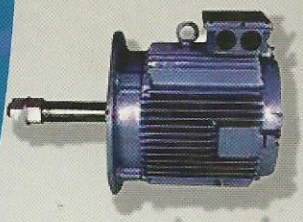
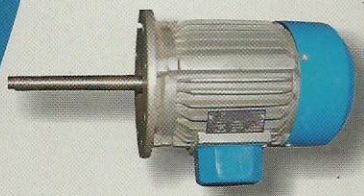
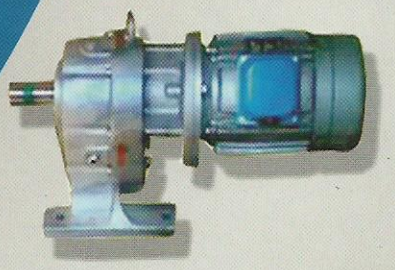
ALTRA POWER ELECTRICAL INDUSTRIES

Manufacturing of 1 PHASE & 3 PHASE INDUCTION MOTORS.

NS-EN ISO 9001:2008 CERTIFIED COMPANY







Altra Power elctrical is the one of the leading manufacturer of induction motors since last 18 years. Altra power has an impressive range of AC induction motors (1Phase and 3 Phase) in addition, All these products are manufacturer with insulation class "F". All motors confirms to as per ISI standard specification.

Range of Product :

3-Phase AC induction motors : 56 to 180 L frame
1-Phase AC induction motors : 56 to 112 M frame

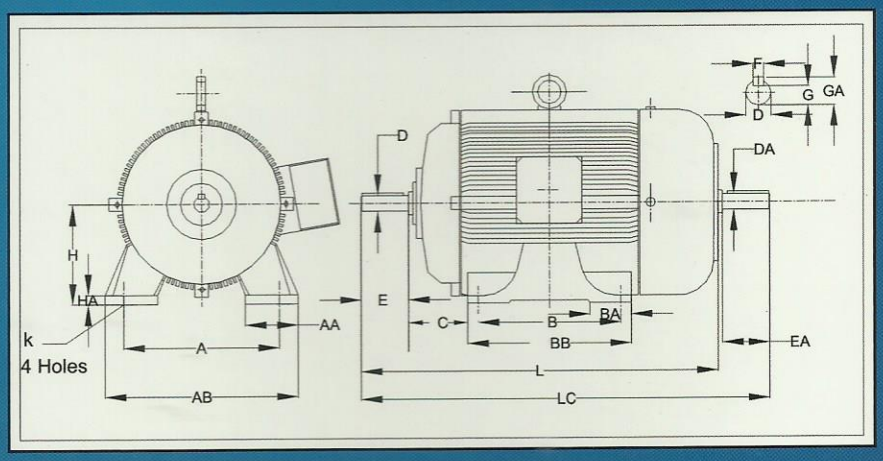
Our Products :

- Gear Motors
- Clutch Motors
- Hollow shaft Motors
- Blower Motor
- Double Speed motor
- Brake Motors
- Crane duty Motors
- Vibratory Motors
- FHP Motor
- Special Purpose Motor
- Worm Reduction Gear motor
- Planetary Gear Motor
- Cooling tower Motor
- FHP Gear Motor

Features :

