It is possible to control and designate the speed of the motor between 90-1350rpm.
- Stop:If the RUN/STOP switch of the control unit is switched to STOP,the motor stop.This switch is not an on-off switch for power.When the motor needs tone stopped for a long time,a separate power source should be installed and turned off.



# 6-25W

## □60mm



### ● 电机特性

List of motor characteristics

| 电机型号<br>Motor model | 输出功率<br>Output Power<br><br>W | 电 压<br>Voltage<br><br>VDC | 无负载 No load            |                             | 额定负载 Rated load        |                               |                    |       | 起动电流<br>Starting current<br><br>A | 起动扭矩 |       |
|---------------------|-------------------------------|---------------------------|------------------------|-----------------------------|------------------------|-------------------------------|--------------------|-------|-----------------------------------|------|-------|
|                     |                               |                           | 电流<br>Current<br><br>A | 转速<br>Revolution<br><br>RPM | 电流<br>Current<br><br>A | 转速<br>Revolution<br><br>r/min | 扭矩<br>Rated Torque |       |                                   | mN.m | gf.cm |
|                     |                               |                           |                        |                             |                        |                               | mN.m               | gf.cm |                                   |      |       |
| 60D6-12-30S         | 6                             | 12                        | 1.2                    | 3200                        | 1.3                    | 3000                          | 19.5               | 195   | 8.3                               | 220  | 2200  |
| 60D6-24-30S         |                               | 24                        | 0.35                   | 3100                        | 0.7                    |                               |                    |       | 4.3                               | 240  | 2400  |
| 60D6-90-30S         |                               | 90                        | 0.12                   | 3350                        | 0.07                   |                               |                    |       | 1.2                               | 240  | 2400  |
| 60D15-12-30S        | 15                            | 12                        | 0.8                    | 3200                        | 2.0                    | 3000                          | 49                 | 490   | 13.5                              | 370  | 3700  |
| 60D15-24-30S        |                               | 24                        | 0.4                    | 3300                        | 1.0                    |                               |                    |       | 7.7                               | 410  | 4100  |
| 60D15-90-30S        |                               | 90                        | 0.2                    | 3200                        | 0.4                    |                               |                    |       | 1.9                               | 450  | 4500  |
| 60D25-12-30S        | 25                            | 12                        | 1.2                    | 3200                        | 2.7                    | 3000                          | 80                 | 800   | 25.0                              | 750  | 7500  |
| 60D25-24-30S        |                               | 24                        | 0.35                   | 3100                        | 1.3                    |                               |                    |       | 22.0                              | 500  | 5000  |
| 60D25-90-30S        |                               | 90                        | 0.12                   | 3350                        | 0.35                   |                               |                    |       | 10                                | 2300 | 2300  |

