

PARANAA[®] MOTORS

ENERGY EFFICIENT MOTORS

IE2 IE3

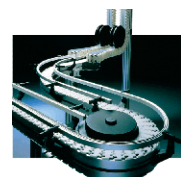


Cutting-edge Technology...

Powered by Quality...

Designed to Deliver...

Engineered for Excellence...



Company Profile

A prolific presence powered by experience

PARANAA Motors stands for its top quality, robust, reliable and cost effective with maximum efficiency that satisfies the need of every customer in various ranges of applications. Nearing four decades since inception, our group companies have undergone many a transition in manufacturing of Motors.

PARANAA Motors has recorded a remarkable growth with commitment towards value creation for its customers and stress on Research & Development.

Infrastructure and Facilities

A reputation for incomparable reliability and performance

Our Group Companies have the requisite contemporary infrastructure spread over an expansive area.

To facilitate smooth operations, modern machineries like Fully-automatic Coil Winding Machines, Shed Winders, CNC Machines, Surge Comparators for testing winding defects, Vacuum Impregnation Plant, Semi-Automatic assembly lane, Eddy Current Dynamo Meter for motor testing, Dynamic Balancing Machines for rotor with shaft and various custom made special purpose machines are available. Sophisticated product testing centres are also available to ensure quality.

Research and Development

Designed with innovative engineering and cutting edge technology

Ongoing research and development is an essential factor in successful business development.

Knowledge and Comprehensive design capabilities are the core competency of Paranaa Motors. Equipped with world class design centre the Research & Development team comprises of dedicated professionals who are constantly developing new technology to meet the challenges.

Certification

Achieving new heights with performance par excellence

With an uncompromising attitude towards quality and excellence in delivering valuable products and services, our organizations create value for its customers and delivers what it commits. The Company is certified with ISO 9001 and its products are CE certified.

A Modern ERA in Energy Efficient Motors - **PARANAA® MOTORS**

PARANAA Motors are Highly Energy Efficient Motors that give same output power by consuming lesser amount of power. Energy-efficient PARANAA Motors have longer insulation, better partial load, longer bearing lifetime, low heat output, less vibration and reduced operating costs. In addition, PARANAA Motors are more tolerant of overload conditions and phase imbalance.

PARANAA Motors facilitate smooth operations with Cutting-edge Technology Powered by Quality which has been Designed to Deliver outstanding Engineering Excellence.

Quality Policy

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

Technical Overview

Standards	: As per IEC Standards
Frame Size	: 71 to 250M
Output Range	: 0.37 kW to 55 kW 0.50 HP to 75 HP
Number of Poles	: 2/4/6 (8 upon request)
Protection	: IP 54/55
Voltages	: 415V $\pm$ 10% or as required
Frequency	: 50 Hz $\pm$ 5% or as required
Duty	: S1 Continuous (S2, S3, S4 upon request)
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 50°C
Altitude	: Upto 1000 mtrs above mean sea level

Customised Motors

Motors are also manufactured as per customers specifications and requirements.

Advantages of Energy Efficient **PARANAA® MOTORS**

- ❖ Improved Efficiency
- ❖ Vacuum Pressure Impregnation treated / Trickle Impregnation
- ❖ Extended motor life and re-greasing intervals due to lower motor temperature
- ❖ Additional reduction in operating costs
- ❖ High overload capacity in continuous mode
- ❖ Highly reliable with longer bearing life, due to higher bearing sizes
- ❖ Less harmful to the environment due to lower heat generation
- ❖ Very low maintenance cost
- ❖ Mountings can be modified to meet most specifications
- ❖ Spacious terminal box
- ❖ Suitable for VFD applications (To be specified)

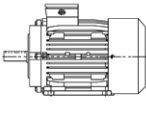
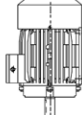
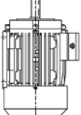
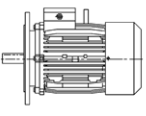
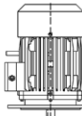
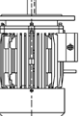
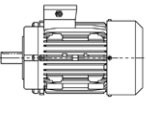
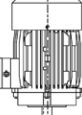
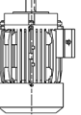
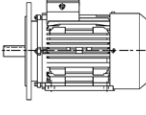
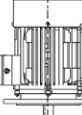
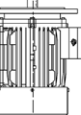
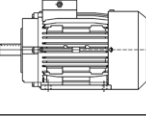
Construction Details

- ❖ 63 Frame to 90S Frame - Motor body in aluminium
- ❖ 90 L Frame to 180L Frame - Motor body in aluminium / cast iron
- ❖ 200L Frame to 250M Frame - Motor body in cast iron
- ❖ End shields made of aluminium / cast iron
- ❖ Cylindrical shaft made of 45C8 / SS 410
- ❖ Rotors are pressure die cast and dynamically balanced with shaft and key
- ❖ Stator core pack is built from low loss electrical grade steel lamination
- ❖ Terminal box rotation in steps of 90°
- ❖ Cooling fan made of nylon / aluminium material and designed for better cooling
- ❖ Cooling fan cover made of sheet metal