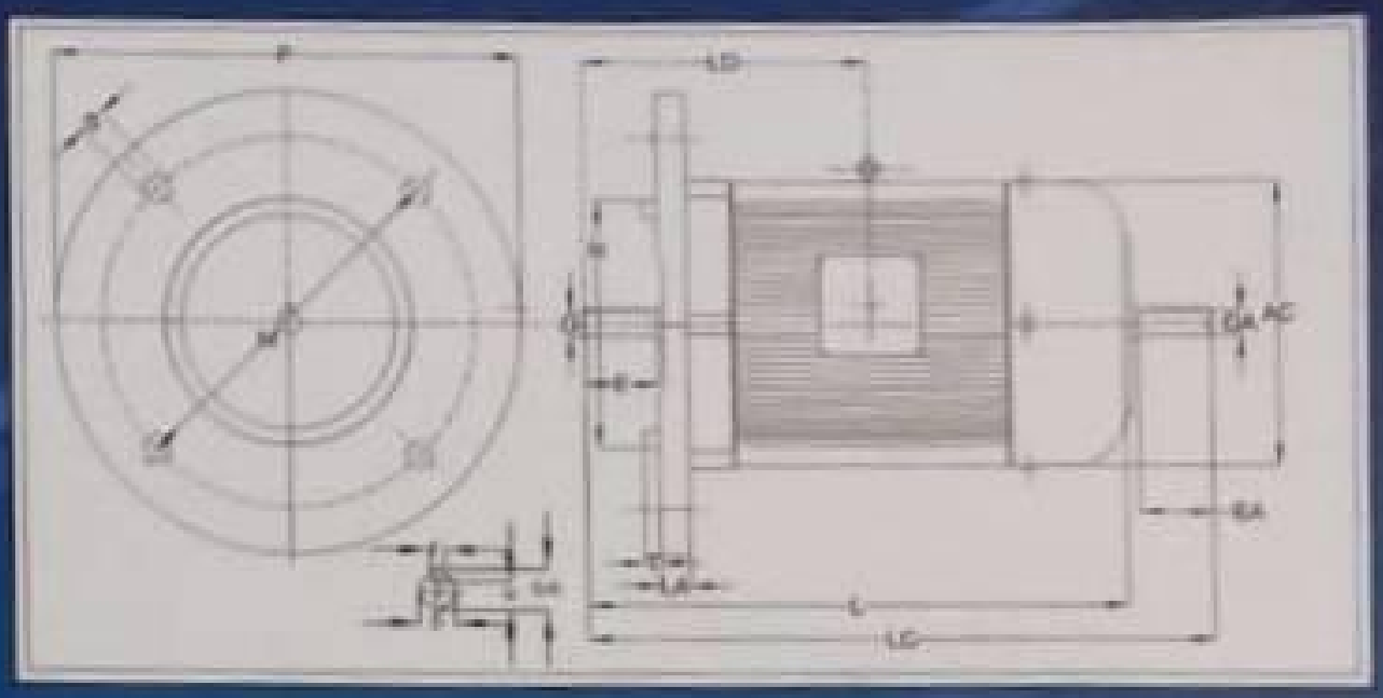
- Motors up to 112 frame in Aluminum pressure die-cast and also in Cast Iron Components
- Performance conforming to IS:325
- Mounting dimensions as per IS:1231 and IS:2223
- Insulation class F, suitable for ambient of 45^0C
- Degree of Protection IP 44, 54, 55
- Supply Conditions : 3-phase AC, 415V 10% , 50Hz 5% , combined variation 10%

