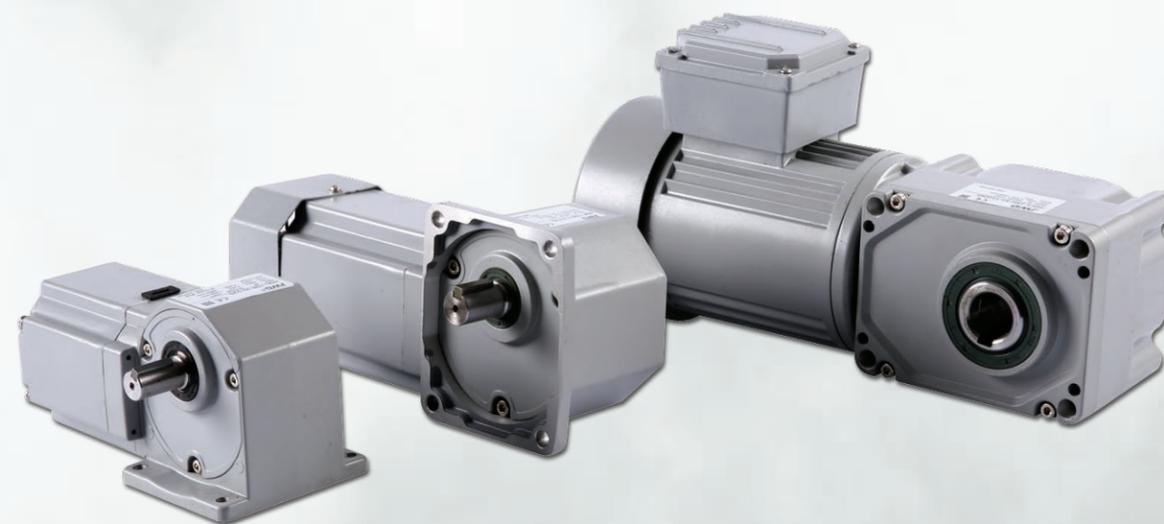




HG直交轴齿轮减速机系列

HYPOID GEAR MOTOR SERIES



台州市金维达电机有限公司
Taizhou JWD Motor Co.,Ltd.

地址: 浙江省台州市椒江东太和路98-3号
Add: No.98-3 Dongtaihe Road, Jiaojiang, Taizhou, Zhejiang, China
电话Tel: 0086-576-88888290 88888730
传真Fax: 0086-576-88880181
邮编P.C.: 318000
E-mail: jwd@jwdmotor.com
<http://www.jwdmotor.com>
2023年8月版

JWD MOTOR CO.,LTD.

高强度 长寿命 低噪音 金维达减速电动机系列



通过GB/T19001-2016/ISO9001:2015认证/注册
注册号: 00120Q34320R4M/3300



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HG系列齿轮减速电子调速电动机是由单相、三相异步电动机、直交轴齿轮减速箱、永磁测速发电机和电子调速器组成(简称HG直交轴减速电机)。

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: 3 ~ 1: 250之间供顾客选择。

公司获得GB/T19001-2016/ISO9001:2015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, HG series of asynchronous motor with gear speed and electric speed control is composed of single-phase or three-phase asynchronous motor, hypoid gearbox, permanent-magnet tachogenerator and electronic speed control(called "HG hypoid gear motor" for short).

The reduction gearbox ratio of Jinweida motor is 1: 3 ~ 1: 250 which are for customers to choose.

The company has been passed the attestation of GB/T19001-2016/ISO9001:2015 Quality management system.

Jinweida gear motor has also been assessed 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.

● 特点与用途

Characteristic and use

HG系列减速机采用了准双曲面齿轮设计, 性能上兼有蜗轮蜗杆齿轮的低噪音和伞齿轮的高效率特点:

● 高效节能

双曲面齿轮的滑动摩擦较小效率高达98%, HG系列减速机效率比蜗轮减速机提高15%~40%左右。

● 体积小巧

准双曲面齿轮中心距比蜗轮副中心距离缩小30%, HG系列减速机体积趋于小型化。

● 低噪音

伞齿轮的啮合一般<2齿, 而准双曲面齿轮拥有>2.5齿的啮合, 其运转噪音比伞齿轮更低。

● 高强度、长寿命

准双曲面由特殊钢材经过先进的加工工艺、渗碳硬化工艺, 其强度、寿命远远高出蜗轮减速机; HG系列齿轮减速机在设计时采用高强度的箱体设计、增大齿轴轴径、选用承载能力更强的高精度轴承, 适用于对扭矩要求更加苛刻的工作场所。

● 安装方便

不受输出轴方向限制, 同时提供空心轴系列产品, 让用户选用、安装更加灵活方便。

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。



HG minitype gear motor series used hypoid gear design, performance, both worm gear and bevel gear with low noise characteristics of high efficiency:

1. **Energy efficient** Hypoid gear smaller sliding friction gear efficiency up to 98%, HG series worm gear reducer efficiency ratio increased by 15% ~ 40%.

2. **Compact** Hypoid gear center distance from the center than the worm gear reduced 30%, HG series reducer sizes become smaller.

3. **Low noise** Bevel gear meshing generally <2 teeth, and hypoid gears have > 2.5 teeth meshing, the operating noise lower than the bevel gear.

4. **High strength, long life** Hypoid gear been advanced by the special steel processing technology, carburizing hardening process, its strength, life is far higher than the worm gear; HG series gear reducer used in the design of high-strength box design, increasing the gear shaft axis Drive, choose high-precision bearing load capacity, torque requirements applicable to the more demanding workplace.

5. **Easy installation** From the output axis limits, while providing the hollow shaft products, allows users to select, install more flexible and convenient.

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 gear motor

- | | |
|---|---|
| <ul style="list-style-type: none"> ● 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: 80K 电机用导线: CQC认证、600V ● 基本工况 工作制: 连续(SI) 冷却方式: IC40 ● 基本环境条件 温度: $-10\sim +50^{\circ}C$ 相对湿度: 15%~90% | <ul style="list-style-type: none"> ● General technical condition insulation resistance: $\geq 20M\Omega$ (normality) insulation strength: 1500V/1min (no breakdown or flashover) limit of tem rise: 80K wire for motor: CQC、600V ● Basic work condition work system: continuous(si) way of cooling: IC 40 ● Basic environment condition temperature: $-10\sim +50^{\circ}C$ relative humidity: 15%~90% |
|---|---|

● 注意事项

Attention items

- 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;
- 与其它机器连接时, 请先确认好旋转方向。弄错方向的话, 会致伤, 损坏装置。
- 请不要在接线盒盖打开的状态下运转电机。
- 不要让制动器附着上水或油脂类, 否则有可能因制动器故障造成失控落下事故的危险。
- 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.
- Connection with other machines, make sure a good rotation. Wrong direction, will be injured, damage the device.
- Please do not open the terminal box cover of the operating motor.
- Do not let brake attached to the water or oils, otherwise risk falling out of control due to brake failure caused the accident risk.