Bearing Sizes

Frame	Pole	Drive End	Non Drive End	Re-greasing interval (hrs)	
				2 Pole	4, 6 Pole
63	2 - 4	6202 ZZ	6201 ZZ	-	-
71	2 - 6	6203 ZZ	6202 ZZ	-	-
80	2 - 6	6204 ZZ	6203 ZZ	-	-
90	2 - 6	6205 ZZ	6204 ZZ	-	-
100	2 - 6	6206 Z	6205 Z	-	-
112	2 - 6	6206 Z	6205 Z	-	-
132	2 - 6	6208 Z	6207 Z	-	-
160	2 - 6	6309 Z	6208 Z	3000	6000
180	2 - 6	6310	6209	3000	6000
200	2 - 6	6312	6210	3000	6000
225	2 - 6	6313	6211	3000	6000
250	2 - 6	6315	6315	2500	5000

Types of Mountings

Foot Mounting	B3 	V5 	V6 
Flange Mounting	B5 	V1 	V3 
Face Mounting	B14 	V18 	V19 
Foot & Flange Mounting	B35 	V15 	V36 
Foot & Face Mounting	B34 		

Note: B6,B7,B8,B9 and B10 can be made of request.

Performance Data : 3 Phase, 415V, 50 Hz, IE 2

Rated Output HP (kW)	No. of Poles	RPM (sync)	Frame Size/Const.	100% Load			Breakaway	
				RPM	Eff %	A	I rated	T rated
0.50 (0.37)	2	3000	71/AL	2790	72.2	1.20	6.5	1.7
	4	1500	71/AL	1330	70.1	1.40	6.0	1.7
	6	1000	80/AL	870	69.0	1.40	6.0	1.6
0.75 (0.55)	2	3000	71/AL	2760	74.8	1.60	6.5	1.7
	4	1500	80/AL	1340	75.1	1.70	6.0	1.7
	6	1000	80/AL	870	72.9	1.90	6.0	1.6
1.00 (0.75)	2	3000	80/AL	2780	77.4	2.00	6.5	1.7
	4	1500	80/AL	1360	79.6	2.20	6.0	1.7
	6	1000	90S/AL	890	75.9	2.30	6.0	1.6
1.50 (1.10)	2	3000	80/AL	2790	79.6	2.80	6.5	1.7
	4	1500	90S/AL	1370	81.4	2.90	6.0	1.7
	6	1000	90L/AL/CI	900	78.1	3.20	6.0	1.6
2.00 (1.50)	2	3000	90S/AL	2800	81.3	3.70	6.5	1.7
	4	1500	90L/AL/CI	1380	82.8	3.80	6.0	1.7
	6	1000	100L/AL/CI	900	79.8	4.00	6.0	1.6
3.00 (2.20)	2	3000	90L/AL/CI	2810	83.2	5.00	7.0	1.7
	4	1500	100L/AL/CI	1390	84.3	5.10	7.0	1.7
	6	1000	112M/AL/CI	910	81.8	5.50	7.0	1.5
5.00 (3.70)	2	3000	100L/AL/CI	2820	85.5	8.00	7.0	1.6
	4	1500	112M/AL/CI	1410	86.3	8.10	7.0	1.6
	6	1000	132S/AL/CI	920	84.3	8.80	7.0	1.5
7.50 (5.50)	2	3000	132S/AL/CI	2830	87.0	11.00	7.0	1.6
	4	1500	132S/AL/CI	1420	87.7	11.40	7.0	1.6
	6	1000	132M/AL/CI	920	86.0	12.70	7.0	1.5
10.00 (7.50)	2	3000	132S/AL/CI	2840	88.1	15.00	7.0	1.6
	4	1500	132M/AL/CI	1430	88.7	15.40	7.0	1.6
	6	1000	160M/AL/CI	930	87.2	16.70	7.0	1.5
12.50 (9.30)	2	3000	160M/AL/CI	2840	88.8	18.50	7.0	1.6
	4	1500	160M/AL/CI	1430	89.3	18.50	7.0	1.6
	6	1000	160L/AL/CI	930	88.0	20.50	7.0	1.4
15.00 (11.00)	2	3000	160M/AL/CI	2860	89.4	21.50	7.0	1.6
	4	1500	160M/AL/CI	1440	89.8	22.00	7.0	1.6
	6	1000	160L/AL/CI	935	88.7	23.00	7.0	1.4
20.00 (15.00)	2	3000	160M/AL/CI	2870	90.3	29.00	7.0	1.6
	4	1500	160M/AL/CI	1440	90.6	30.00	7.0	1.6
	6	1000	180L/AL/CI	940	89.7	30.50	7.0	1.4
25.00 (18.50)	2	3000	160L/AL/CI	2880	90.9	35.00	7.0	1.6
	4	1500	180M/AL/CI	1440	91.2	36.00	7.0	1.6
	6	1000	200L/CI	940	90.4	37.50	7.0	1.4
30.00 (22.00)	2	3000	180M/AL/CI	2890	91.3	41.50	7.0	1.6
	4	1500	180L/AL/CI	1440	91.6	43.00	7.0	1.6
	6	1000	200L/CI	945	90.9	44.00	7.0	1.4
40.00 (30.00)	2	3000	200L/CI	2900	92.0	54.00	7.0	1.6
	4	1500	200L/CI	1450	92.3	56.00	7.0	1.6
	6	1000	225M/CI	945	91.7	59.00	7.0	1.4
50.00 (37.20)	2	3000	200L/CI	2900	92.5	67.00	7.0	1.6
	4	1500	225S/CI	1450	92.7	69.00	7.0	1.6
	6	1000	250M/CI	950	92.2	72.00	7.0	1.6
60.00 (45.00)	2	3000	225M/CI	2955	92.9	80.00	7.0	1.6
	4	1500	225M/CI	1460	93.1	84.00	7.0	1.6
75.00 (55.00)	2	3000	250M/CI	2960	93.2	95.00	7.0	1.6
	4	1500	250M/CI	1460	93.5	99.00	7.0	1.6

