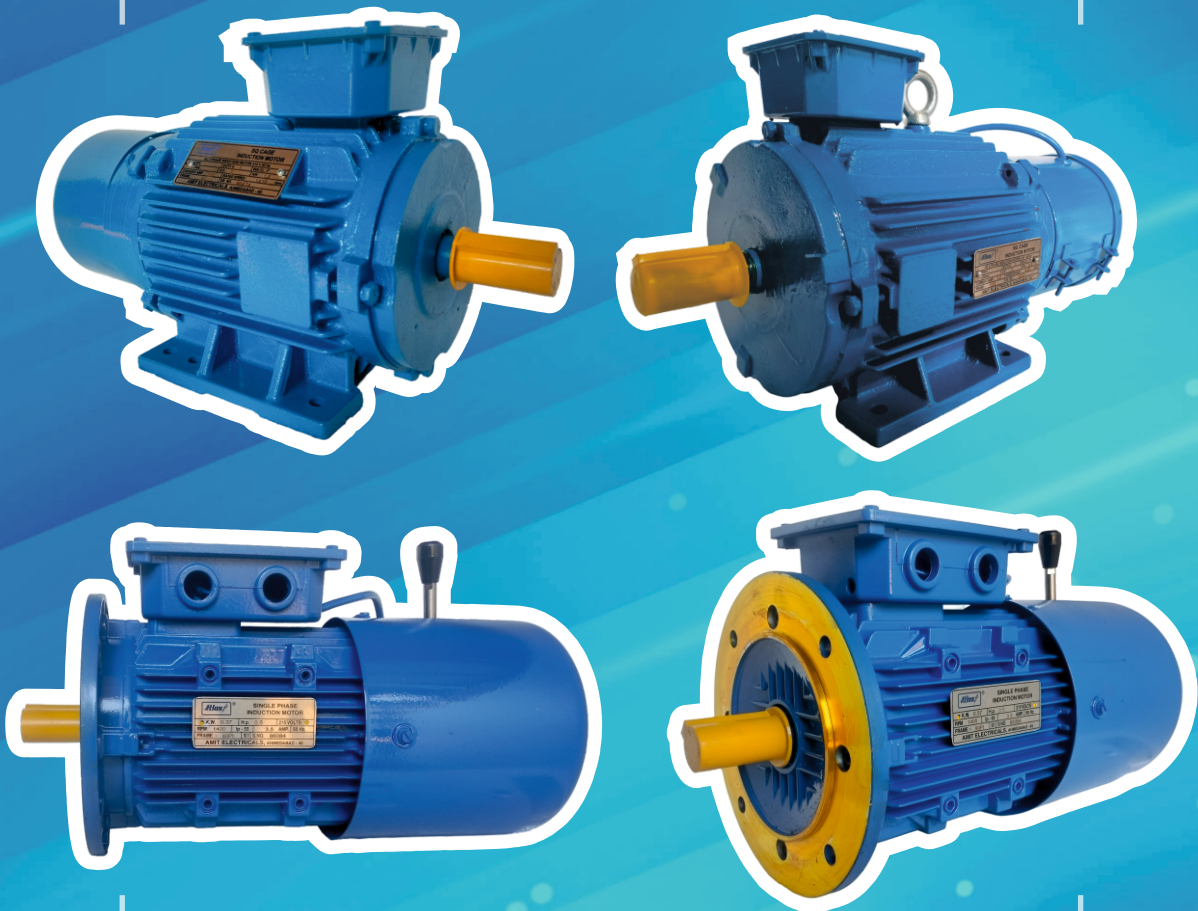




AMIT ELECTRICALS

AC & DC Brake Motor



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AC Brake Motor



We are a manufacturer, exporter, and supplier of AC brake motors, designed with both the motor and brake operating on AC voltage. These motors are equipped with a fail-safe brake system that securely locks the shaft when power is disconnected.

Specifications

RANGE OF PRODUCTIONS (3 Phase)

- ✓ 0.25 to 50 HP (0.18 to 37 kW)
- ✓ Frame : 63 to 225M
- ✓ Pole : 2, 4, 6, 8, 10 & 12

Mounting Type

- ✓ Foot (B3)
- ✓ Flange (B5)
- ✓ Face (B14)

Frame

- ✓ Robust, rugged cast Iron frame with integral feet.
- ✓ On request Aluminum body upto 100 L frame.

