

Transmission Australia – Aluminium Motor Range

Performance Data

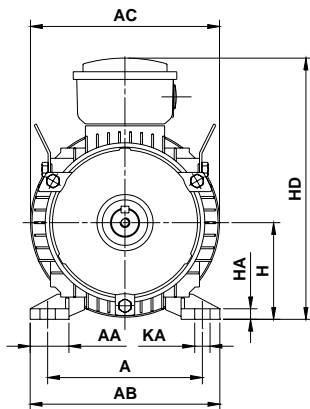
Three phase 415V 50Hz, IP55

kW	Motor frame	Speed [r/min]	Efficiency [%]	Power factor, cos φ	Current @ 415 V		Torque			Moment of inertia $J=\frac{1}{4}GD^2$ [kg·m ²]	Weight of foot mount motor [kg]
					Full load I_N [A]	Locked rotor I_L/I_N	Full load T_N [Nm]	Locked rotor T_L/T_N	Break down T_B/T_N		
3000 r/min = 2 poles											
0.25	63B	2800	69.0	0.81	0.62	5.5	0.96	2.2	2.3	0.00018	4.7
0.37	71A	2800	71.0	0.81	0.90	6.1	1.26	2.2	2.3	0.00035	6.0
0.55	71B	2800	74.0	0.82	1.3	6.1	1.88	2.2	2.3	0.00045	6.3
0.75	80A	2815	76.2	0.83	1.7	5.9	2.5	2.8	3.6	0.00075	10
1.1	80B	2830	79.3	0.84	2.3	6.0	3.7	2.6	2.9	0.0009	11
1.5	90S	2850	80.4	0.84	3.1	6.5	5.0	2.8	3.3	0.0012	13
2.2	90L	2830	81.6	0.87	4.3	6.4	7.4	2.8	2.8	0.0014	14
3.0	100L	2870	83.4	0.88	5.7	7.5	10.0	2.8	3.3	0.0029	25
4.0	112M	2895	85.5	0.89	7.3	8.0	13.2	2.7	3.4	0.0055	28
5.5	132SA	2910	85.7	0.88	10.1	7.4	18.1	2.2	3.2	0.0109	40
7.5	132SB	2895	87.0	0.90	13.3	7.2	24.7	2.2	2.8	0.0126	45
1500 r/min = 4 poles											
0.18	63B	1360	62.0	0.73	0.55	4.4	1.26	2.1	2.2	0.0003	4.7
0.25	71A	1370	67.3	0.74	0.70	5.2	1.73	2.1	2.2	0.0008	6.0
0.37	71B	1350	69.3	0.74	1.0	4.1	2.6	2.2	2.2	0.0010	6.3
0.55	80A	1390	72.8	0.75	1.4	4.8	3.8	2.5	2.6	0.0018	10
0.75	80B	1390	74.4	0.74	1.9	4.6	5.2	2.5	2.6	0.0021	11
1.1	90S	1410	77.4	0.79	2.5	5.4	7.5	2.8	2.9	0.0023	13
1.5	90L	1390	78.5	0.81	3.3	5.3	10.3	2.7	2.8	0.0027	14
2.2	100LA	1430	82.5	0.82	4.5	6.7	14.7	2.8	3.3	0.0054	23
3.0	100LB	1420	82.6	0.86	5.9	6.7	20.2	2.9	2.9	0.0067	25
4.0	112M	1440	85.0	0.83	7.9	7.6	26.5	3.1	3.5	0.0095	28
5.5	132S	1450	86.7	0.87	10.2	6.9	36.2	2.3	3.0	0.0214	45
7.5	132M	1450	87.9	0.87	13.7	7.5	50.0	2.6	2.9	0.0296	55
1000 r/min = 6 poles											
0.25	71B	900	60.0	0.68	0.85	4.0	2.65	1.9	2.0	0.0009	6.3
0.37	80A	915	66.5	0.70	1.1	2.8	3.9	1.6	1.7	0.0016	10
0.55	80B	910	68.2	0.66	1.7	3.1	5.8	1.7	2.0	0.0019	11
0.75	90S	930	74.4	0.74	1.9	4.6	7.7	2.4	2.6	0.0029	13
1.1	90L	920	75.2	0.75	2.7	4.5	11.4	2.4	2.4	0.0035	14
1.5	100L	945	77.6	0.73	3.7	5.1	15.2	2.2	2.9	0.0069	23
2.2	112M	945	79.9	0.75	5.1	5.6	22.2	2.7	2.8	0.0140	25
3.0	132S	970	84.5	0.77	6.4	6.7	30	2.3	3.2	0.0286	42
4.0	132MA	965	84.6	0.77	8.5	6.8	40	2.5	3.1	0.0357	45
5.5	132MB	960	85.7	0.81	11.0	6.9	55	2.4	3.0	0.0449	55
750 r/min = 8 poles											
0.37	90S	690	62.8	0.61	1.3	4.0	5.12	1.8	1.9	0.0042	13
0.55	90L	690	63.5	0.61	2.0	4.0	7.61	1.8	2.0	0.0061	14
0.75	100LA	700	71.0	0.67	2.2	4.0	10.2	1.8	2.0	0.0090	23
1.1	100LB	710	72.1	0.62	3.4	4.2	14.8	2.3	2.8	0.0110	25
1.5	112M	700	77.2	0.69	3.9	4.5	20.5	2.0	2.5	0.0245	28
2.2	132S	715	81.9	0.73	5.1	5.3	29.4	2.1	2.8	0.0314	45
3.0	132M	715	83.0	0.75	6.7	5.6	40.1	2.3	2.9	0.0395	55