Al - Aluminium, CI - Cast Iron

0.50 HP & 0.75 HP - As per IS Standards

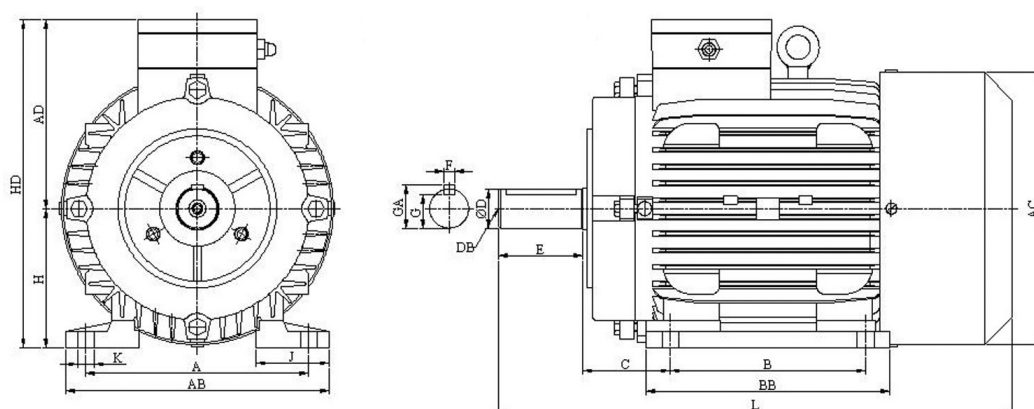
Performance Data : 3 Phase, 415V, 50 Hz, IE 3

