POWERTEK EQUIPMENT CO.

Helical Gear Reducers • Helical Geared Motors • Ground Gears

Our Products

FH Series Hoist Gear Boxes

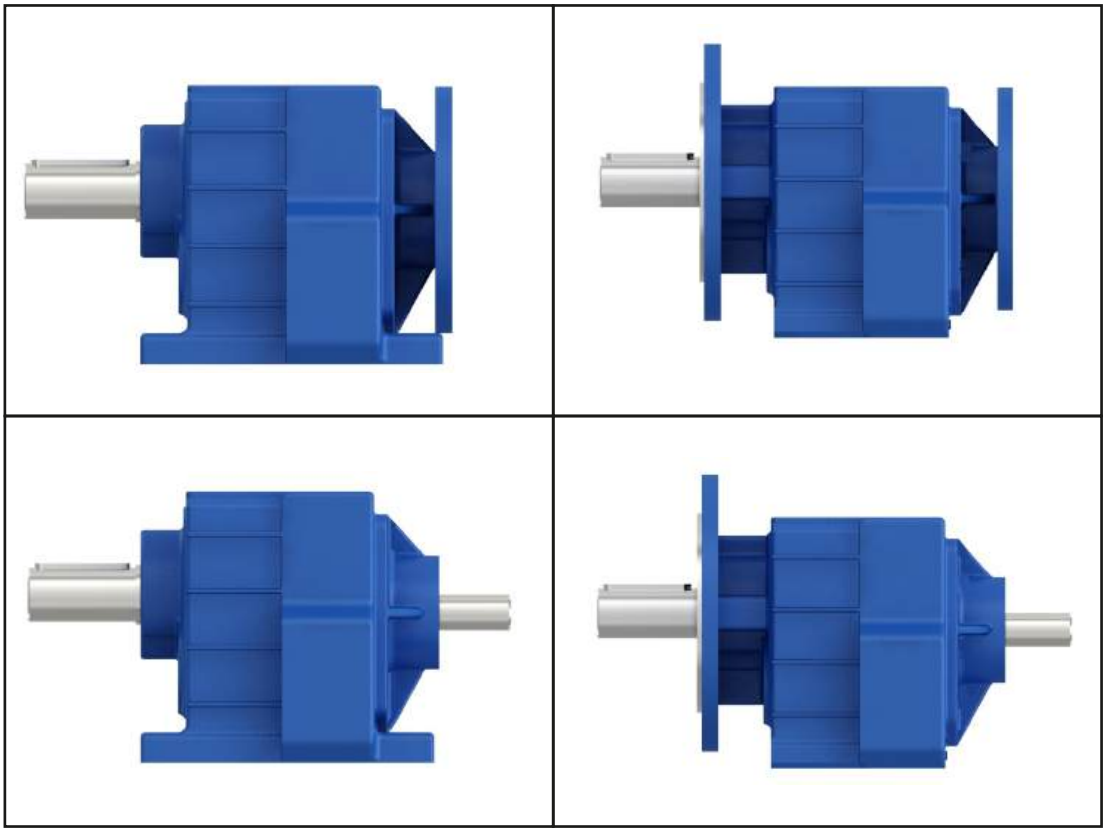
K Series Bevel Helical Gear Boxes

Planetary Gear Boxes

121-Centura Square-- opp. Lanxess House
Road no 27 Wagle Industrial Estate Thane (West) Maharashtra 400604 , India .
What's app : +91- 9004005888 CELL NO +91- 9320193114

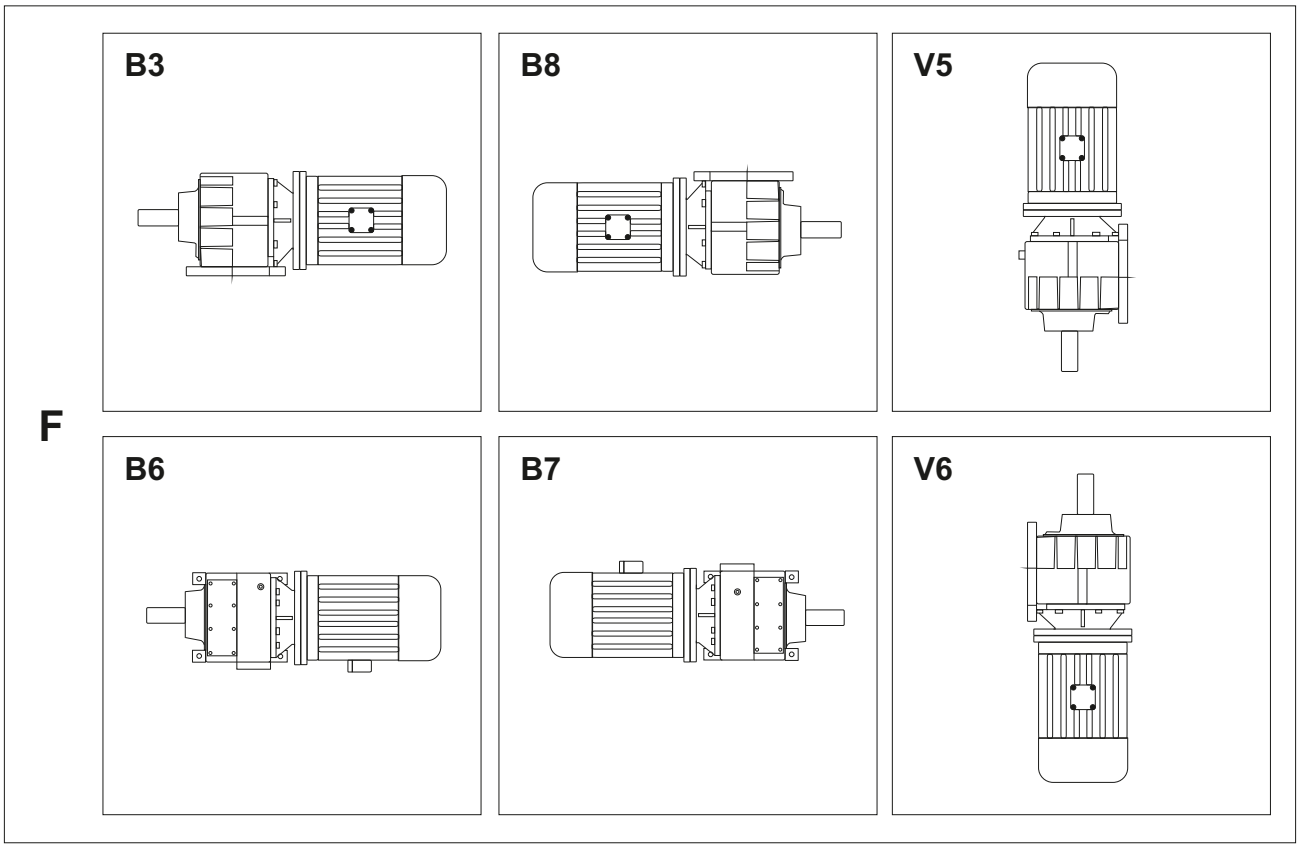
Website:- www.powertekindia.com
E-mail :- powertekmumbai@gmail.com

