

Technical data, 400 V 50 Hz

IE3 Process performance aluminum motors

IP 55 - IC 411 - Insulation class F, temperature rise class B
IE3 efficiency class according to IEC 60034-30-1: 2014

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _S /I _N	T _N Nm	T _I /T _N				T _B /T _N
3000 r/min = 2 poles			400 V 50 Hz			CENELEC-design									
0.75	M3AA 80MB 2	3GAA081320-**-K	2894	80.7	80.4	77.2	0.74	1.74	7.9	2.4	3.7	4.2	0.0008	9.5	57
1.1	M3AA 80MC 2	3GAA081330-**-K	2883	82.7	82.4	80.6	0.81	2.3	7.9	3.6	3.7	4.2	0.001	10.5	56
1.5	M3AA 90LB 2	3GAA091520-**-K	2906	84.2	84.8	84.7	0.89	2.8	7.9	4.9	2.3	3.3	0.0027	17	60
2.2	M3AA 90LC 2	3GAA091530-**-K	2900	85.9	87.4	87.5	0.89	4	8.3	7.2	2.9	3.5	0.0032	20	60
3	M3AA 100LC 2	3GAA101530-**-K	2896	87.1	88.2	88.0	0.90	5.4	8.4	9.8	3.2	3.9	0.0057	28	62
4	M3AA 112MB 2	3GAA111320-**-K	2888	88.1	89.4	89.6	0.91	7.1	8.4	13.2	3.2	4.0	0.0104	38	68
5.5	M3AA 132SB 2	3GAA131120-**-K	2901	89.2	89.9	90.1	0.91	9.7	7.9	18.1	2.3	3.4	0.0154	58	68
7.5	M3AA 132SC 2	3GAA131130-**-K	2909	90.1	91.2	91.4	0.90	13.1	8.3	24.6	3.0	3.9	0.0173	63	70
11	M3AA 160MLA 2	3GAA161410-**-K	2943	91.2	92.0	91.6	0.91	19.1	7.2	35.57	2.6	3.6	0.057	106	69
15	M3AA 160MLB 2	3GAA161420-**-K	2947	91.9	92.2	91.8	0.88	26.7	8.2	48.6	3.2	4.2	0.063	123	69
18.5	M3AA 160MLC 2	3GAA161430-**-K	2949	92.4	93.0	92.6	0.90	32.1	9.0	59.9	3.3	3.9	0.076	137	73
22	M3AA 180MLA 2	3GAA181410-**-K	2956	92.7	93.1	92.7	0.90	37.7	7.8	71.0	3.0	3.8	0.11	176	73
30	M3AA 200MLA 2	3GAA201410-**-K	2962	93.3	93.5	92.8	0.87	53.2	7.6	96.8	3.1	3.8	0.159	225	72
37	M3AA 200MLB 2	3GAA201420-**-K	2961	93.7	94.1	93.8	0.88	64.4	8.2	119	3.0	3.3	0.196	241	72
45	M3AA 225SMA 2	3GAA221210-**-K	2968	94.0	94.0	93.0	0.87	79.6	7.3	145	3.2	3.1	0.296	326	76
55	M3AA 250SMA 2	3GAA251210-**-K	2968	94.3	93.7	93.6	0.89	94.8	6.8	177	2.4	3.0	0.426	351	76

