



Frame size	A	B	C	D	E	F	G	K	M	N	P	S	T	M	N	P	S	T	M	N	P	S	T	M	N	P	S	T	AB	BB	AC	AD	HD	L
	IM B14									IM B14L					IM B5					IM B5R														
56	90	71	36	9	20	3	7.2	5.8	65	50	80	M5	2.5	85	70	105	M6	2.5	100	80	120	7	3	85	70	105	8	2.5	108	89	110	100	156	195
63	100	80	40	11	23	4	8.5	7	75	60	90	M5	2.5	100	80	120	M6	3	115	95	140	10	3	100	80	120	8	3	120	103	120	109	172	213
71	112	90	45	14	30	5	11	7	85	70	105	M6	2.5	115	95	140	M8	3	130	110	160	10	3.5	115	95	140	10	3	132	104	139	119	189	255
80	125	100	50	19	40	6	15.5	10	100	80	120	M6	3	130	110	160	M8	3.5	165	130	200	12	3.5	130	110	160	10	3.5	160	124	151	135	215	301
90S	140	100	56	24	50	8	20	10	115	95	140	M8	3	130	110	160	M8	3.5	165	130	200	12	3.5	130	110	160	10	3.5	177	125	175	145	235	308
90L	140	125	56	24	50	8	20	10	115	95	140	M8	3	130	110	160	M8	3.5	165	130	200	12	3.5	130	110	160	10	3.5	177	150	175	145	235	360
100L	160	140	63	28	60	8	24	12	130	110	160	M8	3.5	165	130	200	M10	3.5	215	180	250	14.5	4	165	130	200	12	3.5	196	170	196	155	255	372
112M	190	140	70	28	60	8	24	12	130	110	160	M8	3.5	165	130	200	M10	3.5	215	180	250	14.5	4	165	130	200	12	3.5	218	183	219	173	286	394
132S	216	140	89	38	80	10	33	12	165	130	200	M10	3.5	215	180	250	M12	4	265	230	300	14.5	4	215	180	250	14.5	4	252	175	258	192	324	462
132M	216	178	89	38	80	10	33	12	165	130	200	M10	3.5	215	180	250	M12	4	265	230	300	14.5	4	215	180	250	14.5	4	252	218	258	192	324	529
160M	254	210	108	42	110	12	37	15	215	180	250	M12	4						300	250	350	18.5	5	265	230	300	14.5	4	302	304	314	246	406	617
160L	254	254	108	42	110	12	37	15	215	180	250	M12	4						300	250	350	18.5	5	265	230	300	14.5	4	302	304	314	246	406	661

Aluminium three-phase squirrel cage induction motors according to IEC/DIN, multi-mount design with removable feet.

Voltage 220-240/380-420V or 380-420/660-720V, 50Hz, Insulation class F, Class B Temperature rise, Protection IP55, PTC Fitted as standard, Colour RAL 5010. NSK Bearings and Cast iron drive end shield frame 100 and above.

Flange motors B5, B14 small available up to and including size 160. B14 large to 132.

Available in IE1, IE2 and IE3 efficiency. CUS/UL in IE3.

## AMA Bearings, Oil seals & Gland sizes

Frame size	Poles	Bearing Drive end	Bearing Non-drive end	Oil seal Drive end	Oil seal Non-drive end	Gland size	
AMA	56	2-4	6201	6201	12x22x5	12x22x5	M16 x 1.5
AMA	63	2-4	6201	6201	12x24x7	12x24x7	M20 x 1.5
AMA	71	2-8	6202	6202	15x28x7	15x28x7	M20 x 1.5
AMA	80	2-8	6204	6204	20x34x7	20x34x7	M20 x 1.5
AMA	90	2-8	6205	6205	25x37x7	25x37x7	M20 x 1.5
AMA	100	2-8	6206	6206	30x44x7	30x44x7	M20 x 1.5
AMA	112	2-8	6306	6306	30x44x7	30x44x7	M25 x 1.5
AMA	132	2/4-8	6308 / 6308	6208 / 6308	40x58x8	40x58x8	M25 x 1.5
AMA	160	2/4-8	6209 / 6309	6209 / 6209	45x62x8	45x62x8	M32 x 1.5

