

7. Operation


DANGER

- Do not approach or touch rotating parts (output shaft, etc.) during operation; loose clothing may become caught in these rotating parts and cause serious injury or death.
- When the power supply is interrupted, be sure to turn off the power switch. Unexpected resumption of power may cause electric shock, personal injury, or damage to the equipment.
- Do not operate the unit with the terminal box cover removed. Return the terminal box cover to the original position after maintenance in order to electric shock.
- Do not open the terminal box cover when power is supplied to an **explosion-proof type motor** prevent otherwise, explosion, ignition, electric shock, personal injury, fire, or damage to the equipment may result.
- For motors equipped with brakes, do not operate with brakes released by the manual loosening bolt, otherwise the motor may fall or go out of control.
- Do not use of **single-phase motor** if there is possibility of loaded more than motor rated torque, otherwise the motor may go out of control.


CAUTION

- Do not put fingers or foreign objects into the opening of the gearmotor otherwise electric shock, personal injury, fire, or damage to the equipment may result.
- The gearmotor becomes very hot during operation. Do not touch or come in contact with the unit; otherwise, burns may result.
- If any abnormality occurs during operation, stop operation immediately; otherwise, electric shock, personal injury, or fire may result.
- Do not operate the unit in excess of the rating; otherwise, personal injury or damage to the equipment may result.
- Do not touch the charging portion of the starting capacitor of a **single-phase motor** until the capacitor has discharged completely, otherwise electric shock may result.
- When reversing the rotation of a **single-phase motor other than a reversible** motor, be sure to stop the motor before reversing the rotation, otherwise the rotation may not be successfully reversed, and the motor may go out of control.

After the unit is installed and properly wired, check the following before operating.

- (1) Is the wiring correct ?
- (2) Is the unit properly coupled with the driven ?
- (3) Are foundation bolts tightened firmly ?
- (4) Is the direction of rotation as required ?

After confirming these items, conduct initial break-in without a load; then gradually apply a load. Check the items shown in Table 10 on page 32.

Table 10 Items to check during initial start - up and break - in period

Is abnormal sound or vibration generated ?	(1) Is the housing deformed because the installation surface is not flat ? (2) Is insufficient rigidity of the installation base generating excessive noise ? (3) Is the shaft center aligned with the driven machine ? (4) Is the vibration of the driven machine transmitted to the gearmotor ?
Is the surface temperature of the gearmotor or reducer abnormally high ?	(1) Is the voltage rise or drop substantial ? (2) Is the ambient temperature too high ? (3) Does the current flowing to the gearmotor exceed the rated current shown on the rating plate ?

If any abnormality is found, stop operation and contact our nearest agent, distributor, or sales office.