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _S /I _N	T _N Nm	T _I /T _N				T _B /T _N
3000 r/min = 2 poles			400 V 50 Hz			High-output design									
2.75	M3AA 90LD 2	3GAA091540-**-K	2872	87.1	88.2	88.0	0.83	5.4	7.5	9.1	4.4	5.0	0.00407	20	65
4	M3AA 100LD 2	3GAA101540-**-K	2910	88.1	89.7	89.7	0.91	7.12	8.6	13.1	3.9	4.8	0.00787	40	67
5.5	M3AA 112MC 2	3GAA111330-**-K	2909	89.2	90.6	90.8	0.91	9.67	8.6	18.1	4.3	5.5	0.0132	48	73
9.2	M3AA 132SD 2	3GAA131140-**-K	2910	90.7	91.7	91.7	0.90	15.9	8.2	29.9	3.4	4.3	0.0168	71	75
11	M3AA 132SME 2	3GAA131250-**-K	2922	91.2	91.8	91.5	0.90	19.8	10.6	36.0	4.5	5.4	0.0231	90	75
15	M3AA 132SMF 2	3GAA131260-**-K	2908	91.9	93.2	93.5	0.91	25.8	9.8	49.3	4.4	5.5	0.023	90	75
22	M3AA 160MLD 2	3GAA161440-**-K	2944	92.7	93.5	93.4	0.90	38	8.4	71.4	3.2	3.7	0.071	131	74
30	M3AA 180MLB 2	3GAA181420-**-K	2957	93.3	94.0	93.9	0.88	52.7	8.7	96.9	3.0	3.8	0.104	162	74
37 ¹⁾	M3AA 180MLC 2	3GAA181430-**-K	2950	93.7	94.2	94.2	0.86	66	8.4	119.5	3.4	4.4	0.117	176	74
45	M3AA 200MLC 2	3GAA201430-**-K	2956	94.0	94.6	94.8	0.89	77.2	7.8	145.2	2.9	3.3	0.216	250	77
55	M3AA 225SMB 2	3GAA221220-**-K	2964	94.3	94.4	93.9	0.86	97.4	7.2	177.3	3.14	3.22	0.299	288	79
75 ¹⁾	M3AA 225SMC 2	3GAA221230-**-K	2966	94.7	95	94.7	0.86	132	7.5	241.7	3.08	3.06	0.361	328	79
75 ¹⁾	M3AA 250SMB 2	3GAA251220-**-K	2971	94.7	95.1	94.8	0.90	127	7.9	241.1	2.8	3.3	0.644	405	81
90 ¹⁾	M3AA 250SMC 2	3GAA251230-**-K	2975	95	95.2	94.6	0.87	156	8.5	288.6	2.91	3.6	0.514	414	81

¹⁾ Temperature rise class F

Technical data, 400 V 50 Hz

IE3 Process performance aluminum motors

IP 55 - IC 411 - Insulation class F, temperature rise class B
IE3 efficiency class according to IEC 60034-30-1: 2014

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _s /I _N	T _N Nm	T _I /T _N				T _B /T _N
1500 r/min = 4 poles			400 V 50 Hz					CENELEC-design							
0.75	M3AA 80ME 4	3GAA082350-..K	1440	82.5	82.4	80.2	0.76	1.68	7.9	4.9	3.3	3.7	0.0027	13.5	54
1.1	M3AA 90LC 4	3GAA092530-..K	1442	84.1	83.5	81.7	0.80	2.3	7.9	7.2	3.3	3.9	0.0055	19	56
1.5	M3AA 90LD 4	3GAA092540-..K	1439	85.3	84.7	82.8	0.78	3.2	8.2	9.9	3.5	4.0	0.0055	19	51
2.2	M3AA 100LE 4	3GAA102550-..K	1454	86.7	87.1	86.0	0.83	4.3	8.9	14.5	3.1	4.1	0.0144	36	54
3	M3AA 100LF 4	3GAA102560-..K	1452	87.7	88.1	87.1	0.83	5.9	9.0	19.7	3.5	4.2	0.0144	36	54
4	M3AA 112MB 4	3GAA112320-..K	1451	88.6	89.4	89.0	0.77	8.6	7.6	26.3	3.1	4.1	0.018	44	59
5.5	M3AA 132MB 4	3GAA132320-..K	1464	89.6	90.2	89.5	0.78	11.4	7.0	35.9	2.8	3.9	0.0295	68	70
7.5	M3AA 132MC 4	3GAA132330-..K	1464	90.4	90.8	90.7	0.81	14.7	7.7	48.9	2.5	3.6	0.0414	68	64
11	M3AA 160MLA 4	3GAA162410-..K	1477	91.4	91.8	91.1	0.82	21.1	7.6	71.3	2.6	3.3	0.11	126	61
15	M3AA 160MLB 4	3GAA162420-..K	1474	92.1	92.2	91.3	0.81	29	7.8	97.2	3.0	3.6	0.135	140	61
18.5	M3AA 180MLA 4	3GAA182410-..K	1481	92.6	93.2	92.9	0.83	34.9	7.2	119.3	2.8	3.0	0.219	177	60
22	M3AA 180MLB 4	3GAA182420-..K	1480	93.0	93.8	93.8	0.82	41.5	8.2	141.0	2.8	3.1	0.217	176	62
30	M3AA 200MLA 4	3GAA202410-..K	1481	93.6	93.9	93.4	0.84	55	7.5	193.4	2.7	3.2	0.385	246	63
37	M3AA 225SMA 4	3GAA222210-..K	1481	93.9	94.1	93.4	0.82	69.8	8.0	235.4	3.3	3.5	0.433	315	67
45	M3AA 225SMB 4	3GAA222220-..K	1482	94.2	94.4	94.0	0.84	82.3	8.0	290.0	3.1	3.5	0.525	316	66
55	M3AA 250SMA 4	3GAA252210-..K	1485	94.6	95.2	94.9	0.85	97.8	7.9	353.0	3.0	3.3	0.933	376	67