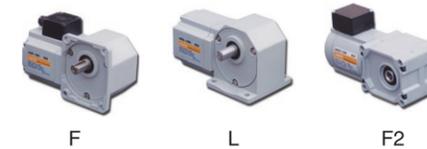

● HG系列减速机型号含义

Type meaning of the HG gear motor series

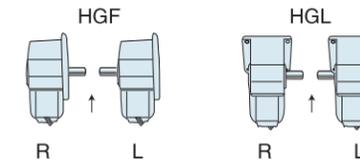
HG F - 18 R - 15 - T 90 B - G1 F1 Q1 - [M]

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

- ① 减速机类型: HG表示直交轴准双曲面齿轮减速电机
Reducer type: HG hypoid gear motor
- ② 安装方式: F单面法兰 L底脚安装 F2双面法兰
Installation: F flange type; L undersurface type; F2 double flange type



- ③ 输出轴或孔径: 18表示输出轴(孔)直径为18mm
Output shaft: 18 (hollow) output shaft diameter is 18mm
- ④ 出轴方向(以电机向减速机方向看): R右出轴; L左出轴; D左右出轴; N空心轴
Shaft direction: R right output shaft; L left output shaft; D right and left output shafts; N hollow output shaft



- ⑤ 减速比: 15表示减速比15
Ratio: 15 ratio 1:15
- ⑥ 电机相数: T表示三相电机 S表示单相电机
Motor phase: T 3-Phase; S 1-Phase
- ⑦ 电机功率: 90即90W
Power: 90 is 90W
- ⑧ 电机附件: K带接线盒; B带刹车器; AB带手动释放刹车器; T带调速; F带普通风叶; AF带强制风扇
Accessories: K with terminal box; B with brake; AB with manually release the brake; T with speed regulation; F with fan; AF with axial flow fan

● 典型标准样式示意 Typical style

- 双面法兰空心轴标准位置:
Double flange type—hollow output shaft



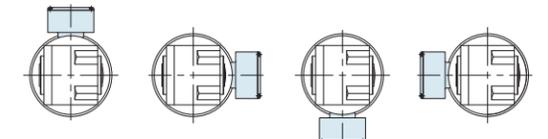
齿轮箱盖朝向我们
the gearbox cover faces us
 接线盒在上方
the terminal box is above
 出线口朝电机尾部
the wire inlet faces the rear of the motor
 出气塞在上侧面
the breather plug is on the upper side

- 双面法兰右出轴标准位置:
Double flange type—right output shaft



齿轮箱盖朝向我们
the gearbox cover faces us
 输出轴朝向我们
the output shaft faces us
 接线盒在上方
the terminal box is above
 出线口朝电机尾部
the wire inlet faces the rear of the motor
 出气塞在上侧面
the breather plug is on the upper side

- ⑨ 接线盒方位(以齿轮箱朝电动机方向看)
Direction of terminal box

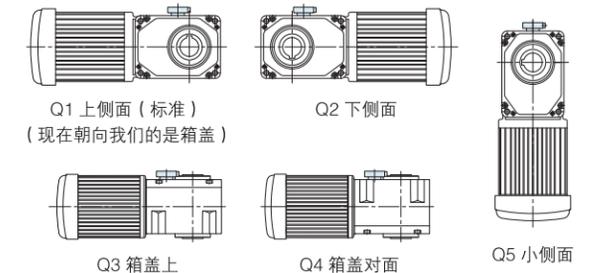


G1上方(标准) G2后方 G3下方 G4前方

- ⑩ 接线盒出线口方向(以正视于接线盒的盖看, 不考虑透视)
Wire inlet direction

| F1朝电动机(标准) | F2朝齿轮箱 |
|-----------------|-----------------|
| 电动机 → 接线盒 → 齿轮箱 | 电动机 → 接线盒 → 齿轮箱 |
| F3朝上 | F4朝下 |
| 电动机 → 接线盒 → 齿轮箱 | 电动机 → 接线盒 → 齿轮箱 |

- ⑪ 齿轮箱上出气塞安装位置
Breather plug position



- ⑫ 标准型/缩框型区分标识: 无M表示标准型; 标M表示缩框型
none: standard type; with M: mini type

15/25W



电机特性

List of motor characteristics

| 减速机型号 Model | 输出功率 Output Power W | 电源相数 Phase | 电源电压 Voltage V | 频率 Frequency Hz | 电流 Current A | 电容容量/耐压 Capacity/Ve μ F/VAC |
|--|---------------------------|---------------|----------------------|-----------------------|--------------------|---------------------------------------|
| F R K HGL - \square L - \square -S15 B F2 D T N F | 15 | 单相 1-phase | 220 | 50 | 0.15 | 1.2/450 |
| | | | 110 | 60 | 0.18 | 1.5/450 |
| | | | 60 | 50 | 0.33 | 5/250 |
| | | 三相 3-phase | 380 | 50 | 0.06 | — |
| | | | 220 | 60 | 0.055 | — |
| | | | 220 | 60 | 0.1 | — |
| F R K HGL - \square L - \square -T15 B F2 D T N F | 25 | 单相 1-phase | 220 | 50 | 0.22 | 1.5/450 |
| | | | 110 | 60 | 0.26 | 2/450 |
| | | | 60 | 50 | 0.48 | 6/250 |
| | | 三相 3-phase | 380 | 50 | 0.14 | — |
| | | | 220 | 60 | 0.12 | — |
| | | | 220 | 60 | 0.24 | — |

- 电机额定转速、额定电流允许在 $\pm 5\%$ 范围内变动。
- Permissible change in rated speed and rated current of the motor is within the range of $\pm 5\%$.

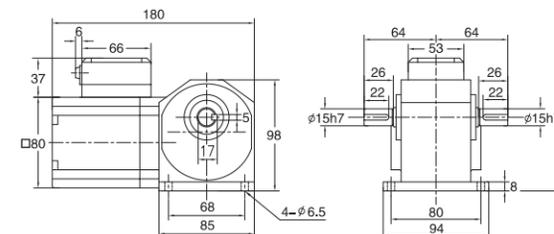
减速电机允许负载

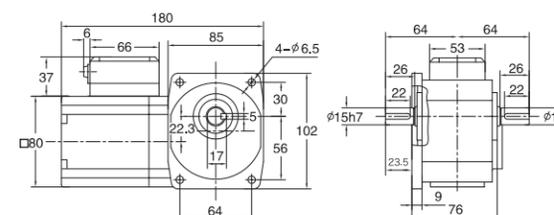
Allowable load for the gear motor

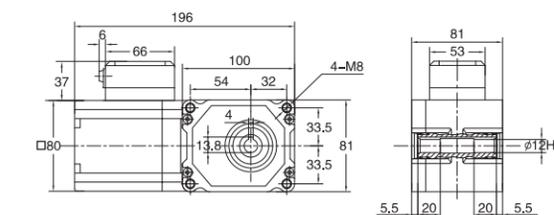
| 减速参数 Geared-down parameter | 同步转速r/min Synchronous speed | | | | | | | | | | | | | | | |
|----------------------------------|--------------------------------|-----|------|------|------|------|------|------|------|------|------|----|-----|----|----|----|
| | 150 | 100 | 75 | 60 | 50 | 37.5 | 30 | 25 | 18.8 | 15 | 12.5 | 10 | 7.5 | 6 | | |
| 最大允许负载 Max allowable load | 15W | | 0.64 | 0.95 | 1.27 | 1.59 | 1.91 | 2.54 | 3.17 | 3.81 | 4.8 | 6 | 7.2 | 9 | 12 | 15 |
| | 25W | | 1.07 | 1.58 | 2.12 | 2.65 | 3.18 | 4.23 | 5.28 | 6.35 | 8 | 10 | 12 | 15 | 20 | 25 |

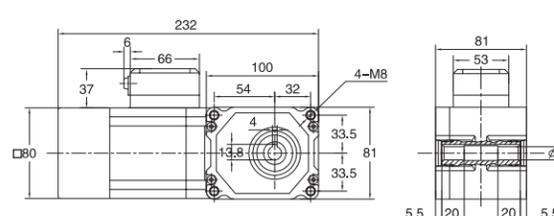
- 转速是以电动机的同步转速为基准除以减速比而算出的数值。实际转速将随负载大小变化而比所示数值减少2~20%左右。
- 当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速箱输出轴和负载连接处加装扭矩限制装置，确保齿轮减速机正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed will vary the size of the load changes in less than the values shown in 2 ~ 20%.
- 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.