### ● 减速电机允许负载

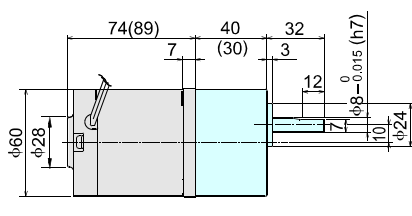
Allowable load for the gear-down motor

| 减速参数<br>Geared-down<br>parameter | 同步转速r/min<br>Synchronous speed |              | 1000        | 833         | 600         | 500         | 400         | 333         | 300         | 240         | 200         | 167          | 150          | 120          | 100          | 83           | 75           | 60           | 50           | 40           | 33           | 30           | 25           | 20           | 17           |
|----------------------------------|--------------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                  | 减速比 i<br>ratio                 |              | 3           | 3.6         | 5           | 6           | 7.5         | 9           | 10          | 12.5        | 15          | 18           | 20           | 25           | 30           | 36           | 40           | 50           | 60           | 75           | 90           | 100          | 120          | 150          | 180          |
| 最大允许负载<br>Max allowable<br>load  | 6W                             | kg.cm<br>N.m | 0.5<br>0.05 | 0.6<br>0.06 | 0.8<br>0.08 | 0.9<br>0.09 | 1.2<br>0.12 | 1.4<br>0.14 | 1.6<br>0.16 | 2.0<br>0.20 | 2.4<br>0.24 | 2.8<br>0.28  | 2.8<br>0.28  | 3.6<br>0.36  | 4.3<br>0.43  | 5.1<br>0.51  | 5.7<br>0.57  | 6.4<br>0.64  | 7.7<br>0.77  | 9.7<br>0.97  | 11.6<br>1.16 | 12.9<br>1.29 | 15.4<br>1.54 | 19.3<br>1.93 | 23.2<br>2.32 |
|                                  | 15W                            | kg.cm<br>N.m | 1.2<br>0.12 | 1.4<br>0.14 | 2.0<br>0.20 | 2.4<br>0.24 | 3.0<br>0.30 | 3.6<br>0.36 | 4.0<br>0.40 | 5.0<br>0.50 | 6.0<br>0.60 | 7.1<br>0.71  | 7.2<br>0.72  | 8.9<br>0.89  | 10.7<br>1.07 | 12.9<br>1.29 | 14.3<br>1.43 | 16.2<br>1.62 | 19.4<br>1.94 | 24.3<br>2.43 | 29.1<br>2.91 | 30.0<br>3.0  | 30.0<br>3.0  | 30.0<br>3.0  | 30.0<br>3.0  |
|                                  | 25W                            | kg.cm<br>N.m | 2.0<br>0.2  | 2.4<br>0.24 | 3.3<br>0.33 | 3.9<br>0.39 | 4.9<br>0.49 | 5.9<br>0.59 | 6.6<br>0.66 | 8.2<br>0.82 | 9.9<br>0.99 | 11.8<br>1.18 | 11.8<br>1.18 | 14.8<br>1.48 | 17.8<br>1.78 | 21.3<br>2.13 | 23.7<br>2.37 | 29.6<br>2.96 | 32.1<br>3.21 | 40.1<br>4.01 | 48.2<br>4.82 | 53.5<br>5.35 | 64.2<br>6.42 | 80.0<br>8.0  | 80.0<br>8.0  |

### ● 尺寸图

Dimensions

配减速箱型 With gearbox type 60D/60GK□

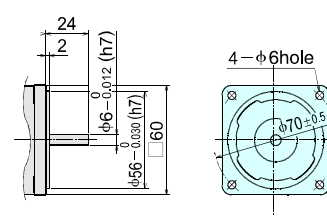


结构：电动机+减速器

重量：1.8 kg

减速比：20-250；图中()内的数值速比为3-15

电动机圆轴型 Circular shaft type 60D



结构：电动机

重量：1.5 kg

※ 以上参数仅供参考 It is for reference only.



# 25-40W

□80mm



## 电机特性

List of motor characteristics

| 电机型号<br>Motor model | 输出功率<br>Output Power | 电 压<br>Voltage | 无负载 No load   |                  | 额定负载 Rated load |                  |              |       | 起动电流<br>Starting current | 起动扭矩            |       |
|---------------------|----------------------|----------------|---------------|------------------|-----------------|------------------|--------------|-------|--------------------------|-----------------|-------|
|                     |                      |                | 电流<br>Current | 转速<br>Revolution | 电流<br>Current   | 转速<br>Revolution | 扭矩           |       |                          | Starting torque |       |
|                     |                      |                |               |                  |                 |                  | Rated Torque |       |                          |                 |       |
|                     | W                    | VDC            | A             | RPM              | A               | r/min            | mN.m         | gf.cm | A                        | mN.m            | gf.cm |
| 80D25-12-30S        | 25                   | 12             | 1.2           | 3200             | 2.7             | 3000             | 80           | 800   | 25                       | 750             | 7500  |
| 80D25-24-30S        |                      | 24             | 0.35          | 3100             | 1.3             |                  |              |       | 22                       | 1500            | 15000 |
| 80D25-90-30S        |                      | 90             | 0.12          | 3350             | 0.35            |                  |              |       | 10                       | 2300            | 23000 |
| 80D40-12-30S        | 40                   | 12             | 0.8           | 3300             | 4.8             | 3000             | 130          | 1300  | 35                       | 1200            | 12000 |
| 80D40-24-30S        |                      | 24             | 0.4           | 3150             | 2.5             |                  |              |       | 30                       | 2000            | 20000 |
| 80D40-90-30S        |                      | 90             | 0.18          | 3350             | 0.48            |                  |              |       | 10                       | 2300            | 23000 |

