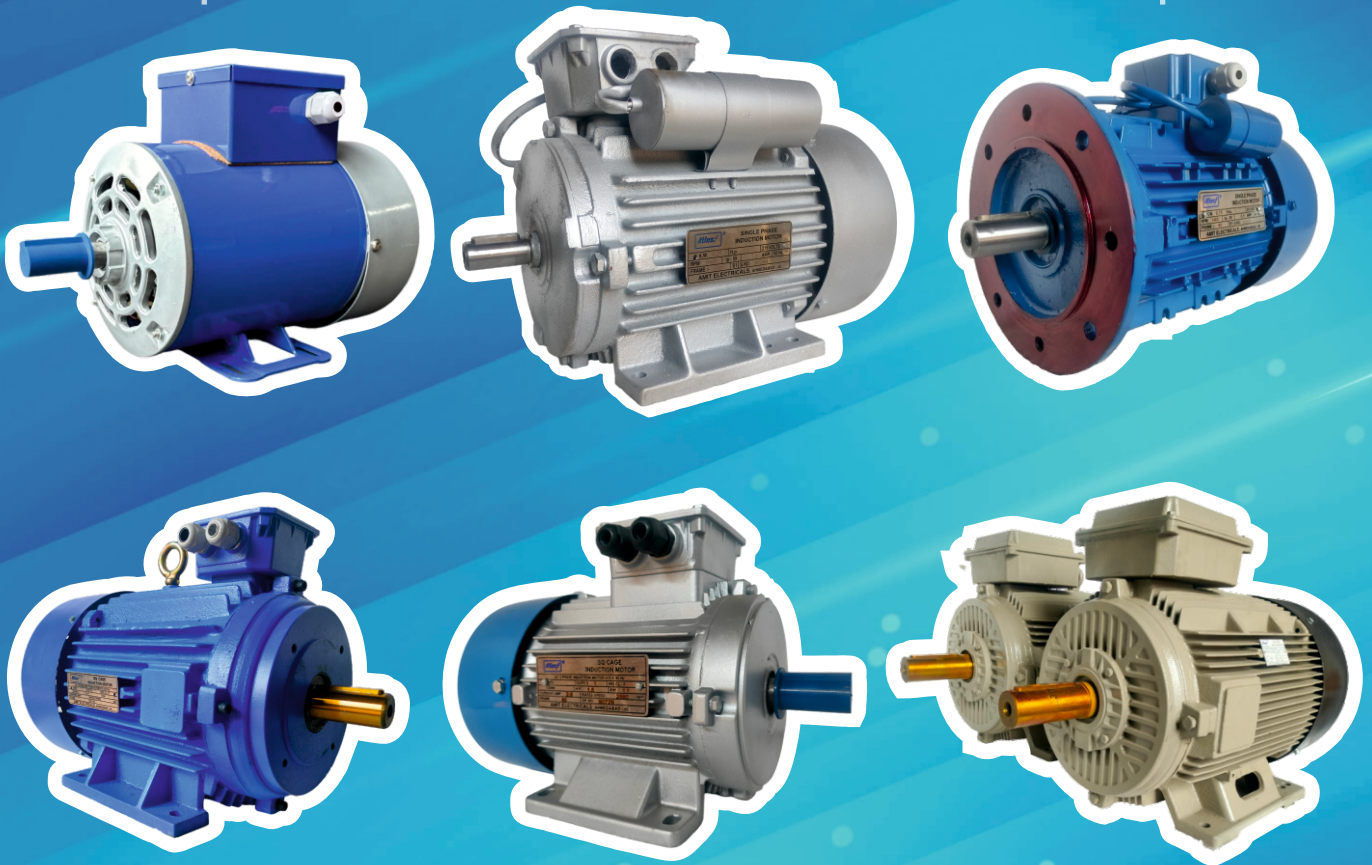




# AMIT ELECTRICALS

## 1-Phase / 3-Phase Motor



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# 1-Phase Motor



**AMIT ELECTRICALS** has been a trusted manufacturer, exporter, and supplier of single-phase AC induction motors since 1978. Our motors are crafted using quality-approved components and advanced techniques, ensuring reliable performance and superior quality across a wide range of industries.

