



致力于打造世界一流的中国传动品牌
We are committed to building a world-class China transmission brand

微型齿轮减速电机

COMPACT REDUCING MOTOR

功率：6W-250W

POWER：6W-250W

使用说明书

INSTRUCTION

CE CCC TX



万鑫精工（湖南）有限公司
WANSHSIN SEIKOU(Hunan) Co.,Ltd

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application support

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Address:Guang dong dongguan DaLing hills xintang village, even the road
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Website:www.wanshsin.com

WANSHSIN®
萬鑫精工
www.wanshsin.com

WANSHSIN



欢迎选用万鑫精工系列减速电机(减速机),本公司集德国设计团队及进口高精度加工设备,得以提供高可靠性及低噪音型减速机. 以下为本公司减速机产品使用说明书及合格证, 请详阅以下内容以正确使用减速电机.

产品系列:

- YS : 标准电机
- YT : 调速电机
- YB : 电磁制动电机
- YF : 调速电磁制动电机
- YR : 阻尼电机

执行标准:

JB/T9050.1-1999 GB755-2008

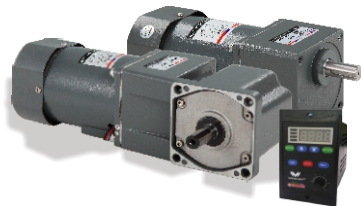


WANSHSIN®
www.wanshsin.com



微型齿轮减速电机 功率：6W-250W

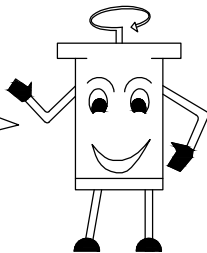
使用说明书



感谢您购买 **WANSHSIN®** 产品。

使用本产品之前必须仔细阅读使用说明书, 熟悉产品相关的知识, 安全知识和注意事项以后才能正确使用本产品。

为了便于随时参考, 阅读之后请务必保管在指定的位置。

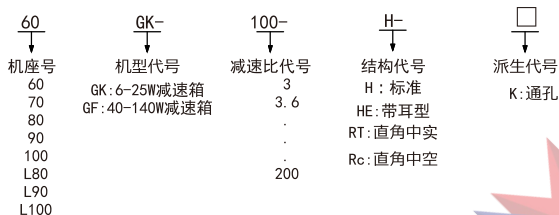


1. 订购方式

1.1. 电机型号的命名方法



1.2. 减速箱型号命名方法



2. 收货确认事项

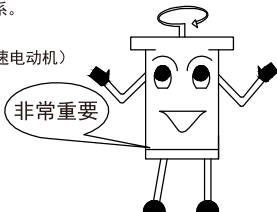
2.1. 产品的确认

打开包装后, 请确认下述产品是否齐全。
若有缺件或破损请与万鑫精工有限公司联系。

- 电动机 1台
- 电容器 1个 (仅单项非调速电动机)
- 使用说明书 1册

2.2. 品名的确认

请通过标记于产品上的品名确认产品是否相符。



3. 产品特性

3.1. 感应电机

交流微型电机的代表性型号, 可连续使用。
本产品有两种单相感应电机和三种三相感应电机。

3.2. 阻尼电机