Insulation

- ✓ Class "F" insulation as standard feature.
- ✓ Class "H" insulation on request.

Ratings

- ✓ Continues duty brake motor (S1)
- ✓ Short time duty (S2)
- ✓ Intermittent periodic duty (S3)
- ✓ Intermittent duty with starting duty (S4)
- ✓ Intermittent duty with starting & ele. braking (S5)

Voltage & Frequency

- ✓ Voltage : $415 \pm 5\%$
- ✓ Frequency : $50 \text{ Hz} \pm 3\%$
- ✓ Different voltage like 220, 380, 460, and 525 with 50 Hz and 60 Hz also available on customer request.

Protection

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

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°C .
- ✓ C3 ball bearing & fully charged with lithium base grease.

Thermal Over Protection

- ✓ T.O.P. (Thermal Overload Protector) switch on customer demand.
- ✓ Added safety against overload protection.

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.)

Application

- ✓ Suitable to use with Lifting Machinery, Textile Machinery, Geared Motor, Cable Reeling Drums, Rolling Mills, Machine Tools, etc.

Features

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



DC Brake Motor



We are a manufacturer, exporter, and supplier of DC brake motors. The motor runs on AC voltage, while the brake operates on DC voltage, converted through a rectifier or SMPS. We offer two types of brake motors based on application requirements: fail-safe brakes (shaft locks when power is off) and normally-off brakes (shaft locks when power is on).

These motors are widely used in cranes and similar applications. The normally-off brake is fundamentally different from the fail-safe type, it activates when power is on and is ideal for emergency stopping and controlled halting of machines.

Specifications

RANGE OF PRODUCTIONS

- ✓ 0.25 to 50 H.P. (0.18 to 37 K.W.)
- ✓ Frame : 63 to 225M
- ✓ Pole : 2, 4, 6, 8, 10, & 12

Brake Voltage

- ✓ 24, 96, & 190 VDC

Mounting Type

- ✓ Foot (B3)
- ✓ Flange (B5)
- ✓ Face (B14)

Frame

- ✓ Robust, rugged cast Iron frame with integral feet.
- ✓ On request Aluminum body upto 100 L frame.

Insulation

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

Ratings

- ✓ Continues duty brake motor (S1)
- ✓ Short time duty (S2)
- ✓ Intermittent periodic duty (S3)
- ✓ Intermittent duty with starting duty (S4)
- ✓ Intermittent duty with starting & ele. braking (S5)

Voltage and Frequency

- ✓ $415 \pm 5\%$, 50 Hz $\pm 3\%$
- ✓ On request 220, 380, 460, 525 volts on 50 Hz

Protection

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

Shaft & Rotor

- ✓ Rotor is key-locked to the shaft to resist high torque; shaft made of EN-8/EN-9.
- ✓ Die-cast aluminium rotor is dynamically balanced for low vibration and noise.

Bearings & Lubrication

- ✓ Lubricated with lithium based high temp. upto 150°C.
- ✓ C3 ball bearing & fully charged with lithium base grease.

Thermal Over Protection

- ✓ T.O.P. (Thermal Overload Protector) switch on customer demand.
- ✓ Added safety against overload protection.

Terminal Box

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

Earthing Terminals

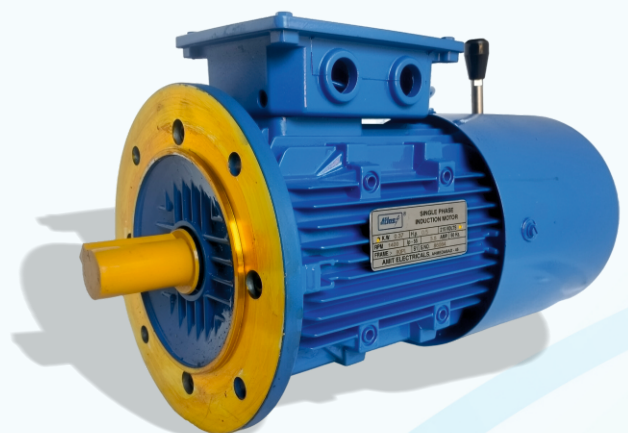
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 <https://www.youtube.com/watch?v=CPZq9lZUhg>