## 减速电机允许负载

Allowable load for the gear motor

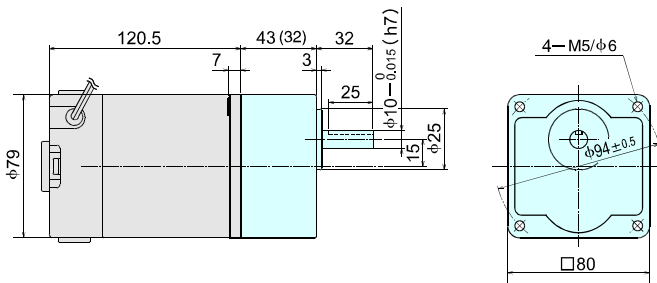
| 减速参数<br>Geared-down<br>parameter |     | 同步转速r/min<br>Synchronous speed                          | 1000       | 833         | 600         | 500         | 400         | 333         | 300          | 240          | 200          | 167          | 150          | 120          | 100          | 83           | 75           | 60           | 50           | 40           | 33           | 30           | 25           | 20          | 17   |
|----------------------------------|-----|---------------------------------------------------------|------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------|
|                                  |     | 减速比 i<br>Geared-down ratio                              | 3          | 3.6         | 5           | 6           | 7.5         | 9           | 10           | 12.5         | 15           | 18           | 20           | 25           | 30           | 36           | 40           | 50           | 60           | 75           | 90           | 100          | 120          | 150         | 180  |
| 最大允许负载<br>Max allowable<br>load  | 25W | $\frac{\text{kg}\cdot\text{cm}}{\text{N}\cdot\text{m}}$ | 2.0<br>0.2 | 2.4<br>0.24 | 3.3<br>0.33 | 3.9<br>0.39 | 4.9<br>0.49 | 5.9<br>0.59 | 6.6<br>0.66  | 8.2<br>0.82  | 9.9<br>0.99  | 11.8<br>1.18 | 11.8<br>1.18 | 14.8<br>1.48 | 17.8<br>1.78 | 21.3<br>2.13 | 23.7<br>2.37 | 29.6<br>2.96 | 32.1<br>3.21 | 40.1<br>4.01 | 48.2<br>4.82 | 53.5<br>5.35 | 64.2<br>6.42 | 80.0<br>8.0 | 80.0 |
|                                  | 40W | $\frac{\text{kg}\cdot\text{cm}}{\text{N}\cdot\text{m}}$ | 3.0<br>0.3 | 3.8<br>0.38 | 5.3<br>0.53 | 6.3<br>0.63 | 7.9<br>0.79 | 9.5<br>0.95 | 10.5<br>1.05 | 13.2<br>1.32 | 15.8<br>1.58 | 19.0<br>1.90 | 19.0<br>1.90 | 23.7<br>2.37 | 28.5<br>2.85 | 34.2<br>3.42 | 38.0<br>3.80 | 47.5<br>4.75 | 51.5<br>5.15 | 64.4<br>6.44 | 77.2<br>7.72 | 80.0<br>8.0  | 80.0<br>8.0  | 80.0<br>8.0 | 80.0 |

## 尺寸图

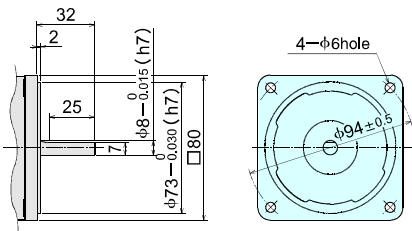
Dimensions

配减速箱型 With gearbox type 80D/80GK□

电动机圆轴型 Circular shaft type 80D



结构：电动机+减速器  
重量：2.6 kg  
减速比：20-250；图中()内的数值速比为3-15



结构：电动机  
重量：2.0 kg

※ 以上参数仅供参考 It is for reference only.



