



Foot Mounted B3



Flange Mounted B5



Cooling Tower Motor - B5



Ginning Motor Foot Mounted B3



Brake Motor Foot Mounted B3



Flange Mounted With Extended Shaft B5



Dual Shaft Foot Mounted B3



Foot Mounted B3 With Alluminium Body



Foot Cum Flange Mounted B3 B5

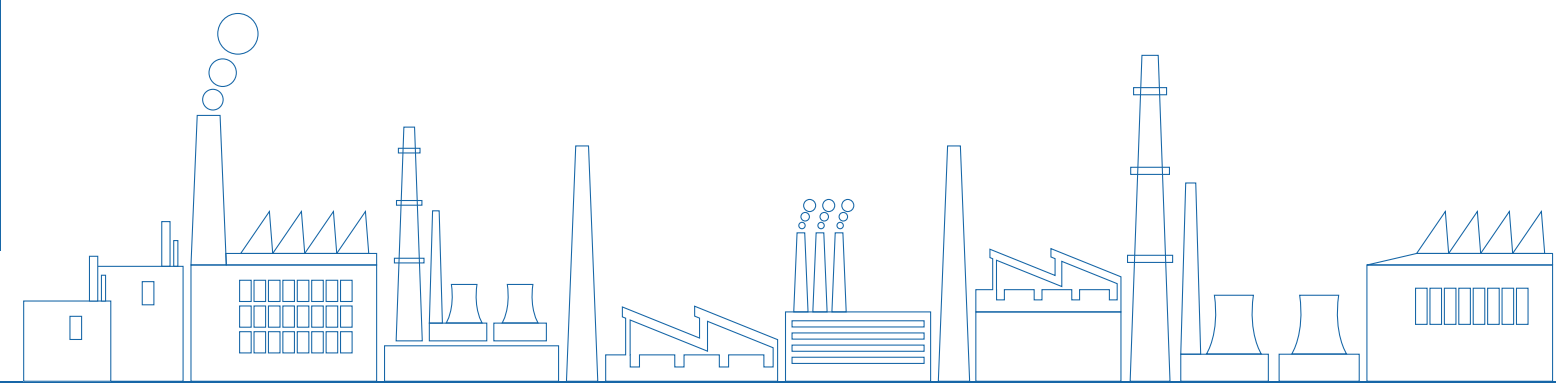


Face Mounted B14



Flange Mounted B5 With Alluminium Body

Ashol Designs : 98252 65336



Powering Industrial Progress



Contact us

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A product from Sabar Group (Established since 1975)

TEFC THREE PHASE SQUIRREL CAGE INDUCTION MOTORS

ELECTRICAL & MECHANICAL DATA RANGE :

Standard 3 Phase Induction motors with rating 0.12 Kw to 55 Kw are available from frame sizes 63 to 250 with standard speeds and various types of construction.

STANDARDS :

Performance conforms to IS : 325 and dimensions according to IS : 1231 and IS : 2223

RATINGS :

Motors are rated for continuous duty type S1 at an ambient of 45° Deg. C and site altitudes of upto 1000 M above mean sea level.

VOLTAGE AND FREQUENCY :

Motors designed are for a rated voltage of 415V +/-10%, 3 Phase, 50 Hz +/-5% supply. Motors with special designs of Voltage/Frequency can be offered on request.

PAINT :

Standard synthetic enamel paint is provided which is suitable for tropical conditions. However, special paint can be provided on request.

INSULATION SYSTEM :

All standard motors are provided with class "F" insulation system. Motors with any other class of insulation ("H") / ("A") can be offered on request.

DEGREE OF PROTECTION :

Motors have IP55 degree of protection as a standard feature conforming to IS 4691. Motors can be supplied with protection IP56 as well as IP65 on special request.

TERMINAL BOX :

All motors are provided with terminal box on the top front as seen from the drive end or on the side of the motor body. Terminal box can be rotated in steps of 90 deg.

COOLING & VENTILATION :

Type of cooling is as per IS 6362. All motors have an external bi-directional centrifugal fan.

