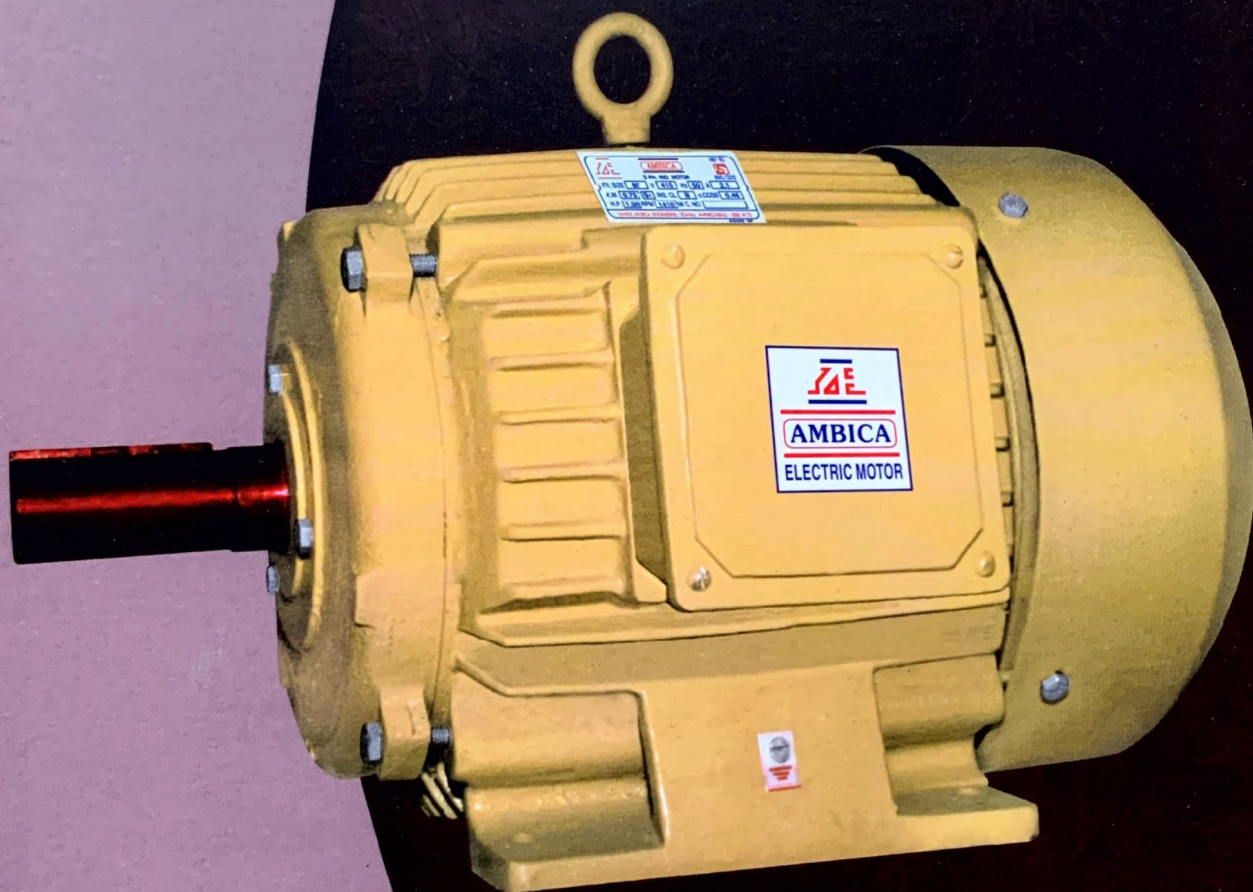


**Just Buy it, It will Bring  
the Business Himself.**



**Shree  
Ambica Engineers**



# TEFC Three Phase Cage Motors

## Range

Motors with standard ratings & duty cycles, 3 phase squirrel cage 0.09 K.W. to 30 K.W. with standard speed & various type of construction are available from frame size 63 to 200.

## Standards

Performance conforms to IS 325 & dimension according to IS : 1231 & IS : 2223.

## Ratings

Motors are rated for continuous duty at an ambient of 50°C & site altitude of upto 1000 m. above sea level.

