

Technical data

IE3 aluminum motors, 3000 and 1500 r/min

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

				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	
Output kW	Motor type	Product code	Speed r/min	Full load	3/4 load	1/2 load		I _N	T _N						
				100%	75%	50%		A	I _s /I _N	Nm	T _f /T _N				T _b /T _N
3000 r/min = 2 poles				400 V 50 Hz				CENELEC-design							
0.75	M3AA 80 B 2	3GAA081612-••J	2881	81.8	81.5	78.6	0.83	1.59	7.6	2.4	3.0	3.4	0.0020	9.4	60
1.1	M3AA 80 C 2	3GAA081613-••J	2875	82.7	82.7	80.1	0.80	2.3	8.3	3.6	4.0	3.7	0.0020	11	60
1.5	M3AA 90 L 2	3GAA091612-••J	2900	84.4	85.7	84.5	0.86	2.9	7.6	4.9	2.6	3.2	0.0050	16	60
2.2	M3AA 90 LB 2	3GAA091613-••J	2880	85.9	87.7	87.5	0.87	4.2	7.0	7.2	2.6	3.2	0.0050	18	63
3	M3AA 100 LB 2	3GAA101612-••J	2888	87.5	89.1	89.2	0.93	5.3	7.4	9.9	2.7	3.3	0.0090	31	62
4	M3AA 112 MB 2	3GAA111612-••J	2887	88.1	89.8	90.0	0.92	7.1	9.1	13.2	3.4	4.3	0.0130	35	68
5.5	M3AA 132 SB 2	3GAA131612-••J	2926	89.6	90.6	90.1	0.92	9.6	9.4	17.9	2.7	4.0	0.0210	56	73
7.5	M3AA 132 SC 2	3GAA131613-••J	2901	90.5	91.7	91.6	0.91	13.1	7.9	24.6	2.4	4.0	0.0230	63	73
11	M3AA 160 MLA 2	3GAA161051-••K	2943	92.1	92.7	92.4	0.92	18.7	8.1	35.6	2.7	3.4	0.0520	106	69
15	M3AA 160 MLB 2	3GAA161052-••K	2943	92.5	93.4	93.2	0.92	25.4	8.4	48.6	3.1	3.4	0.0620	123	69
18.5	M3AA 160 MLC 2	3GAA161053-••K	2942	93.1	93.9	93.9	0.93	30.8	8.3	60.0	3.1	3.6	0.0720	137	69
22	M3AA 180 MLA 2	3GAA181051-••K	2957	93.2	93.9	93.8	0.91	37.4	8.1	71.0	2.6	3.2	0.116	176	69
30	M3AA 200 MLA 2	3GAA201051-••K	2958	94.2	94.9	94.7	0.90	51.0	7.8	96.8	2.8	3.1	0.196	225	72
37	M3AA 200 MLB 2	3GAA201052-••K	2960	94.7	95.2	95.0	0.91	61.9	8.8	119	3.1	3.4	0.217	241	72
45	M3AA 225 SMA 2	3GAA221051-••K	2972	95.0	95.2	94.8	0.89	76.8	7.8	144	3.1	3.0	0.323	326	74
55	M3AA 250 SMA 2	3GAA251051-••K	2975	95.2	95.4	95.0	0.89	93.6	8.0	176	2.8	3.3	0.579	351	75