# 60-120W

## □90mm



### 电机特性

List of motor characteristics

| 电机型号<br>Motor model | 输出功率<br>Output Power | 电 压<br>Voltage | 无负载 No load   |                  | 额定负载 Rated load |                  |                    |       | 起动电流<br>Starting current | 起动扭矩 |       |
|---------------------|----------------------|----------------|---------------|------------------|-----------------|------------------|--------------------|-------|--------------------------|------|-------|
|                     |                      |                | 电流<br>Current | 转速<br>Revolution | 电流<br>Current   | 转速<br>Revolution | 扭矩<br>Rated Torque |       |                          | mN.m | gf.cm |
|                     |                      |                |               |                  |                 |                  | mN.m               | gf.cm |                          |      |       |
| 90D60-12-30S        | 60                   | 12             | 1.3           | 3100             | 7.5             | 3000             | 200                | 2000  | 40.0                     | 1800 | 18000 |
| 90D60-24-30S        |                      | 24             | 0.5           | 3150             | 3.5             |                  |                    |       | 35.0                     | 2200 | 22000 |
| 90D60-90-30S        |                      | 90             | 0.2           | 3100             | 0.8             |                  |                    |       | 12.0                     | 2400 | 24000 |
| 90D90-12-30S        | 90                   | 12             | 2.0           | 3450             | 10.0            | 3000             | 290                | 2900  | 60.0                     | 2000 | 20000 |
| 90D90-24-30S        |                      | 24             | 0.9           | 3050             | 5.0             |                  |                    |       | 40.0                     | 3500 | 35000 |
| 90D90-90-30S        |                      | 90             | 0.3           | 3200             | 1.4             |                  |                    |       | 15.0                     | 3200 | 32000 |
| 90D120-12-30S       | 120                  | 12             | 2.3           | 3450             | 13              | 3000             | 420                | 4200  | 104.0                    | 3600 | 36000 |
| 90D120-24-30S       |                      | 24             | 1.3           | 3050             | 72              |                  |                    |       | 75.0                     | 2500 | 25000 |
| 90D120-90-30S       |                      | 90             | 0.4           | 3200             | 20              |                  |                    |       | 17.0                     | 3700 | 37000 |