NOISE :

Motors are designed for low noise level in accordance with IS 12065.

BEARING SYSTEM :

All motors are equipped with pre-lubricated bearings. Regreasing facility can be provided on request.

EARTHING TERMINALS :

Terminals are provided in all the motors. Two on the stator housing and one in T. Box.

APPLICATION :

Air Compressor, Pumps, Textile Machinery, Pharmaceutical Machinery, Chemical Machinery, Machine Tools, Crane and Hoists, Blowers, Material Handling Equipments, Geared Motors.

CONSTRUCTION :

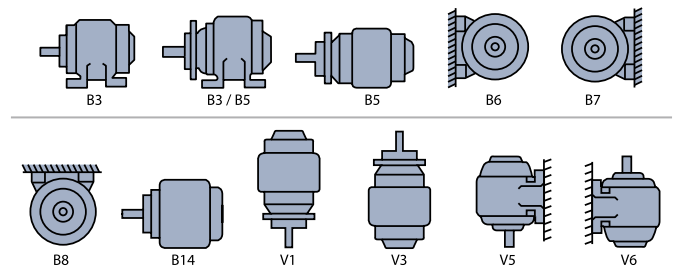
Standard motors with single shaft extension are for horizontal foot mounting *(B3 as per IS : 1231) and vertical flange /

face mounting (B5 & B14 as per IS : 2223). Other types of construction as shown below can be offered on request.

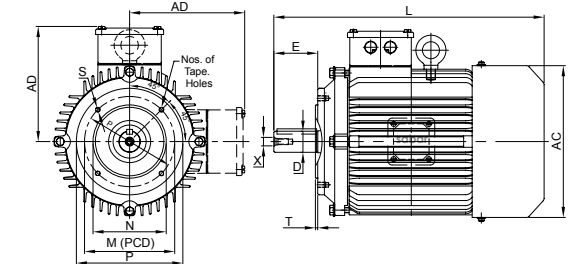
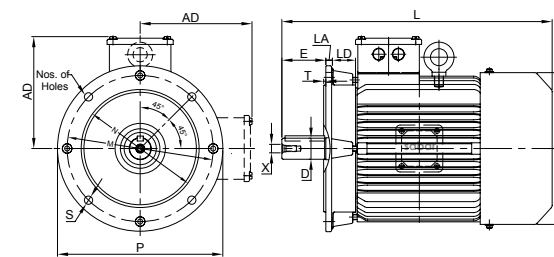
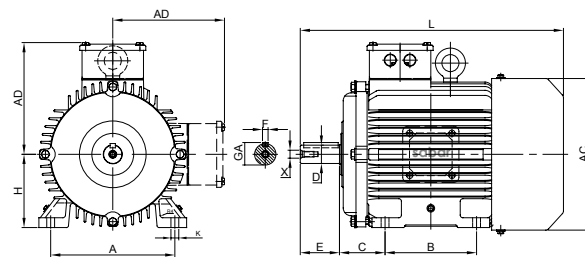
MATERIAL OF CONSTRUCTION :

All standard motors are in CI material. Motors up to 100L frame can be offered in Aluminum body also. * We are also equipped to supply motors in different construction of materials and also special designs, voltage, frequency, protection class as per specification of our International standard or as per requirement of our valued customers.

TYPES OF CONSTRUCTION (SYMBOL AS PER IS: 2253)



Due to continuous R&D, design and specifications are subject to change without notice



