

SAILI 赛立传动

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

SAILI 赛立传动 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.

SAILI 赛立传动 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 **SAILI** 赛立传动 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 tachogenerator 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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● 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 $-10 \sim +40^{\circ}C$
 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: $-10 \sim +40^{\circ}C$
 relative humidity: 15% ~ 90%

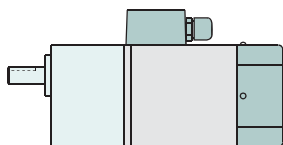
注意事项：在齿轮出轴上安装联轴器、皮带轮等传动机构时，不可直接在出轴上以工具敲击安装，否则会造成减速器内部的损伤。

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

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

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

(单位: N.m)

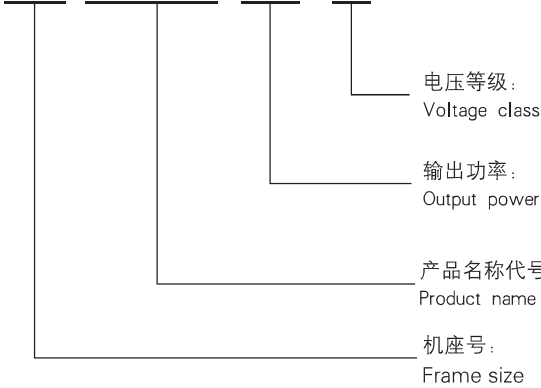
同步转速 r/min	500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1.5	1
减速比i	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1000	1500
□60	6W	0.11	0.18	0.26	0.45	0.54	0.80	0.97	1.47	1.80	2.45						
	10W	0.16	0.26	0.40	0.60	0.72	1.20	1.46	2.02	2.40	2.96						
□70	15W	0.28	0.48	0.75	1.18	1.47	2.15	2.35	3.92	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

输出功率:
Output power

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

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

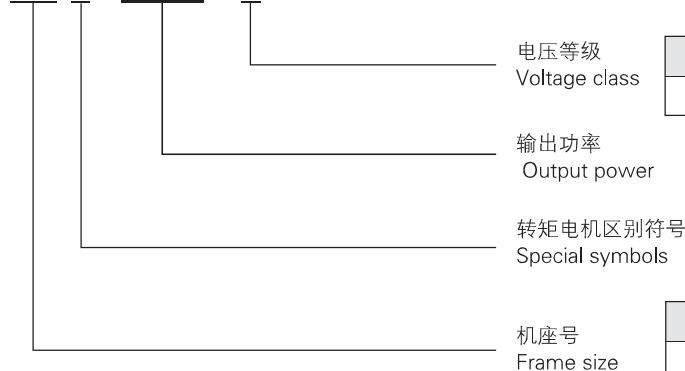
6	15	25	40	60	90	120
6W	15W	25W	40W	60W	90W	120W

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

输出功率
Output power

转矩电机区别符号
Special symbols

机座号
Frame size

1	2
100V	200V

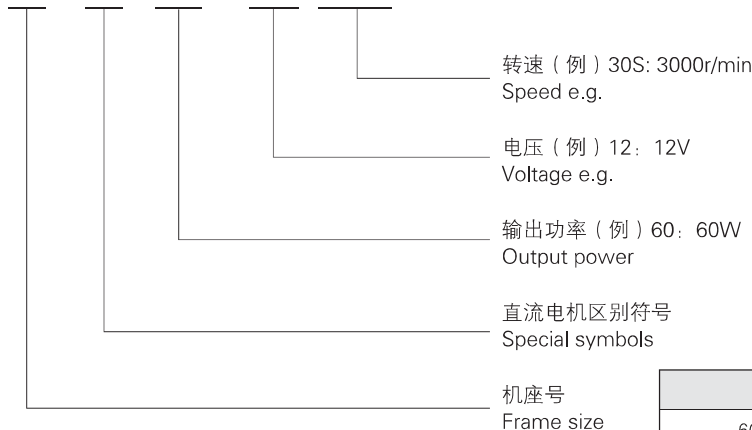
60	70	80	90	100
60x60	70x70	80x80	90x90	104 × 104



