

# General purpose aluminum motors

## Technical data for totally enclosed squirrel cage three phase motors, two-speed

IP 55 – IC 411 – Insulation class F, temperature rise class F

Output kW	Motor type	Product code	Speed r/min	Efficiency %	Power factor cos φ	Current		Torque			Moment of inertia J=1/4 GD <sup>2</sup> kgm <sup>2</sup>	Weight kg
						I <sub>N</sub> A	I <sub>s</sub> / I <sub>N</sub>	T <sub>N</sub> Nm	T <sub>s</sub> / T <sub>N</sub>	T <sub>max</sub> / T <sub>N</sub>		
<b>3000/1500 r/min = 2/4 poles      400 V 50 Hz      Fan drive, two separate windings</b>												
0.65/0.14	M3VA 80 A	3GVA 087 121-••B	2860/1450	73.0/57.0	0.85/0.57	1.5/0.58	4.8/3.6	2.18/0.93	1.9/2	2.2/2.3	0.0008	9
0.95/0.2	M3VA 80 B	3GVA 087 122-••B	2850/1440	75.0/61.0	0.87/0.69	2.1/0.7	5/3.7	3.19/1.33	2/1.8	2.2/2.2	0.0009	11
1.1/0.25	M3VA 80 C	3GVA 087 123-••B	2860/1440	77.0/63.0	0.87/0.70	2.4/0.85	5.3/3.8	3.7/1.7	2/1.8	2.2/2	0.0012	12
1.4/0.22	M3AA 90 S	3GAA 098 201-••E	2870/1470	77.0/48.0	0.87/0.63	3/1.1	5.3/3.3	4.6/1.4	1.7/1	2.4/2.3	0.0019	13
1.9/0.3	M3AA 90 L	3GAA 098 202-••E	2880/1470	78.0/53.0	0.87/0.68	4/1.1	5.8/3.7	6.3/1.9	1.9/1	2.5/2.3	0.0024	16
2.5/0.4	M3AA 100 L	3GAA 108 201-••E	2900/1470	80.0/60.0	0.87/0.67	5.2/1.5	6.5/4.1	8.2/2.6	2.1/1	3/2.7	0.0041	21
3.5/0.6	M3AA 112 M	3GAA 118 204-••C	2895/1470	83.0/68.0	0.92/0.60	6.6/2.1	7/5.8	11.5/3.9	1.7/1.8	2.3/2.8	0.012	32
5.5/1	M3AA 132 S	3GAA 138 207-••C	2900/1470	84.0/64.0	0.88/0.65	10.8/3.5	7.8/5.7	18.1/6.5	2.4/2	2.9/2.8	0.016	42
7.4/1.2	M3AA 132 M	3GAA 138 208-••C	2875/1475	85.0/67.0	0.93/0.64	13.5/4.1	7.5/5.9	24.6/7.8	2.1/2	2.6/2.8	0.022	56
13/1.9	M3AA 160 M	3GAA 168 352-••C	2940/1470	88.5/79.5	0.92/0.79	23/4.4	7.8/6.4	42/12	2.1/2.1	3/2.5	0.054	92
17.5/2.5	M3AA 160 L	3GAA 168 353-••C	2925/1475	89.0/81.0	0.92/0.77	31/5.8	7.1/6.7	57/16	2/2.5	2.6/2.9	0.057	99
20/2.8	M3AA 180 M	3GAA 188 357-••C	2930/1465	89.0/77.0	0.90/0.77	36/6.9	6.4/5.8	65/18	2.1/1.9	2.4/2	0.094	132
25/3.6	M3AA 180 L	3GAA 188 358-••C	2940/1465	90.0/78.0	0.88/0.78	46/8.6	7.5/7.3	81/24	2.6/1.9	2.9/1.9	0.108	152
30/4.1	M3AA 200 MLA	3GAA 208 210-••C	2945/1480	91.5/85.0	0.89/0.72	54/10	8/7.1	97/26	2.2/2.7	2.8/2.8	0.15	175
38/5.5	M3AA 200 MLB	3GAA 208 211-••C	2945/1480	92.5/86.5	0.91/0.74	67/13	7.7/6.8	123/35	2.2/2.6	2.6/2.6	0.19	205
43/6	M3AA 225 SMB	3GAA 228 207-••C	2950/1475	92.5/86.5	0.90/0.78	75/13	7.1/5.8	139/39	2.3/2.7	2.4/2	0.26	235
50/7	M3AA 225 SMC	3GAA 228 208-••C	2955/1480	93.0/87.5	0.91/0.78	86/15	7.3/6.1	162/45	2.4/2.9	2.4/2.1	0.29	260
70/10	M3AA 250 SMB	3GAA 258 204-••C	2965/1485	94.0/89.5	0.90/0.76	119/22	9.3/7.1	225/64	2.3/2.5	3.1/2.3	0.57	330
<b>3000/1500 r/min = 2-4 poles      400 V 50 Hz      Fan drive, Dahlander-connection</b>												
0.22/0.044	M3VA 63 A	3GVA 068 121-••A	2770/1420	65.0/50.0	0.76/0.65	0.65/0.2	3.6/3.5	0.75/0.29	2.1/2.4	2.2/2.5	0.00019	4
0.33/0.07	M3VA 63 B	3GVA 068 122-••A	2700/1380	53.0/45.0	0.82/0.77	1.1/0.3	2.7/2.7	1.17/0.49	1.6/2	1.7/2.1	0.00026	4.5
0.37/0.08	M3VA 71 A	3GVA 078 121-••C	2690/1460	64.0/42.0	0.92/0.47	0.9/0.6	3.3/4.3	1.31/0.52	1.8/2.1	1.9/2.2	0.00066	5.5
0.55/0.12	M3VA 71 B	3GVA 078 122-••C	2700/1470	67.0/55.0	0.91/0.42	1.3/0.75	3.8/3.4	1.94/0.78	1.4/2.2	1.5/2.2	0.00089	6.5
0.65/0.13	M3VA 71 C	3GVA 078 123-••C	2800/1400	69.0/50.0	0.85/0.44	1.6/0.85	4.1/3.5	2.2/0.88	1.5/2.3	1.6/2.4	0.0011	7
0.85/0.2	M3VA 80 A	3GVA 088 121-••B	2850/1440	77.0/65.0	0.85/0.64	1.9/0.7	5/4.1	2.86/1.33	2.1/2.3	2.3/2.6	0.0008	9
1.1/0.25	M3VA 80 B	3GVA 088 122-••B	2855/1450	79.0/68.0	0.84/0.63	2.4/0.85	5.3/4.2	3.7/1.65	2.3/2.5	2.5/2.7	0.0009	11
1.4/0.35	M3VA 80 C	3GVA 088 123-••B	2845/1440	79.0/70.0	0.85/0.67	3/1.1	5.4/4.4	4.7/2.32	2.3/2.4	2.4/2.6	0.0012	11
1.5/0.33	M3AA 90 S	3GAA 098 101-••E	2860/1460	77.0/66.0	0.87/0.67	3.3/1.1	5.2/3.9	5/2.1	1.8/1.1	2.4/2.1	0.0019	13
2.2/0.45	M3AA 90 L	3GAA 098 102-••E	2860/1460	80.0/73.0	0.88/0.65	4.6/1.4	5.9/4.4	7.3/2.9	2.1/1.2	2.6/2.3	0.0024	16
2.5/0.47	M3AA 90 LB	3GAA 098 103-••E	2860/1460	78.0/75.0	0.88/0.62	5.2/1.5	6.1/4.5	8.3/3.1	2.2/1.4	2.5/2.3	0.0027	18
3/0.6	M3AA 100 L	3GAA 108 101-••E	2880/1470	81.0/74.0	0.89/0.61	6.2/1.9	6.3/4.8	9.9/3.9	2.2/1.4	2.8/2.8	0.0041	21
4.5/1	M3AA 112 M	3GAA 118 104-••C	2875/1450	83.0/80.0	0.93/0.76	8.4/2.4	7/6	14.9/6.6	1.8/1.9	2.3/2.8	0.012	32
6.2/1.3	M3AA 132 S	3GAA 138 127-••C	2880/1455	84.0/80.0	0.91/0.67	11.8/3.5	7/6.5	20.6/8.5	2/2.6	2.6/3.3	0.016	42
8.3/1.7	M3AA 132 M	3GAA 138 108-••C	2875/1455	84.0/82.0	0.93/0.71	15.4/4.2	7.4/6.6	27.6/11.2	2.5/2.7	2.7/3.3	0.022	56
10/2	M3AA 160 MA	3GAA 168 301-••C	2910/1465	85.0/83.5	0.89/0.73	19/4.8	5.9/6.1	30/43	1.5/2.4	2.3/2.8	0.039	73
16/3.2	M3AA 160 M	3GAA 168 302-••C	2915/1465	87.5/86.5	0.92/0.76	28.5/7	6.6/6.3	52/21	1.8/2.5	2.4/2.8	0.054	92
19.5/4.5	M3AA 160 L	3GAA 168 303-••C	2930/1465	89.0/88.0	0.89/0.77	36/9.7	7.6/6.4	64/29	2.3/2.5	2.9/2.8	0.057	99
21.5/4.7	M3AA 180 M	3GAA 188 305-••C	2935/1465	90.0/88.0	0.91/0.77	38/10	7/5.3	70/28	2.1/2.1	2.6/2.3	0.094	132
26/5.2	M3AA 180 L	3GAA 188 306-••C	2940/1470	90.5/89.5	0.89/0.75	47/11	6.9/5.8	85/34	2.3/2.4	2.6/2.4	0.108	152
32/8	M3AA 200 MLA	3GAA 208 110-••C	2940/1465	90.0/89.5	0.89/0.85	58/16	7.1/6.2	104/52	2/2	2.5/2.2	0.28	180
39/10	M3AA 200 MLB	3GAA 208 111-••C	2950/1475	91.5/91.0	0.89/0.85	69/19	7.4/6.2	126/65	2/2	2.6/2.3	0.34	205
42/11	M3AA 200 MLC	3GAA 208 112-••C	2950/1470	92.5/91.0	0.89/0.77	75/23	7.7/5.6	136/71	2.2/2.1	3/2.5	0.19	205
45/13	M3AA 225 SMB	3GAA 228 107-••C	2955/1475	93.0/91.5	0.92/0.82	76/25	7.4/5.3	145/84	2/2	2.6/2.1	0.27	235
55/15	M3AA 225 SMC	3GAA 228 108-••C	2955/1475	93.5/92.5	0.91/0.82	94/29	7.3/5.4	178/97	2/2	2.6/2.2	0.3	260
75/25	M3AA 250 SMB	3GAA 258 104-••C	2965/1475	94.5/93.0	0.92/0.82	125/48	8.9/5.5	241/162	2.3/2	3.1/2.2	0.36	330