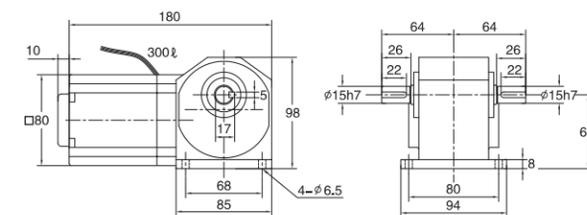
尺寸图 Dimensions

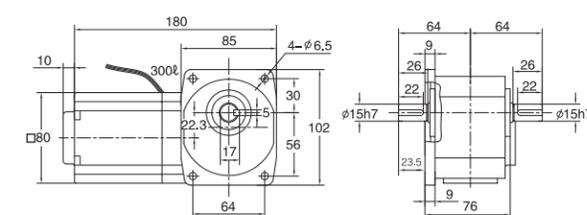
 底脚安装/实心轴带接线盒 Undersurface/ Solid + terminal
 HGL-15D- \square - \square -T15(25)K

 重量: 3 kg
 减速比: 3-250

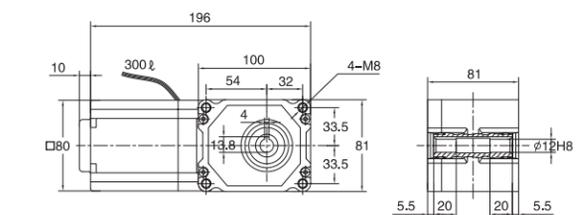
 法兰安装/实心轴带接线盒 Flange/ Solid + terminal
 HGF-15D- \square - \square -T15(25)K

 重量: 3 kg
 减速比: 3-250

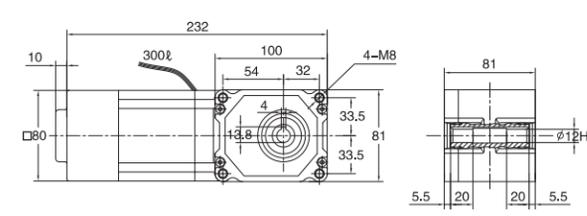
 双法兰安装/空心轴带接线盒 dou-Flange/ Hollow + terminal
 HGF2-12N- \square - \square -T15(25)K

 重量: 3 kg
 减速比: 3-250

 双法兰安装/空心轴带接线盒/刹车 dou-Flange/ Hollow + terminal/brake
 HGF2-12N- \square - \square -T15(25)KB

 重量: 3.5 kg
 减速比: 3-250

 底脚安装/实心轴带调速 Undersurface/ Solid+ speed regulation
 HGL-15D- \square - \square -T15(25)T

 重量: 3 kg
 减速比: 3-250

 法兰安装/实心轴带调速 Flange/ Solid+ speed regulation
 HGF-15D- \square - \square -T15(25)T

 重量: 3 kg
 减速比: 3-250

 双法兰安装/空心轴带调速 dou-Flange/ Hollow+ speed regulation
 HGF2-12N- \square - \square -T15(25)T

 重量: 3 kg
 减速比: 3-250

 双法兰安装/空心轴带调速/刹车 dou-Flange/ Hollow+speed regulation /brake
 HGF2-12N- \square - \square -T15(25)TB

 重量: 3.5 kg
 减速比: 3-250

40W



● 电机特性
List of motor characteristics

| 减速机型号 Model | 输出功率 Output Power W | 电源相数 Phase | 电源电压 Voltage V | 频率 Frequency Hz | 电流 Current A | 电容容量/耐压 Capacity/ve μ F/VAC |
|--|---------------------------|---------------|----------------------|-----------------------|--------------------|---------------------------------------|
| F R K HG L - Φ L - \square -S40 B F2 D T N F | 40 | 单相 1-phase | 220 | 50 | 0.35 | 2.5/450 |
| | | | | 60 | 0.4 | 3/450 |
| | | | 110 | 50 | 0.70 | 10/250 |
| | | | | 60 | 0.80 | 12/250 |
| F R K HG L - Φ L - \square -T40 B F2 D T N F | 40 | 三相 3-phase | 380 | 50 | 0.24 | — |
| | | | | 60 | 0.22 | — |
| | | | 220 | 50 | 0.42 | — |
| | | | | 60 | 0.38 | — |

- 电机额定转速、额定电流允许在 $\pm 5\%$ 范围内变动。
- Permissible change in rated speed and rated current of the motor is within the range of $\pm 5\%$.

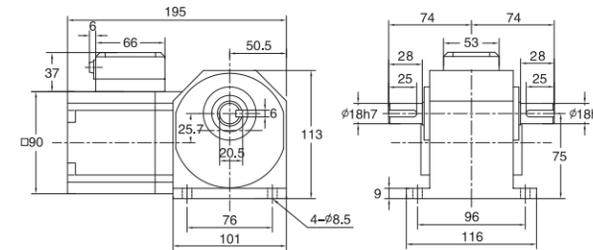
● 减速电机允许负载
Allowable load for the gear motor

| 减速参数 Geared-down parameter | 同步转速r/min Synchronous speed | | | | | | | | | | | | | | | | |
|----------------------------------|--------------------------------|--------------|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|--------------|--------------|
| | 150 | 100 | 75 | 60 | 50 | 37.5 | 30 | 25 | 18.8 | 15 | 12.5 | 10 | 7.5 | 6 | | | |
| 最大允许负载 Max allowable load | 40W | N.m Kgf.m | | 1.78 0.18 | 2.64 0.26 | 3.53 0.35 | 4.42 0.44 | 5.31 0.53 | 7.06 0.71 | 8.81 0.88 | 10.6 1.06 | 13.3 1.33 | 16.7 1.67 | 19.4 1.94 | 25 2.5 | 33.3 3.33 | 41.7 4.17 |

- 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。
- 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%.
- 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.

