

**Totally enclosed squirrel cage
three phase motors, cast iron frame
IP 55 IC 411**

**Insulation class F
Temperature rise class B**

400 V 50 Hz

Output kW	Motor type M2BA	Product code 3GBA	Speed r/min	Effi- ciency %	Power factor cos φ	Current		Torque			Moment of inertia J = ¼ GD ² kgm ²	Weight kg
						I _N A	I _s I _N	T _N Nm	T _s T _N	T _{max} T _N		
600 r/min = 10 poles												
Basic design												
3	160 MA	165 310-→D	560	79.2	0.61	8.95	4.8	51	1.6	2.1	0.071	100
4	160 M	165 300-→D	560	79.5	0.60	12.1	4.8	68	1.7	2.1	0.09	113
5.5	160 L	165 500-→D	565	81.6	0.60	16.2	5.0	93	1.7	2.2	0.121	126
7.5	180 L	185 500-→D	575	85.1	0.65	19.6	5.6	124	1.5	2.0	0.223	177
11	200 MLA	205 410-→D	585	86.3	0.66	28	5.8	179	1.2	1.8	0.45	250
15	200 MLB	205 420-→D	585	86.4	0.68	37	5.9	245	1.2	1.8	0.53	275
18.5	225 SMB	225 220-→D	585	87.5	0.65	47	5.9	302	1.2	1.8	0.68	320
22	225 SMC	225 230-→D	585	87.8	0.66	55	5.8	359	1.2	1.8	0.79	345
30	250 SMB	255 220-→D	590	89.4	0.61	79	5.3	485	1.0	1.6	1.51	460
37	280 SMB	285 220-→A	593	92.8	0.73	80	6.1	596	1.4	2.8	2.2	610
45	280 SMC	285 230-→A	592	93.2	0.76	93	6.2	726	1.4	2.8	2.85	690
55	315 SMB	315 220-→A	594	94.4	0.78	108	6.7	884	1.6	2.7	4.1	910
75	315 SMC	315 230-→A	593	94.3	0.78	149	6.4	1208	1.6	2.6	4.9	980
90	315 MLA	315 410-→A	593	94.5	0.78	177	6.6	1449	1.7	2.7	5.8	1100
110	355 S	355 100-→A	595	94.5	0.77	218	6.3	1765	1.3	2.7	10.4	1550
132	355 SMA	355 210-→A	595	94.7	0.79	255	6.4	2118	1.2	2.6	12.5	1800
160	355 MLA	355 410-→A	595	94.9	0.77	316	6.6	2568	1.3	2.7	14.6	2100
160	400 M	405 300-→A	595	94.9	0.77	316	6.6	2568	1.3	2.7	14.6	2150
200	400 LKA	405 510-→A	595	95.2	0.79	380	6.3	3210	1.3	2.6	16.5	2800
250	400 LKB	405 520-→A	595	95.5	0.79	480	6.1	4012	1.3	2.6	19	3050

500 r/min = 12 poles

Basic design

7.5	200 MLA	206 410-→D	485	83.5	0.62	21	5.3	148	1.8	2.3	0.45	250
11	225 SMB	226 220-→D	485	86.2	0.60	31	5.1	216	1.5	2.1	0.68	320
15	250 SMC	226 230-→D	485	86.5	0.60	42	4.8	295	1.4	2.1	0.8	345
18.5	250 SMB	256 220-→D	485	89.0	0.63	48	5.5	364	1.6	2.2	1.52	460
30	280 SMB	286 220-→A	493	91.8	0.60	78	6.0	581	2.0	3.1	2.2	610
37	280 SMC	286 230-→A	493	92.1	0.61	96	6.3	717	2.1	3.2	2.85	690
45	315 SMB	316 220-→A	494	93.4	0.76	92	6.5	870	1.6	2.6	4.1	910
55	315 SMC	316 230-→A	493	93.6	0.77	112	6.5	1065	1.6	2.6	4.9	980
75	315 MLA	316 410-→A	493	93.8	0.77	153	6.2	1453	1.6	2.5	5.8	1100
90	355 S	356 100-→A	494	93.5	0.72	193	5.8	1740	1.3	2.2	10.4	1550
110	355 SMA	356 210-→A	494	94.0	0.74	228	5.9	2126	1.3	2.2	12.5	1800
132	355 MLA	356 410-→A	494	94.1	0.75	270	5.9	2552	1.3	2.2	14.6	2100
132	400 M	406 300-→A	494	94.1	0.75	270	5.9	2552	1.3	2.2	14.6	2150
160	400 LKA	406 510-→A	494	94.2	0.76	320	5.9	3093	1.3	2.2	16.5	2800
200	400 LKB	406 520-→A	494	94.5	0.74	410	5.8	3866	1.3	2.3	19	3050

Further details or special designs on request.

Please note that the frequency converter application in critical conditions may require special rotor design within 355 and 400 frame motors. We therefore recommend a separate checking.

Data for smaller frame sizes and other voltages on request.

The two bullets in the product code indicate choice of mounting arrangement (page 15, pos 12), voltage and frequency (below).

Code letters for supplementing the product code for voltage and frequency:

A	B	D	E	F	H
380 VY 50 Hz	380 VΔ 50 Hz	380-420 VΔ 50 Hz 660-690 VY 50 Hz 440-480 VΔ 60 Hz	500 VΔ 50 Hz 575 VΔ 60 Hz	500 VY 50 Hz 575 VY 60 Hz	415 VΔ 50 Hz
S	T	U	X		
220-240 VΔ 50 Hz 380-420 VY 50 Hz 440-480 VY 60 Hz	660 VΔ 50 Hz	690 VΔ 50 Hz	Other rated voltage, connection or frequency, max. 690 V		