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _s /I _N	T _N Nm	T _I /T _N				T _B /T _N
1500 r/min = 4 poles			400 V 50 Hz					High-output design							
5.5	M3AA 112MC 4	3GAA112330-..K	1454	89.6	90.0	88.6	0.78	11.2	8.0	39.2	3.9	4.3	0.0234	50	64
9.2	M3AA 132MD 4	3GAA132340-..K	1464	91.0	91.7	91.3	0.80	18	8.5	60	3.0	4.0	0.0392	65	75
11	M3AA 132SME 4	3GAA132250-..K	1464	91.4	92.0	91.6	0.79	21.8	8.2	71.56	3.1	4.1	0.0468	88	75
15	M3AA 132SMF 4	3GAA132260-..K	1464	92.1	92.6	92.1	0.79	29.7	9.0	97.52	3.4	4.5	0.0545	88	75
18.5	M3AA 160MLC 4	3GAA162430-..K	1476	92.6	93.1	92.7	0.77	37.2	8.3	119.9	3.3	3.6	0.12	135	67
28	M3AA 180MLC 4	3GAA182430-..K	1482	93.4	93.3	92.3	0.77	56.5	8.2	180.4	3.0	3.6	0.191	176	62
37	¹⁾ M3AA 200MLB 4	3GAA202420-..K	1482	93.9	94.1	93.7	0.82	69.3	7.8	237.9	3.1	3.3	0.362	244	68
53	M3AA 225SMC 4	3GAA222230-..K	1483	94.5	94.7	94.2	0.83	97	8.7	341.34	3.15	3.41	0.532	318	71
75	M3AA 250SMB 4	3GAA252220-..K	1483	95.0	95.3	95.0	0.82	139	7.8	485.8	3.28	3.46	0.796	389	73

¹⁾ Temperature rise class F

Technical data, 400 V 50 Hz

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IP 55 - IC 411 - Insulation class F, temperature rise class B
IE3 efficiency class according to IEC 60034-30-1: 2014

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _S /I _N	T _N Nm	T _I /T _N				T _B /T _N
1000 r/min = 6 poles			400 V 50 Hz					CENELEC-design							
0.75	M3AA 90LD 6	3GAA093540-**K	937	78.9	79.6	77.3	0.76	1.78	4.6	7.6	2.1	2.3	0.0055	19	55
1.1	M3AA 100LE 6	3GAA103550-**K	963	81.0	82.2	81.0	0.69	2.6	5.6	10.9	2.3	3.1	0.0138	35	49
1.5	M3AA 100LF 6	3GAA103560-**K	969	82.5	81.4	77.5	0.65	3.7	7.0	14.7	3.3	4.1	0.0138	35	49
2.2	M3AA 112MC 6	3GAA113330-**K	967	84.3	85.2	84.1	0.69	5.2	6.5	21.7	2.4	3.5	0.0187	43	68
3	M3AA 132MC 6	3GAA133330-**K	978	85.6	86.0	84.5	0.69	7	6.2	29.2	2.0	3.0	0.0402	66	61
4	M3AA 132MD 6	3GAA133340-**K	973	86.8	87.7	87.5	0.72	9.1	5.6	39.2	1.9	2.7	0.0402	67	61
5.5	M3AA 132ME 6	3GAA133350-**K	973	88.0	88.8	88.2	0.74	12	5.8	53.9	2.0	2.9	0.039	63	61
7.5	M3AA 160MLA 6	3GAA163410-**K	980	89.1	89.9	89.3	0.78	15.2	7.9	73.0	1.7	3.3	0.114	125	59
11	M3AA 160MLB 6	3GAA163420-**K	979	90.3	90.9	90.2	0.74	23.5	8.5	107.0	2.2	3.9	0.131	139	59
15	M3AA 180MLA 6	3GAA183410-**K	987	91.2	91.5	90.5	0.77	30.4	5.5	146.0	1.7	2.7	0.225	175	59
18.5	M3AA 200MLA 6	3GAA203410-**K	990	91.7	92.1	91.5	0.77	37.3	7.5	178.0	2.6	3.2	0.448	218	63
22	M3AA 200MLB 6	3GAA203420-**K	990	92.2	92.7	92.0	0.79	43	7.8	212.0	2.6	3.2	0.531	245	63
30	M3AA 225SMA 6	3GAA223210-**K	989	92.9	93.6	93.3	0.81	56.8	7.9	289.0	2.8	3.1	0.813	310	63
37	M3AA 250SMA 6	3GAA253210-**K	991	93.3	93.9	93.6	0.83	68	7.7	356.0	2.7	2.9	1.49	367	63