本产品是单相阻尼电机, 外观构造类似于感应电机, 适合于经常需要正、逆转反复旋转的场合。

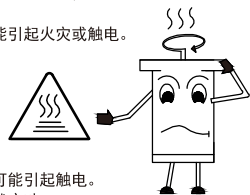
4. 安全注意事项



警告

在操作时违反本警告事项所示的内容要求, 就有可能导致人员死亡或负重伤。

- 请勿在爆炸性环境、可燃性气体环境、腐蚀性环境、容易沾水的场所以及可燃物的附近使用本产品。否则有可能引起火灾、触电或致伤。
- 安装、接线。运转、操作、检查、故障诊断作业请由有适当资格的人实施, 否则有可能引起火灾、触电或致伤。
- 请勿在通电状态下进行移动、安装、接线和检查作业。请切断电源后再进行作业, 否则有可能引起触电。
- 安装电动机时, 请采取措施使手无法触及电动机, 或加以接地, 否则有可能引起触电。
- 电源输入电压请务必控制在额定范围内, 否则有可能引起火灾或触电。
- 请按照接线图确实地进行接线, 否则有可能引起火灾或触电。
- 请勿强行弯曲、扯拉或夹住导线, 否则有可能引起火灾或触电。
- 附属的电容器的接线端子请进行绝缘处理, 否则有可能引起触电。
- 停电时, 请切断电源, 否则恢复供电后电动机可能会突然启动, 有可能致伤或造成设备破损。
- 在切断电源后短时间内(30秒钟之内)请勿触摸电容器的接线端子, 否则有可能因残留电压而引起触电。
- 请勿对电机进行拆解或改造, 否则有可能引起触电或致伤。
- 使用电动机时, 请勿超过其规格值, 否则有可能引起触电、致伤或造成设备破损。
- 运转时请勿碰触旋转部(处理轴、散热风扇), 否则有可能致伤。



5. 安装指南

5.1. 安装条件

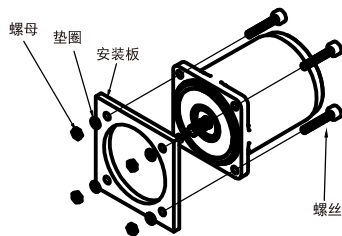
请将电动机安装在通风良好、检查方便的下述场所。

- 安装在室内的框体内（请开设换气孔）
- 使用环境温度-10~+40℃（不得冻结）100/200V运转时为-10~+50℃
- 使用环境湿度 85%以下（不得结露）
- 无爆炸性气体、有害气体（硫化氢气体等）及液体
- 无直射阳光照射
- 尘埃、铁粉等较少
- 不会沾染水（风雨或水滴）、油（滴油）及其他液体
- 盐分较少
- 无连续性振动和过低冲击
- 电磁杂讯（焊接机、动力机器等）较少
- 无放射性物质、磁场且非真空
- 海拔1000m以下

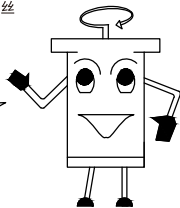
5.2. 电机安装的方法

● 圆轴型电机安装

在安装板上开孔后用螺丝、螺帽及底座将电动机固定杂安装板上。
请注意电动机安装面与安装板之间不要留缝隙。

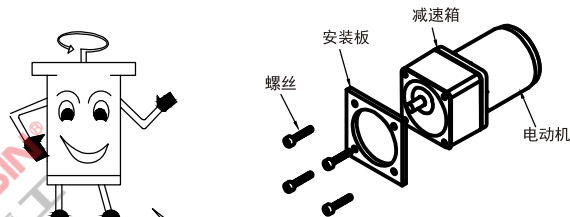


▽注意 在安装孔上，不要把电动机倾斜安装或勉强安装。



● 齿轴型电机安装

在安装板上开孔后,用另售减速机附属的4根螺丝将电动机和减速机固定在安装板上。请注意安装时不要使用电动机的凸缘与减速机的内缘之间留有缝隙。详细安装方法请参照减速机之说明书。



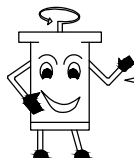
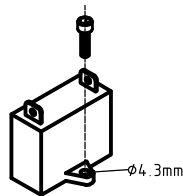
▽注意 要使用减速机时，请安装与电机相同型号的齿轮轴型减速机。

