



ZEPPI[®]
ELECTRIC MOTORS
Customer's Satisfaction Is Our Profit

#लगाओ **ZEPPI**
रहो **HAPPY**



A.C. INDUCTION MOTORS

**TEFC (TOTALLY ENCLOSED FAN COOLED)
THREE PHASE & SINGLE PHASE SQUIRREL CAGE**

THREE PHASE INDUCTION MOTORS



IE2 HIGH EFFICIENCY CAST IRON
(FOOT MOUNTED)
RANGE : 0.25HP to 50.0HP



IE2 HIGH EFFICIENCY CAST IRON
(FLANGE MOUNTED)
RANGE : 0.25HP to 50.0HP



IE2 HIGH EFFICIENCY ALUMINIUM BODY
(FOOT MOUNTED)
RANGE : 0.25HP to 2.0HP



IE2 HIGH EFFICIENCY ALUMINIUM BODY
(FLANGE MOUNTED)
RANGE : 0.25HP to 2.0HP



IE2 HIGH EFFICIENCY CAST IRON BODY
(FOOT & FLANGE MOUNTED)
(AC BRAKE MOTORS)
RANGE : 0.25HP to 50.0HP



IE2 HIGH EFFICIENCY ALUMINIUM BODY
(FOOT & FLANGE MOUNTED)
(DC BRAKE MOTORS)
RANGE : 0.25HP to 2.0HP

IS : 12615



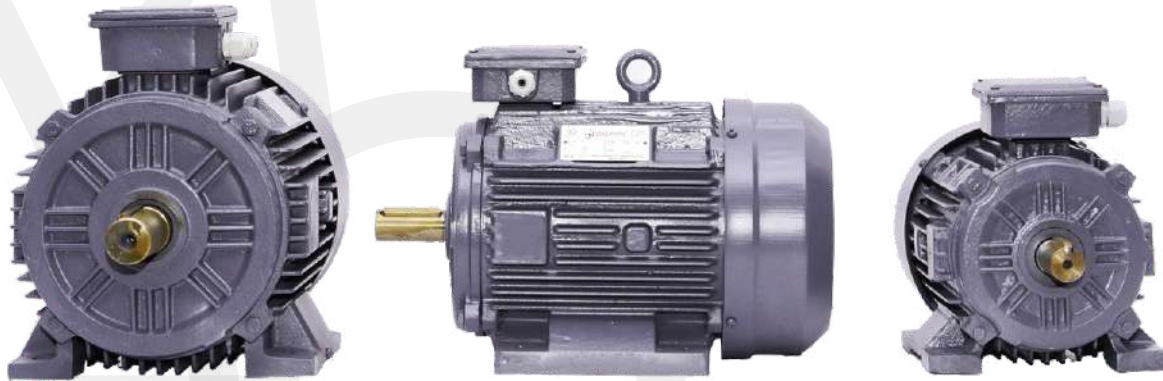
IP55

CM/L-9700142416

IE2 | High Efficiency | IE3 | Premium Efficiency

⇒ **IE2 HIGH EFFICIENCY** ⇐

⇒ **THREE PHASE INDUCTION MOTOR** ⇐



OPERATING CONDITIONS

● Voltage Variation	:	415V (±10%)
● Frequency Variation	:	50Hz (±5%)
● Duty Cycle	:	S1/ Continuous
● Enclosure	:	TEFC (Totally Enclosed Fan Cooled)
● Insulation Class	:	“F” & “H”
● Ambient Temperature	:	50° C
● Direction of Rotation	:	Clock wise & Anti Clock wise as seen from Drive end Side
● Degree of Protection	:	IP 44 & IP 55
● Cooling Method	:	IC 411 (Shaft Mounted Fan)
● Altitude	:	Should be lower than 1000 meters Above Sea level

FEATURES

- High Power Factor.
- High Torque Level.
- High Efficiency and Long Life Product.
- Minimum Copper losses due to use of electrolytic grade of copper.
- Minimum Friction losses.
- Easy maintenance.
- Minimum Pay Back Period.
- Low Temperature Rise.
- Motors are fitted with dynamically balanced aluminium die cast squirrel cage rotors.