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _S /I _N	T _N Nm	T _I /T _N				T _B /T _N
1000 r/min = 6 poles			400 V 50 Hz					High-output design							
18.5	M3AA 180MLB 6	3GAA183420-**K	980	91.7	92.1	91.5	0.72	40.3	6.8	180	2.3	3.2	0.191	168	65
37	M3AA 225SMB 6	3GAA223220-**K	985	93.3	93.6	93.0	0.80	71.5	7.0	358.7	2.7	3.0	0.813	307	68
45	M3AA 250SMB 6	3GAA253220-**K	991	93.7	93.8	93.1	0.79	87.3	8.0	433.2	3.1	3.2	1.33	389	68

Technical data, 400 V 50 Hz

IE2 Process performance aluminum motors

IP 55 - IC 411 - Insulation class F, temperature rise class B
IE2 efficiency class according to IEC 60034-30-1: 2014

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _S /I _N	T _N Nm	T _I /T _N				T _B /T _N
3000 r/min = 2 poles			400 V 50 Hz					CENELEC-design							
0.09	M3AA 56A 2	3GAA051311---F	2800	55.6	50.8	38.7	0.67	0.35	3.5	0.29	2.4	2.6	0.0001	2.8	56
0.12	M3AA 56B 2	3GAA051312---F	2830	53.6	49.3	37.2	0.68	0.41	4.3	0.4	2.5	2.8	0.00013	2.9	57
0.18	M3AA 63A 2	3GAA061311---F	2790	60.4	57.8	49.5	0.75	0.51	4.5	0.61	2.4	2.6	0.00015	3.7	60
0.25	M3AA 63B 2	3GAA061312---F	2790	64.8	63.2	56.7	0.76	0.66	4.8	0.86	2.8	2.7	0.00017	4.1	61
0.37	M3AA 71A 2	3GAA071311---E	2785	69.5	70.8	67.8	0.79	0.91	4.6	1.26	2.5	2.8	0.0004	4.9	58
0.55	M3AA 71B 2	3GAA071312---E	2790	74.1	75.4	73.4	0.79	1.29	5.1	1.88	3.1	3.1	0.0005	5.9	58
0.75	M3AA 80B 2	3GAA081312---E	2895	80.6	80.4	77.3	0.79	1.7	8.1	2.4	3.7	3.9	0.0009	10.5	60
1.1	M3AA 80C 2	3GAA081313---E	2875	80.6	80.4	77.9	0.80	2.4	7.8	3.6	3.6	3.5	0.0012	11	60
1.5	M3AA 90L 2	3GAA091500---E	2900	84.1	85.0	83.5	0.86	2.9	7.6	4.9	2.5	3.3	0.0024	16	60
2.2	M3AA 90LB 2	3GAA091520---E	2870	84.6	85.7	85.0	0.86	4.4	6.9	7.3	2.8	3.2	0.0027	18	63
3	M3AA 100LB 2	3GAA101520---E	2920	86.4	86.1	84.0	0.86	5.8	9.3	9.8	3.3	3.9	0.005	25	62
4	M3AA 112MB 2	3GAA111320---E	2885	86.1	87.0	88.0	0.88	7.6	7.6	13.2	2.5	2.8	0.0062	30	68
5.5	M3AA 132SB 2	3GAA131120---E	2915	88.0	88.2	86.9	0.82	11	7.9	18	2.6	3.6	0.016	52	73
7.5	M3AA 132SC 2	3GAA131130---E	2915	88.5	89.2	88.6	0.88	13.6	7.6	24.5	2.2	3.2	0.022	52	73
11	M3AA 160MLA 2	3GAA161410---G	2938	90.6	91.5	91.1	0.90	19.2	7.5	35.7	2.4	3.1	0.044	91	69
15	M3AA 160MLB 2	3GAA161420---G	2934	91.5	92.5	92.2	0.90	26	7.5	48.8	2.5	3.3	0.053	105	69
18.5	M3AA 160MLC 2	3GAA161430---G	2932	92.0	93.1	93.1	0.92	31.5	7.5	60.2	2.9	3.4	0.063	123	69
22	M3AA 180MLA 2	3GAA181410---G	2952	92.2	92.8	92.2	0.87	39.5	7.7	71.1	2.8	3.3	0.076	132	69
30	²⁾ M3AA 200MLA 2	3GAA201410---G	2956	93.1	93.5	92.8	0.90	51.4	7.7	96.9	2.7	3.1	0.178	210	72
37	M3AA 200MLB 2	3GAA201420---G	2959	93.4	93.7	92.9	0.90	63.5	8.2	119	3.0	3.3	0.196	225	72
45	M3AA 225SMA 2	3GAA221210---G	2961	93.6	93.9	93.1	0.88	78.8	6.7	145	2.5	2.5	0.244	263	74
55	M3AA 250SMA 2	3GAA251210---G	2967	94.1	94.4	93.8	0.88	95.8	6.8	177	2.2	2.7	0.507	304	75