附散热风扇的电动机

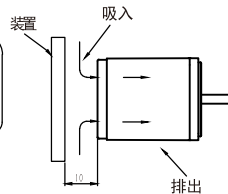
为了避免堵塞电动机后部的散热孔，请在风扇罩后部空出10mm以上或开设换气孔。

■ 电容器的安装（仅单相电动机）

请确认电容器的容量与电动机铭板上所标注的容量是否一致。
请用M4的螺丝（未附属）确实安装牢固。



▽注意 这样容易在法兰盘的插入口产生缺陷导致电机的损坏。



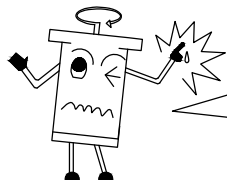
6. 接线及运转方法

6.1 链接

链接部分的绝缘

电机请按“接线图”进行接线

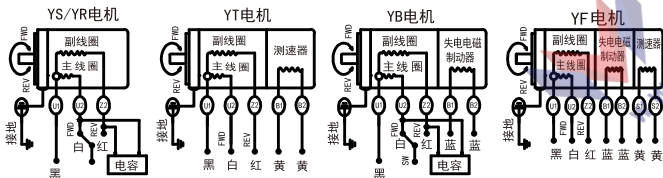
电机引线和电源接线部分，电容端子接线部分等所有接线部分应该进行绝缘处理。



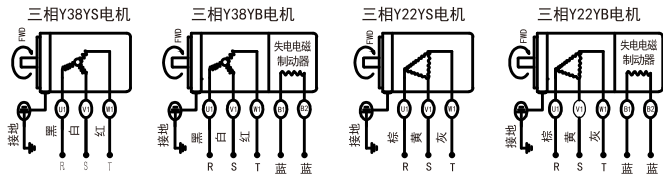
注意 所有连接部分的连接及绝缘处理必须在切断电源的情况下下进行，否则可能会有触电或电机突然启动的危险。

6.2 接线图

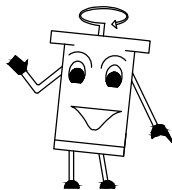
单相电机



三相电机



7. 故障排除及处理

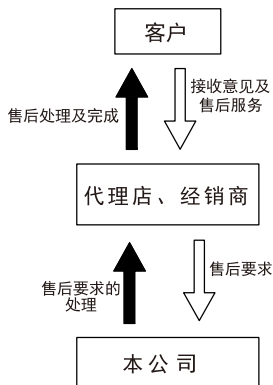


电机不能正常启动时，请参考下表进行检查。所检查的项目都正常的情况下仍然不能正常启动电机时，请不要自行修理、分解、改造，应该联系本公司代理店。

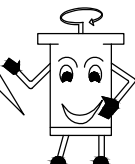
故障现象	处理方法
电动机不转或低速运转	<ul style="list-style-type: none"> 请确认电源电压 请正确连接电源和电动机 如果是单相电动机，请正确连接附属的电容器 如果端子台和压着端子时，请确认是否有接触不良 请将负载设定在容许值以下
电动机时转时停	<ul style="list-style-type: none"> 请正确连接电源和电动机 如果是单相电动机，请正确连接附属的电容器 使用端子连接时，请确认是否有接触不良
方向与指定方向相反的方向运转	<ul style="list-style-type: none"> 请参照「接线图」正确进行连接 如果是单相电动机，请正确连接附属的电容器 根据减速机减速比的不同，有可能出现电动机出力轴与减速机出力轴的运转方向相反的情况，请参照减速机的使用说明书 运转方向是指从电动机出力轴侧观察的方向，请确认观测方向是否正确
电动机异常发热（电动机外壳温度超过80℃）	<ul style="list-style-type: none"> 请确认电源电压 请正确连接电源和电动机 如果是单相电动机，请正确连接附属的电容器 请改善换气条件
电动机发出异音	<ul style="list-style-type: none"> 请参照减速机的使用说明书，正确组装电动机和减速机 请将齿轮型号相同的电动机和减速机进行组装

8. 售后服务流程介绍

产品发生破损及不满意事项



WANSHSIN® 对受理的产品不合格内容及责任判断，以免或收费维修方式提供售后服务，可根据不合格内容更换产品。



※ 不通知顾客的情况下，为了改善产品的性能，有可能改变规格及外观。
其详细咨询事宜，请联系本公司技术部，代理店，经销商。
本公司销售的产品保修期为一年。

9. 产品合格证

检验项目

1. 机械性能检验
振动、噪音、减速比、轴跳动、外观质量。
2. 电气性能检验
耐压、匝间绝缘、直流电阻、空载电流、旋转方向。
3. 装箱检验
平键一支、轴套一支、使用说明书及产品合格证一份。

本产品经检验合格准予出厂





Welcome to choose our WANSHSIN gear motor reduce, WANSHSIN adopted Germany team and high precision machining equipment to improve the reliability and low noise reducer. the following is the company reducer certificate and instruction, please read the contents of the right to use the reducer motor.