APPLICATION

- Air Compressor.
- Domestic Floor Mills, Rolling Mills.
- Plastic Machinery.
- Wood Working Machinery.
- Lathe Machine.
- Power Press, Hydraulic Press.
- Textile Machinery, Blower & Varied Machines Tools.
- Material Handling Equipment, Diamond Machinery.
- Food Processing Machinery, Belt Conveyor Etc..

||> SINGLE PHASE INDUCTION MOTOR <||



HIGH EFFICIENCY
Cast Iron Body
(0.5HP TO 5HP)



HIGH EFFICIENCY
Sheet Metal Body
(0.5HP TO 2HP)



HIGH EFFICIENCY
Aluminium Motor
(0.25HP TO 1HP)



SINGLE PHASE & THREE PHASE
COOLANT PUMP
(0.11 KW TO 0.75 KW)

Operating Conditions

● Frame Size	:	80 to 132
● Rating	:	0.18 kw to 3.7 kw
● Voltage Variation	:	230V (±6%)
● Frequency	:	50Hz (±3%)
● Mounting	:	Foot Mounted (B3)
● Speed	:	1440 RPM
● Cooling	:	IC 411 (Fan mounted on shaft)
● Insulation Class	:	“F”
● Ambient Temperature	:	50° C
● Protection	:	IP 44
● Duty Cycle	:	S1 (continuous)

IP44

IS 996 : 2019



CM/L-9700173419

||| → GEAR BOX ← |||



NMRV WORM REDUCER

Size	:	030-040-050-063-075-090-110-130-150
Power	:	0.06 to 11 kw
Reduction ratios	:	between 5 and 100
Cases	:	up to 90 in die-cast aluminum alloy, Cast Iron All Units are Supplied Complete with synthetic oil



R SERIES HELICAL GEAR REDUCER (HORIZONTAL)

Power range	:	0.12-160kw
Output Speed	:	0.16-1028RPM
Output Torque	:	up to 23000N.m
Mounting Type	:	Foot Mounting
Reduction Stage	:	2 stage & 3 stage



NU TYPE WORM GEARBOX

Range	:	Power Range up to 250 kw
Sizes	:	10 : 1Up to 100 : 1
Ratio	:	NU 2.5 “ Up to NU 10”
Type	:	Under Driven / Oriven / Vertical Units in Single & Double Reduction.
Application	:	Conveyor, Alleviator, Ball Mill, Agitators, Cranes, Paper Mill, Ceramic, Lift Gearbox
Industries	:	Ceramic, Paper Mill etc.



PLANETARY STARRER GEAR

Range	:	From 0.75 kw TO 355 kw
Ratio	:	Ratio : 3:1 to 5000:1
Type	:	Planetary Gear / Vertical Gear
Industries	:	Material Handling, Pharma, Packaging, Food Processing, Ceramic etc.



CYCLOID GEAR REDUCER (HORIZONTAL)

Range	:	0.50 HP to 100 HP
Ratio	:	11:1, 17:1, 23:1, 29:1, 35:1, 43:, 59:1, 71:1, 87:1
Type	:	XWD/JXJ Series
Application	:	Line / Kiln / Convair & All Ceramic Industrial
Industries	:	Material Handling, Pharma, Packaging, Food Processing, Ceramic etc.