# AMA IE1 & IE2 (Aluminium) : 2 - Pole - 3000 min<sup>-1</sup> *AMTECS*

Frame size	Rated output power	Rated current at			Full-load speed rpm	Full-load power factor	Full-load efficiency	Full-load torque	Starting current	Starting torque	Pull-out torque	Sound pressure level	Weight foot mounted
		P <sub>N</sub> (KW)	220V I <sub>N</sub> (A)	400V I <sub>N</sub> (A)									
AMA-IE1 56 K2	0.09	0.54	0.31		2758	0.68	62	0.31	5.5	2.2	2.3	49	3.2
AMA-IE1 56 G2	0.12	0.63	0.36		2780	0.71	67	0.41	5.5	2.2	2.3	49	3.4
AMA-IE1 63 K2	0.18	0.87	0.55		2715	0.75	69	0.63	5.5	2.2	2.3	52	4
AMA-IE1 63 G2	0.25	1.14	0.66		2715	0.81	68	0.88	5.5	2.2	2.3	52	4.5
AMA-IE1 71 K2	0.37	1.64	0.94		2690	0.81	70	1.31	6.5	2.2	2.2	54	6
AMA-IE1 71 G2	0.55	2.31	1.33		2715	0.82	73	1.93	6.5	2.2	2.3	54	6.5
AMA-IE2 80 K2	0.75	2.91	1.68		2875	0.93	77.4	2.49	5.30	2.5	3	58	12
AMA-IE2 80 G2	1.1	4.10	2.37		2875	0.84	79.6	3.65	7.00	3.2	3.8	58	13.5
AMA-IE2 90 S2	1.5	5.47	3.16		2890	0.84	81.3	4.96	7.10	2.7	3.5	62	17.5
AMA-IE2 90 L2	2.2	7.76	4.48		2890	0.85	83.2	7.27	6.90	2.4	3	62	22
AMA-IE2 100 L2	3	10.15	5.86		2891	0.87	84.6	9.91	8.00	3.2	4	65	29
AMA-IE2 112 M2	4	13.23	7.64	4.41	2914	0.88	85.8	13.11	7.50	2.5	3	67	32
AMA-IE2 132 S2	5.5		10.6	6.12	2937	0.86	87.0	17.88	7.50	2.7	3.5	70	47.5
AMA-IE2 132 Sx2	7.5		13.9	8.03	2940	0.89	88.1	24.36	7.50	2.4	3.3	70	53
AMA-IE2 160 M2	11		19.9	11.49	2930	0.89	89.4	35.85	7.60	2.2	2.9	71	96
AMA-IE2 160 Mx2	15		26.9	15.53	2930	0.89	90.3	48.89	7.60	2.3	3	71	105
AMA-IE2 160 L2	18.5		33.0	19.05	2937	0.89	90.9	60.15	7.40	2.3	3.1	71	115