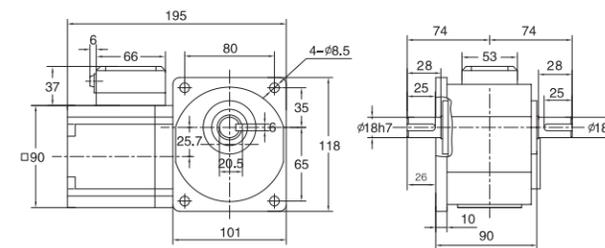
● 尺寸图 Dimensions

底脚安装/实心轴带接线盒 Undersurface/ Solid + terminal
HGL-18D- \square - T_{S40K}



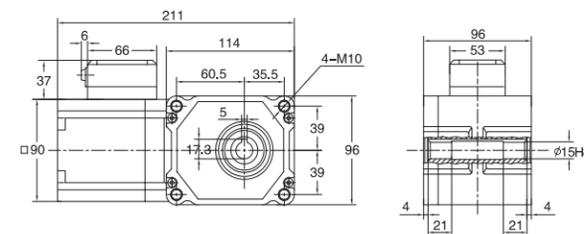
重量: 4 kg
减速比: 3-250

法兰安装/实心轴带接线盒 Flange/ Solid + terminal
HGF-18D- \square - T_{S40K}



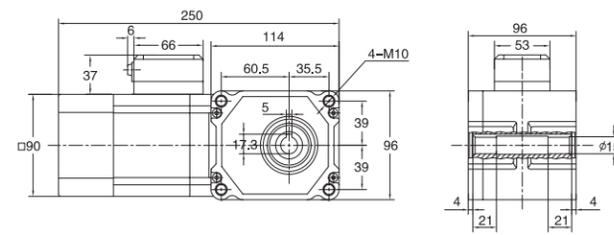
重量: 4 kg
减速比: 3-250

双法兰安装/空心轴带接线盒 dou-Flange/ Hollow + terminal
HGF2-15N- \square - T_{S40K}



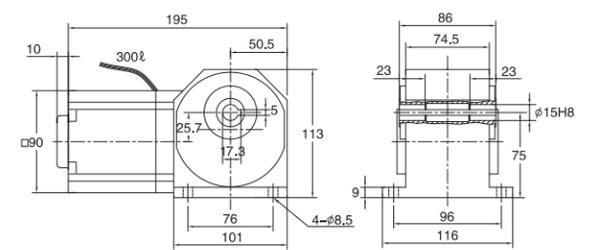
重量: 4 kg
减速比: 3-250

双法兰安装/空心轴带接线盒/刹车 dou-Flange/ Hollow + terminal/brake
HGF2-15N- \square - T_{S40KB}



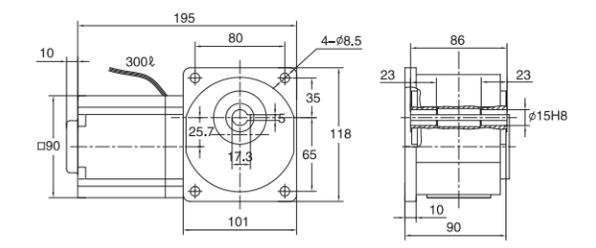
重量: 4.5 kg
减速比: 3-250

底脚安装/空心轴带调速 Undersurface/Hollow + speed regulation
HGL-15N- \square - T_{S40T}



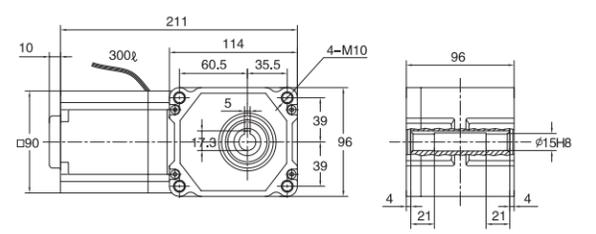
重量: 4 kg
减速比: 3-250

法兰安装/空心轴带调速 Flange/Hollow + speed regulation
HGF-15N- \square - T_{S40T}



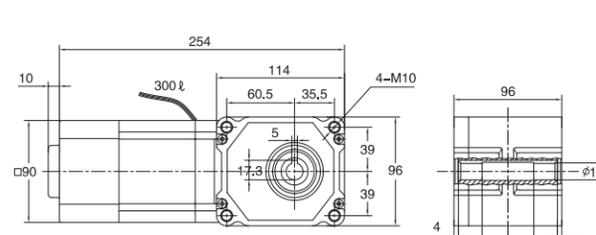
重量: 4 kg
减速比: 3-250

双法兰安装/空心轴带调速 dou-Flange/ Hollow + speed regulation
HGF2-15N- \square - T_{S40T}



重量: 4 kg
减速比: 3-250

双法兰安装/空心轴带调速/刹车 dou-Flange/ Hollow + speed regulation /brake
HGF2-15N- \square - T_{S40TB}



重量: 4.5 kg
减速比: 3-250

60/90/120W



电机特性

List of motor characteristics

| 减速机型号 Model | 输出功率 Output Power W | 电源相数 Phase | 电源电压 Voltage V | 频率 Frequency Hz | 电流 Current A | 电容量/耐压 Capacity/ve μF/VAC |
|---|---------------------------|---------------|----------------------|-----------------------|--------------------|---------------------------------|
| F R K HG L - ⊕ L - □ - S60 B F2 D T N F | 60 | 单相 1-phase | 220 | 50 | 0.45 | 3.5/450 |
| | | | 110 | 60 | 0.52 | 4/450 |
| | | 三相 3-phase | 380 | 50 | 0.90 | 14/250 |
| | | | 220 | 60 | 1.2 | 16/250 |
| F R K HG L - ⊕ L - □ - T60 B F2 D T N F | 90 | 单相 1-phase | 220 | 50 | 0.3 | — |
| | | | 110 | 60 | 0.28 | — |
| | | 三相 3-phase | 380 | 50 | 0.52 | — |
| | | | 220 | 60 | 0.48 | — |
| F R K HG L - ⊕ L - □ - S90 B F2 D T N F | 120 | 单相 1-phase | 220 | 50 | 0.62 | 5/450 |
| | | | 110 | 60 | 0.72 | 6/450 |
| | | 三相 3-phase | 380 | 50 | 1.25 | 20/250 |
| | | | 220 | 60 | 1.5 | 24/250 |
| F R K HG L - ⊕ L - □ - T90 B F2 D T N F | 120 | 单相 1-phase | 220 | 50 | 0.32 | — |
| | | | 110 | 60 | 0.3 | — |
| | | 三相 3-phase | 380 | 50 | 0.55 | — |
| | | | 220 | 60 | 0.48 | — |
| F R K HG L - ⊕ L - □ - S120 B F2 D T N F | 120 | 单相 1-phase | 220 | 50 | 0.85 | 6/450 |
| | | | 110 | 60 | 1.0 | 8/450 |
| | | 三相 3-phase | 380 | 50 | 1.7 | 24/250 |
| | | | 220 | 60 | 2.1 | 30/250 |
| F R K HG L - ⊕ L - □ - T120 B F2 D T N F | 120 | 单相 1-phase | 220 | 50 | 0.34 | — |
| | | | 110 | 60 | 0.31 | — |
| | | 三相 3-phase | 380 | 50 | 0.59 | — |
| | | | 220 | 60 | 0.54 | — |