⇒ 3 PHASE COOLING TOWER MOTORS ⇐

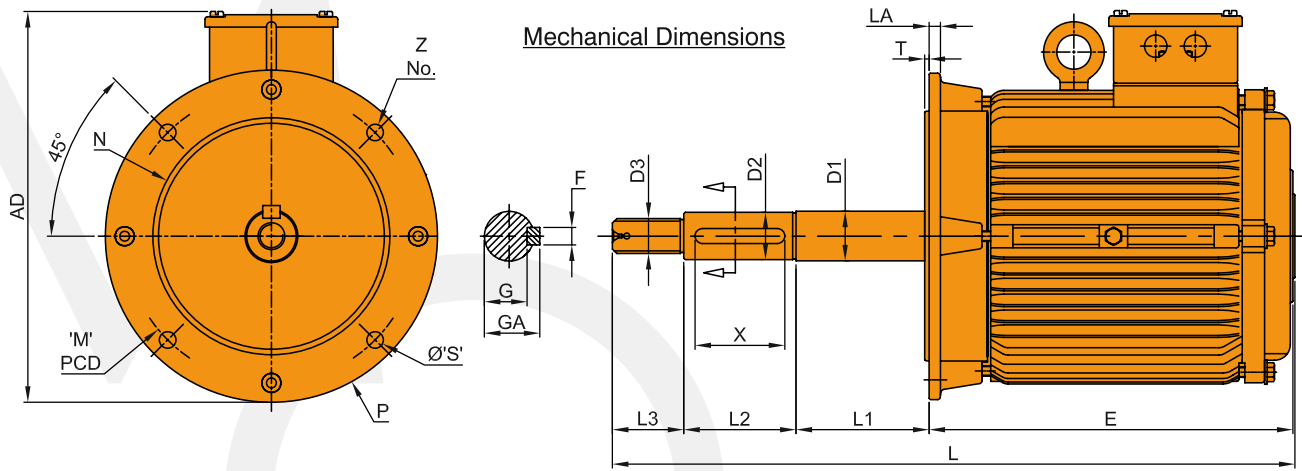
⇒ ELECTRICAL & MECHANICAL DATA ⇐

- **RANGE** : Standard 3 Phase Cooling Tower Motors with rating 0.18 KW to 30.0 KW are available from frame size 63 F to 225 F with Standard Speeds.
- **STANDARDS** : Performance conforms to IS:12615:2018.
- **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 415 V +/- 10%, 3 Phase, 50 Hz +/- 5% supply. Motors with special designs of Voltage/Frequency can be offered on request.
- **PAINT** : Cooling Tower Motors are provided with EPOXY paint to ensure long life of external surface.
- **CONSTRUCTION** : Cooling Tower Motors are specially designed flange mounted in totally enclosed constructions.
- **INSULATION SYSTEM** : All Cooling Tower Motors are provided with class "F" insulation system.
- **DEGREE OF PROTECTION** : All Cooling Tower Motors are having IP 55 Protection to avoid water ingress.
- **TERMINAL BOX** : All Cooling Tower Motors are provided with terminal box on the top front as seen from the non-drive end.
- **NOISE** : Motors are designed for low noise level in accordance with IS 12065.
- **BEARING SYSTEM** : All Motors having double shielded ball bearings.
- **EARTHING TERMINALS** : Earthing Terminals are provided on the stator housing or in Terminal Box in all motors.
- **MATERIAL OF CONSTRUCTION** : All Cooling Tower Motors are in CI material.

Due to continuous Research & Development, design and specifications are subject to change without notice.



DIMENSION OF COOLING TOWER MOTOR (B5 CONSTRUCTION)



#All Dimensions are in M.M.

FRAME	D1	D2	D3	G	GA	L	L1	L2	L3	E	F	P	M	N	S	Z	T	LA	X	AD
63	12	11	M10	8.5	12.5	24.5	35.5	25	30	155	4	140	115	95	10	4	3	9	20	185
71	15	14	M12	11	16	278	40	30	30	178	5	160	130	110	10	4	3.5	9	25	195
80	20	18	M16	15.5	21.5	347	55	50	45	197	6	200	165	130	12	4	3.5	10	35	224
90S	30	28	M24	24	31	459	112	55	60	232	8	200	165	130	12	4	3.5	11	45	232
90L	30	28	M24	24	31	484	112	55	60	257	8	200	165	130	12	4	3.5	11	45	232
100L	30	28	M24	24	31	486	112	55	60	259	8	250	215	180	15	4	4	11	45	285
112M	30	28	M24	24	31	505	112	55	60	278	8	250	215	180	15	4	4	11	45	296
112-132	40	38	M30	33	41	508	90	75	65	278	10	300	265	230	15	4	4	13	70	292
132S	40	38	M30	33	41	535	90	75	65	305	10	300	265	230	15	4	4	13	70	338
132M	40	38	M30	33	41	573	90	75	65	343	10	300	265	230	15	4	4	13	70	338
132-160	45	42	M30	37	45	573	90	75	65	343	12	350	300	250	19	4	5	15	65	336
160M	45	42	M30	37	45	644	90	75	65	414	12	350	300	250	19	4	5	15	65	395
160L	45	42	M30	37	45	688	90	75	65	458	12	350	300	250	19	4	5	15	65	395
180L	50	48	M30	42.5	51.5	811	100	105	65	541	14	350	300	250	19	4	5	15	100	430
200L	60	55	M30	49	59	835	100	105	69	561	16	400	350	300	19	4	5	16	100	480
225S & M	65	60	M30	54	64	879	100	130	69	580	16	450	400	350	19	8	5	20	100	540

