

- Proper connections have been made
- Winding resistance
- Test motor no-load

IRREGULARITIES IN THE MOTOR'S WORK

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

- Strong motor vibrations
- 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
90	6205 2Z C3
100	6206 2Z C3
112	6306 2Z C3
132	6308 2Z C3
160	6309 2Z C3
180	6311 2Z C3

Please report any conclusions arising from use of the motors to Elektrim where they will be considered in order to better the quality and utility advantages of the motors.

ELEKTRIM MOTORS

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IEC 90 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.

CONSERVATION AND PACKING

Each motor has the free shaft extension protected by painting. Also the threaded center hole is protected. The motors are packed in wooden crates. Exception are motors sizes: 90 and 100 which are packed in cardboard boxes.

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 drier bags.

STORAGE

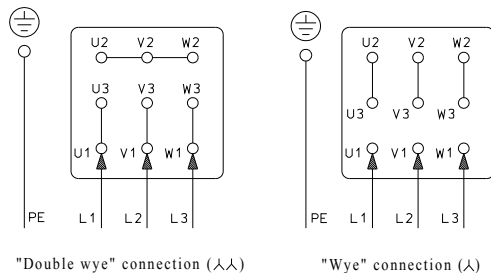
Storage of the motors is to be done in dry, aired, containing no substances harmful for winding insulation, rooms only. The minimum room temperature is +5°C .

INSTALLING AND USING

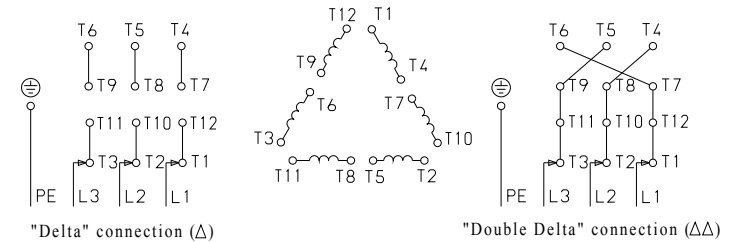
Before starting to use the motor, these should be checked:

- Nominal voltage of the network and that of the motor
- Verify that motor and switch are grounded correctly
- Verify correct mounting position
- 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 2MΩ
- Correct supply cable connection
- Verify motor rotation direction
- Confirm that Junction Box is properly sealed

Motors with mechanical size 90 - 112



Motors with mechanical size 132-180



REMARKS

1. Usage of the motor without earth or grounding protection is not allowable
2. For securing the motor against overloading and short circuiting, automatic thermal circuit breaker should be used
3. For securing the motor against single phase failure, proper protection devices should be used
4. Moistness of the motor's interior requires drying at a temperature 60° to 80°C for 2 hours

PERIODIC INSPECTION

Each motor should be subject to periodic inspection depending on the conditions it works in but not less frequently than once in 2 years. During cleaning and external inspection of the motor, the starting and protection equipment should be applied. Using the starting and protection equipment, the following should be verified:

- Insulation Resistance
- Grounding Resistance
- Bearing Condition

If damage in the winding is found, the motor should be turned over to a specialized workshop for repairs. At each inspection of a motor with IP55 protection degree, replacement of gaskets should be made. After the inspection has been finished, the following should be checked: