NAKSHATRA
ENGINEERING

INDUCTION MOTORS

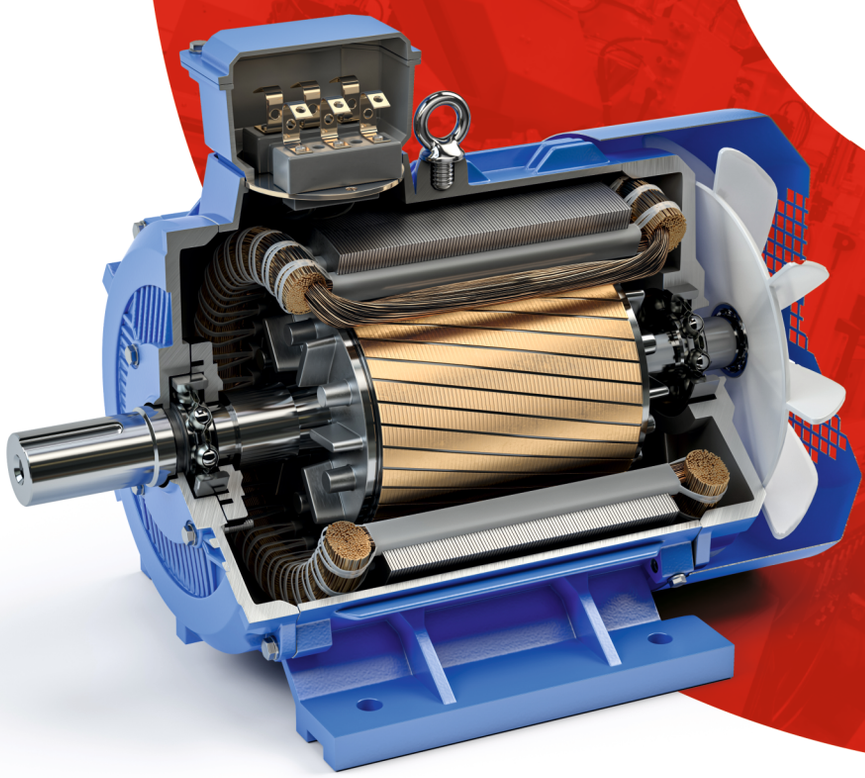
Low Voltage Efficiency Cast Iron Motors

REVOLVING THE INDUSTRY

AC MOTORS
VIBRATORY MOTORS

FOOT MOUNTED MOTOR
HOLLOW SHAFT MOTOR

VERTICAL MOTOR
COOLING TOWER MOTORS



Single Phaase

0.5 KW to 3 H.P. with standard speed and various type construction are available from frame size 90 to 112M

Three Phaase

Motor with standard rating and duty squirrel cage 0.37W with standard speed and various type of construction are available from frame size 80 to 160M

Operating Conditions

Frequency Variation: 50Hz (±
FrequencVoltage Variation: 415V or 230V (±10%)
Enclosure: TEFC (Total Enclose Fan Cooled)
Cooling Method: IC 41 (Shaft Mounted Fan)
Degree of Protection: IP44/1P55
Duty: S1/Continues
Ambient Temperature: 50°C
Insulation Class: "F" The temperature rise of the stato winding is examined at 80K (By resistance method)

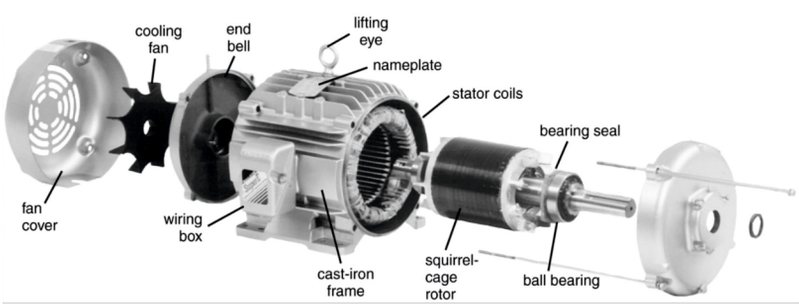
NAKSHATRA
ENGINEERING

ENERGY SAVING

AC Motors are suitable for a variety of industrial, domestic & other general purpose applications.

TECHNICAL SPECIFICATION

- Voltage : Rated voltage<1000V
- Output : Rated output 0.37kW to 90kW
- No of Poles : 2, 4 or 6 Poles
- Frame Dimensions : Meet frame size to output relation as covered in IS:1231
- Ambient Temperature : Designed for an ambient temperature note exceeding 50°C and altitude not exceeding 1000
- Balance Voltage : Designed for an ambient temperature note exceeding 50°C and altitude not exceeding 1000
- Degree of protection : Degree of protection Ip55
- Cooling Method : Method of cooling Ic411 in accordance with IS 6362/IEC 60034-6



CONSTRUCTION FEATURES :

Housing : (Stator Frame) Cast Iron body with colling ribs

Rotor : Core of Insulated Lamination with a high pressure die-cast Aluminum cage. The whole rotor assembly is dynamically balance to ensure quiet and vibration free operation. Surface of rotor is protected by and anti corrosion coating.

Shaft : Made from high carbon steel (ie. EN-8)

Terminal Box : Are located at right hand side of the drive end side, sealed against ingress of moisture. Also provided with conduit entry, Earthing terminal is fitted at the box-side.

High air flow external Bi-directional polypropylene fanes assure low temperature rise to give an extended life of motor. Fan cowls are suitable gauge pressed steel construction, securely bolted to end shield of motor-body.

Frame Size	Bearing No.	
	DE	NDE
71	6203ZZ	6203ZZ
80	6204ZZ	6204ZZ
90	6205ZZ	6204ZZ
100	6206ZZ	6205ZZ
112	6206ZZ	6206ZZ

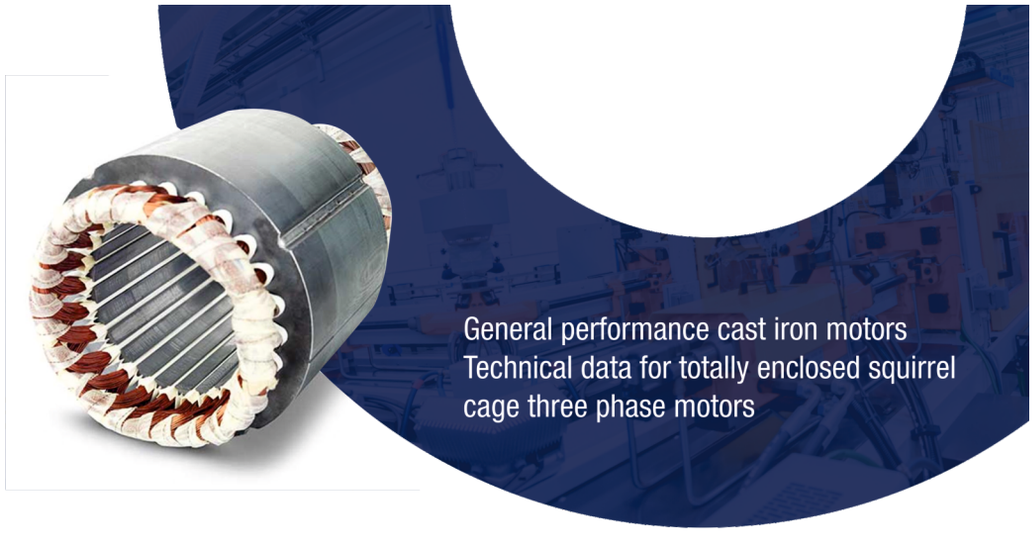
Frame Size	Bearing No.	
	DE	NDE
132	6308ZZ	6307ZZ
160	6309ZZ	6309ZZ
180	6310ZZ	6310ZZ
200	6312	6312
225	6314	6314

WEIGHTS & SHIPPING DIMENSION :

FRAME		56	63	71	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
Wt. (kg)	Gr.	5	8	11	17	19	23	37	58	85	94	140	167	202	220	298	365	410	435	550	600
	Nt.	4	7	10	16	18	22	35	45	60	70	100	135	180	190	260	325	365	390	490	540
BOX (cms)	L	24	24	28	32	38	38	45	55	65	65	80	80	90	90	95	97	97	110	123	123
	H	16	16	18	19	23	23	24	41	43	43	47	47	48	48	55	60	60	66	74	74
	W	22	22	24	27	29	29	34	41	50	50	58	58	60	60	73	73	73	75	80	80

CABLE SIZE OF STANDARD MOTOR :

Frame Size	Max. Cable Size		Cable Entry Size	Terminal Stud Size
	DOL Starting	Star - D Starting		
56 - 71	3C X 2.5mm^2	-	1 X 3/4"	M4
80 - 90 - 100	3C X 4.0mm^2	-	1 X 3/4"	M4
132	3C X 10mm^2	2 X 3C X 10mm^2	2 X 1"	M5
160 - 180	3C X 35mm^2	2 X 3C X 25mm^2	2 X 1"	M8
200 - 225	3C X 120mm^2	2 X 3C X 70mm^2	2 X 2"	M8
250 - 280	3C X 240mm^2	2 X 3C X 150mm^2	2 X 2"	M10



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

TECHNICAL DETAILS

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

TECHNICAL DETAILS

1000 RPM

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

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	915	69	69	64.4	0.69	1.1	6	3.9	1.8	2.2	0.00187	15
0.55	80	920	72.9	72.9	70.6	0.71	1.5	6	5.7	1.8	2.2	0.00239	17
0.75	90	960	75.9	75.9	69.7	0.6	2.3	6	7.5	2.3	3.1	0.00444	25
1.1	90	930	78.1	78.1	75.4	0.66	3	6	11.3	1.9	2.3	0.0054	28
1.5	100	950	79.8	79.8	76.8	0.69	3.8	6	15	2.2	2.7	0.00873	37
2.2	112	950	81.8	81.8	79.3	0.69	5.4	7	22.1	1.7	2.3	0.0125	44
3.7	132	970	84.3	84.3	82.4	0.7	8.8	7	36.4	1.5	2.2	0.03336	69
5.5	132	965	86	86	85	0.71	12.5	7	54.4	2.5	2.8	0.0487	86
7.5	160	967	87.2	88	86.8	0.79	15.3	6.5	74	1.9	2.6	0.0890	122
9.3	160	968	88	88.6	87.8	0.79	18.9	6.5	92	2.1	2.8	0.1190	141
11	160	970	88.7	89.2	88.5	0.78	22.3	7	108	2.3	3	0.1293	147
15	180	972	89.7	90.1	89.4	0.76	30.9	7	147	2.3	3.2	0.1522	173
18.5	200	972	90.4	90.8	90	0.79	36.5	6	182	1.7	2.5	0.1980	190
22	200	973	90.9	91.2	90.6	0.79	43.1	6	216	1.7	2.5	0.2384	212
30	225	985	91.7	92	91.2	0.83	55.2	6.5	291	2.3	2.8	0.5687	284
37	250	985	92.2	92.4	91.9	0.82	68.5	6	359	2	2.6	0.8042	337
45	280	988	92.7	92.7	90.7	0.84	80	7	435	2.2	2.4	1.8	590
55	280	988	93.1	93.1	91.1	0.84	98	7	532	2.2	2.4	2.025	600
75	315	989	93.7	93.7	91.7	0.85	131	7	724	2.4	2.7	3.887	932
90	315	990	94	94	92	0.85	157	7	868	2.4	2.8	4.8	1005

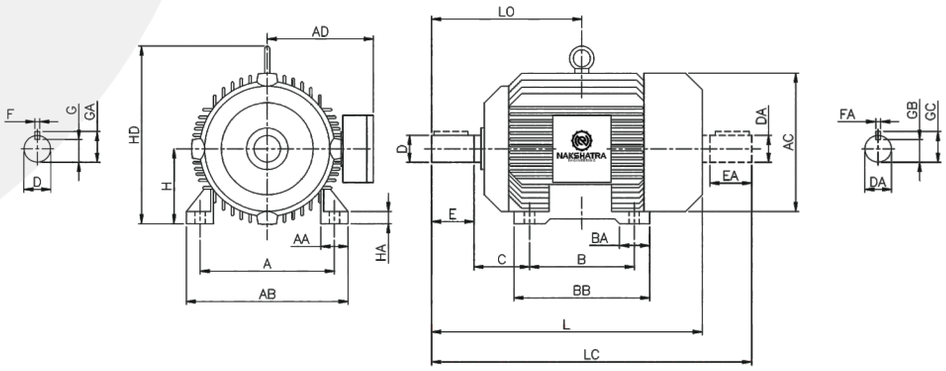
Efficiency values are given according to IEC 60034-2-1;2007.
Please note that the values are not comparable without knowing the testing method.
Nakshatra Engineering has calculated the efficiency values according to indirect method, stray load losses (additional losses) determined from measuring. IE-class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

DIMENSION

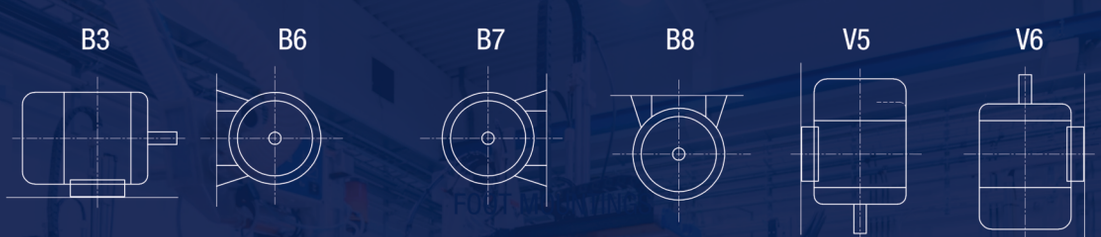
B-3

Construction
Horizontal Foot Mounted



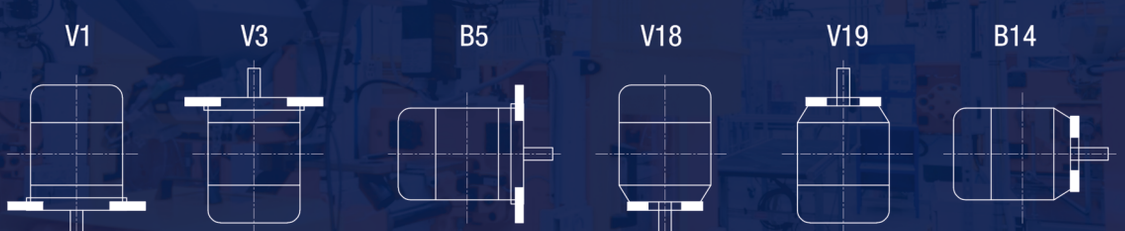
Frame Size	A	B	C	H	K	L	LC	LO	AA	AB	BB	BA	AC	HA	HD	AD	D, DA	E, EA	F, FA	GA GC	G, GB
56	90	71	36	56	6	180	204	-	25	110	91	-	110	6	-	86	9	20	3	10.2	7.2
63	100	80	37	63	7	208	212	-	31	132	110	27	116	10	-	103	11	23	4	12.5	8.5
71	112	90	52	71	7	277	276	-	31	141	113	31	139	10	-	110	16	50	5	18.5	11
80	125	100	52	80	10	288	324	-	40	163	130	32	157	13	-	120	19	40	6	21.5	15.5
90S	140	100	56	90	10	308	354	-	40	175	126	32	177	13	178	140	24	48	8	27.5	20
90L	140	125	56	90	10	332	379	-	40	175	157	32	177	13	178	140	24	51	8	27.5	20
100L	160	140	63	100	12	377	433	-	42	197	168	46	199	14	250	151	28	60	8	31.5	24
112M	190	140	70	112	12	405	456	205	48	225	180	47	225	14	274	161	28	60	8	31.5	24
132S	216	140	89	132	12	437	524	257	52	256	180	48	262	16	305	190	38	80	10	42	33
132M	216	178	89	132	12	475	562	260	52	256	218	48	262	16	305	190	38	80	10	42	33
160M	254	210	110	160	15	604	693	317	66	317	266	75	320	24	365	230	42	110	12	46	37
160L	254	254	110	60	15	652	737	346	66	315	334	95	320	24	365	235	42	110	12	46	37
180M	279	279	110	180	15	696	798	371	80	360	335	101	362	30	405	255	48	110	14	51	41
180L	279	279	110	180	15	696	798	371	80	360	335	101	362	30	405	255	48	110	14	51	41
200L	318	305	133	200	19	760	880	416	84	386	365	74	395	26	457	290	55	110	16	59	49
225S	356	286	163	225	19	865	925	436	94	428	423	129	443	32	505	322	60	142	18	59	51
225SX	356	286	149	225	19	835	985	466	90	428	371	91	435	28	518	315	60	140	18	64	53
225M	356	311	149	225	19	805	925	436	90	428	371	91	435	28	518	315	55	140	16	59	49
225MX	356	311	149	225	19	835	985	466	90	428	371	91	435	28	518	315	60	140	18	64	53
250M	406	349	168	250	24	930	1080	524	105	490	433	93	485	38	563	385	60	140	18	64	53
250MX	406	349	168	250	24	930	1080	524	105	490	433	93	485	38	563	385	65	140	18	69	58
280S	457	368	190	280	24	1030	1180	590	100	557	483	145	540	42	618	415	65	140	18	69	58
280SX	457	368	190	280	24	1030	1180	590	100	557	483	145	540	42	618	415	75	140	20	80	68
280M	457	419	190	280	24	1030	1180	590	100	557	483	145	540	42	618	415	65	140	18	69	58
280MX	457	419	190	280	24	1030	1180	590	100	557	483	145	540	42	618	415	75	140	20	80	68

in 56, 63 terminal box located at the top side of the motor
NOTE : TOP BOX AVAILABLE



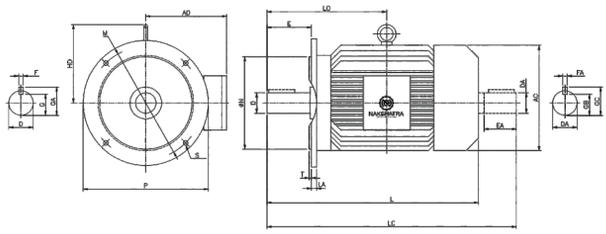
FLANGE MOUNTINGS

FACE MOUNTINGS



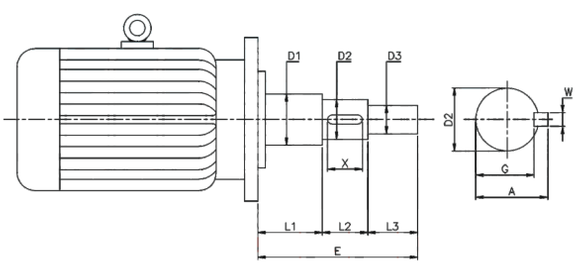
B-5

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

ENERGY SAVING



RANGE : 0.25 HP to 60 HP

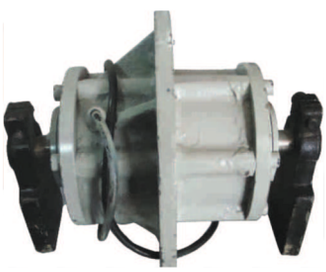
H.P.	FRAME	R.P.M.	D1	D2	D3	L1	L2	L3	E	W	A	G	X
0.25	71	1440	17	14	12.7	75	30	30	135	5	16.5	11.5	25
0.5	71	1440	17	14	12.7	75	30	30	135	5	16.5	11.5	25
0.5	80	1440	20	19	16	75	50	40	165	6	21.5	15.5	35
0.5	80	960	20	19	16	75	50	40	165	6	21.5	15.5	35
1.0	80	1440	20	19	16	75	50	40	165	6	21.5	15.5	35
1.0	90	960	25	24	22	75	50	50	165	8	27.0	20.0	45
1.5	100	960	30	28	25	100	75	65	240	8	31.0	24.0	50
1.5	112	720	30	28	25	100	75	65	240	8	31.0	24.0	50
2.0	100	960	30	28	25	100	75	65	240	8	31.0	24.0	50
2.0	112	720	30	28	25	100	75	65	240	8	31.0	24.0	50
3.0	112	960	30	28	25	100	75	65	240	8	31.0	24.0	50
3.0	132	720	40	38	31	100	75	65	240	10	41.0	33.0	70
5.0	160	720	45	42	38	125	75	75	275	12	45.0	37.0	50
5.0	132	960	40	38	31	100	75	65	240	10	41.0	33.0	70
7.5	160	720	45	42	38	125	75	75	275	12	45.0	37.0	50
10.5	160	720	45	42	38	125	75	75	275	12	45.0	37.0	50
12.5	180	720	50	48	42	155	125	95	375	14	55.0	41.0	115

