Luyang Technology Co., Ltd
Innovation in Motion

Manual
K Series Induction Motor

Introduction

Please arrange staff with experiences on motor application, and read the manual carefully before using the product. If the examination of motor is needed, please contact us for further information.

The motor is made for normal industrial application; Do not use it for other purposes.

Notes

The following points are made for making sure you can apply our product safely and properly, and avoid getting hurt or any damaged. We strongly recommend you understand the following points before applying on our product.

I. Preparation before installation

- Make sure the voltage you are about to use before installation.
- Do no put motor under the environment of flammable or corrosive gas.
- Do not put pressure on outlet cable.
- Please arrange professional or technical staff installing the motor.

II. Install environment

Motor installation should be in compliance with the following points; if not, motor could be damaged.

- The motor is made and designed for applying on machine.
- Motor should be installed in indoor area.
- Humidity 85% below (freeze prevent).
- Below the altitude of 1000m.
- Temperature 0℃－40℃ (no freeze).
- Do not close to easy-explosive and flammable place.
- Avoid illumination, water, oil or other liquids.
- Avoid continuous vibration or hit.
- Less salty environment.
- Avoid electromagnetic interference.
- Not being in the radiate, magnetic or vacuum area.

III. Preparation before application

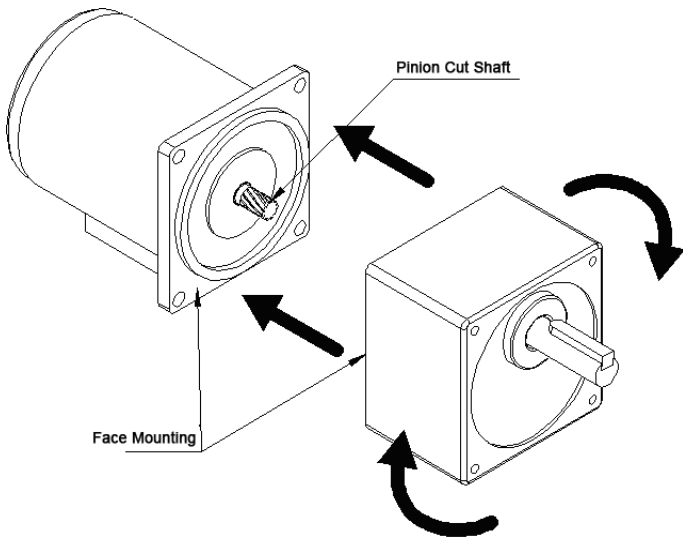
- Please make sure the voltage before applying motor.
- Please make sure the temperature of motor surface not exceed over 100℃.
- Coil and bearing could be damaged by high temperature.
- The confirmation of capacitor specification is needed.
- Request you make sure the connection with capacitor.

Combination between motor and reducer

Please assemble the pinion cut shaft and iron side on gearbox with right-left rotation. Do not knock or assemble hardly during combination.

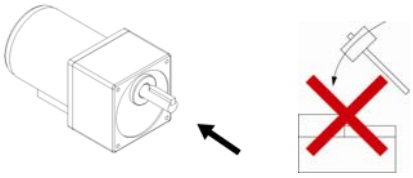
Caution

[illegible]etal fragment or scrap inside the gearbox, and still combined with motor shaft, the helical gear could be damaged, and the noise could be happened as well. (Be carefully)



Applying and installation on loading

Output shaft is made by h7 grind process, and there are two ways-“keyway and deep tap” in the end of shaft. Some spaces are needed when output shaft is embedding into transmission component, and then fasten it with screws to prevent from sliding.

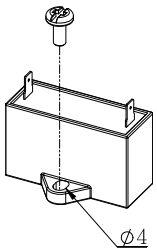


Caution

Do not use hammer or embed it forcedly, therefore improper installation is prohibited.

Capacitor installation (only available for 1 phase motor)

Please confirm the volume of capacitor is the same with one written on the motor label, and install the capacitor with M4 screw. (M4 screw is not included)

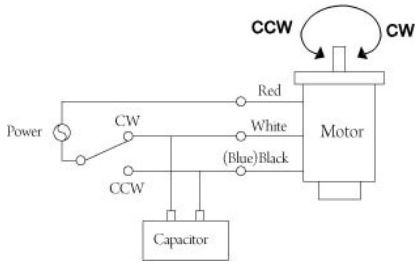


1. In order not to damage the pin of capacitor, please make sure the install torque is below 10kgcm.
2. Capacitor should be installed 10cm away from motor.

Wiring diagram

When you look toward motor，the forward direction is CW，the reverse direction is CCW。

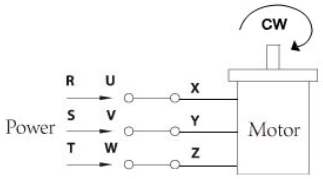
(1 phase motor)



Rotation direction switch (1 phase motor)：

Switch to CW, motor shaft will operate with forward direction; however if you switch to CCW, motor shaft will operate with reverse direction.

(3 phase motor)



Rotation direction switch(3 phase motor)：

You can change wiring with any 2 of 3 cables(U、V、W) so that motor will operate with reverse direction.

Check tips for general faults of motor

When motor operation goes fault, please check points as follow:

If motor is still under abnormal operation after checking following points. Do not dismantle motor by yourself, and please contact us for further assistance.

Abnormal operation	Confirm point
Motor breaks down or run with low speed	● Is voltage in accordance with that written on motor nameplate? ● Is motor wiring correct? ● Does motor go to overloading? ● Does the wire connect firmly? ● Does capacitor install correctly?
overheating (motor shell temperature exceeds over 100℃)	● Is voltage in accordance with that written on motor nameplate? ● Is ambient temperature over motor regulation? ● Is capacitor in accordance with that written on motor nameplate?
Abnormal noise	● Is the combination correct between motor and reducer? ● Is reducer model the same with one written on motor nameplate?