Frame Dimensions
(Foot mounted B-3)
IS :1231



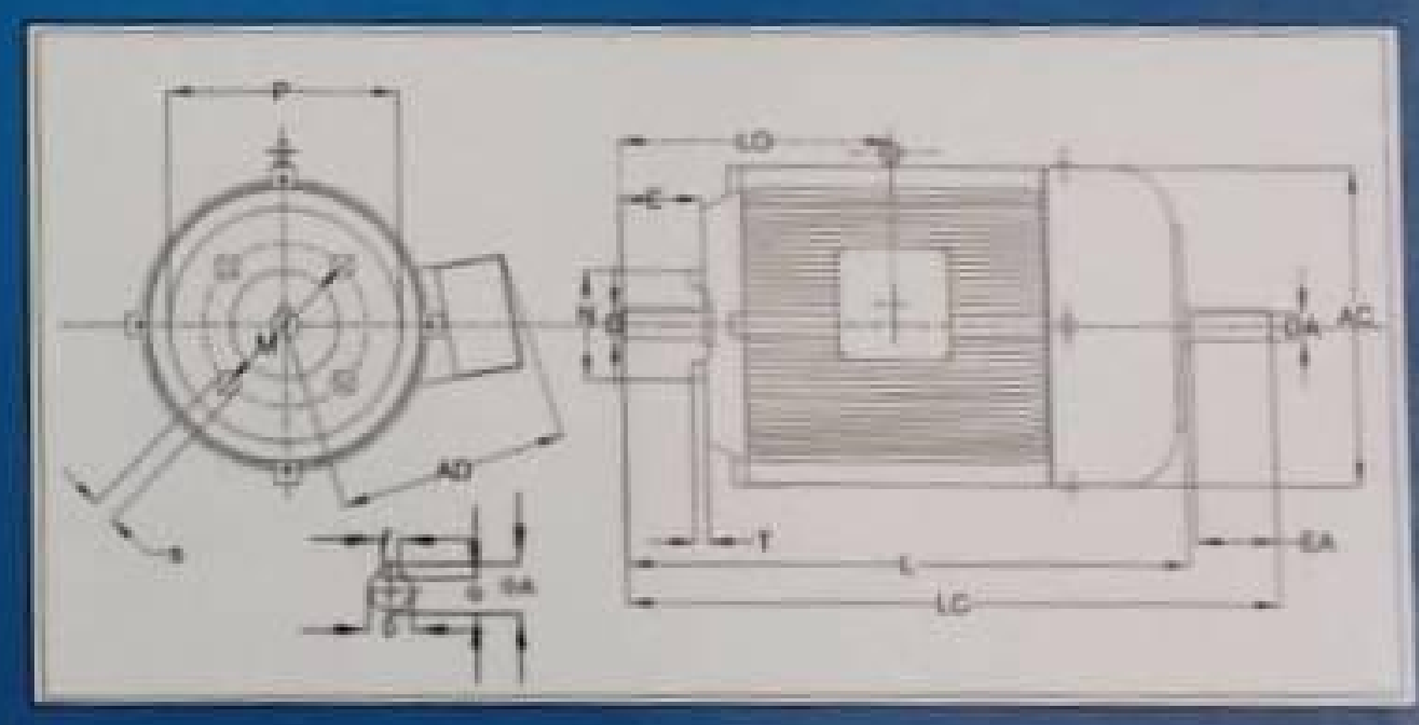
Frame Size	A	B	C	D	E	F	GA	G	H	K	L	LC	AA	AB	BB	AC	HA	LO
56	90	71	36	9	20	3	10.2	7.2	56	5.8	192	217	28	117	90	108	7	--
63	100	80	40	11	23	4	12.5	8.5	63	7	210	238	35	125	106	115	10	--
71	112	90	45	14	30	5	16	11	71	7	240	275	35	140	112	140	10	--
80	125	100	50	19	40	6	21.5	15.5	80	10	277	322	38	160	130	162	13	--
90S	140	100	56	24	50	8	27	20	90	10	312	369	37	175	132	173	14	--
90L	140	125	56	24	50	8	27	20	90	10	337	394	37	175	157	173	14	--
100L	160	140	63	28	60	8	31	24	100	12	370	437	42	200	170	195	14	193
112M	190	140	70	28	60	8	31	24	112	12	397	464	50	225	175	226	14	200
132S	216	140	89	38	80	10	41	33	132	12	450	540	55	258	176	260	18	239
132M	216	178	89	38	80	10	41	33	132	12	488	578	55	258	214	260	18	258
160M	254	210	108	42	110	12	45	37	160	15	580	700	72	320	260	310	25	323
160L	254	254	108	42	110	12	45	37	160	15	624	744	72	320	304	310	25	345
180M	279	241	121	48	110	14	51.5	42.5	180	15	635	757	80	360	300	360	25	352
180L	279	279	121	48	110	14	51.5	42.5	180	15	673	795	80	360	338	360	25	370
200L	318	305	133	55	110	16	59	49	200	19	740	865	85	400	370	390	30	395

Frame Dimensions
Flange mounted B-5
IS :1231



Frame Size	M	N	S	T Max.	La	D	E	F	GA	G	P Max.	L	LC	LO	AC
56	115	95	10	3	9	9	20	3	10.2	7.2	140	192	217	–	108
63	115	95	10	3	9	11	23	4	12.5	8.5	140	210	238	–	115
71	130	110	10	3.5	9	14	30	5	16	11	160	240	275	–	140
80	165	130	12	3.5	10	19	40	6	21.5	15.5	200	277	322	–	162
90S	165	130	12	3.5	10	24	50	8	27	20	200	312	369	–	173
90L	165	130	12	3.5	10	24	50	8	27	20	200	337	394	–	173
100L	215	180	15	4	11	28	60	8	31	24	250	370	437	193	195
112M	215	180	15	4	11	28	60	8	31	24	250	397	464	200	226
132S	265	230	15	4	12	38	80	10	41	33	300	450	540	229	260
132M	265	230	15	4	12	38	80	10	41	33	300	488	578	258	260
160M	300	250	19	5	13	42	110	12	45	37	350	588	700	323	310
160L	300	250	19	5	13	42	110	12	45	37	350	624	744	345	310
180M	300	250	19	5	13	48	110	14	51.5	42.5	350	635	757	352	380
180L	300	250	19	5	13	48	110	14	51.5	42.5	350	673	795	370	360
200L	350	300	19	5	15	55	110	16	59	49	400	740	865	385	300
225M	400	350	19	5	16	55	110	16	59	49	450	780	903	415	424
						60	140	18	64	53		910	965	445	