- 电机额定转速、额定电流允许在±5%范围内变动。
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

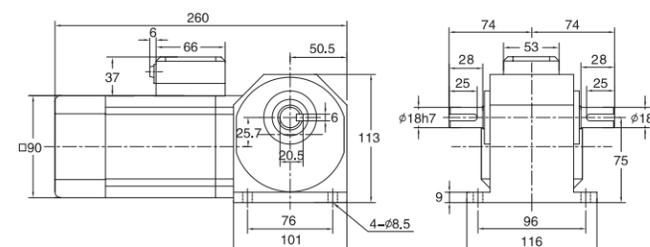
减速电机允许负载

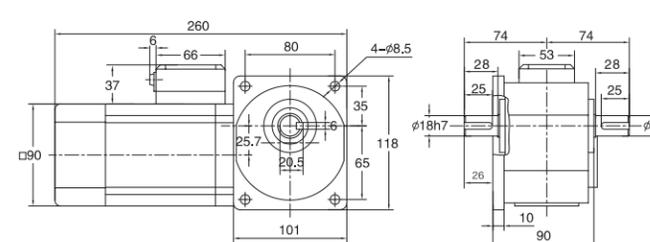
Allowable load for the gear motor

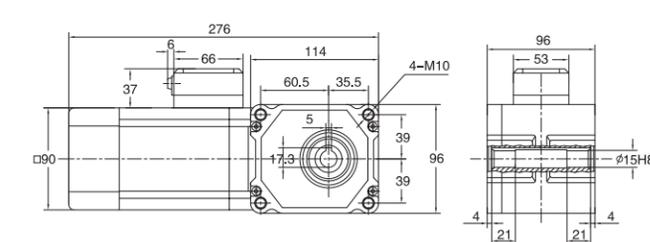
| 减速参数 Geared-down parameter | 同步转速r/min Synchronous speed | 150 | 100 | 75 | 60 | 50 | 37.5 | 30 | 25 | 18.8 | 15 | 12.5 | 10 | 7.5 | 6 |
|----------------------------------|--------------------------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|-----------|-----------|-----|
| | 减速比i ratio | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| 最大允许负载 Max allowable load | 60W | N.m 0.28 | 4.2 0.42 | 5.6 0.56 | 7 0.7 | 8.5 0.85 | 11 1.1 | 14 1.4 | 17 1.7 | 21 2.1 | 27 2.7 | 32 3.2 | 42 4.2 | 55 5.5 | |
| | 90W | N.m 0.42 | 6.3 0.63 | 8.5 0.85 | 11.0 1.1 | 13 1.3 | 17 1.7 | 21 2.1 | 24.5 2.45 | 31.4 3.14 | 39.2 3.92 | 47 4.7 | 55 5.5 | | |
| | 120W | N.m 0.54 | 8.3 0.83 | 11 1.1 | 14.1 1.41 | 16.4 1.64 | 21.2 2.12 | 26.8 2.68 | 32.6 3.26 | 39.7 3.97 | 52.8 5.28 | 55 5.5 | | | |

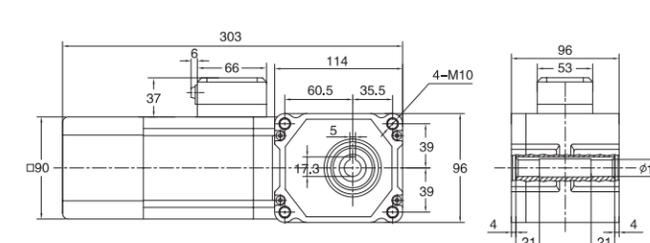
- 转速是以电动机的同步转速为基准除以减速比而算出的数值。实际转速将随负载大小变化而比所示数值减少2~20%左右。
- 当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速箱输出轴和负载连接处加装扭矩限制装置，确保齿轮减速机正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed will vary the size of the load changes in less than the values shown in 2 ~ 20%.
- 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.

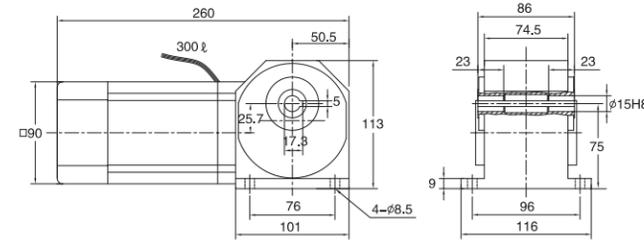
尺寸图 Dimensions

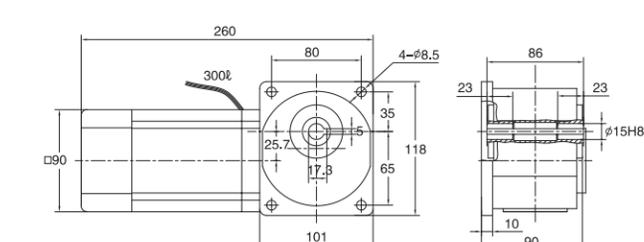
 底脚安装/实心轴带接线盒 Undersurface/ Solid + terminal
 HGL-18D-□-T_S60(90/120)KF

 重量: 5 kg
 减速比: 3-250

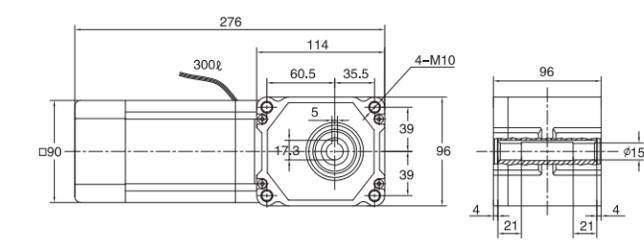
 法兰安装/实心轴带接线盒 Flange/ Solid + terminal
 HGF-18D-□-T_S60(90/120)KF

 重量: 5 kg
 减速比: 3-250

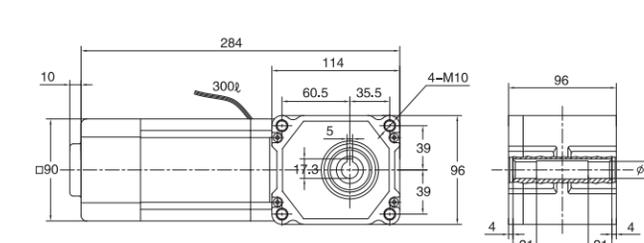
 双法兰安装/空心轴带接线盒 dou-Flange/ Hollow + terminal
 HGF2-15N-□-T_S60(90/120)KF

 重量: 5 kg
 减速比: 3-250

 双法兰安装/空心轴带接线盒/刹车 dou-Flange/ Hollow + terminal/brake
 HGF2-15N-□-T_S60(90/120)KBF

 重量: 5.5 kg
 减速比: 3-250

 底脚安装/空心轴带调速 Undersurface/Hollow + speed regulation
 HGL-15N-□-T_S60(90/120)TF

 重量: 5 kg
 减速比: 3-250

 法兰安装/空心轴带调速 Flange/Hollow + speed regulation
 HGF-15N-□-T_S60(90/120)TF

 重量: 5 kg
 减速比: 3-250

 双法兰安装/空心轴带调速 dou-Flange/ Hollow + speed regulation
 HGF2-15N-□-T_S60(90/120)TF

 重量: 5 kg
 减速比: 3-250

 双法兰安装/空心轴带调速/刹车 dou-Flange/ Hollow + speed regulation /brake
 HGF2-15N-□-T_S60(90/120)TB

 重量: 5.5 kg
 减速比: 3-250

200W (400W)

标准型 standard 缩框型 mini



双面法兰

电机特性

List of motor characteristics

| 减速机型号 Model | 输出功率 Output Power W | 电源相数 phase | 电源电压 Voltage V/AC | 频率 Frequency Hz | 电流 Current A | 电容 Capacity μF | 转速 Speed r/min |
|----------------------|---------------------------|---------------|-------------------------|-----------------------|--------------------|----------------------|----------------------|
| HGF2 - ②N - ①-S200 | 200 | 单相 1-phase | 220 | 50/60 | 1.5/1.4 | 12/10 | 1380/1650 |
| 110 | | | 50/60 | 3.0/2.8 | 40/35 | 1380/1650 | |
| HGF2 - ②N - ①-T200 | | 三相 3-phase | 220 | 50/60 | 1.4/1.3 | -- | 1380/1650 |
| | | | 380 | 50/60 | 0.8/0.75 | -- | 1380/1650 |
| HGF2 - ②N - ①-S400-M | 400 | 单相 1-phase | 220 | 50/60 | 3.2/2.7 | 20/18 | 1380/1650 |
| | | | 110 | 50/60 | 6.5/6.2 | 80/75 | 1380/1650 |
| | | 三相 3-phase | 220 | 50/60 | 2/1.85 | -- | 1380/1650 |
| | | | 380 | 50/60 | 1.2/1.1 | -- | 1380/1650 |

电机额定转速、额定电流允许在±5%范围内变动。
Permissible change in rated speed and rated current of the motor is within the range of ±5%.