| Frame | OUTPUT HP AT SPEED (RPM) | | | | | |
|-------|--------------------------|-----------|-----------|---------|--------|--------|
| | 3000 | 1500 | 1000 | 750 | 600 | 500 |
| 63 | 0.25/0.33 | 0.16/0.25 | | | | |
| 71 | 0.5/0.75 | 0.33/0.5 | 0.25/0.33 | | | |
| 80 | 1.0/1.5 | 0.75/1.0 | 0.5/0.75 | 0.25 | | |
| 90S | 2 | 1.5 | 1 | 0.5 | | |
| 90L | 3 | 2 | 1.5 | 0.75 | 0.75 | |
| 100L | 3/5 | 3 | 2 | 1.0/1.5 | 1 | 0.75 |
| 112M | 5 | 5 | 3 | 2 | 1.5 | 1 |
| 132S | 7.5/10 | 7.5 | 5 | 3 | 2 | 1.5 |
| 132M | 12.5 | 10 | 7.5 | 5 | 3 | 2 |
| 160M | 15/20 | 12.5/15 | 10 | 5/7.5 | | 3 |
| 160L | 25 | 20 | 12.5/15 | 10 | 4/5 | 4 |
| 180M | 30 | 25 | - | 12.5 | 7.5/10 | 5 |
| 180L | - | 30 | 20 | 15 | 12.5 | 7.5/10 |
| 200L | 35/40/50 | 35/40 | 25/30 | 20 | 15/20 | 12.5 |
| 225S | | | | | | |
| 225S | - | 50 | 35 | 25 | 20 | 15 |
| 225M | 60 | | | | | |
| 225M | | 60 | 40 | 30/35 | 25 | 20 |
| 250M | 75 | | | | | |
| 250M | - | 75 | 50 | 40 | 30 | 25 |

| Frame | FRAME DIMENSIONS | | | | | | | | X Shaft end Taping |
|-----------------|------------------|-----|----|-----|----|------|-----|--|--------------------|
| | AC | AD | D | E | F | GA | L | | |
| 63 | 118 | 96 | 11 | 23 | 4 | 12.5 | 206 | | M4 |
| 71 | 141 | 105 | 14 | 30 | 5 | 16 | 251 | | M4 |
| 80 | 158 | 125 | 19 | 40 | 6 | 21.5 | 281 | | M6 |
| 90S | 179 | 132 | 24 | 50 | 8 | 27 | 321 | | M8 |
| 90L | 179 | 132 | 24 | 50 | 8 | 27 | 346 | | M8 |
| 100L | 202 | 160 | 28 | 60 | 8 | 31 | 368 | | M10 |
| 112M | 225 | 171 | 28 | 60 | 8 | 31 | 392 | | M10 |
| 132S | 260 | 188 | 38 | 80 | 10 | 41 | 443 | | M12 |
| 132M | 260 | 188 | 38 | 80 | 10 | 41 | 481 | | M12 |
| 160M | 309 | 220 | 42 | 110 | 12 | 45 | 606 | | M16 |
| 160L | 309 | 220 | 42 | 110 | 12 | 45 | 650 | | M16 |
| 180M | 347 | 255 | 48 | 110 | 14 | 51.5 | 740 | | M16 |
| 180L | 347 | 255 | 48 | 110 | 14 | 51.5 | 740 | | M16 |
| 200L | 398 | 280 | 55 | 110 | 16 | 59 | 762 | | M20 |
| 225S(3000 RPM) | 440 | 315 | 55 | 110 | 16 | 59 | 780 | | M20 |
| 225S(Other RPM) | 440 | 315 | 60 | 140 | 18 | 64 | 810 | | M20 |
| 225M(3000 RPM) | 440 | 315 | 55 | 110 | 16 | 59 | 780 | | M20 |
| 225M(Other RPM) | 440 | 315 | 60 | 140 | 18 | 64 | 810 | | M20 |
| 250M(3000 RPM) | 470 | 380 | 60 | 140 | 18 | 64 | 878 | | M20 |
| 250M(Other RPM) | 470 | 380 | 65 | 140 | 18 | 69 | 878 | | M20 |