# AMA IE1 & IE2 (Aluminium) : 4 - Pole - 1500 min<sup>-1</sup> *AMTECS*

Frame size	Rated output power	Rated current at			Full-load speed rpm	Full-load power factor	Full-load efficiency	Full-load torque	Starting current	Starting torque	Pull-out torque	Sound pressure level	Weight foot mounted
		P <sub>N</sub> (KW)	220V I <sub>N</sub> (A)	400V I <sub>N</sub> (A)									
AMA-IE1 56 K4	0.06	0.57	0.33		1371	0.56	46	0.42	4.4	2.1	2.2	41	3.5
AMA-IE1 56 G4	0.09	0.79	0.45		1350	0.56	49	0.64	4.4	2.1	2.2	41	3.9
AMA-IE1 63 K4	0.12	0.85	0.49		1350	0.64	53	0.85	4.4	2.1	2.2	41	4
AMA-IE1 63 G4	0.18	1.20	0.70		1340	0.66	56	1.28	4.4	2.1	2.2	41	5.3
AMA-IE1 71 K4	0.25	1.30	0.75		1390	0.74	65	1.72	5.2	2.1	2.2	45	6.5
AMA-IE1 71 G4	0.37	1.85	1.06		1375	0.75	67	2.57	5.2	2.1	2.2	45	7
AMA-IE1 80 K4	0.55	2.59	1.49		1370	0.75	71	3.83	5.2	2.1	2.3	49	10.3
AMA-IE2 80 G4	0.75	3.08	1.78		1400	0.76	79.6	5.12	5	2.4	2.9	49	14.5
AMA-IE2 90 S4	1.10	4.38	2.53		1400	0.77	81.4	7.3	6	3	3.5	54	18.5
AMA-IE2 90 L4	1.50	5.87	3.39		1445	0.77	82.8	9.91	6.8	3.2	3.8	54	21
AMA-IE2 100 L4	2.20	8.04	4.64		1440	0.81	84.3	14.6	7	3	3.5	56	31
AMA-IE2 100Lx4	3.00	10.70	6.18		1440	0.82	85.5	19.9	7	2.6	3.3	56	37
AMA-IE2 112 M4	4.00	14.06	8.12	4.69	1445	0.82	86.6	26.4	7.5	3.5	4	58	42
AMA-IE2 132 S4	5.50		10.9	6.29	1455	0.83	87.7	36.1	6.4	2.2	2.8	61	52.5
AMA-IE2 132 M4	7.50		14.5	8.37	1455	0.84	88.7	49.2	7	2.4	3	61	64
AMA-IE2 160 M4	11.0		21.0	12.12	1460	0.84	89.8	71.9	6.9	2.5	2.9	63	99
AMA-IE2 160 L4	15.0		28.1	16.22	1460	0.85	90.6	98.1	7.5	2.5	3	63	114
AMA-IE2 160 Lx4	18.5		34.6	20	1470	0.85	90.5	120	7.5	2.2	2.2	69	130

# AMA IE1 & IE2 (Aluminium) : 6 - Pole - 1000 min<sup>-1</sup> *AMTECS*

Frame size	Rated output power	Rated current at			Full-load speed rpm	Full-load power factor	Full-load efficiency	Full-load torque	Starting current	Starting torque	Pull-out torque	Sound pressure level	Weight foot mounted
		P <sub>N</sub> (KW)	220V I <sub>N</sub> (A)	400V I <sub>N</sub> (A)									
AMA-IE1 63 K6	0.09	0.89	0.51		830	0.67	38	1.04	4	1.7	2	42	5.3
AMA-IE1 63 G6	0.12	1.02	0.58		830	0.68	40	1.38	4	1.7	2	42	6
AMA-IE1 71 K6	0.18	1.22	0.70		880	0.63	59	1.95	4	1.9	2	42	6.3
AMA-IE1 71 G6	0.25	1.56	0.90		900	0.68	59	2.65	4	1.9	2	42	6.7
AMA-IE1 80 K6	0.37	2.14	1.23		915	0.7	62	3.86	4.7	1.9	2	49	8.8
AMA-IE1 80 G6	0.55	2.95	1.70		920	0.72	65	5.71	4.7	1.9	2.1	49	10
AMA-IE2 90 S6	0.75	3.43	1.98		934	0.72	75.9	7.67	4.5	2.2	2.4	51	18.5
AMA-IE2 90 L6	1.10	4.88	2.82		945	0.72	78.1	11.1	4.5	2.4	2.6	51	21
AMA-IE2 100 L6	1.50	6.25	3.61		945	0.75	79.8	15.2	4.5	1.8	2.2	53	28.5
AMA-IE2 112 M6	2.20	8.83	5.10		960	0.76	81.8	21.9	4.5	2.3	2.8	58	33.5
AMA-IE2 132 S6	3.00	11.83	6.83		964	0.76	83.3	29.7	4.5	1.8	2.4	58	44
AMA-IE2 132 M6	4.00	15.5	8.96	5.17	965	0.76	84.6	39.6	5	2.9	2.7	59	53
AMA-IE2 132 Mx6	5.50		12	6.93	965	0.77	86.0	54.4	5.5	1.9	2.8	61	63.5
AMA-IE2 160 M6	7.50		15.9	9.18	970	0.78	87.2	73.8	6.5	2	3	61	100
AMA-IE2 160 L6	11.0		22.9	13.22	970	0.78	88.7	108.3	7.5	2.4	3.3	62	113