Rated Output HP (kW)	No.of Poles	RPM (sync)	Frame Size/Const.	100% Load			Breakaway	
				RPM	Eff %	A	I rated	T rated
0.50 (0.37)	2	3000	71/AL	2790	75.5	1.20	7.0	1.7
	4	1500	71/AL	1330	73.0	1.40	6.5	1.7
	6	1000	80/AL	870	71.9	1.40	6.5	1.6
0.75 (0.55)	2	3000	71/AL	2760	78.1	1.60	7.0	1.7
	4	1500	80/AL	1340	78.0	1.70	6.5	1.7
	6	1000	80/AL	870	75.9	1.90	6.5	1.6
1.00 (0.75)	2	3000	80/AL	2780	80.7	2.00	7.0	1.7
	4	1500	80/AL	1360	82.5	2.20	6.5	1.7
	6	1000	90S/AL	890	78.9	2.30	6.5	1.6
1.50 (1.10)	2	3000	80/AL	2790	82.7	2.80	7.0	1.7
	4	1500	90S/AL	1370	84.1	2.90	6.5	1.7
	6	1000	90L/AL/CI	900	81.0	3.20	6.5	1.6
2.00 (1.50)	2	3000	90S/AL	2800	84.2	3.70	7.0	1.7
	4	1500	90L/AL/CI	1380	85.3	3.80	6.5	1.7
	6	1000	100L/AL/CI	900	82.5	4.00	6.5	1.6
3.00 (2.20)	2	3000	90L/AL/CI	2810	85.9	5.00	7.7	1.7
	4	1500	100L/AL/CI	1390	86.7	5.10	7.5	1.7
	6	1000	112M/AL/CI	910	84.3	5.50	7.5	1.5
5.00 (3.70)	2	3000	100L/AL/CI	2820	87.8	8.00	7.7	1.6
	4	1500	112M/AL/CI	1410	88.4	8.10	7.5	1.6
	6	1000	132S/AL/CI	920	86.5	8.80	7.5	1.5
7.50 (5.50)	2	3000	132S/AL/CI	2830	89.2	11.00	7.7	1.6
	4	1500	132S/AL/CI	1420	89.6	11.40	7.5	1.6
	6	1000	132M/AL/CI	920	88.0	12.70	7.5	1.5
10.00 (7.50)	2	3000	132S/AL/CI	2840	90.1	15.00	7.7	1.6
	4	1500	132M/AL/CI	1430	90.4	15.40	7.5	1.6
	6	1000	160M/AL/CI	930	89.1	16.70	7.5	1.5
12.50 (9.30)	2	3000	160M/AL/CI	2840	90.7	18.50	7.7	1.6
	4	1500	160M/AL/CI	1430	91.0	18.50	7.5	1.6
	6	1000	160L/AL/CI	930	89.7	20.50	7.5	1.4
15.00 (11.00)	2	3000	160M/AL/CI	2860	91.2	21.50	7.7	1.6
	4	1500	160M/AL/CI	1440	91.4	22.00	7.5	1.6
	6	1000	160L/AL/CI	935	90.3	23.00	7.5	1.4
20.00 (15.00)	2	3000	160M/AL/CI	2870	91.9	29.00	7.7	1.6
	4	1500	160M/AL/CI	1440	92.1	30.00	7.5	1.6
	6	1000	180L/AL/CI	940	91.2	30.50	7.5	1.4
25.00 (18.50)	2	3000	160L/AL/CI	2880	92.4	35.00	7.7	1.6
	4	1500	180M/AL/CI	1440	92.6	36.00	7.5	1.6
	6	1000	200L/CI	940	91.7	37.50	7.5	1.4
30.00 (22.00)	2	3000	180M/AL/CI	2890	92.7	41.50	7.7	1.6
	4	1500	180L/AL/CI	1440	93.0	43.00	7.5	1.6
	6	1000	200L/CI	945	92.2	44.00	7.5	1.4
40.00 (30.00)	2	3000	200L/CI	2900	93.3	54.00	7.7	1.6
	4	1500	200L/CI	1450	93.8	56.00	7.5	1.6
	6	1000	225M/CI	945	92.9	59.00	7.5	1.4
50.00 (37.20)	2	3000	200L/CI	2900	93.7	67.00	7.7	1.6
	4	1500	225S/CI	1450	93.9	69.00	7.5	1.6
	6	1000	250M/CI	950	93.3	72.00	7.5	1.4
60.00 (45.00)	2	3000	225M/CI	2955	94.0	80.00	7.7	1.6
	4	1500	225M/CI	1460	94.2	84.00	7.5	1.6
75.00 (55.00)	2	3000	250M/CI	2960	94.3	95.00	7.7	1.6
	4	1500	250M/CI	1460	94.6	99.00	7.5	1.6

Al - Aluminium, CI - Cast Iron

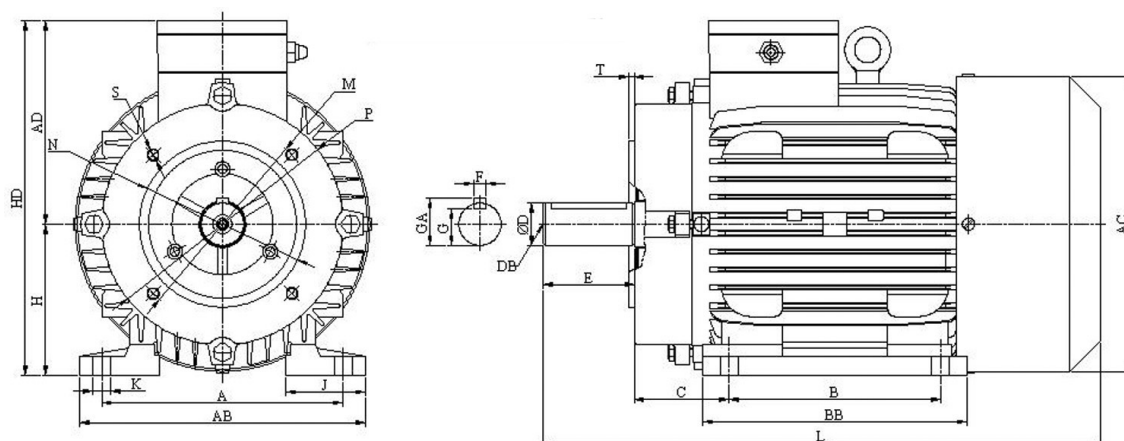
0.50 HP & 0.75 HP - As per IS Standards

Dimensions : Foot Mounting (B3)