| A | B | C | H | K | K-For Bolt |
|-----|-----|-----|-----|----|------------|
| | | | | | |
| 100 | 80 | 40 | 63 | 7 | M6 |
| 112 | 90 | 45 | 71 | 7 | M6 |
| 125 | 100 | 50 | 80 | 10 | M8 |
| 140 | 100 | 56 | 90 | 10 | M8 |
| 140 | 125 | 56 | 90 | 10 | M8 |
| 160 | 140 | 63 | 100 | 12 | M10 |
| 190 | 140 | 70 | 112 | 12 | M10 |
| 216 | 140 | 89 | 132 | 12 | M10 |
| 216 | 178 | 89 | 132 | 12 | M10 |
| 254 | 210 | 108 | 160 | 15 | M12 |
| 254 | 254 | 108 | 160 | 15 | M12 |
| 279 | 241 | 121 | 180 | 15 | M12 |
| 279 | 279 | 121 | 180 | 15 | M12 |
| 318 | 305 | 133 | 200 | 19 | M16 |
| 356 | 286 | 149 | 225 | 19 | M16 |
| 356 | 286 | 149 | 225 | 19 | M16 |
| 356 | 311 | 149 | 225 | 19 | M16 |
| 356 | 311 | 149 | 225 | 19 | M16 |
| 406 | 349 | 168 | 250 | 24 | M20 |
| 406 | 349 | 168 | 250 | 24 | M20 |

| Frame | Flange Number | LA | LD | M | N | P | S | T | NO.OF HOLES |
|-------|---------------|----|----|-----|-----|-----|----|-----|-------------|
| | | | | | | | | | |
| 63 | F115B | 9 | 18 | 115 | 95 | 140 | 10 | 3 | 4 |
| 71 | F130B | 9 | 18 | 130 | 110 | 160 | 10 | 3.5 | 4 |
| 80 | F165B | 10 | 20 | 165 | 130 | 200 | 12 | 3.5 | 4 |
| 90S | F165B | 10 | 21 | 165 | 130 | 200 | 12 | 3.5 | 4 |
| 90L | F165B | 10 | 21 | 165 | 130 | 200 | 12 | 3.5 | 4 |
| 100L | F215B | 11 | 29 | 215 | 180 | 250 | 15 | 4 | 4 |
| 112M | F215B | 11 | 31 | 215 | 180 | 250 | 15 | 4 | 4 |
| 132S | F265B | 12 | 42 | 265 | 230 | 300 | 15 | 4 | 4 |
| 132M | F265B | 12 | 42 | 265 | 230 | 300 | 15 | 4 | 4 |
| 160M | F300B | 13 | 47 | 300 | 250 | 350 | 19 | 5 | 4 |
| 160L | F300B | 13 | 47 | 300 | 250 | 350 | 19 | 5 | 4 |
| 180M | F300B | 13 | 54 | 300 | 250 | 350 | 19 | 5 | 4 |
| 180L | F300B | 13 | 54 | 300 | 250 | 350 | 19 | 5 | 4 |
| 200L | F350B | 15 | 42 | 350 | 300 | 400 | 19 | 5 | 4 |
| 225S | F400B | 16 | 50 | 400 | 350 | 450 | 19 | 5 | 8 |
| 225M | F400B | 16 | 50 | 400 | 350 | 450 | 19 | 5 | 8 |
| 250M | F500B | 22 | 60 | 500 | 450 | 550 | 19 | 5 | 8 |

| Frame | Flange Number | M | N | P | S | T | NO.OF TAP HOLES |
|-------|---------------|-----|-----|-----|-----|-----|-----------------|
| | | | | | | | |
| 63 | F75C | 75 | 60 | 90 | M5 | 2.5 | 4 |
| 71 | F85C | 85 | 70 | 105 | M6 | 2.5 | 4 |
| 80 | F100C | 100 | 80 | 120 | M6 | 3.0 | 4 |
| 90S | F115C | 115 | 95 | 140 | M8 | 3.0 | 4 |
| 90L | F115C | 115 | 95 | 140 | M8 | 3.0 | 4 |
| 100L | F130C | 130 | 110 | 160 | M8 | 3.5 | 4 |
| 112M | F130C | 130 | 110 | 160 | M8 | 3.5 | 4 |
| 132S | F165C | 165 | 130 | 200 | M12 | 3.5 | 4 |
| 132M | F165C | 165 | 130 | 200 | M12 | 3.5 | 4 |