H SERIES INLINE HELICAL

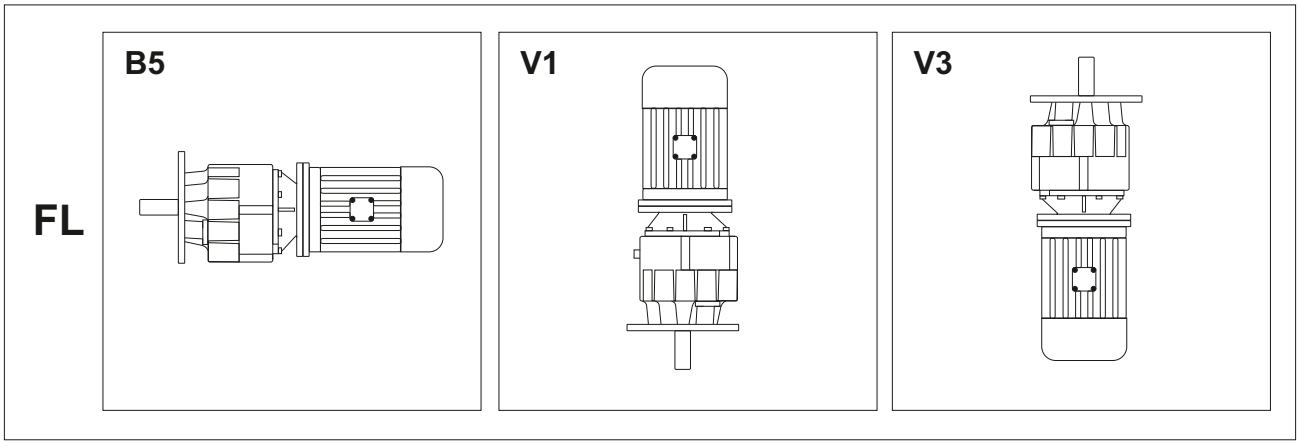


4.4. Mounting Position

Foot Mounted Gear Unit



Flange Mounted Gear Unit



MECHANICAL POWER TRANSMISSION EQUIPMENTS
HELICAL GEARED MOTORS / GEAR BOXES

GENERAL FEATURES

Our Geared Motors are manufactured with output ranging from 0.16 HP to 30 HP capacity and output RPM ranging from 15 RPM to 400 RPM. Units available in standard as well as "Custom Built" in horizontal foot and flange mounted type construction. Low RPM geared motors are also offered on request.

All parts/components are throughly inspected during and after manufacturing process. Quality grade materials procurement, sturdiness, rigid enclosed and oil-tight construction of housing to withstand with the application in the working and for easy maintenance.