● 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 Motor model		规格 Specs	输出功率 Output Power W	电源电压 Voltage V	频率 Frequency Hz	电流 Current A	起动扭矩 Starting Torque		额定扭矩 Rated Torque		额定转速 Rated Revolution r/min	电容量/耐压 Capacity/Me μ F/VAC
公司型号 JWD types	对应其它厂家 型号Other types						mN.m	gf.cm	mN.m	gf.cm		
60YYJT6-3	2IK6GK 2IK6A	感应 Induction	6	单相 1-phase 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 2RK6A	可逆Reversible 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 2IK6A	感应 Induction	6	单相 1-phase 110	50	0.2	38	380	47.7	477	1200	2/250
					60	0.18	30	300	39.5	395	1450	2/250
	2RK6GK 2RK6A	可逆Reversible 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 2IK6A	—	6	三相 3-phase 380	50	0.03	100	1000	47.7	477	1200	—
60YSCJ6-3	2RK6GK 2RK6A	—	6	三相 3-phase 220	50	0.03	83	830	39.5	395	1450	—
					60	0.05	100	1000	47.7	477	1200	—
60YYJT10-3	2IK10GK 2IK10A	感应 Induction	10	单相 1-phase 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 2RK10A	可逆Reversible 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 2IK10A	感应 Induction	10	单相 1-phase 110	50	0.20	60	600	80	800	1200	3/250
					60	0.20	49	490	65.8	658	1450	3/250
	2RK10GK 2RK10A	可逆Reversible 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

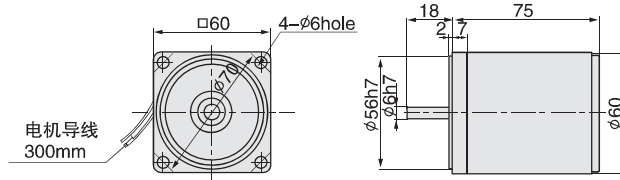
Allowable load for the gear motor

减速参数 Geared-down parameter	同步转速r/min Synchronous speed		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1.5	1
	减速比i 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 Max allowable load	6W	$\frac{\text{Kg.cm}}{\text{N.m}}$	1.15 0.11	1.85 0.18	2.67 0.26	4.57 0.45	5.46 0.54	8.07 0.80	9.74 0.97	14.70 1.47	18.05 1.80	24.50 2.45							
	10W	$\frac{\text{Kg.cm}}{\text{N.m}}$	1.63 0.16	2.65 0.26	4.07 0.40	6.07 0.60	7.20 0.72	12.0 1.20	14.61 1.46	20.23 2.02	24.0 2.40	29.60 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，确保齿轮减速机正常运行。
- 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

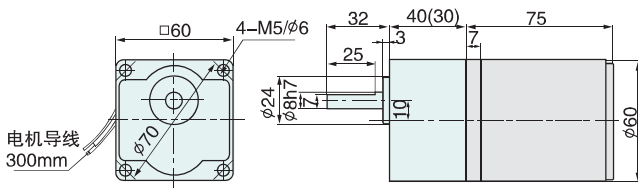
60YYJ6 (10)
60YSCJ6



结构：电动机
重量：0.8kg

● 定速型 Optical axis type

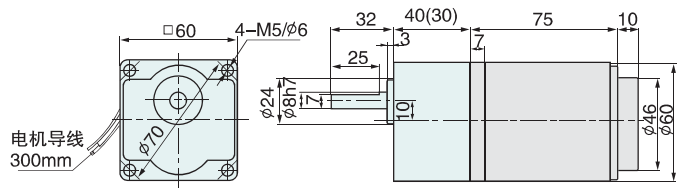
60YYJ6 (10) /60GK□
60YSCJ6



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

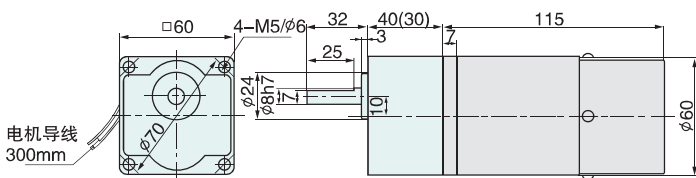
60YYJT6 (10) /60GK□



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

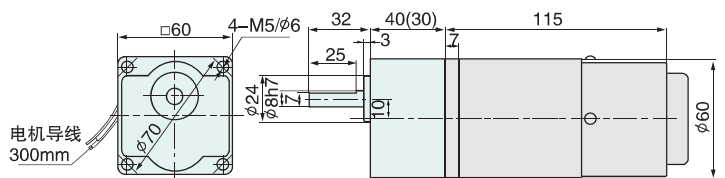
60YYJ6 (10) /60GK□
60YSCJ6



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