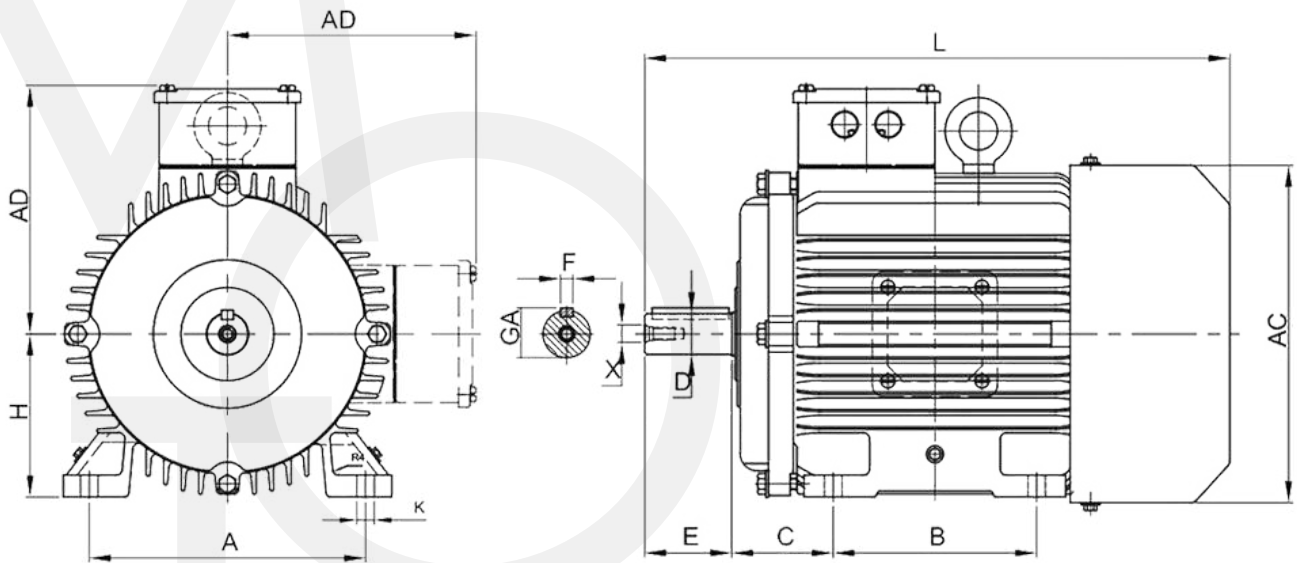
*All figure are subject to tolerance as per IS:12615:2018 | Design and specification are subject to change without prior notice

PRODUCT RANGE

Power	0.25 Hp to 40 Hp (0.18kw to 30 kw)
Frame Size	63 F to 225 M
Voltage	415 V ± 10% or as required
Insulation	Class 'F'
Type of Duty	S1
Ambient Temp.	45° cel.

Polarity	4P, 6P, 8P, 10P, 12P
Mounting	Flange mounted (B5)
Frequency	50 Hz ± 5% or as require
Protection	IP 55
Enclosure	Totally enclosed (TE)
Temp.rise	As per Insulation class 'B'

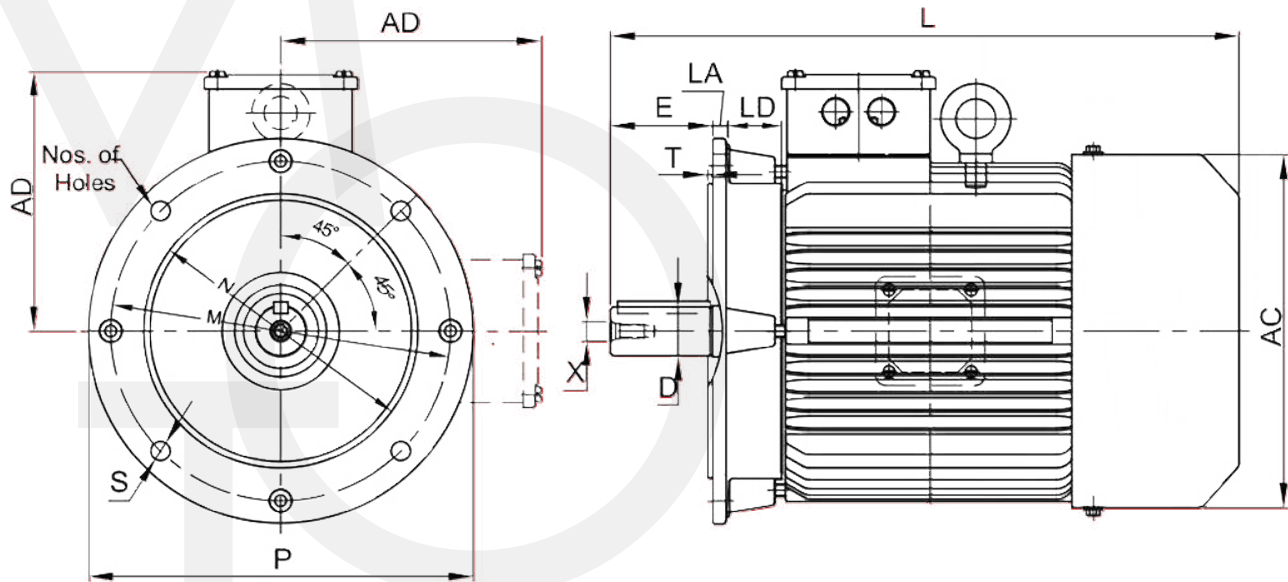
⇒ FOOT MOUNTED (IM B3) OUTLINE DIMENSION ⇐⇒