Data for motor size 280 on request.

The bullets in the product code indicate choice of mounting arrangement, voltage and frequency, generation code (see ordering information page).

# General purpose aluminum motors

## Technical data for totally enclosed squirrel cage three phase motors, two-speed

IP 55 – IC 411 – Insulation class F, temperature rise class F

Output kW	Motor type	Product code	Speed r/min	Efficiency %	Power factor cos φ	Current		Torque			Moment of inertia J=1/4 GD <sup>2</sup> kgm <sup>2</sup>	Weight kg
						I <sub>N</sub> A	I <sub>s</sub> / I <sub>N</sub>	T <sub>N</sub> Nm	T <sub>s</sub> / T <sub>N</sub>	T <sub>max</sub> / T <sub>N</sub>		
<b>1500/750 r/min = 4/8 poles</b>												
<b>400 V 50 Hz</b>												
<b>Fan drive, two separate windings</b>												
0.18/0.025	M3VA 71 A	3GVA 077 241--C	1420/710	50.0/26.0	0.76/0.60	0.7/0.35	2.7/2.1	1.22/0.34	1.5/3.9	1.9/3.9	0.00066	5.5
0.3/0.05	M3VA 71 B	3GVA 077 242--C	1400/700	54.0/34.0	0.80/0.60	1/0.45	2.7/2.1	2.1/0.69	1.5/2.8	1.7/2.8	0.00089	6.5
0.48/0.075	M3VA 80 A	3GVA 087 241--B	1400/710	64.0/35.0	0.79/0.51	1.4/0.55	3.4/2.4	3.3/1	1.7/2.2	1.7/2.6	0.0013	9
0.63/0.1	M3VA 80 B	3GVA 087 242--B	1400/710	68.0/40.0	0.81/0.50	1.65/0.75	3.7/2.5	4.4/1.35	1.8/2.3	1.8/2.6	0.0016	11
0.73/0.12	M3VA 80 C	3GVA 087 243--B	1400/710	70.0/42.0	0.80/0.50	1.9/0.85	4.1/2.6	5/1.7	2/2.3	2/2.5	0.002	12
1/0.13	M3AA 90 S	3GAA 098 207--E	1400/700	71.0/38.0	0.83/0.70	2.6/0.72	3.9/2.1	6.8/1.8	1.5/1	2/1.7	0.0032	13
1.4/0.18	M3AA 90 L	3GAA 098 208--E	1420/710	74.0/41.0	0.81/0.60	3.5/1.1	4.5/2.3	9.4/2.4	1.7/1.1	2.3/2.1	0.0043	16
1.85/0.25	M3AA 100 LA	3GAA 108 206--E	1430/720	78.0/45.0	0.84/0.60	4.2/1.4	4.9/2.5	12/3.3	1.7/1.1	2.3/2.1	0.0069	20
2.3/0.33	M3AA 100 LB	3GAA 108 207--E	1430/720	80.0/49.0	0.86/0.60	5/1.6	5.2/2.6	15/4.3	1.8/1.1	2.4/2.2	0.0082	23
3/0.4	M3AA 112 M	3GAA 118 206--C	1440/730	81.0/51.0	0.87/0.58	6.2/2	6.8/3.8	19.9/5.2	1.5/1.6	2.4/2.6	0.018	32
4/0.6	M3AA 132 S	3GAA 138 231--C	1465/740	84.0/51.0	0.84/0.53	8.2/3.2	6.5/3.5	26.1/7.7	1.5/1.1	2.4/2.5	0.038	48
5.5/0.9	M3AA 132 M	3GAA 138 232--C	1455/735	84.0/53.0	0.87/0.64	10.9/3.9	6.2/3.1	36.1/11.7	1.5/1.1	2.2/2	0.048	59
9/1.3	M3AA 160 M	3GAA 168 356--C	1460/735	87.0/60.0	0.84/0.53	18/5.9	6.6/4	59/17	2/2.2	2.5/2.7	0.089	92
13/1.8	M3AA 160 L	3GAA 168 357--C	1455/735	88.0/64.0	0.85/0.53	26/8.2	6/4.1	89/26	1.9/2.2	2.3/2.6	0.119	117
16/2.3	M3AA 180 M	3GAA 188 361--C	1475/740	88.5/64.0	0.82/0.53	32/9.7	6.8/4.1	104/30	2.2/2.2	2.7/2.6	0.176	130
19/2.7	M3AA 180 L	3GAA 188 362--C	1475/740	89.5/68.0	0.83/0.54	37/10.5	7.5/7.2	123/35	2.6/2.6	2.9/2.6	0.224	159
26/3.3	M3AA 200 MLA	3GAA 208 216--C	1475/740	91.0/73.0	0.85/0.59	49/11	6.9/4.6	168/46	2.1/2.2	2.5/2.3	0.28	180
30/3.8	M3AA 200 MLB	3GAA 208 217--C	1470/740	91.5/75.5	0.86/0.59	55/12.5	6.7/4.6	195/49	2.1/2.2	2.4/2.2	0.34	205
38/5.2	M3AA 225 SMB	3GAA 228 211--C	1480/740	91.5/80.5	0.84/0.63	72/15	7.3/5.2	245/67	2.1/2.3	2.6/2.3	0.41	230
46/7	M3AA 225 SMC	3GAA 228 212--C	1480/740	92.5/82.0	0.86/0.66	85/19	7.7/4.9	297/90	2.3/2.1	2.7/2.1	0.49	265
63/10	M3AA 250 SMB	3GAA 258 206--C	1475/740	93.5/83.0	0.89/0.65	110/27	7.5/6	408/129	2.4/3	2.7/2.7	0.89	335
<b>1500/750 r/min = 4-8 poles</b>												
<b>400 V 50 Hz</b>												
<b>Fan drive, Dahlander-connection</b>												
0.18/0.037	M3VA 71 A	3GVA 078 241--C	1380/720	58.0/17.0	0.74/0.50	0.6/0.7	3.5/1.7	1.24/0.49	1.7/1.7	1.8/1.8	0.00066	5.5
0.37/0.09	M3VA 71 B	3GVA 078 242--C	1360/700	58.0/19.0	0.84/0.52	1.1/1.2	3.1/1.7	2.6/1.2	1.3/1.8	1.4/1.9	0.00089	6.5
0.45/0.1	M3VA 71 C	3GVA 078 243--C	1390/685	60.0/24.0	0.78/0.51	1.4/1.2	3.5/2.6	3.1/1.4	1.7/1.3	1.8/1.4	0.0011	7
0.55/0.13	M3VA 80 A	3GVA 088 241--B	1410/680	64.0/50.0	0.70/0.60	1.8/0.65	3.8/2.4	3.74/1.83	2.2/1.6	2.2/1.6	0.0013	9
0.75/0.17	M3VA 80 B	3GVA 088 242--B	1400/675	67.0/53.0	0.75/0.62	2.15/0.75	4/2.4	5.13/2.41	2/1.4	2/1.4	0.0016	10
0.9/0.2	M3VA 80 C	3GVA 088 243--B	1400/680	70.0/56.0	0.76/0.62	2.45/0.85	4.3/2.5	6.15/2.82	2.3/1.5	2.3/2.5	0.002	11
1.1/0.26	M3AA 90 S	3GAA 098 104--E	1410/700	73.0/53.0	0.80/0.63	2.8/1.2	4.2/2.4	7.4/3.6	1.8/1.2	2.3/1.9	0.0032	13
1.7/0.35	M3AA 90 L	3GAA 098 105--E	1390/700	74.0/57.0	0.82/0.57	4/1.6	4.5/2.5	10.3/4.7	2.2/1.5	2.6/2.1	0.0043	16
1.8/0.35	M3AA 90 LB	3GAA 098 106--E	1400/710	76.0/60.0	0.83/0.56	4.2/1.5	4.3/2.7	12/4.8	1.9/1.6	2.3/2.3	0.0048	18
2.3/0.5	M3AA 100 LA	3GAA 108 103--E	1415/715	76.0/63.0	0.84/0.60	5.2/1.9	4.6/2.7	15.5/6.7	1.8/1.2	2.4/1.9	0.0069	20
2.8/0.6	M3AA 100 LB	3GAA 108 104--E	1430/720	81.0/68.0	0.82/0.58	6.4/2.2	5.2/3	18/8	2/1.2	2.6/2.2	0.0082	23
3/0.65	M3AA 100 LC	3GAA 108 105--E	1430/720	81.0/67.0	0.81/0.56	6.8/2.5	5.6/3	20/8.7	2.2/1.3	2.8/2.3	0.009	26
3.5/0.7	M3AA 112 M	3GAA 118 126--C	1430/720	81.0/71.0	0.89/0.58	7/2.5	6.8/4.4	23.4/9.3	1.6/1.7	2.5/2.7	0.018	32
5/1	M3AA 132 S	3GAA 138 131--C	1450/725	83.0/74.0	0.87/0.59	9.9/3.3	6.4/3.6	32.9/13.2	1.5/1	2.3/2	0.038	48
6.8/1.4	M3AA 132 M	3GAA 138 132--C	1460/730	85.0/73.0	0.84/0.55	13.7/5.1	7.6/3.6	44.5/18.3	2/1.4	2.8/2.7	0.048	59
10.5/2.2	M3AA 160 M	3GAA 168 304--C	1460/735	87.5/79.0	0.84/0.54	21/7.4	6.9/3.7	69/29	2.2/1.5	2.7/2.3	0.089	94
15.5/2.7	M3AA 160 L	3GAA 168 305--C	1460/735	88.5/79.5	0.85/0.51	30/9.5	6.9/3.9	101/35	2.2/1.7	2.6/2.6	0.119	117
17/3.4	M3AA 180 M	3GAA 188 307--C	1470/730	88.5/78.0	0.85/0.56	33/11	5.8/4.3	111/44	1.7/1.2	2.3/1.9	0.176	137
22/4.4	M3AA 180 L	3GAA 188 308--C	1475/735	89.5/79.0	0.83/0.53	43/15	6.7/3.9	143/57	2/1.7	2.6/2.3	0.224	161
29/6.5	M3AA 200 MLA	3GAA 208 116--C	1470/730	90.5/86.0	0.86/0.64	54/17	6.9/4.2	188/81	2.2/1.9	2.4/1.9	0.28	180
33/8	M3AA 200 MLB	3GAA 208 117--C	1475/730	91.5/86.5	0.86/0.64	61/21	7.8/4.2	214/105	2.6/1.9	2.6/1.8	0.34	205
42/10	M3AA 225 SMB	3GAA 228 111--C	1480/740	92.0/89.5	0.86/0.64	85/27	7.8/5	271/129	2.5/2.2	3/2.3	0.49	265
50/11	M3AA 225 SMC	3GAA 228 112--C	1465/735	92.5/89.5	0.87/0.65	91/28	7.3/4.7	324/143	2.3/2	2.5/2	0.49	265
60/15	M3AA 250 SMB	3GAA 258 106--C	1475/735	93.0/90.0	0.86/0.70	104/34	7.9/4.7	388/195	2.6/2.1	2.7/2	0.89	335