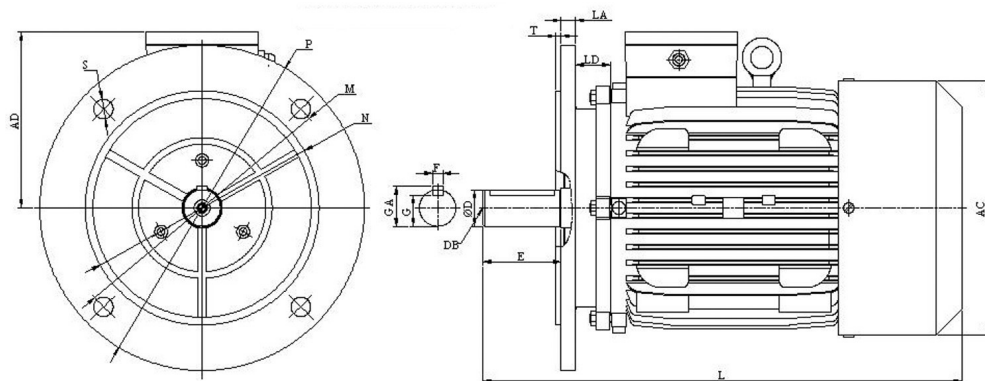
S.No.	Frame size	Mounting Dimensions													Overall Dimensions						
		A	B	C	D	E	F	G	GA	J	H	K	DB	AB	AC	BB	HD	AD	L		
1	63	100	80	40	11	23	4	8.5	12.5	27	63	7	M4	118	117	96	154	91	203.5		
2	71	112	90	45	14	30	5	11	16	29	71	7.5	M5	132	133.5	110	172	101	246		
3	80	125	100	50	19	40	6	15.5	21.5	28	80	15x10	M6	153	160	125	204	124	272		
4	90S	140	100	56	24	50	8	20	27	40	90	15x10	M8	170	178	125	216	126	316		
5	90L	140	125	56	24	50	8	20	27	46	90	10	M8	167.5	178	160	220	130	337		
6	100L	160	140	63	28	60	8	24	31	53	100	12	M10	189.5	195	175	235	135	369		
7	112M	190	140	70	28	60	8	24	31	61	112	12	M10	219.5	220	175	259	147	379		
8	132S	216	140	89	38	80	10	33	41	66	132	12	M12	245.5	260	180	314	182	480		
9	132M	216	178	89	38	80	10	33	41	66	132	12	M12	245.5	260	216	314	182	480		
10	160M	254	210	108	42	110	12	37	45	74	160	15	M16	287.5	307	264	380	220	628		
11	160L	254	254	108	42	110	12	37	45	74	160	15	M16	287.5	307	304	380	220	628		
12	180M	279	241	121	48	110	14	42.5	51.5	70	180	15	M16	312.5	353	291	414	234	705		
13	180L	279	279	121	48	110	14	42.5	51.5	70	180	15	M16	312.5	353	329	414	234	705		
14	200L	318	305	133	55	110	16	49	59	88	200	19	M20	357.5	386	365	454	254	742		
15	225S 2 Pole	356	286	149	55	110	16	49	59	94	225	19	M20	395.5	435	346	502	277	778		
16	225S 4-6 Pole	356	286	149	60	140	18	53	64	94	225	19	M20	395.5	435	346	502	277	808		
17	225M	356	311	149	60	140	18	53	64	94	225	19	M20	395.5	435	371	502	277	808		
18	250M 2 Pole	406	349	168	60	140	18	53	64	90	250	24	M20	475	480	404	590	340	900		
19	250M 4-6 Pole	406	349	168	65	140	18	58	69	90	250	24	M20	475	480	404	590	340	900		

Dimensions : Foot & Face Mounting (B34)