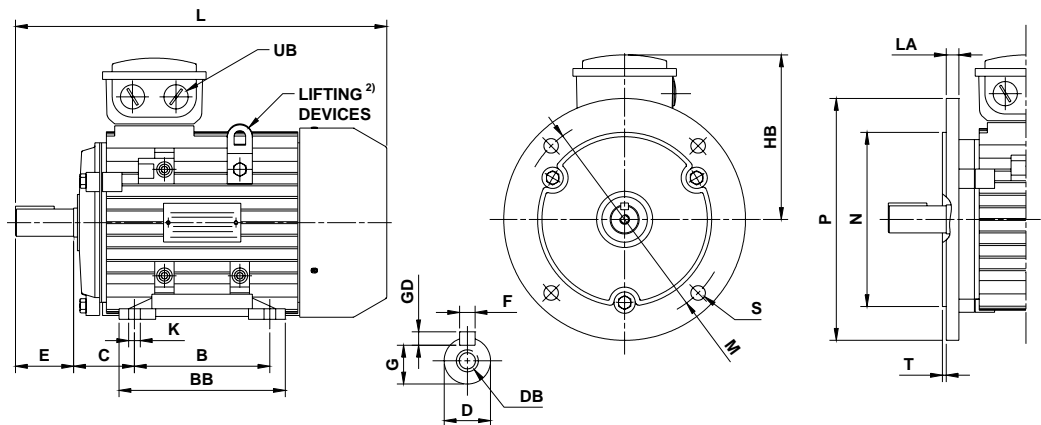
Dimensional drawings

Size 63 – 132

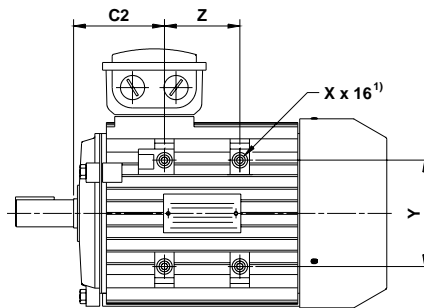
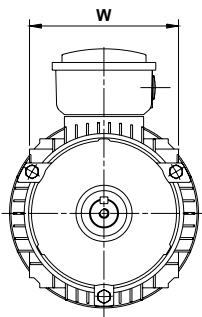
Foot mount, B3



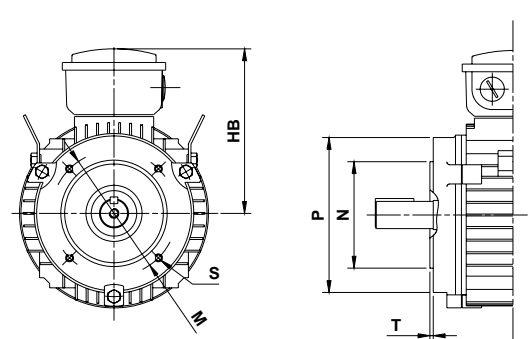
Large flange mount, B5



Multi-mount feature. B0



Small flange (face), B14



B3 (IM1001)

Motor frame	A	AA	AB	AC	B	BB	C	D	DB	E	F	GD	G	H	HA	HD	K	KA	L	UB
63	100	24	123	120	80	100	40	11	M4	23	4	4	8.5	63	7	186	7	9.5	220	1xM20
71	112	26	137	137	90	110	45	14	M5	30	5	5	11	71	8	201	7	11	244	1xM20
80	125	35	157	158	100	125	50	19	M6	40	6	6	15.5	80	9	225	10	14	289	1xM20
90S	140	37	173	178	100	125	56	24	M8	50	8	7	20	90	10	247	10	14	313	2xM20
90L	140	37	173	178	125	150	56	24	M8	50	8	7	20	90	10	247	10	14	338	2xM20
100L	160	40	197	198	140	172	63	28	M10	60	8	7	24	100	12	270	12	16	384	2xM20
112M	190	41	227	221	140	180	70	28	M10	60	8	7	24	112	12	304	12	16	402	2xM25
132S	216	51	262	260	140	186	89	38	M12	80	10	8	33	132	16	343	12	16	485	2xM25
132M	216	51	262	260	178	224	89	38	M12	80	10	8	33	132	16	343	12	16	518	2xM25

B5 (IM3001)

Motor frame	HB	LA	M	N	P	S	T
63	123	10	115	95	140	10	3
71	130	10	130	110	160	10	3.5
80	145	12	165	130	200	12	3.5
90S	157	12	165	130	200	12	3.5
90L	157	12	165	130	200	12	3.5
100L	170	14	215	180	250	15	4.0
112M	192	14	215	180	250	15	4.0
132S	211	14	265	230	300	15	4.0
132M	211	14	265	230	300	15	4.0

B14A (IM3601)

Motor frame	HB	M	N	P	S	T
63	123	75	60	90	M5	2.5
71	130	85	70	105	M6	2.5
80	145	100	80	120	M6	3.0
90S	157	115	95	140	M8	3.0
90L	157	115	95	140	M8	3.0
100L	170	130	110	160	M8	3.5
112M	192	130	110	160	M8	3.5
132S	211	165	130	200	M10	3.5
132M	211	165	130	200	M10	3.5

B0 (multi-mount)

Motor frame	C2	W	X ¹⁾	Y	Z
63	62.5	94	M5	70	35
71	71	109	M6	78	38
80	79	122	M8	88	42
90S	85	134	M8	94	42
90L	85	134	M8	94	67
100L	94	154	M8	110	78
112M	104	170	M10	120	72
132S	123	206	M10	154	72
132M	123	206	M10	154	110

¹⁾ 16 Multi-mount mounting pads, 12 tapped or have provision for tapping.

²⁾ Lifting devices on frames 100 to 132.