²⁾ Temperature rise class F

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IE2 Process performance aluminum motors

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Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _S /I _N	T _N Nm	T _I /T _N				T _B /T _N
3000 r/min = 2 poles			400 V 50 Hz					High-output design							
0.37	M3AA 63C 2	3GAA061313--F	2750	69.5	68.8	63.2	0.78	0.96	4.7	1.28	2.8	2.6	0.0002	4.6	59
11	M3AA 132SMF 2	3GAA131260--E	2900	90.3	90.5	89.4	0.87	20.2	8.5	36.2	2.7	3.7	0.0186	77	68
15	M3AA 132SMG 2	3GAA131270--E	2905	90.4	90.8	90.0	0.84	28.5	9.1	49.3	3.3	4.0	0.02	81	69
18.5	M3AA 132SMJ 2	3GAA131290--E	2895	91.1	92.0	92.1	0.89	32.9	9.7	61	3.2	4.3	0.0256	93	68
22	M3AA 160MLD 2	3GAA161440--G	2933	91.7	92.8	92.8	0.90	38	8.1	71.6	3.2	3.6	0.063	123	69
27	M3AA 160MLE 2	3GAA161450--G	2939	92.2	93.1	93.1	0.90	46.4	8.8	87.7	3.4	3.8	0.072	145	69
30	²⁾ M3AA 180MLB 2	3GAA181420--G	2950	92.7	93.5	93.3	0.88	53	7.9	97.1	2.8	3.3	0.092	149	69
45	²⁾ M3AA 200MLC 2	3GAA201430--G	2957	93.3	93.8	93.2	0.90	78.2	8.1	145	3.1	3.3	0.196	225	72
55	²⁾ M3AA 200MLD 2	3GAA201440--G	2953	93.8	94.5	94.3	0.89	95	7.8	177	2.9	3.3	0.217	241	72
55	M3AA 225SMB 2	3GAA221220--G	2961	93.9	94.3	93.6	0.88	96	6.5	177	2.4	2.5	0.274	286	74
75	²⁾ M3AA 225SMC 2	3GAA221230--G	2969	94.4	94.6	94.0	0.84	136	7.4	241	3.2	3.1	0.309	312	74
75	²⁾ M3AA 225SMD 2	3GAA221240--G	2967	94.4	94.6	94.0	0.87	131	7.7	241	3.2	3.0	0.329	317	74
75	²⁾ M3AA 250SMB 2	3GAA251220--G	2970	94.5	94.8	94.3	0.89	128	7.6	241	2.8	3.1	0.583	351	75
80	²⁾ M3AA 225SMD 2	3GAA221240--G	2964	94.4	94.8	94.3	0.87	140	7.3	257	3.0	2.8	0.329	317	74
90	²⁾ M3AA 250SMC 2	3GAA251230--G	2971	95.0	95.3	94.9	0.89	153	7.6	289	2.5	3.1	0.644	386	75