Produce Series:

- YS: STANDARD MOTOR
- YT: VARIABLE SPEED MOTOR
- YB: ELECTROMAGNETIC BRAKE MOTOR
- YF: VARIABLE SPEED ELECTROMAGNETIC BRAKE MOTOR
- YR: DAMPING MOTOR

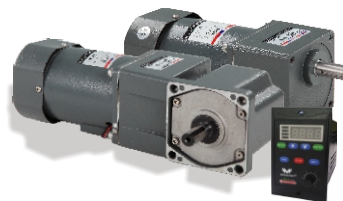
Implement Standard:

JB/T9050.1-1999 GB755-2008



MICRO GEAR REDUCERS MOTORS POWER:6W-250W

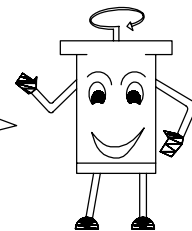
OPERATING MANUAL



Thanks for purchasing a WANSHSIN product.

This Operating Manual describes product handling procedures and safety precautions.

- Please read it thoroughly to ensure safe operation.
- Always keep the manual where it is readily available.



1. Order way

1.1. Name method of motor model

Stand no.	Code name	Function code	Codename of rotor shaft	Voltage code	The derived code
60	YS: standard machine	090	G:Clear shaft	V11:Single-phase 110 v	X:Lead line, line length 300MM
70	YR: damped motor	150	D:Circular shaft	V22:Single-phase 220 v	H:With terminal block
80	YJ: adjustable speed motor	250		Y22:Three-phase 220 v	T:Thermal protector
90	YB: electromagnetic braking motor	400		Y38:Three-phase 380 v	
100	YF: speed regulating electromagnetic brake motor	600		Y38/22:The three-phase 380V / 220V is Shared	
		90W 120W 140W 200W			

1.2. Name method of gearbox model

Stand no.	Model code	Reduction gear ratio	Structure of the code	The derived code
60	GK:6-25W gearbox	3	H:standard	K: hose
70	GF:40-140W gearbox	3, 6	HE:With the ear type	
80			RF:Right Angle in implementing	
90			RC:Rectangular hollow	
100				
160		200		
180				
L100				

2. Receiving confirmation of goods

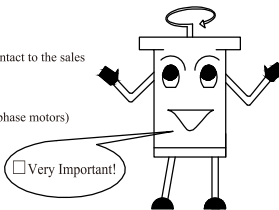
2.1. Confirmation of Products

Please check if all items in below are in the package
If there are any lack of items, or any damages, please contact to the sales Department in head office or local agent

- Motor 1pcs
- Capacitor 1 pcs (only for single phase motors)
- Manual introduction 1pcs

2.2. Confirmation of the name plate

Please confirm the motor & capacitor
Compare with name plate. Check the contents on name plates which are model name, voltage, output power and capacitor capacity



3. Characteristic of products

3.1. INDUCTION MOTOR

One of representative AC model, can use continuously
There are two type of Induction Motors, one of Single phase condenser Run type and the other Three phase Induction Motor

3.2. REVERSIBLE MOTOR

It is single phase Condenser Run Induction Motor
Outlook is same as Induction motor but it installed Brake Block in motor to change the direction of motor rotation easily. Suitable for application which needs to run at CW/CCW often

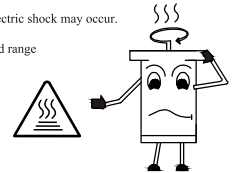
4. PRECAUTIONS



Warning

If this warning is ignored, death or serious injury may be caused by fire or electric shock

