



# Fail Safe Brake Motor

## Concept

Atlas Make Brake Motor Ares for various applications requiring almost instant stopping of drive load.

Basically brake motor combination of an AC induction motor and a disc type, fail safe Electromagnetic brake unit. Brake motors are mfg. as per application motor.

The motor brake in case of power supply failure ensuring further to a precise stop and quick braking action, the security of sudden inter venations in case of an unintentional power supply failure (i.e. power supply black-out, equipment failure)

The braking action is obtained without axial sliding of shaft and provides equal braking torque in both directions of rotations



## Brake Type

Fail Safe Brake (Power off Shaft lock)

## Range of Production

### Three Phase

0.25 H.p. to 30 H.p. (0.18 K.W. to 22 K.W.) Frame 63 to 180L in 2, 4, 6, 8, 10 & 12 Pole

### Single Phase

0.25 H.p. to 3 H.p. (0.18 K.W. to 2.2 K.W.) Frame 63 to 112M in 2 & 4, Pole



## Mounting

- Foot      - Flange      - Face



## Frame

Motor are supplied in a robust, rugged cast iron frame with integral feet. On Request we can supply motor in aluminum body up to 100 L frame.

## Insulation

Motor supply with class F insulation as standard feature. Also supply H on request of customer.





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## 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

Three Phase Brake Motor Supply volts 415 +- 5% 50 Hz. +- 3% customer request we are also able supply motor in 220, 380, 460, 525 volts on HZ. 50 or 60 Also. Single Phase Brake Motor Supply Volts 215 +-5% 50 HZ. +-3% Customer request We are also able supply motor in 110 volts on Hz. 50 or 50 Also

## Shaft & Rotor

Rotor is positive locking with Shaft key joint so that cannot move on high Full lord Torque. Shafts are made by En-8 or En-9 material..

Rotors are of high-pressure E.C. Grad aluminum die-cast. Every rotor is dynamically balanced. Its make motor low amplitudes of Vibration & noise

## Bearings & Lubrication

Bearings are adequately lubricated with lithium based high temp up to 150 deg. All the motors are supplied with C3 ball bearing & fully charged with lithium base grease at the time of assembly.

## Paints

All standard motor are painted with semi glossy synthetic enamel paint. However sp. Paint is available On request.

## Application

Brake motor is specially suitable to be used with Lifting Machinery, Textile Machinery, Geared motor, Cable Reeling Drums, Rolling Mills, Machine tools Ect.

### MANUFACTURING BY

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