Frame Size ->	71	80	90-S	90-L	100-L	112-M	132-S	132-M	160-M	160-L	180M	180L	200L
H	71	80	90	90	100	112	132	132	160	160	180	180	200
A	112	125	140	140	160	190	216	216	254	254	279	279	318
B	90	100	100	125	140	140	140	178	210	254	241	279	305
C	45	50	56	56	63	70	89	89	108	108	121	121	133
D	14	19	24	24	28	28	38	38	42	42	48	48	55
E	30	40	50	50	60	60	80	80	110	110	110	110	110
F	5	6	8	8	8	8	10	10	12	12	14	14	16
GA	16	21.5	27	27	31	31	41	41	45	45	51.5	51.5	59
GD	5	6	7	7	7	7	8	8	8	8	9	9	10
ED	26	35	44	44	54	54	70	70	100	100	100	100	100
AA	27	35	42.5	38	47	52	56	45	60	60	78	78	86
AB	137	155	179	179	200	232	260	250	301	301	348	348	402
BB	132	151	140.5	172	192	194	196	215	319	319	298	328	348
K	7	10	10	10	12	12	12	12	15	15	15	15	19
HD	190	210	230	222	252	272	315	345	400	400	430	430	480
HA	10.5	12.5	12	15	17	20	19	16.5	25	25	26	26	32
AG	115	115	115	115	126	126	126	166	166	166	260	260	260
L	265	294	313	344	383	400	478	216	620	620	702	742	786
LL	105	105	105	105	126	126	126	166	166	166	155	155	155
AC	140	161	177	177	197	218	264	265	306	306	355	355	392

Note :- All Dimensions are in MM.

▶▶ FOOT MOUNTED (IM B5) OUTLINE DIMENSION ◀◀



Size :	71	80	90-S	90-L	100-L	112-M	132-S	132-M	160-M	160-L	180M	180L	200L
M	130	165	165	165	215	215	265	265	300	300	250	250	300
N	110	130	130	130	180	180	230	230	250	250	300	300	350
P	160	200	200	200	250	250	300	300	350	350	350	350	400
D	14	19	24	24	28	28	38	38	42	42	48	48	55
E	30	40	50	50	60	60	80	80	110	110	110	110	110
ED	26	35	44	44	54	54	70	70	100	100	100	100	100
F	5	6	8	8	8	8	10	10	12	12	14	14	16
GA	16	21.5	27	27	31	31	41	41	45	45	51.5	51.5	59
GD	5	6	8	8	8	8	10	10	12	12	9	9	10
LA	10	14	11	11	14	14	14	14	19	19	13	13	15
LD	18	9.75	18	18	19	29	41	41	41	41	32	32	32
T	3.5	3.5	3.5	3.5	4	4	4	4	5	5	5	5	5
S	10	12	12	12	15	15	15	15	19	19	19	19	19
AD	114	104	105	105	110	134	198	224	236	236	250	250	280
AG	115	115	115	115	126	126	126	166	166	166	260	260	260
L	296	296	343	343	384	384	453	510	605	605	714	745	801
LL	105	105	105	105	126	126	166	166	166	166	155	155	155
LB	264	252	293	293	324	324	383	430	495	495	604	644	691
AC	140	161	117	117	197	218	264	265	306	306	355	355	392

Note :- All Dimensions are in MM.

ENSURING ENERGY EFFICIENT

Associated Companies



A Unit Of Shafting
P. Patel Industries



A Unit Of Casting
Prabha Metal Cast



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A Unit of Manufacturing
Zeppi Electric Motors

For Service

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VOCAL
FOR
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