²⁾ Temperature rise class F

Technical data, 400 V 50 Hz

IE2 Process performance aluminum motors

IP 55 - IC 411 - Insulation class F, temperature rise class B
IE2 efficiency class according to IEC 60034-30-1: 2014

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _S /I _N	T _N Nm	T _I /T _N				T _B /T _N
1500 r/min = 4 poles			400 V 50 Hz					CENELEC-design							
0.06	M3AA 56A 4	3GAA052311--F	1390	52.8	49.6	40.8	0.54	0.3	3.2	0.41	3.2	3.3	0.00019	2.9	47
0.09	M3AA 56B 4	3GAA052312--F	1400	56.2	52.6	44.8	0.59	0.39	3.1	0.62	2.3	2.8	0.00024	3.2	48
0.12	M3AA 63A 4	3GAA062311--F	1403	59.1	55.8	47.1	0.63	0.41	2.9	0.82	2.2	2.4	0.0003	3.7	51
0.18	M3AA 63B 4	3GAA062312--F	1380	64.7	62.8	55.9	0.68	0.58	3.6	1.25	2.0	2.4	0.00034	4.4	54
0.25	M3AA 71A 4	3GAA072311--E	1430	68.5	66.8	59.9	0.67	0.76	4.7	1.67	2.2	3.0	0.0006	5.2	45
0.37	M3AA 71B 4	3GAA072312--E	1375	69.7	71.9	71.1	0.79	0.96	3.8	2.5	2.0	2.2	0.0008	5.9	45
0.55	M3AA 80A 4	3GAA082311--E	1406	77.1	78.6	76.8	0.78	1.29	6.4	3.73	2.8	2.9	0.0022	8.5	50
0.75	M3AA 80E 4	3GAA082315--E	1425	79.8	80.4	77.9	0.72	1.88	6.6	5	3.5	3.6	0.002	15	54
1.1	M3AA 90LB 4	3GAA092520--E	1435	83.7	83.7	81.7	0.78	2.4	6.6	7.3	2.9	3.2	0.0043	16	50
1.5	M3AA 90LD 4	3GAA092540--E	1435	84.2	84.1	81.9	0.76	3.3	7.0	9.9	3.1	3.5	0.0048	17	50
2.2	M3AA 100LC 4	3GAA102530--E	1450	86.4	86.2	84.1	0.79	4.6	7.3	14.4	2.8	3.4	0.009	25	54
3	M3AA 100LD 4	3GAA102540--E	1445	85.7	86.1	85.1	0.79	6.3	7.0	19.8	2.4	3.0	0.011	28	63
4	M3AA 112MB 4	3GAA112320--E	1445	86.7	86.5	85.2	0.75	8.8	7.3	26.4	3.1	3.4	0.0126	34	64
5.5	M3AA 132M 4	3GAA132300--E	1465	89.0	89.5	88.6	0.79	10.9	6.3	36	1.9	2.6	0.038	48	66
7.5	M3AA 132MA 4	3GAA132310--E	1460	88.7	89.5	89.0	0.79	14.7	6.4	49	1.8	2.6	0.048	59	63
11	M3AA 160MLA 4	3GAA162410--G	1466	90.4	91.6	91.4	0.84	20.9	6.8	71.6	2.2	2.8	0.081	99	62
15	M3AA 160MLB 4	3GAA162420--G	1470	91.4	92.4	92.2	0.83	28.5	7.1	97.4	2.6	3.0	0.099	118	62
18.5	M3AA 180MLA 4	3GAA182410--G	1477	91.9	92.9	92.7	0.84	34.5	7.2	119	2.6	2.9	0.166	146	62
22	M3AA 180MLB 4	3GAA182420--G	1475	92.3	93.3	93.2	0.84	40.9	7.3	142	2.6	3.0	0.195	163	62
30	M3AA 200MLA 4	3GAA202410--G	1480	93.2	94.0	93.7	0.84	55.2	7.4	193	2.8	3.0	0.309	218	63
37	M3AA 225SMA 4	3GAA222210--G	1479	93.4	93.9	93.4	0.84	68	7.1	238	2.6	2.9	0.356	240	66
45	M3AA 225SMB 4	3GAA222220--G	1480	93.9	94.3	93.9	0.85	81.3	7.5	290	2.8	3.2	0.44	273	66
55	M3AA 250SMA 4	3GAA252210--G	1480	94.4	94.9	94.6	0.85	98.9	7.0	354	2.6	2.9	0.765	314	67