## Voltage & Frequency

Motors are designed for 415 v.  $\pm 10\%$ , 3phase 50 Hz  $\pm 5\%$  Supply. Any other voltage/frequency available on request

## Enclosure

Motors have IP 55 degree of protection as a standard feature. This protection confirms IS 4691

## Motors Frame

Motors are supplied in a robust rugged cast iron frame with integral feet

## Class of Insulation

Motors are provided with class 'F', 'B', 'H', 'E' insulation

## Winding Protection

Embedding of PTC thermistors in the stator winding feasible on request.

## Type of Construction

Standard motors with single shaft extension are for horizontal foot mounting (B3 as per IS 1231). Other types of construction available on request

## Cooling & Ventilation

Type of cooling is as per IS 6362. All TEFC motors have an external Fan.

## Noise

Motors are designed & produced for low noise levels. All rotors are balanced on electronic dynamic balancing machine. Driving pulley & bearing seats are ground finished for vibration free running.

## Terminal Box

Standard Location of the terminal box is on the RHS viewed from driving end. Terminal Box can be rotated in steps of 90 degree.

## Bearing System

Frame up to 200 have prelubricated bearings as a standard feature.

## Earthing Terminal

All motors are provided with minimum 2 earthing terminals, one in the terminal box & one on the main frame leg.

## Paint

Standard paint is suitable for tropical condition. However special paint is available on request

## Testing & Inspection

Motors are well tested as per IS:4029 & IS : 4889.

## Range :

- 1) Standard Motors : 3 Phase TEFC, Squirrel cage induction motor from 0.09 K.W. to 30 K.W. in 2,4,6, & 8 poles, as per IS : 325
- 2) Standard flange Mounted Motors as per IS : 2223 (B5).
- 3) Standard face Mounted Motor as per IS : 2223 (B14)
- 4) Foot Cum flange Mounted Motors (B3-B5).
- 5) Foot Cum face Mounted Motors (B3-B14).
- 6) Motors fitted with Brake. (Brake Motor) (0.25 H.P. To 20 H.P.)
- 7) Vibrator Motors from 0.18 H.P. To 3 H.P.
- 8) Torque Motors : Torque from 7 kg.Cm (0.07 Kg.m) to 500 Kg.Cm (0.5 Kg.m), with 1/2 hour safe stall time.
- 9) Textile Motors : Loom Motors 0.55 K.W. to 1.5 K.W. in 6 & 8 poles.
- 10) Multi speed Motor
  - a) Constant H.P
  - b) Constant torque.
- 11) Surface cooled Motor. (T.E.)
- 12) Motors for Agriculture monoblock Pump.
- 13) Motors with Special shaft extension,
- 14) Surgical Motors (Dental & Eyechair, Instrument, Table, Operation Table.)
- 15) D.C Motor up to 0.25 H.P. To 20 H.P. (SHUNT, SERIES, COMPOUND)



## Shree Ambica Engineers

Mfg. of : ELECTRIC MOTORS & PUMP

C-25, G.I.D.C., ODHAV, AHMEDABAD - 382 415. (Gujarat)  
Phone : (F) 079 - 2870346 (R) 2169233 Fax : ++91 79 2974346

Dealers by :







**SUBMERSIBAL PUMPS**  
**MONOBLOCK PUMPSET**  
**DOMESTIC PUMPS**



**Shree Ambica Engineers**





A new wind of change has also touched agriculture technology and people especially farmers have become more curious to adapt new agri-techniques which can provide them satisfactory solution to their agricultural problems. "Ambica" the name itself defines a winning attitude. One of the most revolutionary and leading brand in the pump industry. "Ambica" range of agriculture pumps are designed and developed to suit every situation. Long lasting service and maintenance free performance make them more affordable to farmers. A few at a glance.