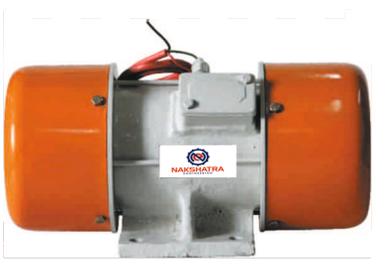
VIBRATORY MOTOR

NAKSHATRA ENGINEERING unbalanced vibratory motor in 2, 4, 6 or 8 pole design motor available in flange or foot mounted. In brief movable unbalance plates can be adjusting on circumference for easy tracing of the weight which serves oscillation with from zero to maximum.

RANGE :
0.125 HP to 15.0 HP Three phase supply and
0.10 HP to 1 HP Single Phase supply

APPLICATIONS : Conveying, Compacting, Emptying, Cleaning, Testing & Feeding of all kind of products, process can be achieved with help of vibratory motor. Loosening & separation of bulk material screening, dewatering, filtration, crushing.



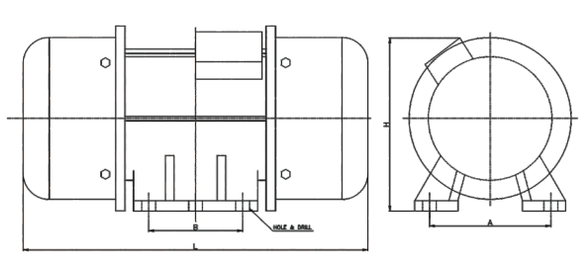


FOOT MOUNTED

FLANGE MOUNTED

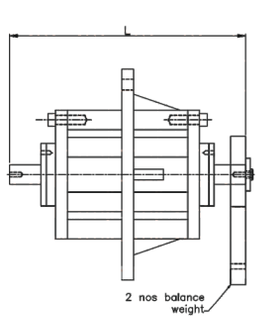
FOOT VIBRATORY MOTOR

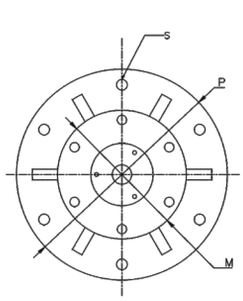
No	Frame	HP	Hole Center			Motor		Holl & Drill Size
			A	B	L	W	H	HP
1	63	0.25	80	85	270	150	170	4-14mm
2	71	0.5	120	85	320	180	195	4-14mm
3	80	1.0	140	108	360	200	215	4-18mm
4	90	2.0	152	130	460	220	270	6-22mm
5	100	3.0	200	130	540	260	320	6-22mm
6	112	5.0	210	170	610	270	355	6-22mm
7	132	7.5	280	200	650	350	425	6-22mm
8	160	10	300	325	720	380	450	6-40mm



FLANGE VIBRATORY MOTOR

No	Frame	HP	PCD	OD	Motor Length	Nos. of Holls
1	63	0.25	160	180	210	14mm x 6n05
2	71	0.5	180	225	270	14mm x 6n05
3	80	1.0	230	270	310	15mm x 6n05
4	90	2.0	230	270	370	22mm x 6n05
5	100	3.0	270	300	370	22mm x 6n05
6	112	5.0	300	350	440	27mm x 6n05
7	132	7.5	360	410	510	27mm x 6n05
8	160	10	400	450	550	27mm x 6n05





Approximate Packing Dimensions

Frame Size	56	63	71	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
Kgs.	7	8	11	17	20	25	36	46	75	92	125	143	190	220
LT.Kgs.	11	12	15	21	25	31	44	56	87	104	135	163	213	248
Length mm	255	280	320	355	380	405	460	470	575	600	610	650	710	750
Width mm	177	197	222	240	260	260	285	310	372	372	480	480	560	560
Hight mm	190	210	205	225	255	255	300	325	375	375	430	430	510	510

Single Phase Motor Dol Starting

MOTOR OUTPUT KW	0.37	0.55	0.75	1.1	1.5	2.2	3.7
H.P.	0.5	0.75	1	1.5	2	3	5
Full Load Current	3.7	5	6.5	9.4	12.5	16.5	20
Over Load Relay Range	1-	1-	5-	8-	8-	10-	18-
P	2.5	4	10	14	14	20	24

