

PARANAA[®] MOTORS

Cutting-edge Technology...
Designed to Deliver...

Powered by Quality...
Engineered for Excellence...

BRAKE MOTORS

IE2 IE3



Engineers Solution

'Paranaa' Brake Motors – Modern ERA in Brake Motors

'Paranaa' Brake Motor is a combination of 'Paranaa' Energy Efficient TEFC Squirrel cage induction motor and an electromagnetic DC brake. The electromagnetic brake is mounted on the non-driving end of the motor. DC brake motors are with a rectifier which provides the required DC voltage to the brake coil which in turn operates the brake.

Quality Policy

"Asia Engineering is committed to satisfy the customer through Efficient Manufacture and timely supply of Products through involvement of Employees and Suppliers."

Technical Overview

Frame Size	: 63 to 160 L
Output Range	: 0.18 kW to 15 kW 0.25 HP to 20 HP
Number of Poles	: 2/4/6/8
Electricals	: 3 Phase, 415 V, 50 Hz, Class 'F' Insulation
Brake coil voltage	: 24/96/190 V DC
Protection	: IP 54
Mounting Types	: All common Mountings
Cooling Type	: Surface Air and Fan Cooled
Temperature Class	: F Class (Temperature rise limited to B Class)
Ambient Temperature	: -10°C to 40°C
Altitude	: Upto 1000 mtrs above mean sea level

Working

'Paranaa' Brake motors are used for various applications where instantaneous stopping of the driven load is required. The operation of the brake is 'FAIL-SAFE' type, i.e., normally ON. When the electrical power to the motor is cut off or the power fails, the brake is applied. When the power to the motor is switched off, a braking torque is generated which presses the armature plate of the brake against the mounting flange. When the power supply resumes, a magnetic field is produced in the brake coil and this pulls the armature plate against the spring force and the shaft is now free to rotate.

Special Features

- ❖ Brake motors are simple, rugged in construction and easy to maintain.
- ❖ Built-in rectifier – No separate DC supply is required.
- ❖ Backlash free
- ❖ Quick response time
- ❖ Manual release - optional

Applications

'Paranaa' Brake motors can be used in various applications like:

- ❖ Machine Tools
- ❖ Textile Machinery
- ❖ Printing Machinery
- ❖ Material handling equipment
- ❖ Rolling Mills
and many more

Manufactured by :

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