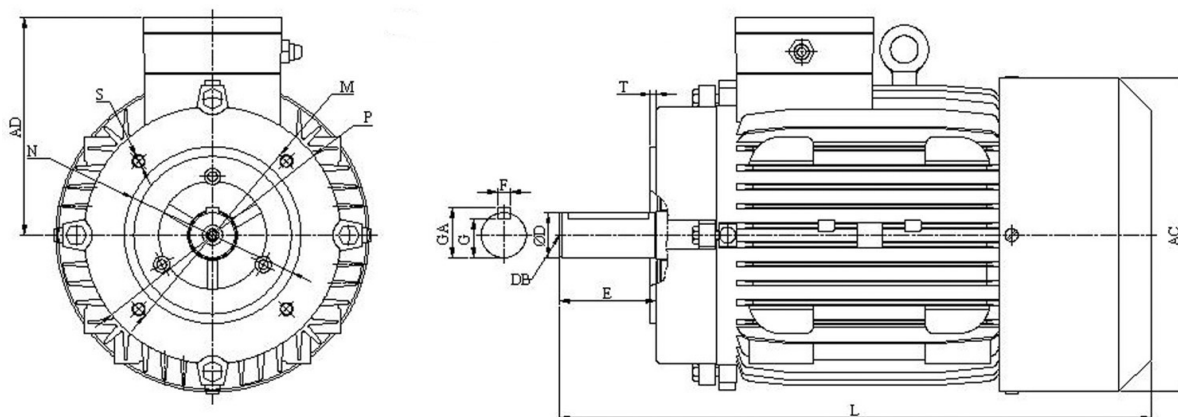
S.No.	Frame size	Mounting Dimensions																	Overall Dimensions						
		A	B	C	D	E	F	G	GA	M	N	P	S	No. of Holes	T	J	H	K	DB	AB	AC	BB	HD	AD	L
1	63	100	80	40	11	23	4	8.5	12.5	75	60	90	M5	4	2.5	27	63	7	M4	118	117	96	154	91	203.5
2	71	112	90	45	14	30	5	11	16	85	70	105	M6	4	2.5	29	71	7.5	M5	132	133.5	110	172	101	246
3	80	125	100	50	19	40	6	15.5	21.5	100	80	120	M6	4	3	28	80	15x10	M6	153	160	125	204	124	272
4	90S	140	100	56	24	50	8	20	27	115	95	140	M8	4	3	40	90	15x10	M8	170	178	125	216	126	316
5	90L	140	125	56	24	50	8	20	27	115	95	140	M8	4	3	46	90	10	M8	167.5	178	160	220	130	337
6	100L	160	140	63	28	60	8	24	31	130	110	160	M8	4	3.5	53	100	12	M10	189.5	195	175	235	135	369
7	112M	190	140	70	28	60	8	24	31	130	110	160	M8	4	3.5	61	112	12	M10	219.5	220	175	259	147	379
8	132S	216	140	89	38	80	10	33	41	165	130	200	M10	4	3.5	66	132	12	M12	245.5	260	180	314	182	480
9	132M	216	178	89	38	80	10	33	41	165	130	200	M10	4	3.5	66	132	12	M12	245.5	260	216	314	182	480

Dimensions : Flange Mounting (B5)



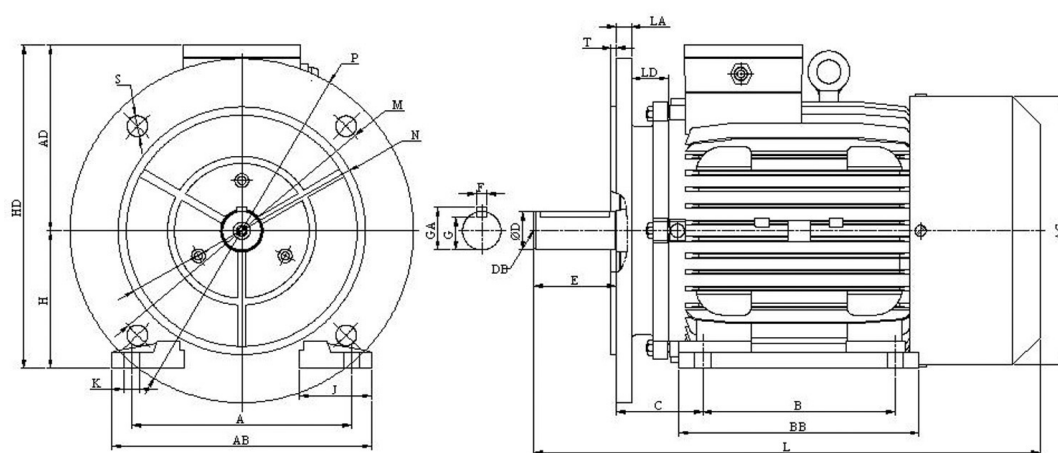
S.No.	Frame size	Mounting Dimensions														Overall Dimensions		
		D	E	F	G	GA	M	N	P	S	No. of Holes	T	LA	LD	DB	AC	AD	L
1	63	11	23	4	8.5	12.5	115	95	140	10	4	3	10	16	M4	117	91	203.5
2	71	14	30	5	11	16	130	110	160	10	4	3.5	10	16	M5	133.5	101	246
3	80	19	40	6	15.5	21.5	165	130	200	12	4	3.5	10	21	M6	160	124	272
4	90S	24	50	8	20	27	165	130	200	12	4	3.5	10	24	M8	178	126	316
5	90L	24	50	8	20	27	165	130	200	12	4	4	10	24	M8	178	130	337
6	100L	28	60	8	24	31	215	180	250	15	4	4	11	27	M10	195	135	369
7	112M	28	60	8	24	31	215	180	250	15	4	4	11	29	M10	220	147	379
8	132S	38	80	10	33	41	265	230	300	15	4	4	12	36	M12	260	182	480
9	132M	38	80	10	33	41	265	230	300	15	4	4	12	36	M12	260	182	480
10	160M	42	110	12	37	45	300	250	350	19	4	5	13	49	M16	307	220	628
11	160L	42	110	12	37	45	300	250	350	19	4	5	13	49	M16	307	220	628
12	180M	48	110	14	42.5	51.5	300	250	350	19	4	5	13	52	M16	353	234	705
13	180L	48	110	14	42.5	51.5	300	250	350	19	4	5	13	52	M16	353	234	705
14	200L	55	110	16	49	59	350	300	400	19	4	5	15	65	M20	386	254	742
15	225S 2Pole	55	110	16	49	59	400	350	450	19	8	5	16	81	M20	435	277	778
16	225S 4Pole	60	140	18	53	64	400	350	450	19	8	5	16	81	M20	435	277	808
17	225S 6Pole	60	140	18	53	64	400	350	450	19	8	5	16	81	M20	435	277	808
18	225M	60	140	18	53	64	400	350	450	19	8	5	16	81	M20	435	277	808