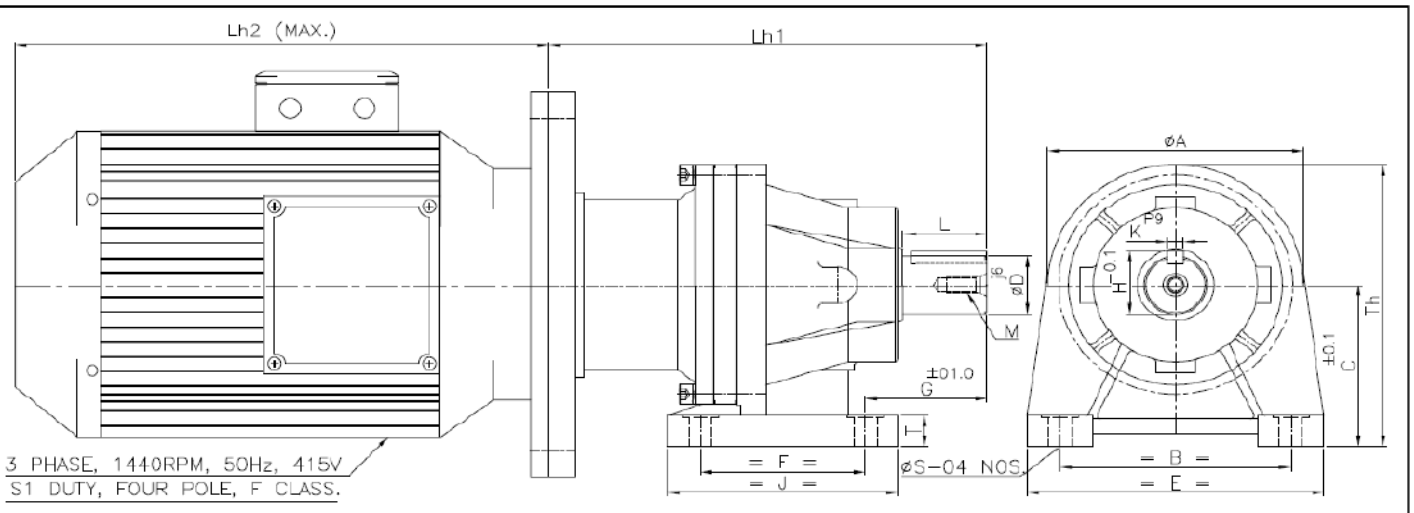
Our Helical Geared Motors are suitable for various application to meet requirement of different industries.

SPECIAL FEATURES : GEARED MOTORS

We supply geared motors as per customer's specific requirements such as Dual speed, Electromagnetic Brake Geared Motor, Flame Proof, High Torque Characteristics, Frequent start/stop operations, Agitator duty units.

The table shows the maximum uniform power and torque that may be transmitted continuously for 8 to 10 hours per day. It is based on wear and strength of the gearing and the working life and antifriction bearings. The ratings are based on a service factor of 1.00. This factor does however only effect the gear size but not motor size and rated capacity combining different gear boxes with the motor size provides a higher safety factors.

H.P / RPM	15	20	25	30	40	50	62	84	102	125	150	192	280	315
0.25 TORQUE in kg.mt		P2-71 8	P1-71 6.5	P1-63 5	P1-63 3.5	P1-63 2	P1-63 2	P1-63 1.8	P1-63 1.6	P1-63 1.3	P1-63 1.08	P1-63 0.8	P1-63 0.6	P1-63 0.52
0.5	P3-90 22	P3-80 16	P3-80 12	P2-71 10	P2-71 8	P2-71 6.5	P1-71 5.2	P1-71 5.2	P1-71 3.8	P1-71 3	P1-71 2.5	P1-71 1.7	P1-71 1.2	P1-71 1
0.75	P4-90 32	P3-90 24	P3-90 18	P3-80 16	P3-80 12	P3-80 10	P2-80 7.8	P2-80 5.8	P2-80 4.5	P2-80 3.8	P2-80 3.2	P2-80 2.5	P2-80 2.3	P2-80 2
1	P4-100 44	P4-90 33	P4-90 25	P3-80 22	P3-80 16	P3-80 12.5	P3-80 10.5	P2-80 7.5	P2-80 6	P2-80 5	P2-80 4.3	P2-80 3.4	P2-80 2.3	P2-80 2
1.5	P4-100 65	P4-90 48	P4-90 38	P4-90 32	P3-90 24	P3-90 19.5	P3-90 15	P3-90 11.5	P3-90 9	P3-90 7.5	P3-90 6	P3-90 5	P3-90 3.5	P3-90 3
2	P5-112 86	P5-100 64.5	P4-100 52	P4-90 43	P4-90 32.5	P3-90 26	P3-90 20	P3-90 15	P3-90 12.5	P3-90 10	P3-90 8.5	P3-90 6.5	P3-90 4.5	P3-90 4
3	P6-132 128	P5-112 97	P5-112 77	P5-100 64	P4-100 48.5	P4-100 38	P4-100 31	P4-100 23	P4-100 19	P4-100 15.5	P3-100 12.5	P3-100 10	P3-100 7	P3-100 6
5	P6-160 205	P5-132 162	P5-132 130	P5-112 108	P5-112 80	P5-112 64	P5-112 52	P5-112 38	P5-112 31.5	P4-112 25	P4-112 21	P4-112 16.5	P3-112 11.5	P3-112 10
7.5	P7-160 320	P6-132 240	P6-132 184	P6-132 160	P6-132 120	P5-132 97	P5-132 78	P5-132 57	P5-132 47	P5-132 38.5	P4-132 32	P4-132 25	P4-132 18	P4-132 15
10.00			P7-160 250	P6-132 219	P6-132 164	P5-132 125	P5-132 109	P5-132 80	P5-132 68	P5-132 58	P5-132 48	P4-132 38	P4-132 26	P4-132 23
15.00					P7-160 267	P6-160 200	P6-160 170	P6-160 125	P6-160 105	P6-160 80	P6-160 70	P6-160 50	P6-160 37	P6-160 31
20.00					P7-160 365	P7-160 280	P7-160 220	P6-160 155	P6-160 130	P6-160 105	P6-160 87	P6-160 64	P6-160 46	P6-160 42
25.00					P7-180 434	P7-180 330	P7-180 290	P7-180 188	P7-180 157	P6-180 130	P6-180 105	P6-180 78	P6-180 57	P6-180 52
30.00					P8-180 530	P8-180 410	P8-180 321	P8-180 250	P7-180 215	P7-180 171	P7-180 140	P7-180 105	P7-180 77	P7-180 62