### OPENWELL HORIZONTAL SUBMERSIBLE PUMPSETS (Range 0.5 H.P. to 10 H.P.)

- High grade silicon stampings
- Easy installation
- Horizontal application
- No foundation required
- No footvalve required
- No fear from theft
- Efficient function even at the low voltage condition
- No water level guard required
- Stator vacuum impregnated varnish
- Noise free performance
- All rotating parts are dynamically balanced

### MONOBLOCK PUMPSETS (Range 0.5 H.P. to 10 H.P.)

- T.E.F.C. construction
- Robustly constructed with mechanical and electrical efficiency
- Casing ample strength to withstand even the undue pressure likely to result during sudden power failure
- Impeller is made of graded C.I. and is perfectly balanced
- High grade silicon stampings
- Higher efficiency
- Noise free performance
- All rotating parts are dynamically balanced

### SELF PRIMING PUMPS (Range 0.18 to 1 H.P.)

- Easy to install
- Higher efficiency
- Noise free performance
- Highgrade silicon stampings
- All rotating parts are dynamically balanced
- Rotary Seals
- Totally enclosed fan - cooled construction
- Impeller & its outer casing are made from brass
- Compact design low weight
- it eliminates the painstaking priming job at the pump
- Aluminium / cast iron body selection as per customer's choice

### SUBMERSIBLE PUMPSETS V6/V8 (Suitable for 6" to 8" bore) (Range 3 H.P. to 30 H.P.)

- Easy to install
- No foundation required
- Suction trouble eliminated
- Eliminates theft possibility
- All the pump parts are made from high quality wear resistance materials as per IS : 8034
- The electric motor body is made from seamless tube
- Stator vacuum impregnated varnish
- Pump shaft & sleeves are made from s.s. materials
- High grade silicon stampings
- Higher efficiency
- Noise free performance
- All rotating parts are dynamically balanced



### SUBMERSIBLE PUMPSETS V4 (SUITABLE FOR 4" BORE) Range 0.5 H.P. to 3 H.P. Single phase, 1 H.P. to 5 H.P Three phase

- Stainless steel body
- Noise free performance
- Higher efficiency
- High grade silicon stampings
- All rotating parts are dynamically balanced
- Corrosion free high grade engineering plastic components
- Impeller & diffuser with free flow vanes, reduce friction which improve pump efficiency
- Floating impeller provides longer thrust bearing life
- Light weight ensures easy installation & transportation
- Ideal for domestic operation and agricultural purpose.



## Shree Ambica Engineers

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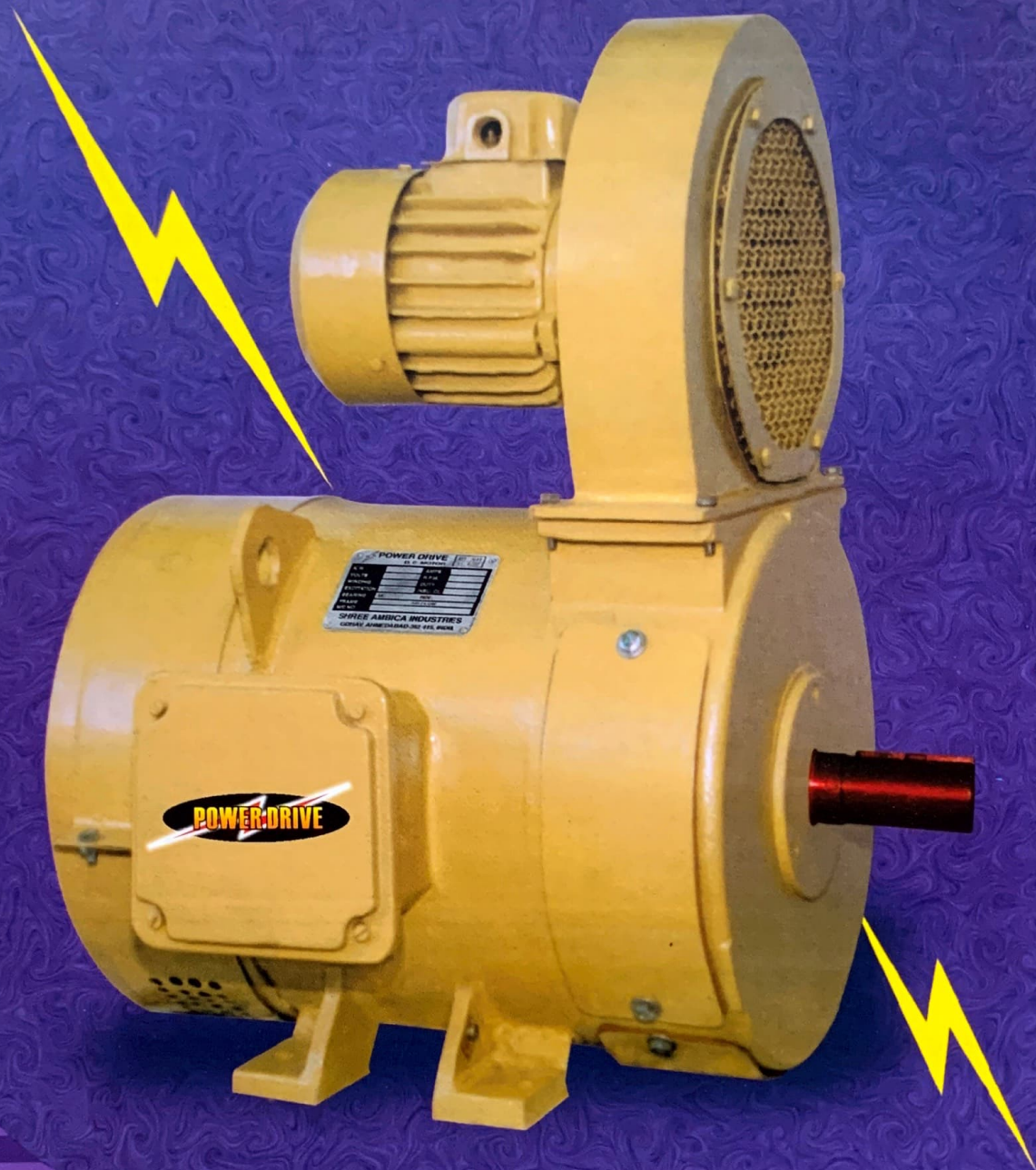
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Dealers by :