Dimensions : Face Mounting (B14)



S.No.	Frame size	Mounting Dimensions												Overall Dimensions		
		D	E	F	G	GA	M	N	P	S	No. of Holes	T	DB	AC	AD	L
1	63	11	23	4	8.5	12.5	75	60	90	M5	4	2.5	M4	117	91	203.5
2	71	14	30	5	11	16	85	70	105	M6	4	2.5	M5	133.5	101	246
3	80	19	40	6	15.5	21.5	100	80	120	M6	4	3	M6	160	124	272
4	90S	24	50	8	20	27	115	95	140	M8	4	3	M8	178	126	316
5	90L	24	50	8	20	27	115	95	140	M8	4	3	M8	178	130	337
6	100L	28	60	8	24	31	130	110	160	M8	4	3.5	M10	195	135	369
7	112M	28	60	8	24	31	130	110	160	M8	4	3.5	M10	220	147	379
8	132S	38	80	10	33	41	165	130	200	M10	4	3.5	M12	260	182	480
9	132M	38	80	10	33	41	165	130	200	M10	4	3.5	M12	260	182	480

Dimensions : Foot & Flange Mounting (B35)

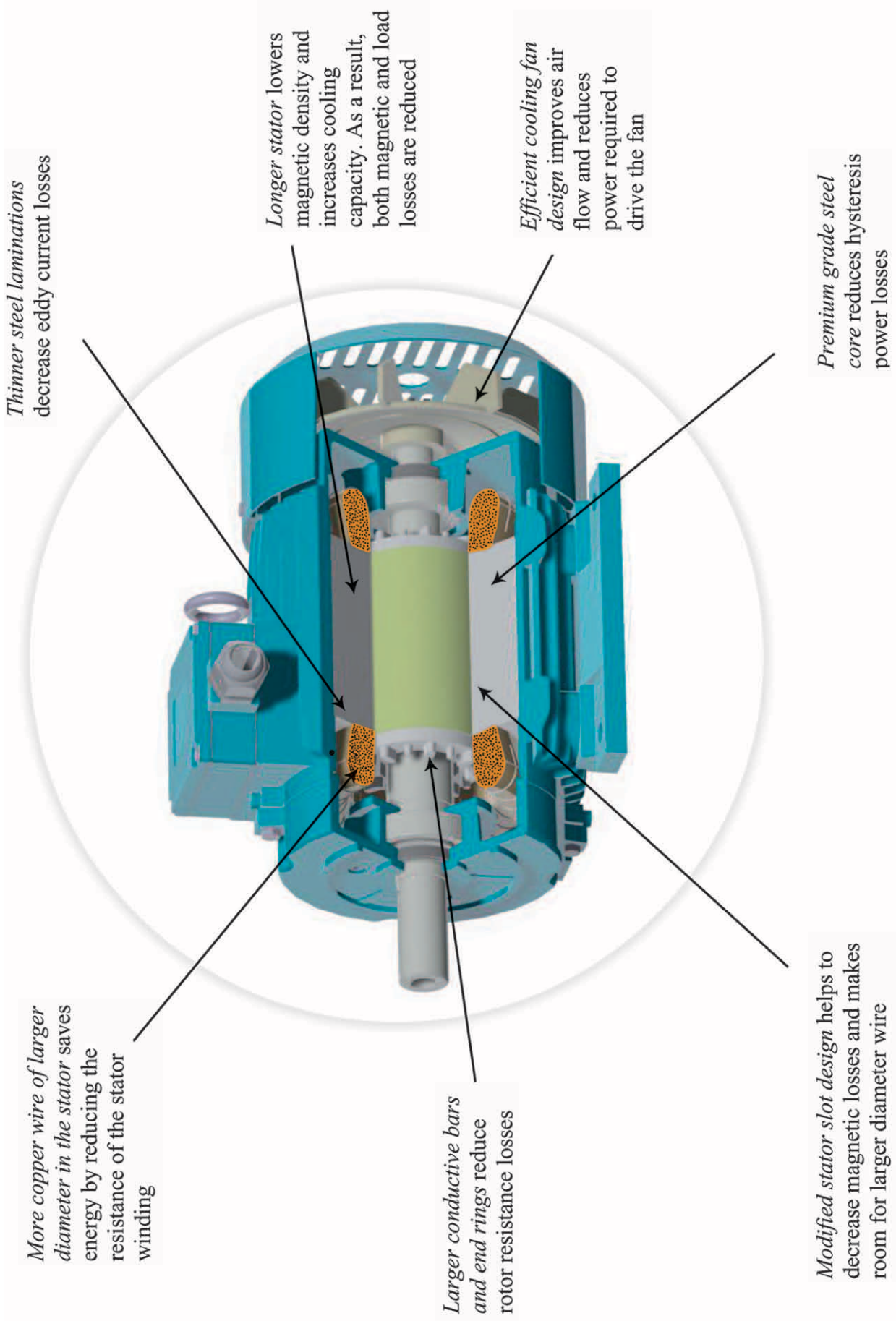


S.No	Frame size	Mounting Dimensions																			Overall Dimensions						
		A	B	C	D	E	F	G	GA	M	N	P	S	No. of Holes	T	LA	LD	J	H	K	DB	AB	AC	BB	HD	AD	L
1	63	100	80	40	11	23	4	8.5	12.5	115	95	140	10	4	3	10	16	27	63	7	M4	118	117	96	154	91	203.5
2	71	112	90	45	14	30	5	11	16	130	110	160	10	4	3.5	10	16	29	71	7.5	M5	132	133.5	110	172	101	246
3	80	125	100	50	19	40	6	15.5	21.5	165	130	200	12	4	3.5	10	21	28	80	15x10	M6	153	160	125	204	124	272
4	90S	140	100	56	24	50	8	20	27	165	130	200	12	4	3.5	10	24	40	90	15x10	M8	170	178	125	216	126	316
5	90L	140	125	56	24	50	8	20	27	165	130	200	12	4	4	10	24	46	90	10	M8	167.5	178	160	220	130	337