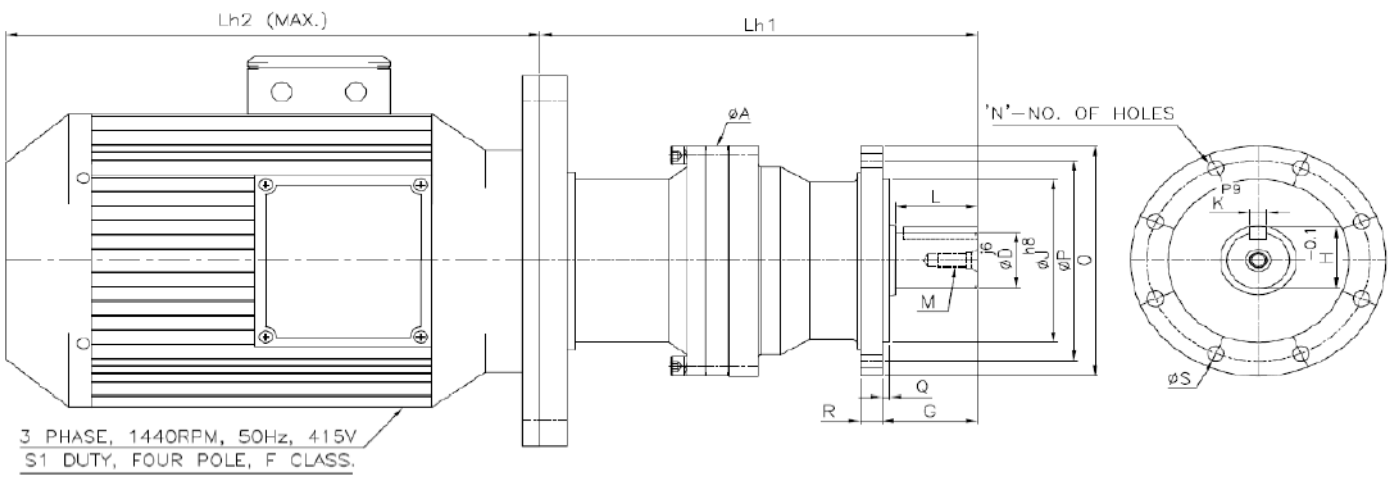
DIMENSIONS OF HECAL GEARED MOTOR FOOT MOUNTED

MODEL	OUTPUT SHAFT					FOOT MOUNTING									OTHERS	
	D j6	L	H	K p9	M	B	E	T	C	F	J	G	S	Th	A	Lh1
P1-63	19	30	21.5	6	M6	95	120	14	80	75	100	45	9	127.5	95	183
P2-71X	24	38	27.0	8	M6	110	140	16	90	85	115	55	11	145	110	220
P2-71	28	40	31.0	8	M8	120	160	18	100	90	130	60	12	167.5	135	265
P2-80	28	40	31.0	8	M8	120	160	18	100	90	130	60	12	167.5	135	275
P4-90	38	50	41.0	10	M10	140	180	20	105	100	140	73	14	182.5	155	300
P5-100	50	75	53.5	14	M12	180	220	22	120	110	160	98	14	212.5	185	380
P5-132	60	90	64.0	18	M16	210	270	26	150	140	190	118	18	267.5	235	440
P6-132	70	90	74.5	20	M16	240	290	28	160	160	210	118	18	292.5	265	560
P7-132	80	110	85.5	22	M16	270	330	30	170	170	230	143	18	315	290	610
P1-71	19	30	21.5	6	M6	95	120	14	80	75	100	45	9	127.5	95	240
P2-80X	24	38	27.0	8	M6	110	140	16	90	85	115	55	11	145	110	250
P3-80	28	40	31.0	8	M8	120	160	18	100	90	130	60	12	167.5	135	260
P3-90	28	40	31.0	8	M8	120	160	18	100	90	130	60	12	167.5	135	260
P4-100	38	50	41.0	10	M10	140	180	20	105	100	140	73	14	182.5	155	340
P4-112	38	50	41.0	10	M10	140	180	20	105	100	140	73	14	182.5	155	340
P5-112	50	75	53.5	14	M12	180	220	22	120	110	160	98	14	212.5	185	425
P6-160	70	90	74.5	20	M16	240	290	28	160	160	210	118	18	292.5	265	560
P7-160	80	110	85.5	22	M16	270	330	30	170	170	230	143	18	315	290	610

MOTOR 1440 RPM		
F.S.	H.P.	Lh2
71	0.5	210
80	0.75/1.0	262
90	1.5/2.0	324
100	3.0	325
112	5.0	373
132	7.5/10.0	428
160	12.5/15.0/20.0	523

ALL DIMENSIONS
ARE IN MM

ALL DIMENSIONS ARE IN MM.



DIMENSIONS OF HELICAL GEARED MOTOR FLANGE MOUNTED

MODEL	OUTPUT SHAFT					FLANGE MOUNTING								OTHERS	
	D j6	L	H	K p9	M	J	O	Q	R	P	G	S	N	A	Lh1
P1-63	19	30	21.5	6	M6	60	95	3	10	80	35	9	4	95	183
P2-71X	24	38	27.0	8	M6	80	120	3	11	100	43	11	4	110	**220**
P2-71	28	40	31.0	8	M8	90	140	4	12	120	47	11	4	135	236
P4-90	38	50	41.0	10	M10	110	155	5	13	135	58	10	8	155	265
P5-100	50	75	53.5	14	M12	130	185	8	15	165	86	12	8	185	325
P5-132	60	90	64.0	18	M16	160	235	10	18	200	103	14	8	235	397
P6-132	70	90	74.5	20	M16	180	260	10	20	225	103	14	8	265	425
P7-160	80	110	85.5	22	M16	200	290	10	23	250	123	14	8	290	459
P8-160	90	120	95	25	M16	210	310	10	22	260	143.5	14	12	315	516