- Caution. If this Caution is ignored, injury or physical damage may be caused by electric shock or other accidents
- Warning. Do not use the product in an explosive or flammable atmosphere. Otherwise, fire may occur.
- Only qualified installers should be assigned to the work of installation, connection, running, operation and inspection. This is intended to prevent fire, electric shock and injury
- Before starting the work, turn off the control pack power. Otherwise, electric shock may occur.
- Be sure to keep power input voltage of the control pack within the rated range
- Electrical connections must be made in strict accordance with the connection example. Otherwise, fire and electric shock may occur.
- Otherwise, fire, electric shock and injury of the operator may occur
- Do not force to bend nor push-pull of lead wire.
- Immediately when trouble has occurred, stop running and turn off the control pack power
- During running and for some time after stopping the equipment; do not touch the motor and control pack with a bare hand. You may be burnt by high temperature on the surface of the motor
- Do not disassemble or remount the motor. Otherwise, fire, electric shock or damage of the equipment may occur.
- Be installed by an expert.
- Do not touch the rotating part (such as output shaft or cooling fan) with naked hand. May get injury.



5. Characteristic of products

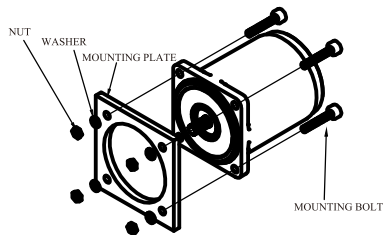
5.1 Condition of Installation

- Install the motor and capacitor in place with below condition
- It can get damage if the product were used in out of the condition
- Inner house (The products designed for attaching on machines)
- Temperature: -10~+40℃ degrees (No place for freeze)
- Humidity under 85% (No place for condensation)
- The place do not effect from explosive, inflammable and corrosive gas
- The place do not get continuous vibration or excessive impact
- The place with no stiaight light The place with no splash water nor oil
- The place with no heaping dusty The place can be radiated
- Elevation under 1000m

5.2. Installation of motor

- Installation changes by the type of output shaft

Make holes in mounting plate and use bolts, nuts and washers to fix a motor on the mounting plate (the screw is not provided) also, be sure there is no gab between motor flange face and the mounting surface.

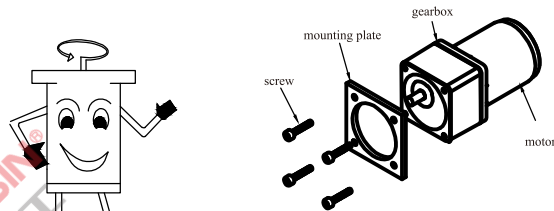


▽ Attention

Do not attach the motor on the mounting plate incorrect way, nor by force.
The motor can be destroyed because of the scratch of flange.

● Gear shaft type motor installation

After opening the hole on the mounting plate, the motor and reducer are fixed to the mounting plate with the 4 screws attached to the optional reducer. Please note that there should be no gap between the flange of the motor and the inner edge of the reducer. Please refer to the instruction manual of gear reducer for detailed installation.



▽ Attention

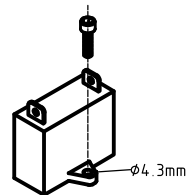
To use the gear reducer, please install the gear shaft type reducer with the same type of motor

The motor with a cooling fan attached

In order to avoid clogging the cooling hole in the back of the motor, please leave at least 10mm for the rear of the fan cover or open air-vent.

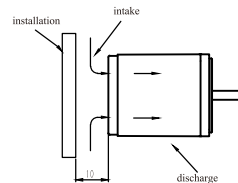
Installation of capacitors (single-phase motors only)

Please confirm whether the capacitance of the capacitor is consistent with the volume indicated on the motor plate. Please use M4 screw (unattached) to install firmly.



▽ Attention

This can cause damage to the motor easily caused by defects in the insertion of the flange



6. Wiring and operation method

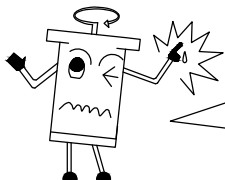
6.1 connection

Insulation of the connection part

Please wire the motor according to the wiring diagram

Motor lead wire and power supply wiring part,

all wiring part of the capacitor terminal connection should be insulated.

