

**Totally enclosed squirrel cage
three phase motors, steel frame
IP 55 IC 411 two-speed motors**

**Insulation class F
Temperature rise class F**

400 V 50 Hz

Output kW	Motor type M2CA	Product code 3GCA	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	$\frac{I_s}{I_N}$	T _N Nm	$\frac{T_s}{T_N}$	$\frac{T_{max}}{T_N}$		
1500/1000 r/min = 4/6 poles												
Fan drive, two separate windings												
60/18.5	280 SA	288 114-•	1487/991	93.5/88.0	0.82/0.76	113/40	7.7/7.4	385/178	2.3/2.9	3.0/2.6	1.15	445
77/25	280 SMA	288 214-•	1486/991	93.9/89.3	0.83/0.76	144/54	7.6/7.7	495/241	2.4/3.2	2.9/2.7	1.4	490
90/28	280 MB	288 324-•	1485/991	94.2/89.8	0.86/0.78	161/58	7.4/7.7	579/270	2.3/3.2	2.7/2.8	1.7	550
110/32	315 SMA	318 214-•	1489/992	95.2/91.2	0.85/0.78	199/67	6.6/6.5	706/308	1.9/2.8	2.6/2.9	2.3	730
125/37	315 MB	318 324-•	1488/992	95.5/92.2	0.86/0.79	219/75	6.6/6.4	802/356	1.9/2.9	2.4/2.8	2.9	850
150/44	315 LA	318 514-•	1488/991	95.7/92.6	0.87/0.79	260/88	6.6/6.4	963/424	1.9/3.0	2.4/2.7	3.5	970
170/55	355 MA	358 314-•	1484/986	95.0/91.2	0.90/0.85	285/100	5.6/5.0	1094/532	1.2/1.3	2.4/2.2	6.5	1350
260/85	355 LA	358 514-•	1487/988	95.7/92.0	0.90/0.85	435/155	7.7/5.9	1670/821	1.7/1.6	3.2/2.4	7.8	1550

1500/750 r/min = 4 - 8 poles												
Fan drive, Dahlander-connection												
65/15	280 SA	288 119-•	1484/743	93.2/90.0	0.84/0.63	121/38	7.5/5.3	418/193	2.7/2.8	2.9/2.3	1.15	445
80/20	280 SMA	288 219-•	1486/743	93.8/91.5	0.83/0.63	150/50	8.5/5.4	514/257	3.3/2.9	3.4/2.6	1.4	490
90/23	280 MB	288 329-•	1486/742	94.1/91.8	0.85/0.64	164/56	8.8/5.4	578/296	3.6/2.8	3.5/2.6	1.7	550
110/22	315 SMA	318 219-•	1487/744	94.6/92.5	0.85/0.62	197/56	6.8/4.9	706/282	1.9/2.1	2.6/2.5	2.3	730
132/26	315 MB	318 329-•	1486/746	94.9/93.0	0.86/0.64	235/65	6.8/4.8	848/334	2.0/2.0	2.6/2.4	2.9	850
160/32	315 LA	318 519-•	1486/743	95.2/93.4	0.86/0.64	283/80	7.0/4.8	1028/411	2.1/2.1	2.7/2.5	3.5	970
200/40	355 MA	358 319-•	1489/745	95.3/93.7	0.90/0.68	340/90	6.8/4.8	1282/512	1.4/1.3	2.8/2.5	6.5	1350
250/50	355 LA	358 519-•	1490/745	95.5/94.0	0.87/0.64	435/120	7.5/5.1	1602/641	1.5/1.4	3.2/2.6	7.8	1550

1500/1000 r/min = 4/6 poles												
Constant torque, two separate windings												
50/32	280 SA	289 114-•	1486/987	92.0/90.5	0.84/0.78	94/65	6.9/6.2	321/310	2.0/2.5	2.6/2.2	1.15	445
60/40	280 SMA	289 214-•	1486/987	92.6/91.8	0.85/0.78	111/82	7.1/6.6	386/387	2.1/2.8	2.7/2.3	1.4	490
70/47	280 MB	289 324-•	1488/989	93.2/92.6	0.84/0.77	131/96	8.0/7.4	450/454	2.6/3.4	3.1/2.5	1.7	550
90/60	315 SMA	319 214-•	1488/990	94.3/93.5	0.86/0.77	161/121	5.9/5.8	577/579	1.5/2.6	2.3/2.4	2.3	730
110/75	315 MB	319 324-•	1490/989	94.9/93.9	0.86/0.79	195/147	6.8/5.6	705/724	1.9/2.7	2.6/2.3	2.9	850
132/90	315 LA	319 514-•	1489/990	95.1/94.1	0.85/0.76	238/181	6.7/6.0	847/868	1.9/3.1	2.7/2.7	3.5	970
160/110	315 LB	319 524-•	1491/990	95.3/94.5	0.85/0.79	287/213	7.2/5.8	1025/1061	2.1/2.8	2.7/2.3	3.9	1000
180/120	355 MA	359 314-•	1488/990	95.0/94.3	0.89/0.80	305/230	7.2/7.3	1155/1157	1.4/2.0	3.1/3.1	6.5	1350
230/150	355 LA	359 514-•	1489/990	95.3/94.5	0.89/0.82	395/280	7.7/6.9	1475/1447	1.5/2.0	3.2/2.9	7.8	1550

1500/750 r/min = 4 - 8 poles												
Constant torque, Dahlander-connection												
50/32	280 SA	289 119-•	1486/743	92.7/91.8	0.88/0.70	89/72	7.2/6.9	321/411	1.9/2.7	2.6/2.5	1.85	460
65/40	280 SMA	289 219-•	1486/743	93.1/92.0	0.88/0.69	115/92	7.7/7.2	418/514	2.1/3.1	2.7/2.7	2.2	500
85/50	280 MB	289 329-•	1487/743	93.8/92.8	0.88/0.68	149/115	8.5/7.7	546/643	2.5/3.4	2.9/2.9	2.85	575
100/65	315 SMA	319 219-•	1487/742	94.2/93.8	0.89/0.74	174/137	6.5/6.3	642/836	1.5/2.1	2.6/2.5	4.1	755
120/75	315 MB	319 329-•	1486/742	94.5/94.1	0.90/0.74	204/155	7.0/6.5	739/965	1.7/2.2	2.6/2.6	4.9	845
150/95	315 LA	319 519-•	1486/742	94.7/94.2	0.89/0.72	262/204	7.2/6.5	964/1223	2.0/2.4	2.8/2.6	5.8	950
150/100	355 MA	359 319-•	1487/741	94.7/94.3	0.90/0.72	255/210	5.6/4.4	963/1288	1.2/1.2	2.5/2.2	6.5	1350
180/130	355 LA	359 519-•	1488/742	95.2/94.6	0.90/0.72	305/275	6.6/4.5	1155/1673	1.4/1.3	2.8/2.2	7.8	1550

Data for other number of poles and frame size 400 on request.

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 letter for voltage and frequency:

A	B	D	E	H	S
220 V 50 Hz	380 V 50 Hz	380-400 V 50 Hz	500 V 50 Hz	400-415 V 50 Hz	220-230 V 50 Hz
		440-480 V 60 Hz	575 V 60 Hz	460-480 V 60 Hz	