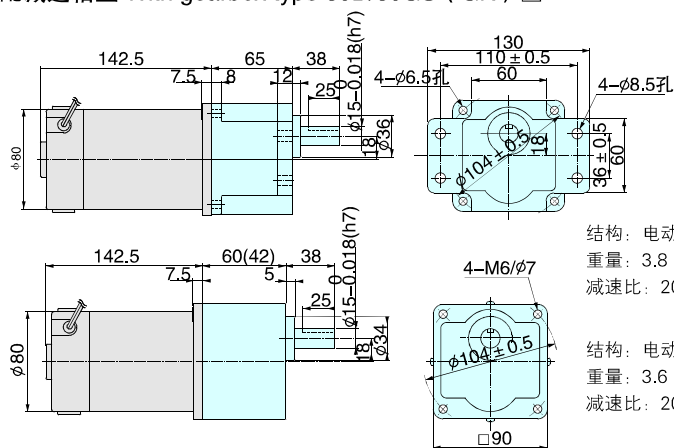
### 减速电机允许负载

Allowable load for the gear motor

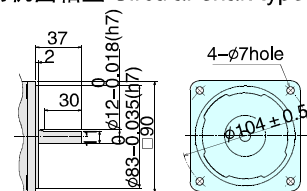
| 减速参数<br>Geared-down<br>parameter | 同步转速r/min<br>Synchronous speed |              | 1000        | 833          | 600          | 500          | 400          | 333          | 300          | 240          | 200          | 167          | 150          | 120          | 100          | 83           | 75           | 60             | 50               | 40             | 33             | 30             | 25             | 20             | 17        |
|----------------------------------|--------------------------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|------------------|----------------|----------------|----------------|----------------|----------------|-----------|
|                                  | 减速比 i<br>ratio                 |              | 3           | 3.6          | 5            | 6            | 7.5          | 9            | 10           | 12.5         | 15           | 18           | 20           | 25           | 30           | 36           | 40           | 50             | 60               | 75             | 90             | 100            | 120            | 150            | 180       |
| 最大允许负载<br>Max allowable<br>load  | 60W                            | kg.cm<br>N.m | 4.7<br>0.47 | 5.7<br>0.57  | 7.9<br>0.79  | 9.5<br>0.95  | 11.8<br>1.18 | 14.2<br>1.42 | 15.8<br>1.58 | 17.8<br>1.78 | 21.4<br>2.14 | 25.6<br>2.56 | 28.5<br>2.85 | 32.2<br>3.22 | 38.6<br>3.86 | 16.3<br>1.63 | 51.5<br>5.15 | 64.4<br>6.44   | 77.2<br>7.72     | 86.3<br>8.63   | 103.5<br>10.35 | 115.1<br>11.51 | 138.1<br>13.81 | 172.6<br>17.26 | 200<br>20 |
|                                  | 90W                            | kg.cm<br>N.m | 7.1<br>0.71 | 8.5<br>0.85  | 11.8<br>1.18 | 14.2<br>1.42 | 17.7<br>1.77 | 21.3<br>2.13 | 23.7<br>2.37 | 26.6<br>2.66 | 32<br>3.2    | 38.4<br>3.84 | 42.6<br>4.26 | 48.2<br>4.82 | 57.8<br>5.78 | 69.4<br>6.94 | 77.1<br>7.71 | 96.4<br>9.64   | 115.6<br>11.56   | 129.2<br>12.92 | 155.1<br>15.51 | 172.3<br>17.23 | 200<br>20      | 200<br>20      | 200<br>20 |
|                                  | 120W                           | kg.cm<br>N.m | 9.5<br>0.95 | 11.4<br>1.14 | 15.8<br>1.58 | 19.0<br>1.90 | 23.7<br>2.37 | 28.4<br>2.84 | 31.6<br>3.16 | 35.6<br>3.56 | 42.7<br>4.27 | 51.2<br>5.12 | 56.9<br>5.69 | 64.4<br>6.44 | 77.2<br>7.72 | 92.7<br>9.27 | 103<br>10.3  | 128.7<br>12.87 | 154.41<br>15.441 | 172.6<br>17.26 | 200<br>20      | 200<br>20      | 200<br>20      | 200<br>20      | 200<br>20 |

### 尺寸图 Dimensions

配减速箱型 With gearbox type 60D/60GS ( GK ) □



电动机圆轴型 Circular shaft type 90D



※ 以上参数仅供参考 It is for reference only.