Star Delta Starting of Motor

MOTOR RATED OUTPUT KW	2.2	3.7	5.5	7.5	9.3	11	15	18.5	22	30
H.P.	3.0	5	7.5	10	12.5	15	-	-	-	-
Full Load Current	4.8	7.8	11.2	15	18	21	27	33	39	47
P	2.8	4.5	6.5	9	11	12.7	16.8	20.2	23	30.6
Over Load Relay Range	1.5-3	3-6	4-8	6-12	6-12	10-16	18-24	15-24	12-24	16-32

NAKSHATRA
ENGINEERING

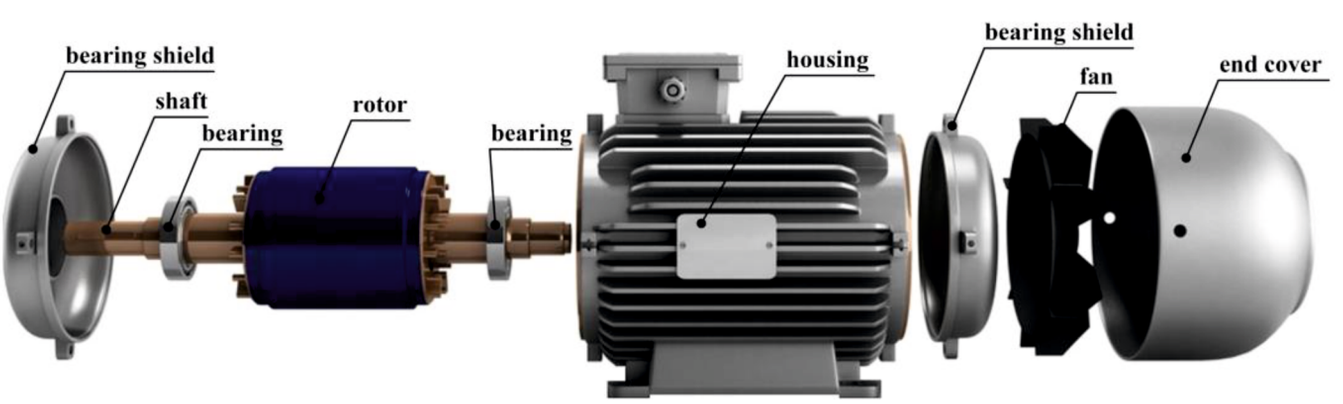
Features

- High Efficiency And Long Life Product.
- Motors Are Fitted With Dynamically Balanced Aluminium Die Cast - Squirrel Cage Rotors.
- High Torque Level.
- High Power Factor.
- Low Temperature Rise.
- Minimum Copper Losses Due To Use Of Electrolytic Grade Of Copper.
- Easy Maintenance.
- Minimum Pay Back Period.

Benefits

- Longer Insulation And Bearing Lives.
- Lower Heat Output And Less Vibration.
- Extended Winding Life.
- Increased Tolerance Of Overload Conditions.
- Higher Tolerance For Increased Voltage Rates Or Phase Imbalance.

Motor Construction

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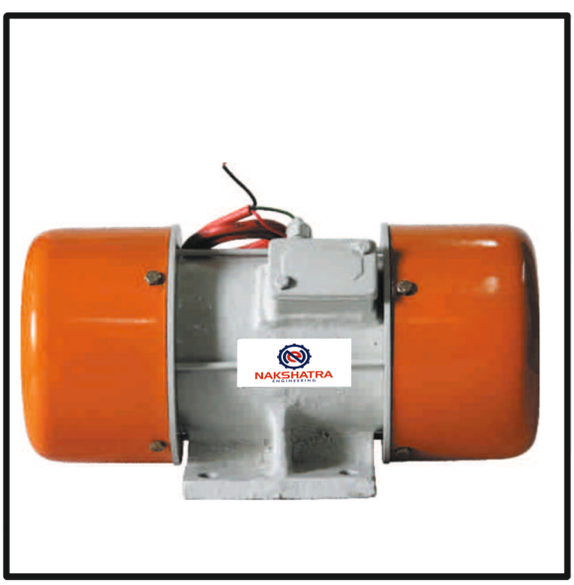
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