# General purpose aluminum motors

## Technical data for totally enclosed squirrel cage three phase motors, two-speed

IP 55 – IC 411 – Insulation class F, temperature rise class F

Output kW	Motor type	Product code	Speed r/min	Efficiency %	Power factor cos φ	Current		Torque			Moment of inertia J=1/4 GD <sup>2</sup> kgm <sup>2</sup>	Weight kg
						I <sub>N</sub> A	I <sub>s</sub> / I <sub>N</sub>	T <sub>N</sub> Nm	T <sub>s</sub> / T <sub>N</sub>	T <sub>max</sub> / T <sub>N</sub>		
<b>1500/1000 r/min = 4/6 poles</b>			<b>400 V 50 Hz</b>			<b>Fan drive, two separate windings</b>						
0.18/0.05	M3VA 71 A	3GVA 077 231-**-C	1400/900	56.0/27.0	0.76/0.79	0.6/0.4	3/2.1	1.22/0.53	1.1/1.1	1.2/1.2	0.00066	5.5
0.3/0.1	M3VA 71 B	3GVA 077 232-**-C	1350/900	54.0/30.0	0.86/0.79	0.9/0.6	2.8/2	2.1/1.06	1/1.1	1.1/1.1	0.00089	6.5
0.5/0.19	M3VA 80 A	3GVA 087 231-**-B	1370/930	60.0/53.0	0.84/0.77	1.4/0.7	2.9/3.1	3.5/1.96	1.4/1.5	1.4/1.5	0.0019	9
0.66/0.25	M3VA 80 B	3GVA 087 232-**-B	1390/935	63.0/59.0	0.85/0.78	1.75/0.8	3.3/3.3	4.55/2.56	1.6/1.5	1.6/1.6	0.0022	10
0.78/0.3	M3VA 80 C	3GVA 087 233-**-B	1400/940	66.0/60.0	0.84/0.73	2/1	3.6/3.8	5.33/3.06	1.8/1.9	1.8/2.1	0.0025	10
1/0.3	M3AA 90 S	3GAA 098 204-**-E	1400/940	73.0/53.0	0.83/0.70	2.5/1.2	4.2/2.6	6.8/3	1.8/1	2.2/1.7	0.0032	13
1.5/0.45	M3AA 90 L	3GAA 098 205-**-E	1400/930	72.0/52.0	0.84/0.73	3.5/1.6	4.3/2.9	10/4.5	1.7/1	2.1/1.8	0.0043	16
2/0.6	M3AA 100 LA	3GAA 108 203-**-E	1430/960	77.0/62.0	0.85/0.72	4.5/2	5/3.3	13/5.9	1.8/1	2.4/1.9	0.0069	20
2.5/0.8	M3AA 100 LB	3GAA 108 204-**-E	1430/960	79.0/68.0	0.84/0.71	5.5/2.5	5.6/3.5	16/7.9	2/1.1	2.5/2	0.0082	23
3/1	M3AA 112 M	3GAA 118 205-**-C	1445/975	82.0/67.0	0.84/0.68	6.3/3.1	6/4	19.8/9.8	1.3/1	2.3/2.2	0.018	33
4.5/1.5	M3AA 132 S	3GAA 138 229-**-C	1460/985	83.0/67.0	0.85/0.64	9.2/5.1	6.5/4.2	29.4/14.5	1.5/1	2.3/2.2	0.038	48
6/2	M3AA 132 M	3GAA 138 230-**-C	1460/980	84.0/71.0	0.86/0.73	12/5.6	7.1/4.5	39.2/19.5	1.8/1.3	2.5/2	0.048	59
10.5/3.5	M3AA 160 M	3GAA 168 354-**-C	1460/965	87.0/75.5	0.84/0.78	21/8.6	6.4/4.1	69/35	2/1.3	2.5/1.7	0.089	93
14.5/4.5	M3AA 160 L	3GAA 168 355-**-C	1460/970	88.5/77.0	0.85/0.76	28/11	6.9/4.6	95/44	2.2/1.5	2.6/1.9	0.119	117
16/5	M3AA 180 M	3GAA 188 359-**-C	1470/980	89.0/78.0	0.83/0.73	31/12.5	6.3/4.6	104/49	1.9/1.5	2.5/2	0.176	131
20/6.5	M3AA 180 L	3GAA 188 360-**-C	1470/980	90.0/79.5	0.83/0.74	39/16	7.2/5	130/63	2.4/1.8	2.7/2	0.224	159
23/7.2	M3AA 200 MLA	3GAA 208 213-**-C	1475/985	89.5/84.0	0.88/0.87	43/15	7.7/7.8	149/70	1.6/1.9	2.8/2.9	0.44	175
30/9	M3AA 200 MLB	3GAA 208 214-**-C	1470/990	90.0/86.6	0.90/0.84	54/18.2	7.7/9.5	195/87	1.6/1.7	2.7/2.9	0.53	200
34/11	M3AA 225 SMB	3GAA 228 209-**-C	1470/985	91.0/85.0	0.91/0.89	60/21	7.7/6.7	221/107	1.5/1.3	2.7/2.3	0.67	225
42/14	M3AA 225 SMC	3GAA 228 210-**-C	1475/985	91.5/89.0	0.89/0.89	75/27	8.4/6.8	272/136	1.7/1.4	3/2.3	0.78	255
63/18.5	M3AA 250 SMB	3GAA 258 205-**-C	1475/985	93.5/87.0	0.89/0.79	110/40	7.5/7.3	408/179	2.4/3	2.7/2.6	0.89	335
<b>1000/750 r/min = 6/8 poles</b>			<b>400 V 50 Hz</b>			<b>Fan drive, two separate windings</b>						
0.25/0.1	M3VA 80 A	3GVA 087 341-**-B	945/725	57.0/41.0	0.68/0.55	0.95/0.65	3.2/2.8	2.6/1.32	2/2.4	2.2/2.9	0.0019	9
0.33/0.14	M3VA 80 B	3GVA 087 342-**-B	940/720	62.0/46.0	0.74/0.56	1.05/0.8	3.4/3.1	3.36/1.86	1.9/2.5	1.9/3	0.0022	10
0.45/0.2	M3AA 90 S	3GAA 098 210-**-E	940/700	59.0/44.0	0.72/0.67	1.6/1	3.1/2.2	4.6/2.7	1.4/1	2/1.7	0.0032	13
0.7/0.3	M3AA 90 L	3GAA 098 211-**-E	930/690	63.0/45.0	0.75/0.64	2.2/1.5	3.1/2.3	7.2/4.1	1.3/1.1	1.8/1.8	0.0043	16
0.9/0.4	M3AA 100 LA	3GAA 108 209-**-E	950/720	68.0/55.0	0.77/0.61	2.5/1.8	3.4/2.7	9.1/5.3	1.2/1.1	1.8/1.8	0.0069	20
1.2/0.5	M3AA 100 LB	3GAA 108 210-**-E	950/710	71.0/57.0	0.71/0.61	3.5/2.1	3.7/2.9	12/6.6	1.3/1.2	2/2	0.0082	23
17/7.5	M3AA 200 MLB	3GAA 208 221-**-C	985/740	88.0/81.5	0.85/0.77	33/17	7.1/6.4	165/97	2.2/2.2	2.5/2.5	0.42	185
20/9	M3AA 200 MLC	3GAA 208 222-**-C	985/740	88.5/82.5	0.84/0.74	39/21	7.6/7	194/116	2.4/2.6	2.7/2.9	0.48	200
26/12	M3AA 225 SMB	3GAA 228 215-**-C	985/740	89.5/84.5	0.85/0.76	49/27	7.4/7.1	252/155	2.2/2.4	2.5/2.7	0.63	225
32/14	M3AA 225 SMC	3GAA 228 216-**-C	985/740	90.5/85.5	0.83/0.76	62/31	7/7.2	310/180	2.4/2.5	2.4/2.5	0.74	250
43/15	M3AA 250 SMB	3GAA 258 208-**-C	990/745	91.0/86.0	0.84/0.75	81/34	7.3/7.4	415/198	2.2/2.7	2.5/2.8	1.41	320
<b>1000/500 r/min = 6-12 poles</b>			<b>400 V 50 Hz</b>			<b>Fan drive, Dahlander-connection</b>						
0.4/0.08	M3VA 80 A	3GVA 088 361-**-B	900/460	62.0/30.0	0.78/0.56	1.2/0.7	3.1/1.9	4.26/1.67	1.6/1.6	1.6/1.7	0.0019	9
0.5/0.105	M3VA 80 B	3GVA 088 362-**-B	915/465	66.0/31.0	0.75/0.52	1.45/0.95	3.7/2	5.23/2.16	1.9/1.9	2/2	0.0022	10
0.6/0.12	M3VA 80 C	3GVA 088 363-**-B	920/470	68.0/32.0	0.74/0.50	1.75/1.05	3.8/2.1	6.24/2.45	2/2	2/2	0.0025	11
0.5/0.08	M3AA 90 S	3GAA 098 107-**-E	920/440	60.0/31.0	0.74/0.59	1.7/0.63	2.9/1.7	5.2/1.7	1.2/1.4	1.8/2	0.0032	13
0.75/0.12	M3AA 90 L	3GAA 098 108-**-E	930/450	64.0/36.0	0.73/0.54	2.4/0.9	3/1.8	7.7/2.5	1.3/1.6	1.9/1.9	0.0043	16
0.9/0.16	M3AA 100 LA	3GAA 108 106-**-E	940/470	69.0/45.0	0.73/0.49	2.6/0.96	3.6/2.1	9/3.2	1.3/1.2	2/1.8	0.0069	20
1.3/0.2	M3AA 100 LB	3GAA 108 107-**-E	940/460	71.0/52.0	0.76/0.47	3.5/1.2	3.4/2.2	13/4	1.2/1	1.8/1.5	0.0082	23

Data for motor size 280 on request.