²⁾ Temperature rise class F

Technical data, 400 V 50 Hz

IE2 Process performance aluminum motors

IP 55 - IC 411 - Insulation class F, temperature rise class B
IE2 efficiency class according to IEC 60034-30-1: 2014

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _s /I _N	T _N Nm	T _i /T _N				T _b /T _N
1500 r/min = 4 poles			400 V 50 Hz				High-output design								
0.25	M3AA 63C 4	3GAA062313...F	1374	68.5	68.8	64.6	0.70	0.70	3.1	1.7	2.2	2.4	0.0004	5	55
9.2	M3AA 132MF 4	3GAA132360...E	1460	89.8	90.8	90.2	0.79	18.7	7.3	60.1	2.2	3.4	0.048	59	59
11	M3AA 132SMF 4	3GAA132260...E	1460	90.4	90.8	89.9	0.79	21.5	7.7	71.9	2.1	3.1	0.0433	83	65
15	²⁾ M3AA 132SMH 4	3GAA132280...E	1455	90.6	91.0	90.3	0.77	29.8	7.1	98.4	2.4	2.9	0.0517	82	67
18.5	M3AA 160MLC 4	3GAA162430...G	1469	91.4	92.5	92.3	0.84	34.7	7.6	120	3.0	3.2	0.11	127	62
22	²⁾ M3AA 160MLD 4	3GAA162440...G	1464	91.6		92.7	0.85	41.3	6.9	143	2.5	2.9	0.125	140	62
30	²⁾ M3AA 180MLC 4	3GAA182430...G	1474	92.3	93.5	93.5	0.83	56.5	7.3	194	2.7	2.9	0.217	177	62
37	M3AA 200MLB 4	3GAA202420...G	1479	93.4	94.4	94.4	0.85	67.2	7.1	238	2.6	2.9	0.343	234	63
45	²⁾ M3AA 200MLC 4	3GAA202430...G	1479	93.6	94.4	94.2	0.83	83.6	7.5	290	2.9	3.2	0.366	246	63
55	²⁾ M3AA 225SMC 4	3GAA222230...G	1478	94.0	94.7	94.5	0.85	99.3	7.4	355	2.9	3.1	0.474	287	66
64	M3AA 225SMD 4	3GAA222240...G	1480	94.2	94.6	94.1	0.85	115	8.2	412	3.3	3.3	0.542	314	66
75	²⁾ M3AA 250SMB 4	3GAA252220...G	1478	94.4	95.1	94.8	0.85	134	7.3	484	2.8	3.1	0.866	350	67
90	²⁾ M3AA 250SMC 4	3GAA252230...G	1478	94.6	95.3	95.0	0.84	163	7.4	581	3.1	3.3	0.941	377	67

²⁾ Temperature rise class F

Technical data, 400 V 50 Hz

IE2 Process performance aluminum motors

IP 55 - IC 411 - Insulation class F, temperature rise class B
IE2 efficiency class according to IEC 60034-30-1: 2014