**POWER DRIVE**

**Our Motor can fulfill  
your Business Motive.**



**SHREE AMBICA INDUSTRIES**



**GENERAL :**

Armica Industries have been Mfg. A.C. & D.C. Motor for the last more than 20 years. Catering to industrial needs for a numbers of variable speed drive application. There is an accent for meeting customer needs for different conditions and with tropicalised designs and quality consciousness to meet the ardent requirements for our valued customers. All "POWER DRIVE" D.C. machine are compact in size and are engineered to perfect workmanship. They are reliable and trouble free service.

**CONSTRUCTION FEATURES :****Main Frame :**

The main magnet frames are fabricated from high permeability rolled steel. Poles and Interpoles have a lamination to reduce the hysteresis and eddy current losses.

**INTERPOLE :**

All integral H.P. standard machines are fitted with Interpoles to achieve perfect commutation, thus improving the life of commutators and brushes as well.

**ARMATURE :**

Armature are built up of high dynamo grade low loss silicon steel laminations keyed and pressed on to a high tensile steel shaft. Armature treated with special varnish to resists the action of oil and moisture. After all this operation rotor is properly balanced before going to assembly.

**WINDING :**

Enamelled copper conductors (Polyester or estarimide base) are used. Both Armature and field winding incorporate superior insulating material to confirm class 'B' for reliability and long life. Bectrol used on armature and coils to get good insulating resistance.

**COMMUTATORS :**

Commutators built of Hard drawn and high conductivity copper. Segments insulated from one another with mica. Before final assembly the mica, insulation is accurately undercut.

**BRUSH BOX :**

The brush gear is designed to permit easy and quick replacement and adjustment. High resistance brushes are used to obtained sparkless commutation.

**BEARING :**

The machine are fitted with ball bearing of ample size at each ends of the shaft and designed for long life.

**END SHIELD :**

End shield are made from cast Iron with proper machine.

**ENCLOSURE :**

The ventilation system of motor is SCREEN PROTECTED DRIP PROOF (SPDP) and TOTALLY ENCLOSED (T.E.) Extra cooling is provided in case of very low speed D.C. Machine.

**SPECIFICATION :**

Armature Voltage	: 220V, ..... 440V.
Excitation type/Voltage	: SHUNT / 220V.
Mounting	: Horizontal Foot Mounting B3 (H.F.M.) Vertical Flange Mounting B5 (V.F.M.)
Protection	: IP-23, IP-44/54/55
Cooling Type	: SPDP / SPFC / TEFC / Force Cooling
Insulation	: B/F/H Class
Winding	: SHUNT / SERIES / COMPOUND

**TESTING :**

All the machines are thoroughly tested before they leave factory premises.