The bullets in the product code indicate choice of mounting arrangement, voltage and frequency, generation code (see ordering information page).

# General purpose aluminum motors

## Technical data for totally enclosed squirrel cage three phase motors, two-speed

IP 55 – IC 411 – Insulation class F, temperature rise class F

Output kW	Motor type	Product code	Speed r/min	Efficiency %	Power factor cos φ	Current		Torque			Moment of inertia J=1/4 GD <sup>2</sup> kgm <sup>2</sup>	Weight kg
						I <sub>N</sub> A	I <sub>s</sub> / I <sub>N</sub>	T <sub>N</sub> Nm	T <sub>s</sub> / T <sub>N</sub>	T <sub>max</sub> / T <sub>N</sub>		
<b>3000/1500 r/min = 2/4 poles</b>												
<b>400 V 50 Hz</b>												
<b>Constant torque, two separate windings</b>												
0.58/0.28	M3VA 80 A	3GVA 089 121--B	2850/1400	70.0/60.0	0.88/0.78	1.35/0.85	4.4/3.1	1.95/1.92	1.6/1.5	1.9/1.5	0.0008	9
0.7/0.36	M3VA 80 B	3GVA 089 122--B	2860/1400	74.0/64.0	0.88/0.78	1.55/1.05	5/3.4	2.35/2.46	1.8/1.6	2.2/1.8	0.0009	11
0.85/0.42	M3VA 80 C	3GVA 089 123--B	2890/1410	76.0/66.0	0.87/0.76	1.85/1.25	5.6/3.5	2.82/2.85	1.9/1.7	2.5/1.7	0.0012	12
1.1/0.55	M3AA 90 S	3GAA 098 213--E	2900/1450	74.0/62.0	0.85/0.64	2.5/2	5.1/3.6	3.6/3.6	1.4/1.5	2.3/2.3	0.0019	13
1.5/0.75	M3AA 90 L	3GAA 098 214--E	2900/1450	77.0/70.0	0.87/0.67	3.3/2.4	5.7/4.1	4.9/4.9	1.5/1.5	2.5/2.3	0.0024	16
2/1	M3AA 100 L	3GAA 108 212--E	2900/1460	76.0/67.0	0.89/0.66	4.3/3.3	6.2/4	6.5/6.5	1.9/1.4	2.8/2.6	0.0041	21
2.6/1.3	M3AA 112 M	3GAA 118 201--C	2900/1460	80.0/75.0	0.92/0.72	5.1/3.5	6.4/5	8.6/8.5	1.6/1.6	2.3/2.3	0.012	32
4.4/2.2	M3AA 132 SB	3GAA 138 201--C	2925/1450	81.0/74.0	0.86/0.73	9.1/5.9	7.3/4.4	14.4/14.5	2/1.3	2.3/2.2	0.016	42
5.6/2.8	M3AA 132 M	3GAA 138 202--C	2885/1440	82.0/77.0	0.93/0.75	10.6/7	6.7/5	18.5/18.6	1.8/1.4	2.1/2.2	0.022	56
12/6	M3AA 160 M	3GAA 168 359--C	2835/1460	87.5/84.5	0.92/0.80	22/13	7.7/6	39/39	2.1/2.3	2.8/2.4	0.054	92
15/7.5	M3AA 160 L	3GAA 168 360--C	2940/1460	88.5/84.5	0.93/0.78	27/16.5	7.9/6	49/49	2.2/2.4	2.9/2.4	0.057	99
18/9	M3AA 180 L	3GAA 188 352--C	2945/1460	89.0/84.0	0.90/0.77	32/20	7.7/5.2	58/59	2.5/2.3	2.8/2.1	0.108	152
23/12	M3AA 200 MLA	3GAA 208 201--C	2960/1475	90.0/89.0	0.89/0.85	42/23	7.8/7.4	74/77	1.7/2.2	2.8/2.5	0.28	178
30/16	M3AA 200 MLB	3GAA 208 202--C	2960/1475	91.0/90.0	0.90/0.87	53/30	8.2/7.3	97/104	1.8/2.2	2.9/2.5	0.34	204
36/18	M3AA 225 SMB	3GAA 228 201--C	2960/1480	91.5/91.5	0.91/0.76	63/38	8/7.2	116/116	2.5/3.8	2.7/2.5	0.26	236
40/20	M3AA 225 SMC	3GAA 228 202--C	2960/1475	92.0/91.5	0.91/0.79	69/41	8.5/6.5	129/129	2.8/3.3	2.8/2.2	0.29	261
50/25	M3AA 250 SMB	3GAA 258 201--C	2965/1485	93.0/93.0	0.91/0.76	86/52	8.9/8.5	161/161	2.1/3.5	2.9/2.9	0.57	333
<b>3000/1500 r/min = 2-4 poles</b>												
<b>400 V 50 Hz</b>												
<b>Constant torque, Dahlander-connection</b>												
0.11/0.07	M3VA 56 B	3GVA 050 122--A	2730/1370	53.0/44.0	0.75/0.58	0.4/0.4	3.4/2.6	0.38/0.48	2.5/2.7	2.6/2.8	0.00018	3.5
0.2/0.15	M3VA 63 A	3GVA 060 121--A	2800/1400	63.0/54.0	0.70/0.63	0.65/0.65	3.6/2.8	0.68/1.02	2.1/2	2.2/2.1	0.00019	4
0.3/0.2	M3VA 63 B	3GVA 060 122--A	2740/1370	59.0/55.0	0.78/0.63	0.95/0.85	2.8/2.8	1.05/1.4	1.7/2.1	1.8/2.2	0.00026	4.5
0.37/0.25	M3VA 71 A	3GVA 070 121--C	2700/1390	64.0/60.0	0.89/0.79	0.95/0.7	3.3/3.1	1.3/1.72	1.9/1.5	2/1.6	0.00066	5.5
0.48/0.31	M3VA 71 B	3GVA 070 122--C	2780/1400	68.0/68.0	0.91/0.76	1.2/0.9	3.6/4	1.66/2.15	1.4/2	1.5/2.1	0.00089	6.5
0.55/0.37	M3VA 71 C	3GVA 070 123--C	2800/1400	66.0/64.0	0.80/0.65	1.5/1.2	4.7/4.3	1.87/2.52	1.8/1.9	1.9/2	0.0011	7
0.63/0.5	M3VA 80 A	3GVA 080 121--B	2690/1400	66.0/67.0	0.87/0.79	1.6/1.35	3.6/4.2	2.25/3.42	1.8/1.9	1.9/2.1	0.0013	9
0.85/0.65	M3VA 80 B	3GVA 080 122--B	2725/1405	70.0/70.0	0.88/0.80	2/1.7	4/4.4	2.99/4.43	1.9/2	1.9/2.2	0.0016	10
1.1/0.8	M3VA 80 C	3GVA 080 123--B	2730/1410	72.0/71.0	0.88/0.79	2.55/2.05	4.2/4.7	3.8/5.38	2/2	2.1/2.4	0.002	11
1.3/1	M3AA 90 S	3GAA 098 110--E	2730/1400	71.0/71.0	0.88/0.80	3.1/2.6	3.9/3.8	4.5/6.8	2/1.5	2.2/2	0.0032	13
1.9/1.5	M3AA 90 L	3GAA 098 111--E	2820/1420	74.0/75.0	0.82/0.76	4.4/3.9	5.1/4.4	6.4/10	2.8/2	3/2.5	0.0043	16
2.5/2.1	M3AA 100 LA	3GAA 108 109--E	2800/1430	68.0/76.0	0.88/0.81	6/5	4.8/4.4	8.5/14	2.2/1.6	2.5/2.2	0.0069	20
3.4/2.7	M3AA 100 LB	3GAA 108 110--E	2810/1430	78.0/80.0	0.88/0.85	7.2/5.9	5.3/5.4	11.5/18	2.2/1.9	2.5/2.5	0.0082	23
4/2.6	M3AA 112 M	3GAA 118 101--C	2865/1430	82.0/77.0	0.94/0.76	7.6/6.5	6.3/6.2	13.3/17.4	1.8/2.3	2.1/2.6	0.012	32
4.7/3.1	M3AA 132 SB	3GAA 138 101--C	2820/1420	79.0/77.0	0.93/0.76	9.2/7.7	5.5/5.7	15.9/20.8	1.8/2.2	2.1/2.4	0.016	42
7.2/4.8	M3AA 132 M	3GAA 138 102--C	2870/1435	84.0/81.0	0.93/0.76	13.3/11.5	7.1/6.2	24/31.9	2.4/2.5	2.6/2.7	0.022	56
9/6.5	M3AA 160 MA	3GAA 168 306--C	2885/1440	83.0/82.0	0.92/0.74	17.1/15.6	4.6/4.3	40/43	1.3/1.7	1.9/1.9	0.039	73
12.5/9	M3AA 160 M	3GAA 168 307--C	2890/1440	85.5/85.5	0.93/0.80	22.5/19	5.2/4.6	41/60	1.4/1.8	1.9/1.9	0.054	92
15/10.5	M3AA 160 L	3GAA 168 308--C	2900/1445	87.0/86.0	0.93/0.77	27/23	5.8/4.9	49/69	1.6/2.1	2.1/2.1	0.057	99
18/12	M3AA 180 M	3GAA 188 301--C	2940/1455	89.0/89.0	0.88/0.79	33/25	6.8/5.3	59/79	2.1/2.4	2.6/2.2	0.094	132
24/17	M3AA 180 L	3GAA 188 302--C	2945/1455	90.0/90.0	0.89/0.80	43/34	7.4/5.2	78/111	2.4/2.4	2.8/2.1	0.108	152
32/24	M3AA 200 MLA	3GAA 208 101--C	2940/1470	89.0/90.5	0.89/0.86	58/45	6.8/5.9	104/156	1.8/2.1	2.4/2.1	0.28	180
39/29	M3AA 200 MLB	3GAA 208 102--C	2950/1470	90.5/91.0	0.84/0.86	75/53	6.8/7	126/188	1.7/2.2	2.6/2.4	0.34	205
42/32	M3AA 225 SMB	3GAA 228 101--C	2955/1475	92.5/93.0	0.92/0.88	71/57	7.1/6.5	136/207	1.5/1.9	2.5/2.3	0.49	230
50/40	M3AA 225 SMC	3GAA 228 102--C	2965/1480	92.5/93.0	0.84/0.87	87/72	7.4/7.1	161/259	2.4/2.8	3.3/3	0.49	265
68/50	M3AA 250 SMB	3GAA 258 101--C	2940/1475	93.0/93.5	0.93/0.88	113/87	6.6/6.9	220/324	1.5/2.1	2.4/2.5	0.89	335