MODEL	OUTPUT SHAFT					FLANGE MOUNTING								OTHERS	
	D j6	L	H	K p9	M	J	O	Q	R	P	G	S	N	A	Lh1
P1-71	19	30	21.5	6	M6	60	95	3	10	80	35	9	4	95	240
P2-80X	24	38	27.0	8	M6	80	120	3	11	100	43	11	4	110	**250**
P2-80	28	40	31.0	8	M8	90	140	4	12	120	47	11	4	135	270
P4-112	38	50	41.0	10	M10	110	155	5	13	135	58	10	8	155	340
P5-112	50	75	53.5	14	M12	130	185	8	15	165	86	12	8	185	400
P6-132	70	90	74.5	20	M16	180	260	10	20	225	103	14	8	265	510
P7-132	80	110	85.5	22	M16	200	290	10	23	250	123	14	8	290	580

MODEL	OUTPUT SHAFT					FLANGE MOUNTING								OTHERS	
	D j6	L	H	K p9	M	J	O	Q	R	P	G	S	N	A	Lh1
P3-90	28	40	31.0	8	M8	90	140	4	12	120	47	11	4	135	276
P6-160	70	90	74.5	20	M16	180	260	10	20	225	103	14	8	265	526
P9-180	90	120	95	25	M16	210	310	10	22	260	143.5	14	12	315	630

MOTOR 1440 RPM		
F.S.	H.P.	Lh2
71	0.5	210
90	1.5/2.0	324
100	3.0	325
112	5.0	373
160	2.5/15.0/20	523
180	25.0/30.0	583
200	40.0	650

ALL DIMENSIONS
ARE IN MM

IE2

TECHNICAL DETAILS

General performance cast iron motors
Technical data for totally enclosed squirrel cage three phase motors

3000 RPM

Output kW	Frame Size	Speed RPM	Effciency			Power factor cosø	Current		Torque			Moment of inertia J=1/4GD² (Kgm²)	Weigh kg
			Full load 100%	3/4 load 75%	1/2 load 50%		I_n, A	I_s / I_n	T_{nl} / Nm	T_l / T_n	T_s / T_n		
0.37	71	2660	72.2	72.2	72.0	0.8	0.92	3.9	1.3	2.2	2.3	0.00039	11
0.55	71	2680	74.8	74.8	74.0	0.85	1.2	4.3	2	2.4	2.5	0.00051	11
0.75	80	2895	77.4	77.4	73.0	0.74	1.8	6.5	2.5	2.4	4.2	0.001	16
1.1	80	2870	79.6	79.6	78.0	0.80	2.4	6.5	3.7	2.7	3.5	0.0012	18
1.5	90	2900	81.3	81.3	79.9	0.86	3.0	6.5	4.9	2.5	2.6	0.00254	24
2.2	90	2885	83.2	83.2	82.2	0.87	4.2	7.0	7.3	1.9	2.5	0.0028	25
3.7	100	2905	85.5	85.5	85.0	0.86	7.0	7.0	12.2	2.9	3.2	0.00575	37
5.5	132	2865	87.0	87.0	85.8	0.86	10.2	7.0	18.3	2.0	2.7	0.01275	68
7.5	132	2890	88.1	88.1	86.3	0.84	14.1	7.0	24.8	2.0	3.6	0.01359	70
11	160	2925	89.4	89.7	88.2	0.88	19.6	7.0	36	2.4	3.0	0.0415	105
15	160	2930	90.3	90.7	90.0	0.90	25.9	7.0	49	2.4	3.0	0.0544	120
18.5	160	2934	90.9	91.2	90.4	0.90	31.7	7.0	60	2.6	3.1	0.0581	131
22	180	2936	91.3	91.7	91.0	0.91	37.3	7.0	72	3.0	3.5	0.0679	152
30	200	2940	92.0	92.4	91.5	0.90	50.7	7.0	97	2.5	3.2	0.1077	198
37	200	2950	92.5	92.8	91.7	0.89	62.9	7.0	120	3.0	3.8	0.1332	232
45	225	2956	92.9	92.6	92.0	0.90	75.7	7.0	145	2.4	3.2	0.2443	295
55	250	2960	93.2	93.8	92.8	0.90	91.7	7.0	177	2.6	3.0	0.3160	344
75	280	2970	93.8	93.8	92.8	0.92	121	7.0	241	2.3	2.7	1.025	690
90	280	2970	94.1	94.1	93.1	0.92	145	7.0	289	2.3	2.5	1.2	685

