

## Safety Precautions on the Use of the Motor

## Common Faults and Disposal of the Motor

⚠ Hazard Warnings		Phenomenon	Reason	Disposal
Precautions	Potential Hazards	Unable to start	Improper connection of the wires	According to the provisions of the wiring nameplate waynameplate way
If's unable in the place with corrosive,explosive gase and flammability	Fire accident and malfunction will be caused		The supply voltage is too low	Increase the voltage
There should be shielding measures for the magnetic field when being in the use of static electricity or strong electricity	Damage or reduction of life will be caused for motor		Overload	Check the load and transmission gear, and reduce the load
Attention to the use of motor in the temperature ,humidity ,cleanliness and obstacles environment.	Improper use of the environment can cause electric shock, fire, malfunction, damage and personal injury accident	Abnormal noise or excessive vibration	Open phase	Check the power supply or motor
Wiring and operators should be responsible for confirming the compliance with the international (local) motor regulations	Electric shock, malfunction, fire, injuries and other accidents may be caused due to the non-professional guidance		Looseness of coupling	Check the coupling and place it in correct position when there is no problem
Do not immerse the lead in the oil or water	Electric shock and malfunction will be caused		Improper installation	Check the installation conditions and revise
Setting the short-circuit protection device,leakage circuit breaker and overload protection is necessary	Ignoring the device will cause electric shock, fire and safety accidents		Friction of stator and rotor	Check the stator and rotor, adjust and revise
Do not operate or connect the wires with wet hands	Electric shock will be caused		Damages of bearing or oil seal	Replacement
Before running the motor, firstly make sure the machine settings, and remove the shaft key,spare parts that are not used,to avoid rotating and flying out	Personal injury or mechanical damage may be caused		Wearing of bearing and clearance is too large	Adjustment or replacement
The motor should be used after the secure installation	Personal injury or damage to objects will be caused		Overheating	Open phase
Comply with the installation and running direction of the motor before running	Improper operation can cause personal injury or equipment damage	Overload		Light load
Avoid direct touch for the temperature increase when the motor is running	Appropriate preventive equipment shall be set to avoid injury	Blockage of the inlet and outlet		Check the debris blocking at inlet and outlet, then remove the foreign matter
The rotation direction of the motor have to confirm before running	Mechanical damage and personnel injury may be caused	Improper connection		Change the connection
Cut off the power of device when the temperature is too high or power failure	To avoid the hazards caused by the sudden restart	Environmental temperature or humidity is too high		Increase ventilation, reduce the environment temperature and control the humidity
Do not put the finger or objects into the outlet	Fire accident, malfunction and personal injury may be caused	Frequent starting or positive inversion too many times		Reduce the number of positive-negative rotation, or change the motor that is applicable to the frequent start and positive-negative rotation
Prevent hands,body or clothes touch like the fans,Rotation device parts	There should be the outer cover and do not remove the protection device; otherwise, malfunction and personal injury may be caused	Damage and malfunction of the fan		Check and repair it, if necessary, replace it
Cut the power off if the motor is not used for a long time	Malfunction and injury may be caused	Motor shell is electriferous (low insulation resistance)	Improper grounding	Check the grounding lines and the related equipment
The overhead hoist attached to the motor or blower is used for lifting, and do not place heavy objects on the motor	Fire, malfunction, injury, damage and other accidents may be caused		Improper and damaged insulation	Repairment
To avoid the slipping and falling when handling and operating, and power shall be cut off to stop the running of the motor	Damage and personal injury may be caused		Damage, contamination or moisture of the terminal block	Cleaning or replacing the terminal block
Avoid the impact on motor	Damaged or deformed with the motor		Lead wire is poor insulation or damage	Repair part of the insulation
Do not grab the lead,shaft or joints when using or handling	Electric shock and personal injury may be caused		Winding is damp or water is into the motor	Drying treatment
Do not modify or dismantle the motor	Electric shock, personal injury, malfunction and fire may be caused		Insulation aging of the stator winding	Replacement
Unpredictable hazards before the repair or maintenance,the power shall be cut off and stop by professionals	Damage and personal injury may be caused		Motor no-load current balance, but the value is large	The supply voltage is too high
Abnormal conditions,turn the power off immediately	Electric shock and damage may be caused	Wiring connection is error		Change the wiring
		Air gap is too large or uneven		Replace the new rotor or adjust the air gap