# General purpose aluminum motors

## Technical data for totally enclosed squirrel cage three phase motors, two-speed

IP 55 – IC 411 – Insulation class F, temperature rise class F

Output kW	Motor type	Product code	Speed r/min	Efficiency %	Power factor cos φ	Current		Torque			Moment of inertia J=1/4 GD <sup>2</sup> kgm <sup>2</sup>	Weight kg
						I <sub>N</sub> A	I <sub>s</sub> / I <sub>N</sub>	T <sub>N</sub> Nm	T <sub>s</sub> / T <sub>N</sub>	T <sub>max</sub> / T <sub>N</sub>		
<b>3000/750 r/min = 2/8 poles</b>			<b>400 V 50 Hz</b>			<b>Constant torque, two separate windings</b>						
0.25/0.06	M3VA 71 A	3GVA 079 141-**-A	2760/660	52.0/36.0	0.94/0.70	0.75/0.35	2.9/1.9	0.86/0.86	1/1.3	1.1/1.4	0.00066	5.5
0.37/0.09	M3VA 71 B	3GVA 079 142-**-A	2800/660	68.0/41.0	0.87/0.65	0.9/0.5	2.8/2	1.26/1.3	1/1.6	1.1/1.7	0.00089	6.5
0.5/0.12	M3VA 80 A	3GVA 089 141-**-B	2730/700	60.0/38.0	0.87/0.58	1.4/0.8	3.2/2.3	1.78/1.64	1.3/2	1.6/2	0.0013	9
0.66/0.15	M3VA 80 B	3GVA 089 142-**-B	2780/700	65.0/40.0	0.87/0.58	1.65/0.95	3.8/2.5	2.55/2.45	1.4/2.2	1.8/2.2	0.0016	10
0.78/0.18	M3VA 80 C	3GVA 089 143-**-B	2800/700	68.0/43.0	0.87/0.57	1.9/1.15	4/2.6	2.67/2.46	1.5/2.4	2.2/2.4	0.002	11
0.75/0.18	M3AA 90 LA	3GAA 098 700-**-E	2875/720	71.2/46.3	0.80/0.51	1.9/1.1	5.7/2.4	2.5/2.4	2.3/1.3	2.7/1.9	0.0043	16
1.3/0.33	M3AA 90 LB	3GAA 098 701-**-E	2780/690	71.0/52.0	0.92/0.62	2.9/1.5	4.5/2.3	4.4/4.5	1.8/1.2	2/1.7	0.0043	16
1.8/0.5	M3AA 100 LB	3GAA 108 700-**-E	2860/705	80.0/54.0	0.93/0.64	3.5/2.1	5.3/2.6	6/6.7	1.7/1.3	2.2/1.9	0.0082	24
<b>1500/1000 r/min = 4/6 poles</b>			<b>400 V 50 Hz</b>			<b>Constant torque, two separate windings</b>						
0.11/0.08	M3VA 63 B	3GVA 069232-**-A	1390/860	40.0/25.0	0.70/0.72	0.55/0.62	2.5/1.8	0.75/0.88	1.4/1.8	1.9/1.9	0.00026	4.5
0.3/0.2	M3VA 71 A	3GVA 079 231-**-C	1390/900	51.0/40.0	0.82/0.72	0.7/0.5	2.8/2	1.37/0.79	1.1/1.05	1.1/1.1	0.00066	5.5
0.37/0.22	M3VA 71 B	3GVA 079 232-**-C	1380/900	58.0/40.0	0.83/0.80	0.9/0.8	2.7/1.9	2.07/1.91	1/1.1	1.1/1.1	0.00089	6.5
0.43/0.28	M3VA 80 A	3GVA 089 231-**-B	1380/910	60.0/54.0	0.85/0.81	1.4/1.2	3.1/2.9	2.54/3.02	1.5/1.4	1.5/1.4	0.0019	9
0.58/0.37	M3VA 80 B	3GVA 089 232-**-B	1390/920	63.0/58.0	0.85/0.80	1.6/1.15	3.3/3.2	4/3.85	1.5/1.5	1.6/1.6	0.0022	10
0.7/0.45	M3VA 80 C	3GVA 089 233-**-B	1390/925	65.0/60.0	0.85/0.78	1.85/1.4	3.4/3.4	4.82/4.66	1.6/1.7	1.7/1.8	0.0025	10
0.8/0.5	M3AA 90 S	3GAA 098 216-**-E	1430/940	68.0/57.0	0.80/0.66	2.2/2	3.9/2.8	5.3/5	1.5/1.4	2.1/2.1	0.0032	13
1.2/0.75	M3AA 90 L	3GAA 098 217-**-E	1430/940	73.0/63.0	0.81/0.67	3/2.6	4.4/3.1	8/7.6	1.7/1.5	2.3/2.1	0.0043	16
1.5/0.9	M3AA 100 LA	3GAA 108 214-**-E	1440/960	75.0/69.0	0.84/0.65	3.5/3	4.7/3.8	9.9/8.9	1.5/1.5	2.2/2.4	0.0069	20
1.8/1.1	M3AA 100 LB	3GAA 108 215-**-E	1460/960	77.0/70.0	0.78/0.64	4.4/3.6	5.8/3.9	11/11	2.1/1.6	3/2.5	0.0082	23
2.6/1.7	M3AA 112 M	3GAA 118 202-**-C	1445/960	80.0/73.0	0.86/0.76	5.5/4.4	5.9/5.2	17.2/16.9	1.5/1.5	2.2/2.4	0.018	33
3.3/2.2	M3AA 132 S	3GAA 138 223-**-C	1470/980	82.0/76.0	0.82/0.65	7.1/6.4	6.8/4.6	21.4/21.4	1.4/1.2	2.5/2.4	0.038	48
4.5/3	M3AA 132 M	3GAA 138 224-**-C	1470/980	82.0/77.0	0.85/0.70	9.3/8	7.2/5.6	29.2/29.2	1.4/1.5	2.3/2.6	0.048	59
7.5/5.5	M3AA 160 M	3GAA 168 361-**-C	1465/965	85.5/80.5	0.83/0.77	15.5/13	7.1/4.7	49/54	2.1/1.8	2.7/1.9	0.089	93
11.5/8.5	M3AA 160 L	3GAA 168 362-**-C	1465/965	86.5/82.5	0.84/0.76	23/19.5	7/4.9	75/84	2.1/1.8	2.8/2	0.119	117
13/8	M3AA 180 M	3GAA 188 353-**-C	1475/975	88.0/82.5	0.82/0.75	26/19	6.5/4.3	84/78	1.9/1.4	2.6/1.8	0.176	131
15/10	M3AA 180 L	3GAA 188 354-**-C	1475/975	88.5/84.0	0.83/0.74	30/23	7.1/4.4	97/98	2.3/1.5	2.7/1.9	0.224	159
18/12	M3AA 200 MLA	3GAA 208 204-**-C	1475/985	88.5/86.0	0.91/0.86	33/24	7.6/7.8	117/116	2.1/2.6	2.5/2.6	0.42	185
22/14.7	M3AA 200 MLB	3GAA 208 205-**-C	1480/985	89.5/86.5	0.89/0.87	40/29	8.2/7.6	142/143	2.4/2.6	2.8/2.5	0.48	200
25/16.7	M3AA 200 MLC	3GAA 208 206-**-C	1475/980	89.0/85.5	0.87/0.88	47/32	7.7/6.7	162/162	2.3/2.3	2.6/2.2	0.48	200
32/21	M3AA 225 SMB	3GAA 228 203-**-C	1480/985	90.0/89.5	0.88/0.86	58/40	8.6/8	206/204	2.3/2.4	2.8/2.7	0.63	225
36/24	M3AA 225 SMC	3GAA 228 204-**-C	1480/985	90.5/90.0	0.88/0.87	66/45	8.4/7.4	232/233	2.2/2.2	2.8/2.5	0.74	250
50/32	M3AA 250 SMB	3GAA 258 202-**-C	1475/985	92.5/90.5	0.89/0.80	89/65	7.5/7.1	324/310	2.3/3.1	2.6/2.6	0.89	335