Frame Dimensions
Face mounted B-14
IS :2223



Frame Size	M	N	S	T Max.	P Max.	D	E	F	GA	G	L	LC	LO	AC
56	65	50	M5	2.5	80	9	20	3	10.2	7.2	192	217	–	108
63	75	60	M5	2.5	90	11	23	4	12.5	8.5	210	238	–	115
71	85	70	M6	2.5	105	14	30	5	16	11	240	275	–	140
80	100	80	M6	3.0	120	19	40	6	21.5	15.5	277	322	–	162
90S	115	95	M8	3.0	140	24	50	8	27	20	312	369	–	173
90L	115	95	M8	3.0	140	24	50	8	27	20	337	394	–	173
100L	130	110	M8	3.5	160	28	60	8	31	24	370	437	193	195
112M	130	110	M8	3.5	160	28	60	8	31	24	397	464	200	226
132S	165	130	M12	3.5	200	38	80	10	41	33	450	540	229	260
132M	165	130	M12	3.5	200	38	80	10	41	33	488	578	258	260

Scanned by TapScanner

Performance values standard TEFC foot, flange & face mounted, 3 ph, 415 v ±10%, 50Hz ±5%, Amb 45°C.

TWO POLE, 3000 RPM

K.W.	H.P.	Frame	Rated Current Amps.	Rated Speed RPM	Rated Torque Kgm.	D.O.L. Values % of Rated			Eff %	P.F. cosΦ
						Starting Current	Starting Torque	Pullout Torque		
0.18	0.25	63	0.60	2740	0.06	380	250	290	0.62	0.64
0.25	0.33	63	0.90	2760	0.09	400	220	290	0.64	0.66
0.37	0.5	71	1.1	2800	0.13	480	260	310	0.68	0.78
0.55	0.75	71	1.45	2800	0.20	490	260	320	0.68	0.78
0.75	1.0	80	1.8	2800	0.28	500	260	320	0.75	0.80
1.1	1.5	80	2.6	2800	0.38	500	270	300	0.76	0.82
1.5	2.0	90S	3.5	2840	0.52	540	280	300	0.78	0.82
2.2	3.0	90L	5.0	2840	0.75	580	280	280	0.80	0.82
3.7	5.0	100L	7.8	2860	1.28	600	260	250	0.81	0.84
5.5	7.5	112M	11.0	2860	1.90	630	260	310	0.82	0.84
7.5	10.0	132S	14.0	2860	2.54	650	250	300	0.82	0.86
9.3	12.5	132M	17.3	2880	3.10	650	250	290	0.84	0.86
11.0	15.0	132M	22.0	2880	3.75	670	240	320	0.84	0.88
15.0	20.0	160M	28.0	2880	5.10	650	210	320	0.86	0.88
18.5	25.0	160L	33.2	2900	6.15	680	210	320	0.86	0.88
22.0	30.0	180M	38.1	2900	7.25	680	230	320	0.86	0.88