# AMA IE1 (Aluminium) : 8 - Pole - 750 min<sup>-1</sup> *AMTECS*

Frame size	Rated output power	Rated current at			Full-load speed rpm	Full-load power factor	Full-load efficiency	Full-load torque	Starting current	Starting torque	Pull-out torque	Sound pressure level	Weight foot mounted
		P <sub>N</sub> (KW)	220V I <sub>N</sub> (A)	400V I <sub>N</sub> (A)									
AMA-IE1 71 K8	0.09	0.84	0.48		680	0.55	49	1.26	3.3	1.8	1.9	44	6.5
AMA-IE1 71 G8	0.12	1.10	0.63		690	0.55	50	1.66	3.3	1.8	1.9	44	7
AMA-IE1 80 K8	0.18	1.61	0.93		680	0.55	51	2.53	3.3	1.8	1.9	44	9.5
AMA-IE1 80 G8	0.25	1.91	1.10		680	0.61	54	3.51	3.3	1.8	1.9	44	11.5
AMA-IE1 90 S8	0.37	2.46	1.41		680	0.61	62	5.2	4	1.8	1.9	49	14.6
AMA-IE1 90 L8	0.55	3.59	2.07		700	0.61	63	7.5	4	1.8	2	49	17.6
AMA-IE1 100 L8	0.75	3.96	2.28		700	0.67	71	10.23	4	1.8	2	49	19.5
AMA-IE1 100 Lx8	1.10	5.48	3.15		710	0.69	73	14.80	5	1.8	2	49	21
AMA-IE1 112 M8	1.50	7.28	4.18		710	0.69	75	20.18	5	1.8	2	54	30
AMA-IE1 132 S8	2.20	9.97	5.73		720	0.71	78	29.18	6	1.8	2	58	51
AMA-IE1 132 M8	3.00	13.06	7.51		720	0.73	79	39.79	6	1.8	2	58	56
AMA-IE1 160 M8	4.00	16.8	9.7	5.6	720	0.73	81	53.1	6	2	2	59	60
AMA-IE1 160 Mx8	5.50		12.9	7.4	720	0.74	83	73.0	6	2	2	60	70
AMA-IE1 160 L8	7.50		16.8	9.7	720	0.75	85.5	99.5	6	2	2	60	87
AMA-IE1 160 Lx4	18.5		34.6	20	1470	0.85	90.5	120	7.5	2.2	2.2	69	130

# AMA IE3 (Aluminium) : 2 - Pole - 3000 min<sup>-1</sup>

AMTECS

Frame size	Rated output power	Rated current at			Full-load speed rpm	Full-load power factor	Full-load efficiency	Full-load torque	Starting current	Starting torque	Pull-out torque	Sound pressure level	Weight foot mounted
		P <sub>N</sub> (KW)	220V I <sub>N</sub> (A)	400V I <sub>N</sub> (A)									
AMA-IE3 80 K2	0.75	2.77	1.6		2880	0.83	80.7	2.49	5.5	1.8	3.5	58	13.5
AMA-IE3 80 G2	1.1	3.98	2.3		2880	0.83	82.7	3.68	7.5	2.6	3.5	58	15
AMA-IE3 90 S2	1.5	5.37	3.1		2895	0.83	84.2	4.95	7.1	2.6	3.5	62	19
AMA-IE3 90 L2	2.2	7.45	4.3		2895	0.85	95.9	7.26	7	2	3	62	21.5
AMA-IE3 100 L2	3	9.70	5.6		2895	0.88	87.1	9.9	8.6	2	3.2	65	30.5
AMA-IE3 112 M2	4	12.82	7.4	4.27	2905	0.88	88.1	13.1	8	1.8	2.9	67	34
AMA-IE3 132 S2	5.5		10	5.77	2930	0.88	98.2	17.9	7.5	2.1	2.5	70	49.5
AMA-IE3 132 Sx2	7.5		14	8.08	2930	0.88	90.1	24.4	7.3	2	3.5	70	55
AMA-IE3 160 M2	11		19	10.97	2945	0.90	91.2	35.7	7.3	2.3	2.6	71	99
AMA-IE3 160 Mx2	15		26	15.01	2945	0.91	91.9	48.6	7	1.9	2.3	71	108
AMA-IE3 160 L2	18.5		32	18.48	2940	0.89	92.4	60.1	7	1.6	2.5	71	118

