

6. IRREGULARITIES IN THE MOTOR'S WORK

In case of discerning any of beneath irregularities in the motor's work immediate disconnection of the motor from the network should be done:

- strong vibrations of the motor,
- smoke coming out of the motor or of the appliance driven by the motor,
- considerable decrease of speed.

The motor should be sent for repairs to the manufacturer or to a specialized workshop.

LIST OF BALL BEARINGS

Motor size	Type of bearing
56	6201 2Z C3
63	6202 2Z C3
71	6203 2Z C3
80	6204 2Z C3
90	6205 2Z C3
100	6206 2Z C3
112	6306 2Z C3
132	6308 2Z C3
160	6309 2Z C3
180	6311 2Z C3

Any conclusions arising from use of the motors please report to ELEKTRIM where they will be considered in order to better the quality and utility advantages of the motors.



IEC 56 up to 180 Frame INSTALLATION AND MAINTENANCE INSTRUCTIONS

INTRODUCTION

The purpose of this booklet is to help you install, operate and maintain ELEKTRIM Motors to assure that you will get full advantage of their built-in efficiency and reliability. Following the recommended installation and maintenance procedures will extend the service life of the motor and minimize downtime.

1. CONSERVATION AND PACKING

Each motor has the free shaft extension protected by painting. Also the threaded centre hole is protected. The motors are packed in wooden crates. Exception is motors sizes: 56 to 112 which are packed in cardboard boxes.

2. TRANSPORTATION

The motors should be transported by covered means of transportation only. While transported, the motors should be protected against moisture, shocks and strokes. In the aim of protection the motors against moisture, in marine transportation they are equipped with drierbags.

3. STORAGE

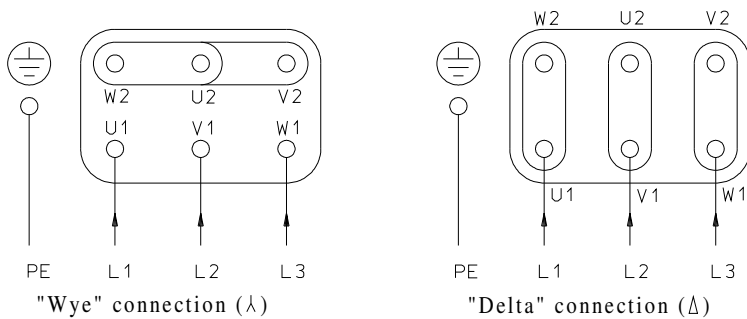
Storage of the motors is to be done in dry, aired, containing no substances harmful for winding insulation, rooms only. The minimum room temperature is $+5^{\circ}\text{C}$.

4. INSTALLING AND USING

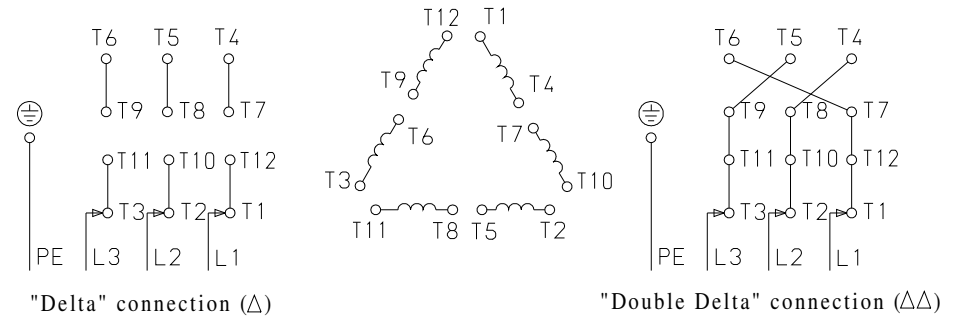
Before starting to use the motor, there should be checked:

- the nominal voltage of the network and that of the motor,
- correct and firm earth of the motor and switch,
- correctness of fixing of the motor,
- whether the rotor turns without friction,
- whether proper fuses have been used in the supply network,
- whether the insulation resistance in cold state is not less than $2\text{M}\Omega$,
- correctness of connection of supply cables,
- conformity of the motor's rotation direction,
- correctness of fixing of the terminal box cover.

Motors with mechanical size 56 – 80 &
Motors with mechanical size 90 - 112



Motors with mechanical size 132-180



REMARKS!

1. Usage of the motor without earth or ground protection is not allowable.
2. For securing the motor against the consequence of overload and short circuit, automatic thermal circuit breaker should be used.
3. For securing the motor against the consequences of break in one phase, proper protection devices should be used.
4. Moistness of the motor's interior require drying at a temperature 60° to 80°C during 2 hours

5. PERIODICAL INSPECTION

Each motor should be subject to periodical inspection dependent on the conditions it works in but not less frequently than once in 2 years.

Within a survey cleaning and external inspection of the motor and of the starting and protection apparatus should be made.

To verification are to be subject:

- insulations resistance,
- earth resistance,
- state of bearings.

If damages in the winding be found the motor should be turned over to a specialized workshop for repairs.

At each inspection of a motor with protection degree IP55, replacement of gaskets should be made.

After the inspection has been finished, there should be checked:

- correctness of connections,
- winding resistance,
- put the motor to no-load test.