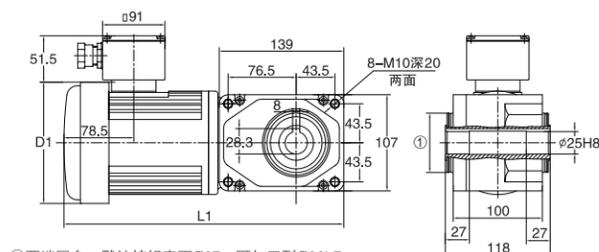
减速电机允许负载 Allowable load for the gear motor

| 减速参数 Geared-down parameter | 同步转速 r/min Synchronous speed | Geared-down ratio | | | | | | | | | | | | | | | |
|----------------------------------|---------------------------------|-------------------|-----|----|----|----|------|----|----|------|----|------|----|-----|---|--|--|
| | | 150 | 100 | 75 | 60 | 50 | 37.5 | 30 | 25 | 18.8 | 15 | 12.5 | 10 | 7.5 | 6 | | |
| 最大允许负载 Max allowable load | 200W | N.m | | | | | | | | | | | | | | | |
| | 400W | Kgf. m | | | | | | | | | | | | | | | |

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，确保齿轮减速机正常运行。
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.

尺寸图 Dimensions (三相 3-phase)

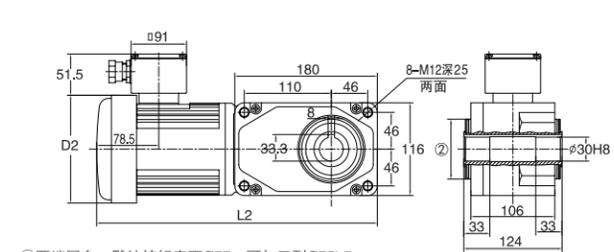
双法兰安装/空心轴带接线盒dou-Flange/Hollow + terminal
200W标准型: HGF2-25N-①-T200KF (速比i=10~50)
400W缩框型: HGF2-25N-①-T400KF-M (速比i=7~35)



①两端圆台，默认铸铝表面φ67；可加工到φ66h7

| 规格 | 数值 | D1 | L1 | 重量Weight(kg) |
|------------------|----|------|-----|--------------|
| 200W 标准型standard | | φ130 | 334 | 8.5 |
| 400W 缩框型 mini | | φ130 | 337 | 11 |

双法兰安装/空心轴带接线盒dou-Flange/Hollow + terminal
200W标准型: HGF2-30N-①-T200KF (速比i=80~230)
400W缩框型: HGF2-30N-①-T400KF-M (速比i=60~150)



②两端圆台，默认铸铝表面φ77；可加工到φ75h7

| 规格 | 数值 | D2 | L2 | 重量Weight(kg) |
|------------------|----|------|-----|--------------|
| 200W 标准型standard | | φ130 | 374 | 10 |
| 400W 缩框型 mini | | φ130 | 377 | 12.5 |

400W (750W)

标准型 standard 缩框型 mini



双面法兰

电机特性

List of motor characteristics

| 减速机型号 Model | 输出功率 Output Power W | 电源相数 phase | 电源电压 Voltage V/AC | 频率 Frequency Hz | 电流 Current A | 电容 Capacity μF | 转速 Speed r/min |
|----------------------|---------------------------|---------------|-------------------------|-----------------------|--------------------|----------------------|----------------------|
| HGF2 - ②N - ①-S400 | 400 | 单相 1-phase | 220 | 50/60 | 3.2/2.7 | 20/18 | 1380/1650 |
| | | | 110 | 50/60 | 6.5/6.2 | 80/75 | 1380/1650 |
| 三相 3-phase | | 220 | 50/60 | 2/1.85 | -- | 1380/1650 | |
| | | 380 | 50/60 | 1.2/1.1 | -- | 1380/1650 | |
| HGF2 - ②N - ①-S750-M | 750 | 单相 1-phase | 220 | 50/60 | 5.8/5.3 | 40/35 | 1380/1650 |
| | | | 110 | 50/60 | 11.5/10.5 | 120/110 | 1380/1650 |
| | | 三相 3-phase | 220 | 50/60 | 3.5/3.4 | -- | 1380/1650 |
| | | | 380 | 50/60 | 2.0/1.95 | -- | 1380/1650 |

电机额定转速、额定电流允许在±5%范围内变动。
Permissible change in rated speed and rated current of the motor is within the range of ±5%.

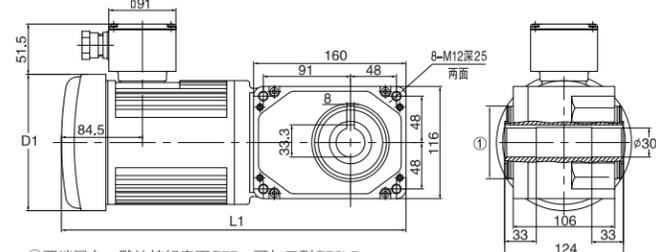
减速电机允许负载 Allowable load for the gear motor

| 减速参数 Geared-down parameter | 同步转速 r/min Synchronous speed | Geared-down ratio | | | | | | | | | | | | | | | |
|----------------------------------|---------------------------------|-------------------|-----|----|----|----|------|----|----|------|----|------|----|-----|---|--|--|
| | | 150 | 100 | 75 | 60 | 50 | 37.5 | 30 | 25 | 18.8 | 15 | 12.5 | 10 | 7.5 | 6 | | |
| 最大允许负载 Max allowable load | 400W | N.m | | | | | | | | | | | | | | | |
| | 750W | Kgf. m | | | | | | | | | | | | | | | |

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，确保齿轮减速机正常运行。
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.