# AMA IE3 (Aluminium) : 4 - Pole - 1500 min<sup>-1</sup>

AMTECS

Frame size	Rated output power	Rated current at			Full-load speed rpm	Full-load power factor	Full-load efficiency	Full-load torque	Starting current	Starting torque	Pull-out torque	Sound pressure level	Weight foot mounted
		P <sub>N</sub> (KW)	220V I <sub>N</sub> (A)	400V I <sub>N</sub> (A)									
AMA-IE3 80 G4	0.75	3.07	1.77		1420	0.74	82.5	5.0	6	2.9	3.6	49	16
AMA-IE3 90 S4	1.10	4.42	2.55		1445	0.74	84.1	7.3	6.5	2.7	3.8	54	20
AMA-IE3 90 L4	1.50	5.94	3.43		1445	0.74	85.3	9.9	6.8	3.0	3.6	54	22.5
AMA-IE3 100 L4	2.20	8.11	4.68		1435	0.78	86.7	14.6	7	2.5	3.5	56	32.5
AMA-IE3 100Lx4	3.00	10.95	6.32		1435	0.78	87.7	20.0	7.2	2.6	3.5	56	38.5
AMA-IE3 112 M4	4.00	14.10	8.14	4.70	1440	0.80	88.6	26.5	7	2.3	3.2	58	44
AMA-IE3 132 S4	5.50		11.1	6.41	1460	0.80	89.6	36.0	7	2.7	3.5	61	54.5
AMA-IE3 132 M4	7.50		14.6	8.43	1460	0.82	90.4	49.1	7.1	2.7	3.8	61	66
AMA-IE3 160 M4	11.0		21.2	12.24	1465	0.82	91.4	71.7	7.2	1.9	2.3	63	102
AMA-IE3 160 L4	15.0		28.6	16.51	1465	0.82	92.1	97.8	6.8	1.8	2.4	63	117
AMA 160 Lx4	18.5		34.6	20	1470	0.85	90.5	120	7.5	2.2	2.2	69	130

# AMA IE3 (Aluminium) : 6 - Pole - 1000 min<sup>-1</sup>

AMTECS

Frame size	Rated output power	Rated current at			Full-load speed rpm	Full-load power factor	Full-load efficiency	Full-load torque	Starting current	Starting torque	Pull-out torque	Sound pressure level	Weight foot mounted
		P <sub>N</sub> (KW)	220V I <sub>N</sub> (A)	400V I <sub>N</sub> (A)									
AMA-IE3 90 S6	0.75	3.81	2.2		935	0.61	78.9	7.86	4.5	2.5	3.3	51	20
AMA-IE3 90 L6	1.10	4.85	2.8		945	0.69	81.0	11.1	4.4	1.7	3.3	51	22.5
AMA-IE3 100 L6	1.50	6.58	3.8		949	0.69	82.5	15.1	5	2.3	3	53	30
AMA-IE3 112 M6	2.20	9.18	5.3		955	0.71	84.3	22	5.5	2.6	3	58	35.5
AMA-IE3 132 S6	3.00	12.30	7.1		968	0.71	85.6	29.6	5.5	2	3.1	58	46
AMA-IE3 132 M6	4.00	16.28	9.4	5.43	968	0.71	86.8	39.5	5.7	2.1	2.6	59	55
AMA-IE3 132 Mx6	5.50		12	6.93	968	0.75	88.0	54.3	6	1.7	2.6	61	65.5
AMA-IE3 160 M6	7.50		16	9.24	970	0.77	89.1	73.8	5.9	1.7	2.5	61	103
AMA-IE3 160 L6	11.0		22	12.70	970	0.79	90.3	108.3	6	1.5	2.4	61	116



**B3 - Foot Mounted**



**B5 - Flange Mounted**



**B14S - Small Face Mounted**



**B3 - Foot Mounted  
(Side Terminal Box)**



**B35 - Foot and Flange**



**B34S - Foot and Small Face**



**B14L - Large Face Mounted**



**B34L - Foot and Large Face**



**V1 - Vertical Flange Mounted  
with Rain Canopy**

*Note: Other mounting arrangements and special shafts are available by request*