6	100L	160	140	63	28	60	8	24	31	215	180	250	15	4	4	11	27	53	100	12	M10	189.5	195	175	235	135	369
7	112M	190	140	70	28	60	8	24	31	215	180	250	15	4	4	11	29	61	112	12	M10	219.5	220	175	259	147	379
8	132S	216	140	89	38	80	10	33	41	265	230	300	15	4	4	12	36	66	132	12	M12	245.5	260	180	314	182	480
9	132M	216	178	89	38	80	10	33	41	265	230	300	15	4	4	12	36	66	132	12	M12	245.5	260	216	314	182	480
10	160M	254	210	108	42	110	12	37	45	300	250	350	19	4	5	13	49	74	160	15	M16	287.5	307	264	380	220	628
11	160L	254	254	108	42	110	12	37	45	300	250	350	19	4	5	13	49	74	160	15	M16	287.5	307	304	380	220	628
12	180M	279	241	121	48	110	14	42.5	51.5	300	250	350	19	4	5	13	52	70	180	15	M16	312.5	353	291	414	234	705
13	180L	279	279	121	48	110	14	42.5	51.5	300	250	350	19	4	5	13	52	70	180	15	M16	312.5	353	329	414	234	705
14	200L	318	305	133	55	110	16	49	59	350	300	400	19	4	5	15	65	88	200	19	M20	357.5	386	365	454	254	742
15	225S 2Pole	356	286	149	55	110	16	49	59	400	350	450	19	8	5	16	81	94	225	19	M20	395.5	435	346	502	277	778
16	225S 4Pole	356	286	149	60	140	18	53	64	400	350	450	19	8	5	16	81	94	225	19	M20	395.5	435	346	502	277	808
17	225S 6Pole	356	286	149	60	140	18	53	64	400	350	450	19	8	5	16	81	94	225	19	M20	395.5	435	346	502	277	808
18	225M	356	311	149	60	140	18	53	64	400	350	450	19	8	5	16	81	94	225	19	M20	395.5	435	371	502	277	808

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