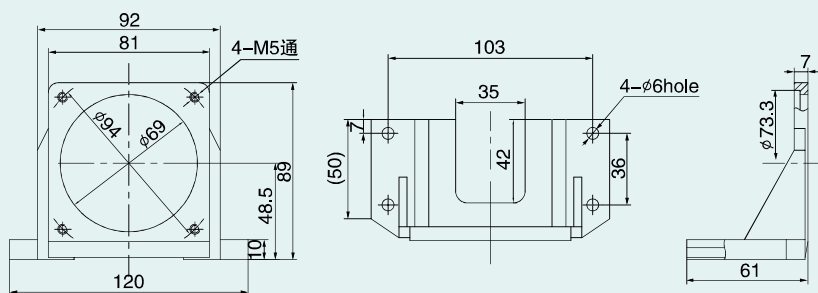


● 电机安装底座

Install base of the gear motor

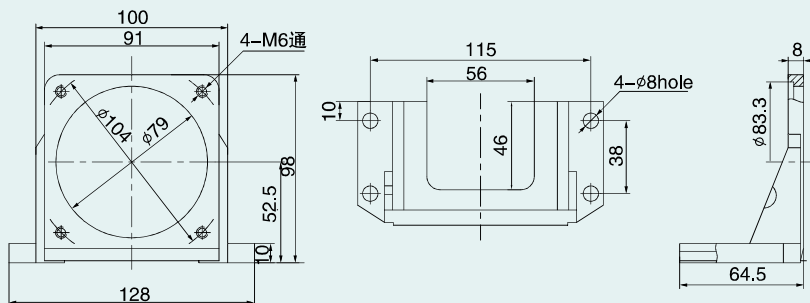


□ 80mm



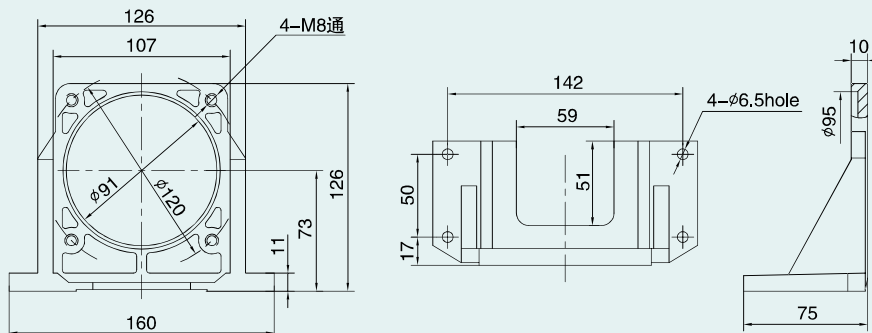
材质: 铝合金压铸  
重量: 0.2 kg

□ 90mm



材质: 铝合金压铸  
重量: 0.2 kg

□ 100mm



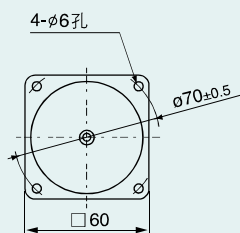
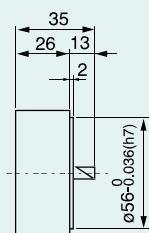
材质: 铝合金压铸  
重量: 0.4 kg



● 中间减速箱  
Middle speed reducer

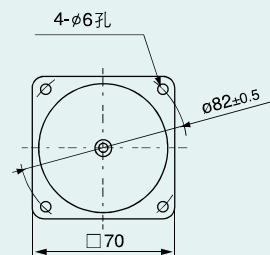
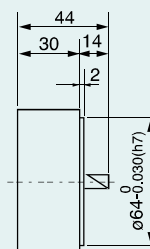


60GK10X



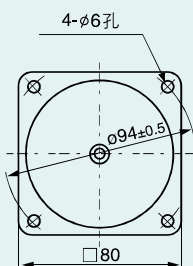
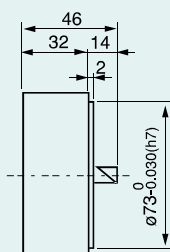
结构：中间减速器  
重量：0.2 kg  
减速比：10

70GK10X



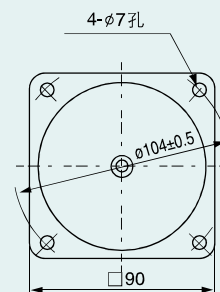
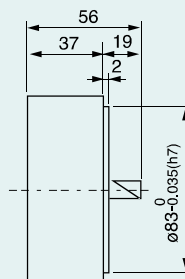
结构：中间减速器  
重量：0.3 kg  
减速比：10

80GK 10X



结构：中间减速器  
重量：0.5 kg  
减速比：10

90GK10X

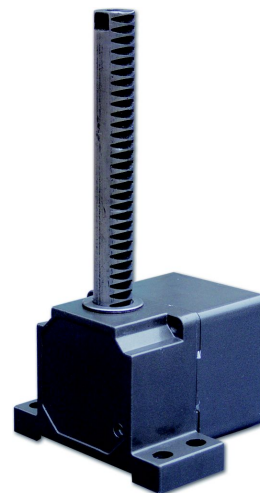
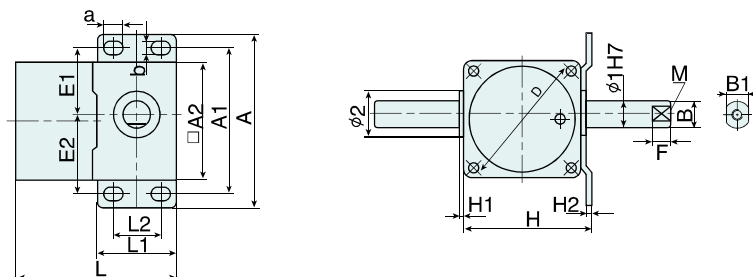


