



Overview

This educational and technical kit provides all **mechanical and magnetic components** required to assemble a **2-pole, squirrel cage, three-phase asynchronous motor** rated at **1 kW—excluding the copper windings**.

Designed for **training, prototyping, and educational purposes**, the kit enables users to understand and build the core structure of an induction motor from the ground up.

Included Components

- **Stator Magnetic Core Pack:** Laminated sheets for stator core assembly
- **Rotor Assembly:** Squirrel cage rotor (aluminum or die-cast)
- **Motor Housing / Frame:** Durable metallic housing to support internal components
- **Bearings and Shaft:** Pre-sized for standard motor alignment
- **End Shields / Covers:** Precision-milled to fit rotor and stator
- **Fan and Fan Cover (optional):** For basic IC411 cooling simulation
- **Fasteners and Mounting Accessories:** Screws, bolts, and spacers
- **Terminal Block / Connection Lugs:** For connecting stator windings (post-installation)

Note: Copper winding wire is not included and must be sourced separately based on winding design.

Key Specifications

- **Motor Type:** Squirrel Cage Induction Motor
- **Configuration:** 2 Poles
- **Power Rating:** 1 kW
- **Phase:** Three-phase
- **Suitable for Voltage Classes:** 220V/380V (as per winding design)

Note: Specifications are subject to change, Photos shown above are indicative, Actual Product can vary



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Educational Objectives & Applications

- Demonstrate motor construction principles
- Practice winding techniques
- Study air gap symmetry and electromagnetic alignment
- Analyze starting and performance behavior of assembled motor
- Use in **technical colleges, engineering labs, and vocational training**

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