## Specifications

### RANGE OF PRODUCTIONS

- ✓ 0.10 to 3.0 HP (0.075 to 2.2 kW)
- ✓ Frame : 63 to 112M
- ✓ Pole : 2 and 4

## Mounting Type

- ✓ Foot (B3)
- ✓ Flange (B5)
- ✓ Face (B14)
- ✓ Foot with Flange (B35)
- ✓ Foot with Face (B34)

## Frame

- ✓ Robust, rugged cast iron frame with integral feet.
- ✓ On request Aluminum Pressure Die Cast Body upto 100 L frame.

## Voltage and Frequency

- ✓ Voltage :  $220 \pm 5\%$
- ✓ Frequency :  $50 \text{ Hz} \pm 3\%$
- ✓ Also available 110 Voltage on 60 Hz.

## Protection

- ✓ Ingress Protection (IP) 44 as defined in IS : 4691.
- ✓ IP-54 and IP-55 on request.

## Shaft Direction

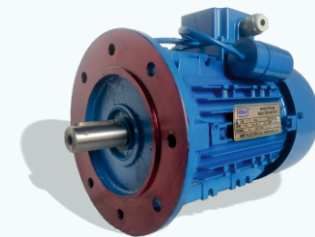
- ✓ Clockwise rotation by default.
- ✓ Reversible rotation available.
- ✓ We manufacture single-phase reversible motors.

## Centrifugal Switch

- ✓ Centrifugal switch is the heart of a single-phase motor.
- ✓ Automatically operates in split-phase and similar single-phase induction motors.
- ✓ Disconnects the starting winding once the motor reaches a set speed.
- ✓ Reconnects it when motor speed drops below the threshold.
- ✓ Prevents overheating and burnout of the starting winding.

## Winding Design

- ✓ **Capacitor Start Induction Run Motors:** High starting torque, ideal for machine tools, compressors, booster pumps, atta chakkis—suitable for high inertia and frequent start-stop use.
- ✓ **Resistant Start Induction Run Motors:** Moderately high starting torque, best for commercial juicers, sewing machines, surgical pumps, and similar applications.



## Shaft & Rotor

- ✓ Rotor is positively locked with a shaft key joint to prevent movement under high full-load torque.
- ✓ Shafts are made from strong EN-8 or EN-9 material.
- ✓ High-pressure E.C. grade aluminium die-cast rotors are dynamically balanced for low vibration and noise.

## Bearing & Lubrication

- ✓ Lubricated with lithium based high temp. upto  $150^{\circ}\text{C}$ .
- ✓ C3 ball bearing & fully charged with lithium base grease.

## Enclosure

- ✓ Supplied with T.E.F.C. enclosure (Totally Enclosed Fan Cooling).

## Thermal Over Protection

- ✓ T.O.P. (Thermal Overload Protector) switch on customer demand.
- ✓ Added safety against overload in single-phase motors.

## Terminal Box

- ✓ Terminal box on **Top Position** for foot mounted (B3).  
**Left or Right Position on demand.**

## Earthing Terminals

- ✓ Two earthing terminals. (One in terminal box and other in foot.)

## Paints

- ✓ Semi glossy synthetic enamel paint.
- ✓ Special paint available on request.

## Features

- ✓ High-efficient
- ✓ Noise-free
- ✓ Vibrating free
- ✓ Low running cost
- ✓ Durable
- ✓ Smooth finishing
- ✓ Cost effective
- ✓ Precision design



# 3-Phase Motor



**AMIT ELECTRICALS** has been manufacturing high-quality three-phase motors since 1978. We specialise in custom-built motors tailored to meet specific customer requirements.

## Specifications

### RANGE OF PRODUCTIONS

- ✓ 0.10 to 100 HP (0.075 to 75 kW)
- ✓ Frame : 63 to 250M
- ✓ Pole : 2, 4, 6, 8, 10, 12, 14, 16, 18, 20 and 24

## Mounting Type

- ✓ Foot (B3)
- ✓ Flange (B5)
- ✓ Face (B14)
- ✓ Foot with Flange (B35)
- ✓ Foot with Face (B34)

## Standards

- ✓ Dimensions according to IS 1231 & IS 2223

## Frame

- ✓ Robust, rugged cast iron frame with integral feet.
- ✓ On request Aluminum Pressure Die Cast Body upto 100 L frame.