1500 RPM

Output kW	Frame Size	Speed RPM	Effciency			Power factor cosø	Current		Torque			Moment of inertia J=1/4GD² (Kgm²)	Weigh kg
			Full load 100%	3/4 load 75%	1/2 load 50%		I_n, A	I_s / I_n	T_{nl} / Nm	T_l / T_n	T_s / T_n		
0.37	71	1380	70.1	70.1	68.7	0.83	0.9	4	2.6	1.6	2.1	0.00088	11
0.55	80	1415	75.1	75.1	71.4	0.73	1.4	5	3.7	2	2.8	0.00144	15
0.75	80	1430	79.6	79.6	76.2	0.73	1.8	6	5	2.7	3.2	0.00205	17
1.1	90	1435	81.4	81.4	80.9	0.8	2.4	6	7.3	2.7	3.4	0.0044	25
1.5	90	1430	82.8	82.8	81	0.83	3	6	10	2.5	3	0.00538	27
2.2	100	1450	84.3	84.3	82.6	0.78	4.7	7	14.5	2.9	3.6	0.00948	36
3.7	112	1440	86.3	86.3	85.9	0.81	7.4	7	24.5	2.5	2.9	0.0125	44
5.5	132	1460	87.7	87.7	86.8	0.8	10.9	7	36	1.8	2.4	0.03282	70
7.5	132	1450	88.7	88.7	86	0.81	14.5	7	49.4	1.6	2.4	0.03659	73
9.3	160	1460	89.3	89.8	88	0.84	17.4	7	61	2.3	2.9	0.0738	107
11	160	1463	89.8	90.4	89.4	0.85	20.2	7	72	2.3	2.9	0.084	115
15	160	1463	90.6	91.2	90.2	0.84	27.6	7	98	2.5	3.1	0.1025	134
18.5	180	1464	91.2	91.8	90.9	0.84	33.8	7	121	2.9	3.5	0.1217	155
22	180	1465	91.6	92.1	91.2	0.83	40.5	7	143	2.5	3.2	0.1396	171
30	200	1474	92.3	92.5	91.8	0.84	54.1	7	194	2.7	3.5	0.2572	229
37	225	1478	92.7	93.1	92.2	0.85	65.7	6.5	239	2.3	2.7	0.3605	267
45	225	1478	93.1	93.5	92.6	0.84	80.5	7	291	2.4	2.9	0.4314	304
55	250	1478	93.5	93.7	92.9	0.85	96.8	7	355	2.7	3	0.5331	342
75	280	1478	94	94	93	0.87	128	7	485	2.4	2.7	1.11	670
90	280	1479	94.2	94.2	93.2	0.85	156	7	581	2.6	2.8	1.425	730

IE3

TECHNICAL DETAILS

General performance Ie3 efficiency cast iron motors
Technical data for totally enclosed squirrel cage three phase motors

1500 RPM

Output kW	Frame Size	Speed RPM	Effciency			Power factor cosø	Current		Torque			Moment of inertia J=1/4GD² (Kgm²)	Weigh kg
			Full load 100%	3/4 load 75%	1/2 load 50%		I_n, A	I_s / I_n	T_{nl} / Nm	T_l / T_n	T_s / T_n		
0.37	71	1435	73	69.8	62.7	0.65	1.08	4.6	2.5	2.7	3	0.00082	10
0.55	80	1430	78	77.4	73.8	0.72	1.36	5.3	3.7	2.7	2.8	0.00195	15
0.75	80	1445	82.5	81.1	77.1	0.7	1.81	4.5	5	3.5	3.9	0.00309	20
1.1	90	1435	84.1	83.7	81	0.73	2.5	5.5	7.4	3.3	3.7	0.00397	22
1.5	90	1431	85.3	85.2	82.9	0.75	3.3	6	10.1	3.5	3.9	0.00486	25
2.2	100	1450	86.7	86.9	85.1	0.76	4.6	6.8	14.5	3.1	3.7	0.00919	34
3.7	112	1455	88.4	88.5	87	0.77	7.6	7	24.4	3.5	3.9	0.0154	50
5.5	132	1464	89.6	90.6	89.2	0.8	10.7	6.3	36.1	2.2	3	0.0351	72
7.5	132	1467	90.4	90.9	90.3	0.8	14.4	3.1	49.2	2.2	3.5	0.0411	84
9.3	160	1475	91	90.9	89.5	0.79	18.2	7.5	60	3	4	0.105	130
11	160	1475	91.4	91.5	90.5	0.8	21.2	7.5	71	2.9	3.8	0.11	134
15	160	1475	92.1	92.2	91.3	0.8	28.8	7.5	96.9	3	3.9	0.135	159
18.5	160	1479	92.6	93	92.5	0.82	34	7.5	119.2	2.8	3.3	0.219	192
22	180	1479	93	93.5	93	0.82	40.7	7.5	141.8	3	3.5	0.243	205
30	200	1482	93.6	93.8	93.2	0.83	53.4	7.5	192.9	3	3.3	0.385	259
37	225	1482	93.9	94.2	93.8	0.83	68.1	6.8	238.3	2.9	3.2	0.427	274
45	225	1482	94.2	94.6	94.3	0.83	81.6	6.8	290	2.7	3.1	0.525	307
55	250	1482	94.6	94.7	94.1	0.84	98.5	7	354.2	3	3.4	0.694	358
75	280	1478	95	95	94	0.85	129	7.7	485	2.6	2.8	1.495	690
90	280	1479	95.2	95.2	94.2	0.85	155	7.7	581	2.6	2.8	1.725	750