Data for motor size 280 on request.

The bullets in the product code indicate choice of mounting arrangement, voltage and frequency, generation code (see ordering information page).

# General purpose aluminum motors

## Technical data for totally enclosed squirrel cage three phase motors, two-speed

IP 55 – IC 411 – Insulation class F, temperature rise class F

Output kW	Motor type	Product code	Speed r/min	Efficiency %	Power factor cos φ	Current		Torque			Moment of inertia J=1/4 GD <sup>2</sup> kgm <sup>2</sup>	Weight kg
						I <sub>N</sub> A	I <sub>s</sub> / I <sub>N</sub>	T <sub>N</sub> Nm	T <sub>s</sub> / T <sub>N</sub>	T <sub>max</sub> / T <sub>N</sub>		
<b>1500/750 r/min = 4/8 poles      400 V 50 Hz      Constant torque, two separate windings</b>												
0.28/0.14	M3VA 80 A	3GVA 089 241--B	1425/700	60.0/50.0	0.77/0.68	0.9/0.6	4/3	1.88/1.92	1.9/1.9	2.2/2	0.0019	9
0.38/0.19	M3VA 80 B	3GVA 089 242--B	1430/705	64.0/52.0	0.77/0.68	1.1/0.8	4.2/3.1	2.55/2.58	2/2	2.4/2	0.0022	10
0.46/0.23	M3VA 80 C	3GVA 089 243--B	1430/710	66.0/55.0	0.78/0.65	1.3/0.95	4.3/3.3	3.1/3.1	2/2.1	2.4/2.2	0.0025	11
0.55/0.25	M3AA 90 S	3GAA 098 219--E	1450/700	62.0/51.0	0.78/0.59	1.9/1.2	4.2/2.3	3.6/3.4	1.3/1.4	2.2/2.1	0.0032	13
0.75/0.37	M3AA 90 L	3GAA 098 220--E	1450/700	66.0/57.0	0.75/0.57	2.2/1.7	4.1/2.5	4.9/5	1.4/1.5	2.4/2.2	0.0043	16
1.1/0.55	M3AA 100 LA	3GAA 108 217--E	1460/710	68.0/62.0	0.77/0.61	3.1/2.2	4.2/2.6	7.2/7.4	1.2/1.2	2.3/1.9	0.0069	20
1.5/0.75	M3AA 100 LB	3GAA 108 218--E	1440/700	72.0/60.0	0.82/0.60	3.7/2.9	4.6/2.7	9.8/10	1.3/1.2	2.2/1.9	0.0082	23
1.8/0.9	M3AA 112 M	3GAA 118 203--C	1470/715	77.0/65.0	0.76/0.66	4.4/3	6.5/4	11.7/12	1.2/1.6	2.2/2.4	0.018	32
2.5/1.3	M3AA 132 S	3GAA 138 225--C	1470/730	80.0/69.0	0.79/0.58	5.7/4.7	6.7/4.4	16.2/17	1.6/1.4	2.6/2.7	0.038	48
3.3/1.7	M3AA 132 M	3GAA 138 226--C	1470/725	81.0/71.0	0.83/0.67	7.1/5.2	8/4.8	21.4/22.4	1.8/1.8	2.7/2.2	0.048	59
5.5/2.7	M3AA 160 M	3GAA 168 363--C	1465/730	85.0/71.0	0.83/0.57	11.5/9.6	5.6/4	36/35	1.7/2	2.2/2.3	0.089	92
9/4.5	M3AA 160 L	3GAA 168 364--C	1465/730	86.5/73.5	0.83/0.56	18/16	7/4.1	59/59	2.1/2.1	2.7/2.5	0.119	117
14/7	M3AA 180 L	3GAA 188 356--C	1475/735	88.0/76.0	0.83/0.56	28/24	7.7/4.2	91/91	2.6/2.3	2.9/2.3	0.225	159
18.5/9.4	M3AA 200 MLA	3GAA 208 207--C	1475/730	89.5/82.5	0.85/0.65	35/26	7.3/4.3	120/123	2.2/1.9	2.5/1.8	0.28	180
22/11	M3AA 200 MLB	3GAA 208 208--C	1480/735	90.5/83.0	0.84/0.60	42/32	8.4/4.7	142/143	2.6/2.4	2.9/2.2	0.34	205
28/14	M3AA 225 SMB	3GAA 228 205--C	1480/735	90.0/85.5	0.85/0.61	53/39	7.7/4.9	181/182	2.1/2.4	2.7/2.2	0.41	230
34/17	M3AA 225 SMC	3GAA 228 206--C	1480/735	92.0/87.0	0.86/0.66	63/43	7.9/4.8	219/221	2.2/2.2	2.7/2	0.49	265
50/25	M3AA 250 SMB	3GAA 258 203--C	1480/740	92.5/88.0	0.87/0.60	90/68	8.6/6	323/323	2.6/3.5	3/2.9	0.89	335
<b>1500/750 r/min = 4-8 poles      400 V 50 Hz      Constant torque, Dahlander-connection</b>												
0.11/0.06	M3VA 63 B	3GVA 060 242--A	1390/660	54.0/33.0	0.60/0.49	0.5/0.55	3/1.7	0.75/0.87	1.6/2.5	1.7/2.6	0.00026	4.5
0.18/0.11	M3VA 71 A	3GVA 070 241--C	1380/680	54.0/37.0	0.70/0.53	0.7/0.8	3.2/2.5	1.24/1.54	1.9/2.2	2/2.3	0.00066	5.5