尺寸图 Dimensions (三相 3-phase)

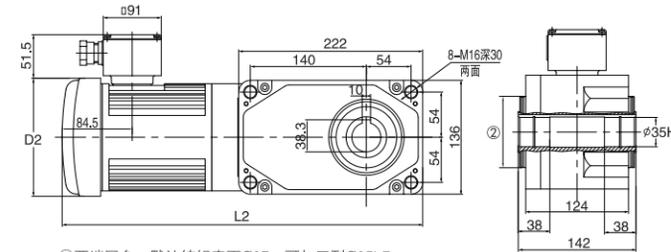
双法兰安装/空心轴带接线盒dou-Flange/Hollow + terminal
400W标准型: HGF2-30N-①-T400KF (速比i=10~50)
750W缩框型: HGF2-30N-①-T750KF-M (速比i=7~35)



①两端圆台，默认铸铝表面φ77；可加工到φ75h7

| 规格 | 数值 | D1 | L1 | 重量Weight(kg) |
|------------------|----|------|-----|--------------|
| 400W 标准型standard | | φ130 | 372 | 11.5 |
| 750W 缩框型 mini | | φ162 | 418 | 15 |

双法兰安装/空心轴带接线盒dou-Flange/Hollow + terminal
400W标准型: HGF2-35N-①-T400KF (速比i=80~250)
750W缩框型: HGF2-35N-①-T750KF-M (速比i=60~180)



②两端圆台，默认铸铝表面φ87；可加工到φ85h7

| 规格 | 数值 | D2 | L2 | 重量Weight(kg) |
|------------------|----|------|-----|--------------|
| 400W 标准型standard | | φ130 | 430 | 15 |
| 750W 缩框型 mini | | φ162 | 478 | 18.5 |

750W

标准型 standard



双面法兰

● 电机特性 List of motor characteristics

| 减速机型号 Model | 输出功率 Output Power W | 电源相数 phase | 电源电压 Voltage V/AC | 频率 Frequency Hz | 电流 Current A | 电容 Capacity μF | 转速 Speed r/min |
|--------------------|---------------------------|---------------|-------------------------|-----------------------|--------------------|----------------------|----------------------|
| HGF2 - □N - □-S750 | 750 | 单相 1-phase | 220 | 50/60 | 5.8/5.3 | 40/35 | 1380/1650 |
| 110 | | | 50/60 | 11.5/10.5 | 120/110 | 1380/1650 | |
| HGF2 - □N - □-T750 | | 三相 3-phase | 220 | 50/60 | 3.5/3.4 | -- | 1380/1650 |
| | | | 380 | 50/60 | 2.0/1.95 | -- | 1380/1650 |

电机额定转速、额定电流允许在±5%范围内变动。

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 | 150 | 100 | 75 | 60 | 50 | 37.5 | 30 | 25 | 18.8 | 15 | 12.5 | 10 | 7.5 | 6 | |
|----------------------------------|--------------------------------|---------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|-----|--|
| | 减速比i Geared-down ratio | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 | |
| 最大允许负载 Max allowable load | 750W | N.m Kgf. m | 41 | 63 | 83 | 104 | 124 | 166 | 208 | 249 | 316 | 395 | 473 | 554 | | |
| | | | 4.1 | 6.3 | 8.3 | 10.4 | 12.4 | 16.6 | 20.8 | 24.9 | 31.6 | 39.5 | 47.3 | 55.4 | | |

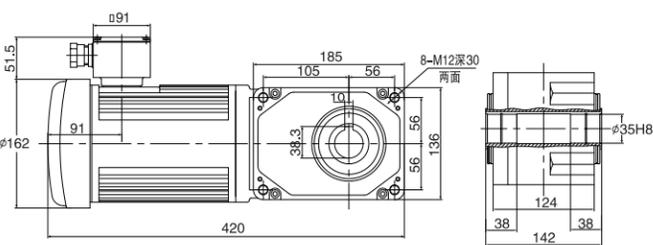
当负载扭矩超过减速电机最大允许负载扭矩，并有堵转情况存在时，请在减速箱输出轴和负载连接处加装扭矩限制装置，确保齿轮减速机正常运行。

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.

● 尺寸图 Dimensions (三相 3-phase)

双法兰安装/空心轴带接线盒dou-Flange/Hollow + terminal

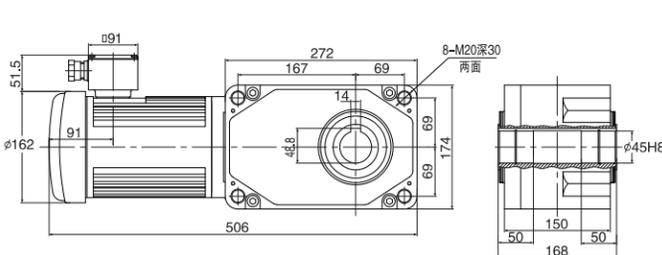
750W标准型: HGF2-35N-□-T750KF (速比i=10~60)



重量Wight: 17.5kg

双法兰安装/空心轴带接线盒dou-Flange/Hollow + terminal

750W标准型: HGF2-45N-□-T750KF (速比i=80~250)



重量Wight: 25kg

200W (400W)

标准型 standard

缩框型 mini



单面法兰

● 电机特性

List of motor characteristics

| 减速机型号 Model | 输出功率 Output Power W | 电源相数 phase | 电源电压 Voltage V/AC | 频率 Frequency Hz | 电流 Current A | 电容 Capacity μF | 转速 Speed r/min |
|---------------------|---------------------------|---------------|-------------------------|-----------------------|--------------------|----------------------|----------------------|
| HGF - □N - □-S200 | 200 | 单相 1-phase | 220 | 50/60 | 1.5/1.4 | 12/10 | 1380/1650 |
| | | | 110 | 50/60 | 3.0/2.8 | 40/35 | 1380/1650 |
| 三相 3-phase | | 220 | 50/60 | 1.4/1.3 | -- | 1380/1650 | |
| | | 380 | 50/60 | 0.8/0.75 | -- | 1380/1650 | |
| HGF - □N - □-S400-M | 400 | 单相 1-phase | 220 | 50/60 | 3.2/2.7 | 20/18 | 1380/1650 |
| | | | 110 | 50/60 | 6.5/6.2 | 80/75 | 1380/1650 |
| 三相 3-phase | | 220 | 50/60 | 2/1.85 | -- | 1380/1650 | |
| | | 380 | 50/60 | 1.2/1.1 | -- | 1380/1650 | |

电机额定转速、额定电流允许在±5%范围内变动。

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 | 150 | 100 | 75 | 60 | 50 | 37.5 | 30 | 25 | 18.8 | 15 | 12.5 | 10 | 7.5 | 6 |
|----------------------------------|---------------------------------|---------------|-----|-----|-----|-----|------|-----|------|------|------|------|------|------|------|
| | 减速比 i Geared-down ratio | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| 最大允许负载 Max allowable load | 200W | N.m Kgf. m | 11 | 17 | 23 | 28 | 34 | 45 | 56 | 68 | 86 | 107 | 129 | 163 | 188 |
| | | | 1.1 | 1.7 | 2.3 | 2.8 | 3.4 | 4.5 | 5.6 | 6.8 | 8.6 | 10.7 | 12.9 | 16.3 | 18.8 |
| | 400W | | 23 | 34 | 45 | 56 | 68 | 88 | 113 | 136 | 172 | 188 | | | |
| | | | 2.3 | 3.4 | 4.5 | 5.6 | 6.8 | 8.8 | 11.3 | 13.6 | 17.2 | 18.8 | | | |

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，确保齿轮减速机正常运行。

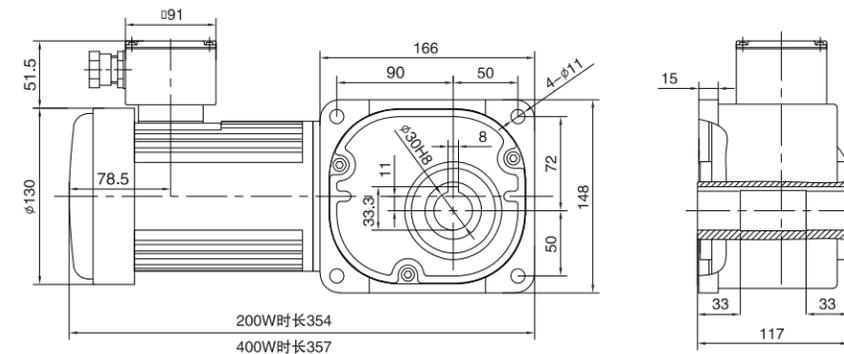
When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation Gearbox.