1000 RPM

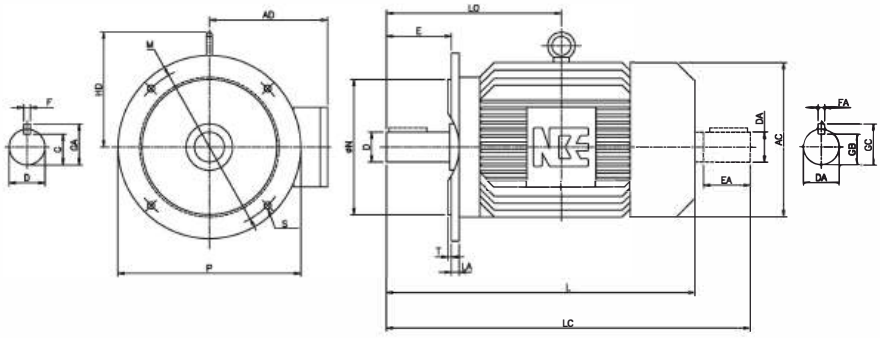
Output kW	Frame Size	Speed RPM	Effciency			Power factor cosø	Current		Torque			Moment of inertia J=1/4GD² (Kgm²)	Weigh kg
			Full load 100%	3/4 load 75%	1/2 load 50%		I_n, A	I_s / I_n	T_{nl} / Nm	T_l / T_n	T_s / T_n		
0.37	80	931	71.9	70.6	65.6	0.65	1.1	3.9	3.8	2.5	2.8	0.0022	15
0.55	80	941	75.9	74.9	70.4	0.64	1.58	4.4	5.6	3.1	3.3	0.00349	19
0.75	90	948	78.9	77.5	73.2	0.62	2.1	3.9	7.6	2.5	3	0.00487	25
1.1	90	951	81	79.7	75.4	0.62	3	3.1	11.2	3.3	3.6	0.00676	30
1.5	100	954	82.5	82.6	80.2	0.67	3.8	4.1	15.2	2.2	2.4	0.00994	37
2.2	112	957	84.3	84.4	82.5	0.67	5.4	4.6	22.2	2.1	2.7	0.0139	47
3.7	132	967	86.5	87	86	0.69	8.6	4.7	37	1.6	2.7	0.0354	72
5.5	132	970	88	88.3	87.3	0.69	12.6	4.7	54.7	1.6	2.8	0.0533	97
7.5	160	972	89.1	90.2	90	0.75	15.7	6.5	73.3	2.1	3.1	0.089	119
9.3	160	977	89.8	90.3	89.7	0.75	20.3	6	90.7	2	3.1	0.128	153
11	160	977	90.3	91	90.7	0.74	22.9	6	107.5	1.8	2.8	0.138	160
15	160	979	91.2	91.6	91	0.77	30.3	5	146.2	1.5	2.6	0.212	190
18.5	200	988	91.7	91.8	90.9	0.81	34.5	7	178.6	2.4	3.1	0.196	238
22	200	989	92.2	92.2	91.1	0.81	41.6	7.5	212.2	2.6	3.6	0.585	263
30	225	989	92.9	93	92	0.78	59.2	7	290.3	2.6	3.4	0.724	285
37	250	990	93.3	93.7	93.4	0.82	68	6	356.6	2.3	2.5	1.3	379
45	280	988	93.7	93.7	91.7	0.84	80	7.7	435	2.3	2.6	2.3	655
55	280	988	94.1	94.1	92.1	0.84	97	7.7	532	2.5	2.6	2.45	680
75	315	989	94.6	94.6	92.6	0.84	131	7.7	724	2.5	2.6	4.725	925
90	315	990	94.9	94.9	92.9	0.84	157	7.7	868	2.5	2.8	5.425	1010

Efficiency values are given according to IEC 60034-2-1;2007.
Please note that the values are not comparable without knowing the testing method.
New Bharat has calculated the efficiency values according to indirect method, stray load losses (additional losses) determined from measuring. IE-class concerns motors from 0.37 kW to 90 kW

I_s / I_n = Starting current
T_l / T_n = Locked rotor torque
T_b / T_n = Breakdown torque