0.3/0.15	M3VA 71 B	3GVA 070 242--C	1400/700	60.0/47.0	0.74/0.51	0.9/0.9	3.2/2.6	2.05/2.05	2/2.5	2.1/2.6	0.00089	6.5
0.45/0.25	M3VA 80 A	3GVA 080 241--B	1380/700	65.0/48.0	0.87/0.58	1.15/1.3	3.5/2.7	3.12/3.42	1.7/2.1	1.7/2.1	0.0019	9
0.63/0.33	M3VA 80 B	3GVA 080 242--B	1380/705	67.0/50.0	0.88/0.56	1.55/1.7	3.5/2.8	4.37/4.48	1.7/2.2	1.7/2.2	0.0022	10
0.75/0.37	M3VA 80 C	3GVA 080 243--B	1390/710	70.0/52.0	0.86/0.51	1.8/2	3.9/2.9	5.16/4.98	1.9/2.5	1.9/2.5	0.0025	10
0.7/0.37	M3AA 90 S	3GAA 098 113--E	1420/700	72.0/50.0	0.80/0.57	1.8/1.9	4.4/2.3	4.7/5.1	1.6/1.6	2.3/2.2	0.0032	13
1.1/0.55	M3AA 90 L	3GAA 098 114--E	1390/685	70.0/55.0	0.84/0.58	2.6/2.6	4.1/2.3	7.4/7.5	1.4/1.5	2/2.1	0.0043	16
1.5/0.75	M3AA 100 LA	3GAA 108 112--E	1440/710	76.0/62.0	0.85/0.57	3.4/3.2	4.6/2.8	10/10	1.4/1.5	2.2/2.2	0.0069	20
2/0.95	M3AA 100 LB	3GAA 108 113--E	1440/710	78.0/64.0	0.86/0.55	4.4/4	4.8/2.9	13/12	1.4/1.6	2.2/2.3	0.0082	23
2.5/1.5	M3AA 112 M	3GAA 118 103--C	1410/705	78.0/67.0	0.90/0.66	5.1/4.9	5.5/4.1	16.9/20.3	1.4/1.5	2.1/2.4	0.018	32
3.8/1.9	M3AA 132 S	3GAA 138 125--C	1450/730	82.0/70.0	0.86/0.52	7.7/7.6	5.6/3.7	25/24.9	1.4/1.3	2.1/2.7	0.038	48
5/2.5	M3AA 132 M	3GAA 138 126--C	1455/730	85.0/73.0	0.88/0.52	9.6/9.6	6.9/4.8	32.8/32.7	1.7/2	2.4/2.8	0.048	59
8/4.5	M3AA 160 M	3GAA 168 309--C	1440/730	84.5/79.5	0.86/0.60	16/13.5	4.5/3.4	53/59	1.3/1.4	1.8/1.9	0.089	92
12/7	M3AA 160 L	3GAA 168 310--C	1445/730	86.5/81.0	0.87/0.59	23/21	5/3.5	79/92	1.5/1.4	1.9/1.9	0.119	117
16/8	M3AA 180 L	3GAA 188 304--C	1460/730	88.0/78.5	0.86/0.53	31/28	1.9/3.4	105/104	1.4/1.6	1.9/2.1	0.224	159
22/13	M3AA 200 MLA	3GAA 208 107--C	1475/735	87.5/86.0	0.81/0.69	45/32	6.5/5.9	142/169	2/2.5	2.6/2.7	0.36	165
25/15	M3AA 200 MLB	3GAA 208 108--C	1475/735	89.0/86.0	0.86/0.67	47/38	7.6/6	162/195	2.2/2.6	2.7/2.7	0.42	185
29/17	M3AA 200 MLC	3GAA 208 109--C	1475/735	90.0/88.0	0.91/0.75	52/38	7.2/6.1	188/221	2.2/2.6	2.4/2.4	0.48	200
35/21	M3AA 225 SMB	3GAA 228 105--C	1475/735	90.0/89.0	0.90/0.74	63/47	6.7/5.8	227/273	1.7/2.1	2.2/2.3	0.63	225
42/25	M3AA 225 SMC	3GAA 228 106--C	1475/735	91.0/89.5	0.91/0.75	74/54	6.8/5.9	272/325	1.8/2.1	2.2/2.2	0.74	250
55/33	M3AA 250 SMB	3GAA 258 103--C	1480/740	92.0/90.5	0.90/0.75	97/71	7.3/6.4	355/426	2.1/2.5	2.5/2.5	1.5	320
<b>1000/750 r/min = 6/8 poles      400 V 50 Hz      Constant torque, two separate windings</b>												
1.6/0.8	M3AA 112 M	3GAA 118 207--C	965/725	72.9/60.0	0.70/0.64	4.5/3	5.6/4.4	15.8/10.6	2.3/2.3	2.6/2.4	0.015	35
2.3/1.3	M3AA 132 S	3GAA 138 213--C	975/730	77.2/63.5	0.72/0.64	6.8/4.6	6.4/4.2	25.4/17	1.6/1.5	2.8/2.3	0.04	48
3.5/1.6	M3AA 132 M	3GAA 138 214--C	975/730	78.8/65.8	0.72/0.66	9/5.2	7.1/5.1	34.2/20.9	2/1.9	2.9/2.4	0.041	48
16/12	M3AA 200 MLB	3GAA 208 219--C	985/740	86.5/82.5	0.85/0.73	31/29	7/6.3	155/155	2.1/2.4	2.4/2.6	0.42	185
18/13.5	M3AA 200 MLC	3GAA 208 220--C	985/740	87.5/83.5	0.83/0.72	36/32	7.9/6.6	174/174	2.5/2.6	2.8/2.8	0.48	200
23/17	M3AA 225 SMB	3GAA 228 213--C	985/740	89.0/85.5	0.84/0.78	46/37	7.9/6.3	222/220	2.3/2.2	2.7/2.3	0.63	225
28/20	M3AA 225 SMC	3GAA 228 214--C	985/740	89.0/86.5	0.86/0.77	57/43	7.1/6.5	272/259	2/2.3	2.4/2.4	0.74	250
37/27	M3AA 250 SMB	3GAA 258 207--C	990/740	90.0/87.5	0.83/0.75	71/59	7.8/6.7	357/348	2.3/2.5	2.7/2.5	1.41	320