● 尺寸图 Dimensions (三相 3-phase)

法兰安装/空心轴带接线盒dou-Flange/Hollow + terminal

200W标准型: HGF - 30N-□-T200KF (速比i=10~230)

400W缩框型: HGF - 30N-□-T400KF-M (速比i=7~150)


 200W时长354
400W时长357

400W (750W)

标准型 standard

缩框型 mini



单面法兰

电机特性

List of motor characteristics

| 减速机型号 Model | 输出功率 Output Power W | 电源相数 phase | 电源电压 Voltage V/AC | 频率 Frequency Hz | 电流 Current A | 电容 Capacity μF | 转速 Speed r/min |
|---------------------|---------------------------|---------------|-------------------------|-----------------------|--------------------|----------------------|----------------------|
| HGF - ④N - □-S400 | 400 | 单相 1-phase | 220 | 50/60 | 3.2/2.7 | 20/18 | 1380/1650 |
| 110 | | | 50/60 | 6.5/6.2 | 80/75 | 1380/1650 | |
| HGF - ④N - □-T400 | | 三相 3-phase | 220 | 50/60 | 2/1.85 | -- | 1380/1650 |
| | | | 380 | 50/60 | 1.2/1.1 | -- | 1380/1650 |
| HGF - ④N - □-S750-M | 750 | 单相 1-phase | 220 | 50/60 | 5.8/5.3 | 40/35 | 1380/1650 |
| 110 | | | 50/60 | 11.5/10.5 | 120/110 | 1380/1650 | |
| HGF - ④N - □-T750-M | | 三相 3-phase | 220 | 50/60 | 3.5/3.4 | -- | 1380/1650 |
| | | | 380 | 50/60 | 2.0/1.95 | -- | 1380/1650 |

电机额定转速、额定电流允许在±5%范围内变动。

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 | 同步转速 r/min | | | | | | | | | | | | | | | |
|----------------------------------|---------------------------------|------------|-----|--------|-----|-----|------|------|------|------|------|------|------|------|------|------|--|
| | | 150 | 100 | 75 | 60 | 50 | 37.5 | 30 | 25 | 18.8 | 15 | 12.5 | 10 | 7.5 | 6 | | |
| 最大允许负载 Max allowable load | 400W | N.m | | Kgf. m | | | | | | | | | | | | | |
| | | 23 | 33 | 2.3 | 3.3 | 4.4 | 5.5 | 6.7 | 8.8 | 11.1 | 13.3 | 16.9 | 21.1 | 25.3 | 27.0 | 27.0 | |
| | 750W | 41 | 63 | 4.1 | 6.3 | 8.3 | 10.4 | 12.4 | 16.6 | 20.8 | 24.9 | 27.0 | 27.0 | 27.0 | 27.0 | | |

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，确保齿轮减速机正常运行。

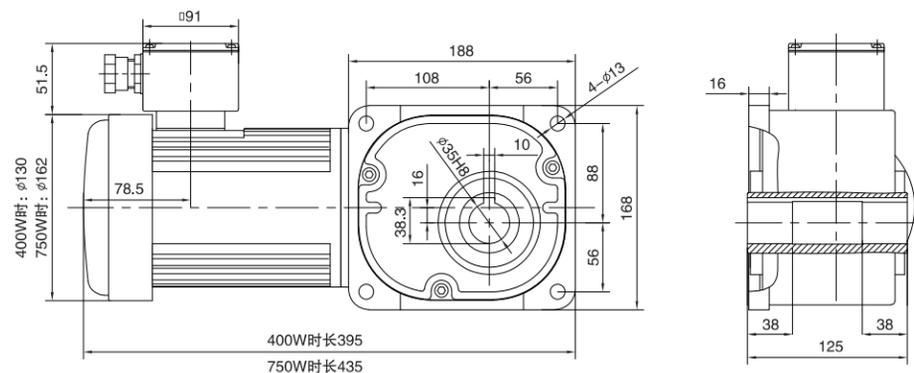
When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation Gearbox.

尺寸图 Dimensions (三相 3-phase)

法兰安装/空心轴带接线盒dou-Flange/Hollow + terminal

400W标准型: HGF - 35N-□-T400KF (速比i=10~250)

750W缩框型: HGF - 35N-□-T750KF-M (速比i=7~180)



750W (1500W)

标准型 standard

缩框型 mini



单面法兰

电机特性

List of motor characteristics

| 减速机型号 Model | 输出功率 Output Power W | 电源相数 phase | 电源电压 Voltage V/AC | 频率 Frequency Hz | 电流 Current A | 电容 Capacity μF | 转速 Speed r/min |
|----------------------|---------------------------|---------------|-------------------------|-----------------------|--------------------|----------------------|----------------------|
| HGF - ④N - □-S750 | 750 | 单相 1-phase | 220 | 50/60 | 5.8/5.3 | 40/35 | 1380/1650 |
| 110 | | | 50/60 | 11.5/10.5 | 120/110 | 1380/1650 | |
| HGF - ④N - □-T750 | | 三相 3-phase | 220 | 50/60 | 3.5/3.4 | -- | 1380/1650 |
| | | | 380 | 50/60 | 2.0/1.95 | -- | 1380/1650 |
| HGF - ④N - □-T1500-M | 1500 | 三相 3-phase | 220 | 50/60 | 6.6/6.1 | -- | 1380/1650 |
| | | | 380 | 50/60 | 3.8/3.5 | -- | 1380/1650 |

电机额定转速、额定电流允许在±5%范围内变动。

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 | 同步转速 r/min | | | | | | | | | | | | | | | |
|----------------------------------|---------------------------------|------------|-----|--------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| | | 150 | 100 | 75 | 60 | 50 | 37.5 | 30 | 25 | 18.8 | 15 | 12.5 | 10 | 7.5 | 6 | | |
| 最大允许负载 Max allowable load | 750W | N.m | | Kgf. m | | | | | | | | | | | | | |
| | | 41 | 63 | 4.1 | 6.3 | 8.3 | 10.4 | 12.4 | 16.6 | 20.8 | 24.9 | 27.0 | 27.0 | 27.0 | 27.0 | | |
| | 1500W | 83 | 124 | 8.3 | 12.4 | 16.6 | 20.8 | 24.9 | 31.6 | 39.5 | 47.3 | 55.4 | 55.4 | 55.4 | | | |

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，确保齿轮减速机正常运行。

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.

尺寸图 Dimensions (三相 3-phase)

法兰安装/空心轴带接线盒dou-Flange/Hollow + terminal

750W标准型: HGF - 45N-□-T750KF (速比i=10~250)

1500W缩框型: HGF - 45N-□-T1500KF-M (速比i=7~180)