B-5

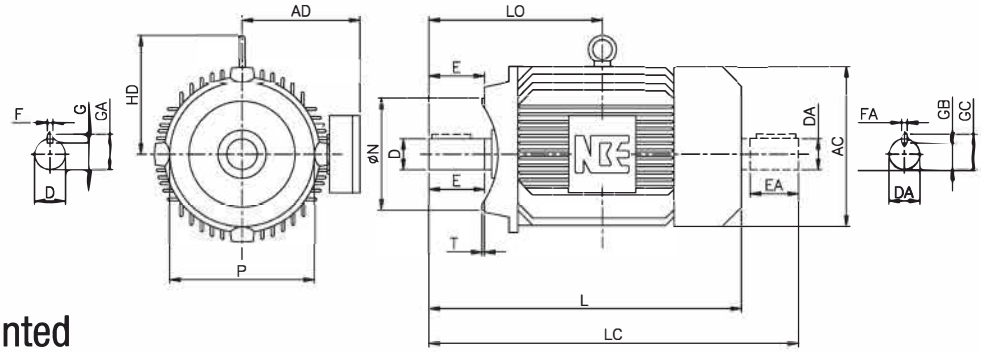
Construction
Flange Mounted



Frame Size	L	LC	LO	AC	HD	AD	D, DA	E, EA	F, FA	GA GC	G, GB	P max	M PCD	øN	S	No. of Hole	T max	LA
56	180	204	-	110	-	86	9	20	3	10.2	7.2	140	115	95	10	4	3	9
63	216	222	-	124	-	103	11	23	4	12.5	8.5	140	115	95	10	4	3	9
71	240	276	-	140	-	110	14	30	5	16	11	160	130	110	10	4	3.5	9
80	277	324	-	158	-	120	19	40	6	21.5	15.5	200	165	130	12	4	3.5	10
90S	297	354	-	180	-	140	24	50	8	27	20	200	165	130	12	4	3.5	10
90L	322	379	-	180	-	140	24	50	8	27	20	200	165	130	12	4	3.5	10
100L	366	433	-	198	-	152	28	60	8	31	24	250	215	180	15	4	4	11
112M	389	456	230	222	265	165	28	60	8	31	24	250	215	180	15	4	4	11
132S	437	524	257	262	305	190	38	80	10	41	33	300	265	230	15	4	4	12
132M	475	562	260	262	305	190	38	80	10	41	33	300	265	230	15	4	4	12
160M	576	693	354	311	365	235	42	110	12	45	37	350	300	250	19	4	5	13
160L	620	737	354	311	365	235	42	110	12	45	37	350	300	250	19	4	5	13
180M	643	760	381	336	405	255	48	110	14	52	43	350	300	250	19	4	5	13
180L	681	798	381	336	405	255	48	110	14	52	43	350	300	250	19	4	5	13
200L	760	880	416	395	457	290	55	110	16	59	49	400	350	300	19	4	5	15
225S	805	925	436	435	518	315	55	110	16	59	49	450	400	350	19	8	5	16
225SX	835	985	466	435	518	315	60	140	18	64	53	450	400	350	19	8	5	16
225M	805	925	436	435	518	315	55	110	16	59	49	450	400	350	19	8	5	16
225MX	835	985	466	435	518	315	60	140	18	64	53	450	400	350	19	8	5	16
250M	930	1080	524	485	563	385	60	140	18	64	53	550	500	450	24	8	5	18
250MX	930	1080	524	485	563	385	65	140	18	69	58	550	500	450	24	8	5	18
280S	1030	1180	590	540	618	415	65	140	18	69	58	550	500	450	24	8	5	18
280SX	1030	1180	590	540	618	415	75	140	20	80	68	550	500	450	24	8	5	18
280M	1030	1180	590	540	618	415	65	140	18	69	58	550	500	450	24	8	5	18
280MX	1030	1180	590	540	618	415	75	140	20	80	68	550	500	450	24	8	5	18

B-14

Construction Face Mounted



Frame Size	L	LC	LO	AC	HD	AD	D, DA	E, EA	F, FA	GA GC	G, GB	P max	M PCD	øN	S	No. of Hole	T max
56	180	204	-	110	-	86	9	20	3	10	7.2	80	65	50	M5	4	2.5
63	206	212	-	124	-	103	11	23	4	13	8.5	90	75	60	M5	4	2.5
71	240	276	-	140	-	110	14	30	5	16	11	105	85	70	M6	4	2.5
80	277	324	-	158	-	120	19	40	6	22	16	120	100	80	M6	4	3
90S	297	354	-	180	-	140	24	50	8	27	20	140	115	95	M8	4	3
90L	322	379	-	180	-	140	24	50	8	27	20	140	115	95	M8	4	3
100L	366	433	-	198	-	152	28	60	8	31	24	160	130	110	M8	4	3.5
112M	389	456	230	222	265	165	28	60	8	31	24	160	130	110	M8	4	3.5
132S	437	524	257	262	305	190	38	80	10	41	33	200	165	130	M12	4	3.5
132M	475	562	260	262	305	190	38	80	10	41	33	200	165	130	M12	4	3.5
160M	576	693	354	311	365	235	42	110	12	45	37	250	215	180	M12	4	4
160L	620	737	354	311	365	235	42	110	12	45	37	250	215	180	M12	4	4

General & Special Purpose Industrial Motors

Conforming to Indian Standards -
IS:325, IS:1231, IS:2223, IS:8789,
IS:4961, IS:6362, IS:12065, IS:12075

Supply -
415 Volts ± 10% 50 Hz ± 5% & Combined Variation ± 10%

Mounting -

Foot Mounted	Flange Mounted	Face Mounted
(B3 - Construction)	(B5 - Construction)	(B14 - Construction)

Protection - IP44, (IS: 4691)

Insulation -Class "F"

Ambient Temperature - 40 °C

Construction - Robust cast iron frames and end covers.
Dynamically Balanced Rotor

Terminal Box -
Terminal box is located on the top as a standard

MOTORS FOR SPECIAL APPLICATION AREAS :
- Intermittent duty and Hoist/ Crane duty Motors
- Electro Magnetic Brake Motors
- Torque - rated Motors for Winders and Stalling Duty
- Textile and Loom Motors
- Cooling Tower Motors
- Machine Tool Motors.

SPECIAL MECHANICAL FEATURES (On request)
- Motors with Double Shaft extensions
- Non -Standard Mounting Dimensions
- Non -Standard Shaft Extension
- Oil -tight shaft (OTS) on Driving End.
- Higher Degree of Protection IP54, IP55, IP 65.
- Reduced Vibration Level
- Motor for Corrosive atmosphere
- RHS or LHS Terminal Box arrangement.

SPECIAL ELECTRICAL FEATURE (On request)
- Supply Voltage upto 550V
- Dual Voltage Motors
- Wider operating Voltages e.g.±10 % or +6 % - 15 %
- Supply Frequency 60 Hz - 25 Hz
- Wider Frequency tolerance ±5%
- Lower Synchronous speeds, like 500 & 375 rpm.
- 2 or 3 Speeds Pole Changing Motors
- Motors with higher class of Insulation (Class F or H)
- Motors with thermal Protection

Worm Helical Gear Box
Foot Mounted Hollow Output

Bevel Helical Gear Box
Foot Mounted

Crystliser Sugar Gear Box

Worm Helical Geared
Flange Mounted Downward Type

Helical Gear Box Fitted
With HYD Motor

Helical Gear Box Foot
Mounted Hollow Input

Heavy Duty Helical Geared
Motor Foot Mounted

POWERTEK EQUIPMENT COMPANY

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