**NOTE :**

"POWER DRIVE" motor are suitable to work on Thyristor controlled supply without any de-rating.

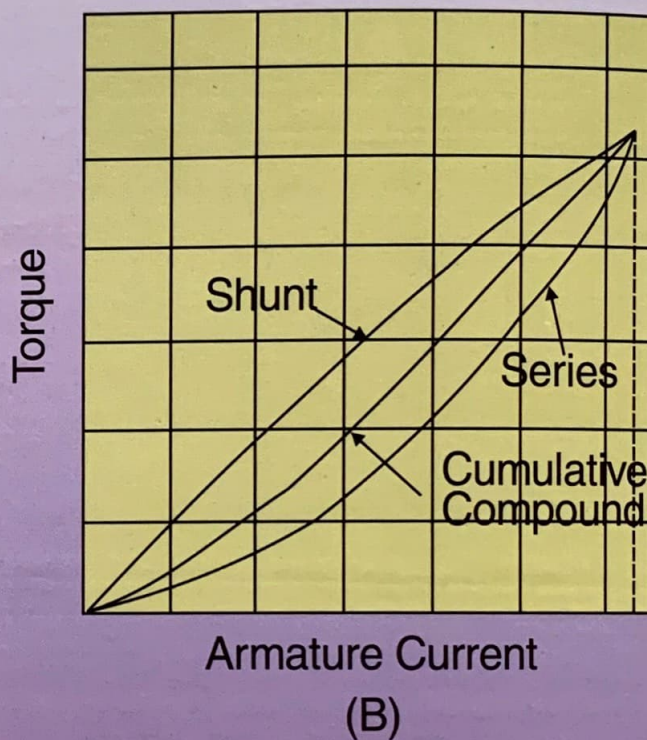
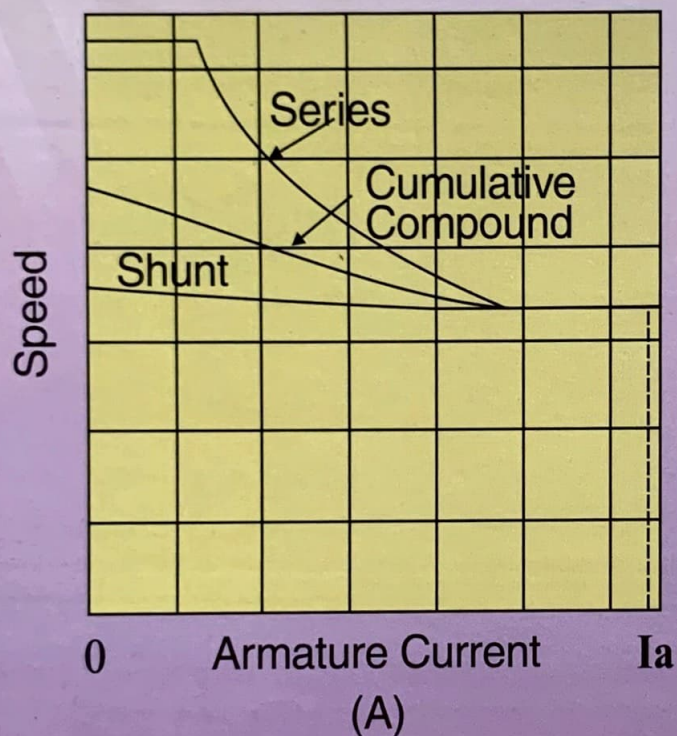




## APPLICATION :

TEXTILE MACHINE  
RUBBER INDUSTRIES  
NON FERROUS INDUSTRIES  
PHARMACEUTICAL INDUSTRIES  
LIFT AND HOIST  
TUBE MILL  
SUGAR MILL  
MILK AND FOOD PROCESSING

PLASTIC MACHINE  
PAPER INDUSTRIES  
CEMENT INDUSTRIES  
AUTOMOBILE INDUSTRIES  
OFFSET PRINTING MACHINE  
ROLLING MILL  
TYRE PLANT  
MANY OTHERS



# Ai

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Mfg. of Power Drive, A.C. & D.C. Motor

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