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _S /I _N	T _N Nm	T _I /T _N				T _B /T _N
1000 r/min = 6 poles															
400 V 50 Hz															
CENELEC-design															
0.09	M3AA 63A 6	3GAA063311...F	890	50.7	48.5	42.0	0.62	0.41	2.8	0.96	2.0	2.2	0.00042	4.2	48
0.12	M3AA 63B 6	3GAA063312...F	890	50.6	46.8	39.3	0.60	0.55	3.0	1.29	2.2	2.4	0.00052	4.5	53
0.18	M3AA 71A 6	3GAA073311...E	870	56.6	58.7	54.8	0.71	0.61	2.8	1.97	1.9	2.0	0.0009	5.5	42
0.25	M3AA 71B 6	3GAA073312...E	890	61.6	61.8	56.7	0.68	0.84	3.1	2.68	2.3	2.4	0.0012	6.5	42
0.37	M3AA 80A 6	3GAA083311...E	923	67.6	67.5	62.6	0.73	1.04	4.4	3.82	2.6	2.8	0.0019	9	47
0.75	M3AA 90LB 6	3GAA093520...E	930	77.6	78.0	75.6	0.71	1.96	4.0	7.7	2.0	2.3	0.0048	18	44
1.1	M3AA 90LD 6	3GAA093540...E	935	78.2	79.2	77.5	0.66	2.94	4.2	11.2	2.2	2.6	0.0056	20	44
1.5	M3AA 100LC 6	3GAA103530...E	945	80.3	81.4	80.7	0.73	3.6	3.9	15.1	1.7	2.0	0.009	26	49
2.2	M3AA 112MB 6	3GAA113320...E	955	81.9	81.8	79.2	0.72	5.3	5.2	21.9	1.8	2.2	0.01	34	56
3	M3AA 132S 6	3GAA133100...E	960	83.3	82.9	80.5	0.65	7.69	4.3	29.8	1.6	2.3	0.031	46	57
4	M3AA 132MB 6	3GAA133320...E	975	86.4	85.8	83.1	0.70	9.4	7.3	39.2	2.1	4.4	0.045	54	57
5.5	M3AA 132MC 6	3GAA133330...E	965	86.1	85.6	83.0	0.67	13.3	6.2	54.3	2.5	2.8	0.049	59	61
7.5	M3AA 160MLA 6	3GAA163410...G	975	88.5	89.8	89.7	0.79	15.4	7.4	73.4	1.7	3.2	0.087	98	59
11	M3AA 160MLB 6	3GAA163420...G	972	89.3	90.6	90.5	0.79	22.5	7.5	108	1.9	2.9	0.114	125	59
15	M3AA 180MLA 6	3GAA183410...G	977	90.5	91.5	91.0	0.77	31	5.8	146	1.8	2.7	0.168	148	59
18.5	M3AA 200MLA 6	3GAA203410...G	988	91.6	92.3	91.7	0.80	36.4	6.7	178	2.3	2.9	0.382	196	63
22	M3AA 200MLB 6	3GAA203420...G	987	92.0	92.9	92.8	0.82	42	6.6	212	2.2	2.8	0.448	218	63
30	M3AA 225SMA 6	3GAA223210...G	986	92.6	93.3	92.8	0.83	56.2	7.0	290	2.6	2.9	0.663	266	63
37	M3AA 250SMA 6	3GAA253210...G	989	93.1	93.8	93.4	0.82	69.9	6.8	357	2.4	2.7	1.13	294	63

²⁾ Temperature rise class F

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1: 2014			Power factor Cos ϕ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _S /I _N	T _N Nm	T _I /T _N				T _B /T _N
1000 r/min = 6 poles															
400 V 50 Hz															
High-output design															
0.18	M3AA 63C 6	3GAA063313...F	880	56.6	55.4	49.1	0.62	0.72	2.8	1.96	2.1	2.2	0.0006	5.3	45
15	M3AA 160MLC 6	3GAA163430...G	971	89.7	91.2	91.2	0.77	31.3	7.3	147	1.8	3.6	0.131	138	59
18.5	M3AA 180MLB 6	3GAA183420...G	975	90.7	92.0	92.0	0.79	37.2	5.8	181	1.7	2.7	0.198	162	59
30	²⁾ M3AA 200MLC 6	3GAA203430...G	985	92.0	93.1	92.9	0.83	56.7	6.9	290	2.3	2.8	0.531	245	63
37	M3AA 225SMB 6	3GAA223220...G	985	93.1	94.0	94.0	0.83	69.1	6.6	358	2.3	2.6	0.821	300	63
45	²⁾ M3AA 225SMC 6	3GAA223230...G	984	92.6	93.9	94.0	0.83	84.4	6.4	436	2.3	2.6	0.821	300	63
45	²⁾ M3AA 250SMB 6	3GAA253220...G	989	93.4	94.1	93.9	0.83	83.7	7.0	434	2.5	2.7	1.37	341	63
55	²⁾ M3AA 250SMC 6	3GAA253230...G	988	93.2	94.1	94.0	0.84	101	7.1	531	2.6	2.8	1.5	367	63

²⁾ Temperature rise class F