				Efficiency IEC 60034-30-1; 2014			Power factor Cos φ	Current		Torque			Moment of inertia J = 1/4 GD²kgm²	Weight kg	Sound pressure Level L _{PA} dB
Output kW	Motor type	Product code	Speed r/min	Full load	3/4 load	1/2 load		I _N	I _s /I _N	T _N	T _f /T _N	T _b /T _N			
				100%	75%	50%		A		Nm					
1500 r/min = 4 poles				400 V 50 Hz				CENELEC-design							
0.75	M3AA 80 E 4	3GAA082614-••J	1433	82.5	83.4	81.4	0.73	1.79	7.0	4.9	3.1	3.9	0.0040	13.1	54
1.1	M3AA 90 LB 4	3GAA092614-••J	1437	84.1	84.4	82.1	0.80	2.3	6.9	7.3	3.1	3.5	0.0070	17	50
1.5	M3AA 90 LD 4	3GAA092615-••J	1440	85.3	84.9	82.2	0.75	3.3	7.1	9.9	3.4	3.9	0.0070	20	50
2.2	M3AA 100 LC 4	3GAA102613-••J	1452	86.7	86.5	84.2	0.80	4.5	7.3	14.4	2.7	3.4	0.0110	25	54
3	M3AA 100 LD 4	3GAA102614-••J	1449	87.9	88.8	88.0	0.83	5.9	6.9	19.7	2.6	3.3	0.0140	32	63
4	M3AA 112 MB 4	3GAA112612-••J	1444	88.6	89.4	88.9	0.79	8.2	7.1	26.4	2.8	3.3	0.0180	34	64
5.5	M3AA 132 M 4	3GAA132612-••J	1460	89.6	90.5	89.6	0.82	10.8	6.4	35.9	1.9	2.6	0.0310	48	66
7.5	M3AA 132 MA 4	3GAA132614-••J	1462	90.6	91.3	90.6	0.79	15.1	6.6	48.9	2.2	3.7	0.0370	59	63
11	M3AA 160 MLA 4	3GAA162051-••K	1473	92.2	93.0	92.7	0.84	20.4	7.7	71.3	2.6	2.9	0.108	126	62
15	M3AA 160 MLB 4	3GAA162052-••K	1474	92.6	93.4	93.2	0.84	27.8	7.9	97.1	2.8	3.3	0.125	140	62
18.5	M3AA 180 MLA 4	3GAA182051-••K	1481	93.3	94.0	93.8	0.82	34.9	7.6	119	3.0	3.1	0.217	177	62
22	M3AA 180 MLB 4	3GAA182052-••K	1480	93.3	94.1	94.1	0.82	41.5	8.2	141	2.8	3.1	0.217	176	62
30	M3AA 200 MLA 4	3GAA202051-••K	1484	94.4	94.8	94.6	0.84	54.6	8.3	193	3.0	3.3	0.366	246	63
37	M3AA 225 SMA 4	3GAA222051-••K	1482	94.9	95.5	95.4	0.86	65.4	7.7	238	2.8	3.1	0.536	315	66
45	M3AA 225 SMB 4	3GAA222052-••K	1482	95.2	95.6	95.5	0.85	80.2	7.9	289	2.8	3.2	0.536	316	66
55	M3AA 250 SMA 4	3GAA252051-••K	1485	95.4	95.9	95.7	0.85	97.8	7.9	353	3.0	3.3	0.933	376	67

Technical data

IE3 aluminum motors, 1000 r/min

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 GD²kgm²	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 _r /T _N				T _b /T _N
1000 r/min = 6 poles				400 V 50 Hz				CENELEC-design							
0.75	M3AA 90 LB 6	3GAA093613-●●J	930	78.9	80.9	79.1	0.73	1.87	4.0	7.7	2.0	2.3	0.0070	17	44
1.1	M3AA 90 LD 6	3GAA093614-●●J	931	81.0	83.4	82.6	0.77	2.5	4.4	11.2	2.0	2.2	0.0070	19	44
1.5	M3AA 100 LC 6	3GAA103612-●●J	962	84.7	84.8	82.5	0.69	3.7	4.9	14.8	1.9	2.7	0.0140	28	49
3	M3AA 132 S 6	3GAA133611-●●J	969	86.1	87.4	86.7	0.75	6.7	5.5	29.5	1.8	3.0	0.0310	48	57
4	M3AA 132 MA 6	3GAA133612-●●J	961	86.8	89.4	89.7	0.82	8.1	5.5	39.7	1.8	2.1	0.0390	60	61
5.5	M3AA 132 MC 6	3GAA133614-●●J	970	88.5	88.8	87.3	0.67	13.3	5.0	54.1	1.9	3.2	0.0440	64	61
7.5	M3AA 160 MLA 6	3GAA163051-●●K	980	90.8	91.5	91.0	0.78	15.2	7.9	73.0	1.7	3.3	0.114	125	59
11	M3AA 160 MLB 6	3GAA163052-●●K	979	91.2	91.8	91.1	0.74	23.5	8.5	107	2.2	3.9	0.131	139	59
15	M3AA 180 MLA 6	3GAA183051-●●K	987	92.2	92.4	91.5	0.77	30.4	7.7	145	2.2	3.5	0.225	175	59
18.5	M3AA 200 MLA 6	3GAA203051-●●K	990	92.8	93.2	92.6	0.77	37.3	7.5	178	2.6	3.2	0.448	218	63
22	M3AA 200 MLB 6	3GAA203052-●●K	990	93.3	93.7	93.1	0.79	43.0	7.8	212	2.6	3.2	0.531	245	63
30	M3AA 225 SMA 6	3GAA223051-●●K	989	94.1	94.6	94.4	0.81	56.8	7.9	289	2.8	3.1	0.813	310	63
37	M3AA 250 SMA 6	3GAA253051-●●K	991	94.4	94.9	94.7	0.83	68.0	7.7	356	2.7	2.9	1.490	367	63