## Voltage and Frequency

- ✓ Voltage :  $415 \pm 5\%$
- ✓ Frequency :  $50 \text{ Hz} \pm 3\%$
- ✓ Different voltage like 220, 380, 460, and 525 also available.

## Protection

- ✓ Ingress Protection (IP) 44 as defined in IS : 4691.
- ✓ IP-54 and IP-55 on request.

## Insulation

- ✓ Class "F" insulation is available. | H Insulation on request.

## Rotor

- ✓ High-pressure E.C. Grad Aluminum Die-cast.
- ✓ Dynamically balanced.
- ✓ Low amplitudes of vibration and noise.

## Shaft

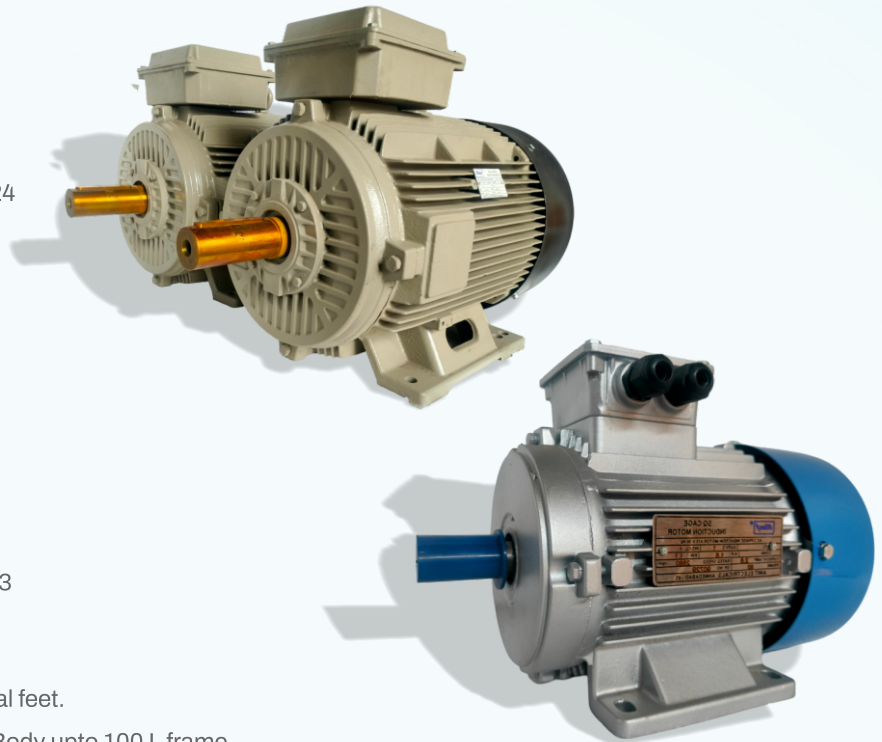
- ✓ High carbon steel to provide exceptional strength & rigidity to minimize deflection.
- ✓ Positive locking with joint so that cannot move on high full load torque.

## Bearings & Lubrication

- ✓ High carbon steel to provide exceptional strength & rigidity to minimize deflection.
- ✓ Positive locking with joint so that cannot move on high full load torque.

## Enclosure

- ✓ Supplied with T.E.F.C. (Totally Enclosed Fan Cooling)



## Thermal Overload Protection

- ✓ **PTC switch on-demand.**  
Extra safety & longer life-span upto 15-30 years.

## Terminal Box

- ✓ Terminal box on **Top Position** for foot mounted (B3).  
**Left or Right Position on demand.**

## Earthing Terminals

- ✓ Two earthing terminals. (One in terminal box and other in foot.)

## Paints

- ✓ Semi glossy synthetic enamel paint.
- ✓ Special paint available on request.

## Features

- ✓ High-efficient
- ✓ Durable
- ✓ Smooth finishing
- ✓ Economical price
- ✓ Precision design
- ✓ Long life



<https://youtu.be/XOvKLXIB3D0?si=B6M9attaoHpxikE9>