结构：中间减速器  
重量：1 kg  
减速比：10



### ● 垂直直线齿轮箱

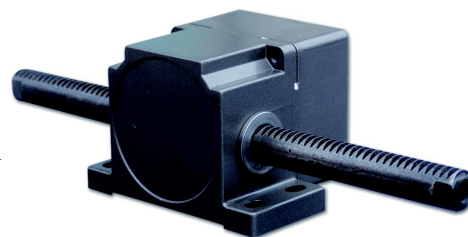
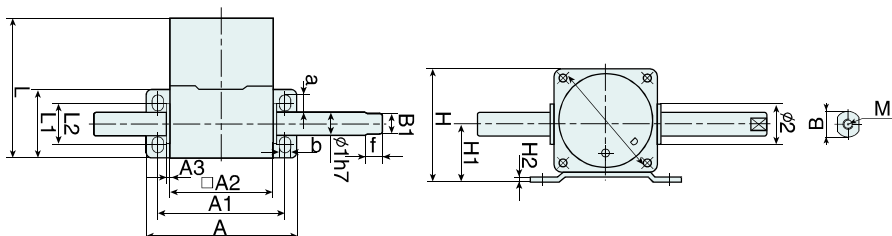
Linear type gear head-Vertical



| 型 号  | L    | L1   | L2 | A   | A1  | A2 | E1   | E2   | a   | b   | ø1 | ø2 | D   | f  | B    | B1 | H  | H1  | H2  | M  |
|------|------|------|----|-----|-----|----|------|------|-----|-----|----|----|-----|----|------|----|----|-----|-----|----|
| 60LF | 81.5 | 40   | 24 | 88  | 74  | 60 | 34.5 | 39.5 | 9.5 | 6.5 | 14 | 24 | 70  | 9  | 13   | 12 | 66 | 2   | 3   | 5  |
| 70LF | 84   | 40   | 24 | 110 | 90  | 70 | 47   | 43   | 9.5 | 6.5 | 14 | 26 | 82  | 9  | 12.5 | 12 | 76 | 3   | 2.5 | 5  |
| 80LF | 96.5 | 53.5 | 30 | 120 | 100 | 80 | 45   | 55   | 10  | 8   | 20 | 32 | 94  | 10 | 19.7 | 17 | 82 | 3.2 | 12  | 10 |
| 90LF | 121  | 55   | 29 | 140 | 116 | 90 | 53   | 63   | 14  | 12  | 25 | 40 | 104 | 12 | 24.7 | 21 | 95 | 3.2 | 18  | 12 |

### ● 水平直线齿轮箱

Linear type gear head-Horizontal



| 型 号  | L    | L1   | L2 | A   | A1  | A2 | A3  | a   | b   | ø1 | ø2 | D   | f  | B    | B1 | H  | H1   | H2  | M  |
|------|------|------|----|-----|-----|----|-----|-----|-----|----|----|-----|----|------|----|----|------|-----|----|
| 60LB | 81.5 | 40   | 24 | 88  | 74  | 60 | 2   | 9.5 | 6.5 | 14 | 24 | 70  | 9  | 13   | 12 | 66 | 33.5 | 3   | 5  |
| 70LB | 84   | 40   | 24 | 110 | 90  | 70 | 3   | 9.5 | 6.5 | 14 | 26 | 82  | 9  | 12.5 | 12 | 76 | 39   | 2.5 | 5  |
| 80LB | 96.5 | 53.5 | 30 | 120 | 100 | 80 | 3.2 | 10  | 8   | 20 | 32 | 94  | 10 | 19.7 | 17 | 82 | 37   | 12  | 10 |
| 90LB | 121  | 55   | 29 | 140 | 116 | 90 | 3.2 | 14  | 12  | 25 | 40 | 104 | 12 | 24.7 | 21 | 95 | 45   | 18  | 12 |

### ● 直线齿轮箱参数

Parameter of the Linear type gear head

| 型 号<br>Type | 速度 (mm/s)<br>Speed | 最大搬运质量(kg)<br>Max.handling quality | 齿条有效行程(mm)<br>Rack effective travel | 电机机座号<br>Frame size | 功 率(W)<br>Power |
|-------------|--------------------|------------------------------------|-------------------------------------|---------------------|-----------------|
| 60LF(B)     | 10~100             | 20                                 | 100~500                             | 60                  | 6               |
| 70LF(B)     | 10~100             | 40                                 | 100~500                             | 70                  | 15              |
| 80LF(B)     | 10~100             | 70                                 | 100~700                             | 80                  | 25              |
| 90LF(B)     | 10~100             | 140                                | 100~1000                            | 90                  | 40~120          |



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