FOUR POLE, 1500 RPM

K.W.	H.P.	Frame	Rated Current Amps.	Rated Speed RPM	Rated Torque Kgm.	D.O.L. Values % of Rated			Eff %	P.F. cosΦ
						Starting Current	Starting Torque	Pullout Torque		
0.12	0.16	63	0.40	1360	0.09	300	200	280	0.62	0.60
0.18	0.25	63	0.7	1360	0.12	300	200	280	0.62	0.60
0.25	0.33	71	0.75	1360	0.20	310	210	260	0.64	0.60
0.37	0.5	71	1.2	1390	0.28	340	220	250	0.64	0.62
0.55	0.75	80	1.5	1420	0.40	440	220	250	0.66	0.62
0.75	1.0	80	2.1	1420	0.52	440	200	240	0.66	0.64
1.1	1.5	90S	2.8	1420	0.78	450	180	260	0.68	0.64
1.5	2.0	90L	3.8	1420	1.05	485	180	250	0.68	0.64
2.2	3.0	100L	5.2	1420	1.50	500	200	250	0.70	0.65
3.7	5.0	112M	7.8	1440	2.50	520	200	250	0.72	0.65
5.5	7.5	132S	11.2	1440	3.72	520	200	260	0.72	0.68
7.5	10.0	132M	15.4	1440	5.10	560	220	250	0.72	0.68
9.3	12.5	160M	17.5	1450	6.20	580	220	250	0.75	0.70
11.0	15.0	160M	20.8	1450	7.40	620	200	270	0.75	0.75
15.0	20.0	160L	28.3	1470	10.10	620	250	260	0.80	0.75
18.5	25.0	180M	34.1	1470	12.30	600	250	260	0.82	0.80
22.0	30.0	180L	40.2	1470	14.60	600	200	270	0.82	0.80

SIX POLE , 1000 RPM

K.W.	H.P.	Frame	Rated Current Amps.	Rated Speed RPM	Rated Torque Kgm.	D.O.L. Values % of Rated			Eff %	P.F. cosΦ
						Starting Current	Starting Torque	Pullout Torque		
0.18	0.25	71	0.8	890	0.20	380	180	240	0.55	0.58
0.25	0.33	80	1.1	890	0.28	350	180	240	0.58	0.60
0.37	0.5	80	1.3	910	0.40	310	180	250	0.66	0.63
0.55	0.75	80	1.8	910	0.58	320	180	260	0.67	0.64
0.75	1.0	90S	2.25	910	0.80	400	200	280	0.70	0.65
1.1	1.5	90L	3.0	920	1.16	400	200	260	0.72	0.70
1.5	2.0	100L	4.0	920	1.58	400	200	260	0.74	0.72
2.2	3.0	112M	5.4	930	2.30	400	190	280	0.75	0.73
3.7	5.0	132S	8.6	930	3.87	450	190	290	0.80	0.74
5.5	7.5	132M	12.8	930	5.76	540	230	250	0.82	0.74
7.5	10.0	160M	16.5	930	7.84	600	200	250	0.84	0.75
9.3	12.5	160M	19.1	960	9.86	600	200	250	0.86	0.75
11.0	15.0	160L	21.2	960	11.10	650	230	280	0.88	0.80
15.0	20.0	180L	28.0	960	15.20	650	230	300	0.90	0.82
18.5	25.0	200L	34.3	960	18.40	600	230	300	0.92	0.82
22.0	30.0	200L	41.0	960	21.90	600	230	300	0.92	0.82

EIGHT POLE, 750 RPM

K.W.	H.P.	Frame	Rated Current Amps.	Rated Speed RPM	Rated Torque Kgm.	D.O.L. Values % of Rated			Eff %	P.F. cosΦ
						Starting Current	Starting Torque	Pullout Torque		
0.18	0.25	80	0.85	675	0.28	200	180	230	0.57	0.52
0.25	0.33	80	1.05	680	0.35	250	180	250	0.60	0.55
0.37	0.5	90S	1.35	685	0.55	300	170	250	0.65	0.60
0.55	0.75	90L	1.80	680	0.75	400	190	250	0.68	0.64
0.75	1.0	100L	2.2	690	1.05	400	190	250	0.70	0.68
1.1	1.5	100L	2.95	690	1.50	400	180	250	0.71	0.73
1.5	2.0	112M	3.9	700	2.05	400	180	260	0.75	0.71
2.2	3.0	132S	5.35	700	3.05	450	180	260	0.78	0.74
3.7	5.0	132M	8.4	705	5.00	500	200	260	0.80	0.74
5.5	7.5	160M	12.0	710	7.45	500	200	240	0.82	0.78
7.5	10.0	160L	15.8	710	10.15	500	200	240	0.84	0.80
9.3	12.5	180M	19.4	715	12.5	500	200	250	0.84	0.80
11.0	15.0	180L	23.5	715	15.00	500	220	250	0.86	0.80
15.0	20.0	200L	30.0	720	19.95	500	220	280	0.86	0.82
18.5	25.0	225M	36.5	720	24.50	550	220	280	0.86	0.84
22.0	30.0	225M	43.0	725	29.10	550	200	290	0.88	0.84

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