

Totally enclosed squirrel cage three phase motors, aluminium frame

IP 55 IC 411 two-speed motors

400 V 50 Hz¹⁾

Output kW	Motor type M2AA	Product code 3GAA	Speed r/min	Efficiency %	Power factor cos φ	Current		Torque			Moment of inertia J=1/4 GD ² kgm ²	Weight kg
						I _N A	I _s /I _N	T _N Nm	T _s /T _N	T _{max} /T _N		
3000/1500 r/min = 2/4 poles Highest output at both speeds, two separate windings												
0.45/0.22	80 A	088 213-●	2890/1440	65/55	0.82/0.62	1.25/0.95	3.8/3.0	1.5/1.5	1.1/1.4	2.1/2.4	0.0009	9
0.65/0.33	80 B	088 214-●	2880/1440	69/61	0.88/0.68	1.6/1.2	4.2/3.4	2.2/2.2	1.2/1.2	2.1/2.1	0.0011	10
1.1/0.55	90 S	098 213-●	2900/1450	74/62	0.87/0.64	2.5/2.0	5.1/3.6	3.6/3.6	1.4/1.5	2.3/2.5	0.0019	13
1.5/0.75	90 L	098 214-●	2900/1450	77/70	0.87/0.67	3.3/2.4	5.7/4.1	4.9/4.9	1.5/1.5	2.5/2.5	0.0024	16
2.0/1.0	100 L	108 212-●	2890/1450	76/68	0.91/0.75	4.2/2.9	5.8/3.7	6.6/6.6	1.7/1.1	2.5/2.0	0.0041	21
2.6/1.3	112 M	118 201-●	2900/1460	80.0/75.0	0.92/0.72	5.1/3.5	6.4/5.0	8.6/8.5	1.6/1.6	2.3/2.3	0.012	32
4.4/2.2	132 SB	138 201-●	2925/1450	81.0/74.0	0.86/0.73	9.1/5.9	7.3/4.4	14.4/14.5	2.0/1.3	2.3/2.2	0.016	42
5.6/2.8	132 M	138 202-●	2885/1440	82.0/77.0	0.93/0.75	10.6/7.0	6.7/5.0	18.5/18.6	1.8/1.4	2.1/2.2	0.022	56
12/6	160 M	168 359-●	2835/1460	87.5/84.5	0.92/0.80	22/13.0	7.7/6.0	39/39	2.1/2.3	2.8/2.4	0.054	92
15/7.5	160 L	168 360-●	2940/1460	88.5/84.5	0.93/0.78	27/16.5	7.9/6.0	49/49	2.2/2.4	2.9/2.4	0.057	99
18/9	180 L	188 352-●	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	200 MLA	208 201-●	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	200 MLB	208 202-●	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	225 SMB	228 201-●	2960/1480	91.5/91.5	0.91/0.76	63/38	8.0/7.2	116/116	2.5/3.8	2.7/2.5	0.26	236
40/20	225 SMC	228 202-●	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	250 SMB	258 201-●	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

3000/1500 r/min = 2/4 poles Highest output at both speeds, Dahlander-connection

0.45/0.3	71 B	078 111-●	2700/1390	60/61	0.87/0.77	1.3/1.0	3.0/3.2	1.6/2.0	1.6/1.6	1.8/2.0	0.0009	6.5
0.6/0.45	80 A	088 110-●	2770/1400	63/66	0.83/0.80	1.7/1.3	3.4/3.4	2.0/3.0	1.6/1.4	2.0/1.9	0.0017	9
0.85/0.65	80 B	088 111-●	2770/1400	68/68	0.86/0.84	2.1/1.7	3.8/3.5	2.9/4.4	1.7/1.4	2.1/1.8	0.0021	10
1.3/1.0	90 S	098 110-●	2730/1400	71/71	0.88/0.80	3.1/2.6	3.9/3.8	4.5/6.8	2.0/1.5	2.2/2.0	0.0032	13
1.9/1.5	90 L	098 111-●	2820/1420	76/75	0.82/0.76	4.4/3.9	5.1/4.4	6.4/10	2.8/2.0	3.0/2.5	0.0043	16
2.5/2.1	100 LA	108 109-●	2800/1430	68/76	0.89/0.81	6.0/5.0	4.8/4.4	8.5/14	2.4/1.6	2.7/2.2	0.0069	20
3.1/2.5	100 LB	108 110-●	2820/1440	72/79	0.90/0.80	7.0/5.7	5.5/5.1	10/16	2.6/1.8	2.9/2.5	0.0082	23
4/2.6	112 M	118 101-●	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	132 SB	138 101-●	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	132 M	138 102-●	2870/1435	84.0/81.0	0.93/0.76	13.3/11.5	7.1/6.2	24.0/31.9	2.4/2.5	2.6/2.7	0.022	56
9/6.5	160 MA	168 306-●	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	160 M	168 307-●	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	160 L	168 308-●	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	180 M	188 301-●	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	180 L	188 302-●	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	200 MLA	208 101-●	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	200 MLB	208 102-●	2950/1470	90.5/91.0	0.84/0.86	75/53	6.8/7.0	126/188	1.7/2.2	2.6/2.4	0.34	205
42/32	225 SMB	228 101-●	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	225 SMC	228 102-●	2960/1475	92.5/93.0	0.84/0.87	94/71	7.4/7.1	161/259	1.8/2.0	2.8/2.5	0.49	265
68/50	250 SMB	258 101-●	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

¹⁾ Sizes 63 to 100 voltage code H.
 Sizes 112 to 250 voltage code D.

The bullet indicates a 3-letter product code supplement for choice of mounting arrangement (page 11, pos. 12), voltage and frequency (below) and generation code (page 11, pos. 14).

Code letters for supplementing the product code

Motor size	Code letter for voltage and frequency						
	A	S	B	D	H	E	X
63-100	-	220-230 V	-	380-400 V ¹⁾	400-415 V	500 V	Other rated voltage or frequency, 690 V maximum
112-132	-	220-230 V	-	380-400 V	400-415 V	500 V	
160-250	220 V	230 V	380 V	400 V	415 V	500 V	

¹⁾ Restamping from code H. Note that this results in a certain reduction of output. Rated output on request.