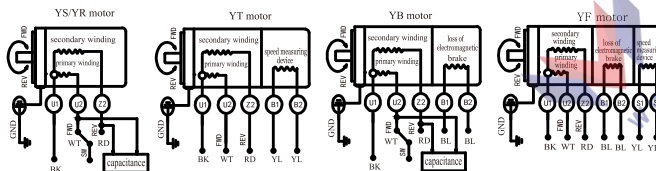


▽Attention

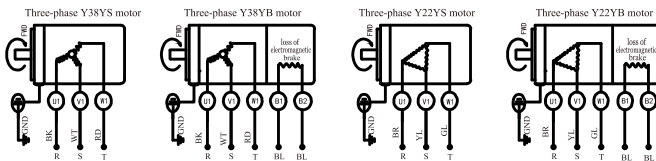
The connection and insulation of all connected parts must be performed with power removed; otherwise there may be a danger of electric shock or suddenly starting of motor.

6.2 wiring diagram

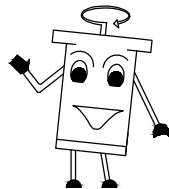
single phase motor



three-phase gear motor



7. Troubleshooting and handling

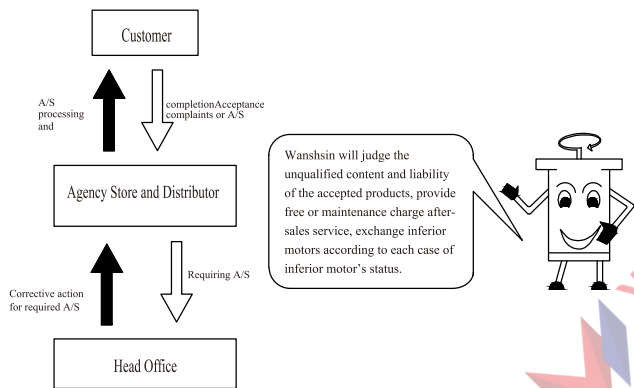


If the motor can not start normally, please refer to the following points for inspection. If all inspection items are in normal circumstances and the motor still can not start normally, do not repair, decomposition, transformation yourself, please contact the company agency store.

Fault Phenomenon	Processing Method
The motor does not rotate or run at low speed	<ul style="list-style-type: none"> * Please confirm the power supply voltage * Please connect the power supply and the motor correctly * If it is a single-phase motor, connect the attached capacitor correctly * If the terminal block and crimping the terminal, please confirm if there is a poor contact * Please set the load below the permissible value
The motor runs and stops from time to time	<ul style="list-style-type: none"> * Please connect the power supply and the motor correctly * If it is a single-phase motor, connect the attached capacitor correctly * When using the terminal connection, please confirm if there is a poor contact
Motor rotates in a wrong direction	<ul style="list-style-type: none"> * Please connect correctly according to the wiring diagram * If it is a single-phase motor, connect the attached capacitor correctly * The rotation direction of motor output shaft may be reversed due to different reduction ratio gear box, * Please refer to speed reducer operation manual
The motor is abnormally heated (The motor housing temperature exceeds 80 °C)	<ul style="list-style-type: none"> * Please confirm the power supply voltage * Please connect the power supply and the motor correctly * If it is a single-phase motor, connect the attached capacitor correctly * Improve ventilation conditions
Sounds abnormal noise	<ul style="list-style-type: none"> * Please refer to speed reducer operation manual, assemble the motor and gear box correctly * Please assemble the same gear type motor and gear box

8. Introduction of after-sales service process

Product damage and dissatisfaction



The Specification and out-looking of motors can be changed for developing products without informing the customers. Further details, please contact R&D, agency store, distributor
The warranty period of the company selling product is one year.

9. Product Qualification Certificate

Inspection item

1. Mechanical Performance Inspection

vibrate, Noise, Reduction, Ratio, Shaft runout, Appearance Quality

2. Electrical Performance Inspection

Pressure, Inter-turn insulation, DC Resistance, No-load Current, Turn direction

3. Packing Inspection

One key, one shaft sleeve, Instruction and product qualification certificate



This product has been inspected and qualified to leave the factory

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