



《符合新修定CNS14400/C4482高效率標準》

# MEZ

## 歐洲進口馬達

- ▶ 低壓三相鼠籠型高效率感應電動機
- ▶ 保護型式 IP55，採用鑄造式防水接線盒
- ▶ 採用 IEC 公制國際標準尺寸
- ▶ 全系列F級絕緣 B級溫昇(63-315L)



Type 14BG  
(180M-315L)

CE



Type 7AA  
(63-160L)

## MEZ 歐洲進口馬達

### 《規範表》

項目	標準規範
種類	三相鼠籠式感應電動機
設計依據	國際電工委員會(IEC)、歐盟(EN)、德國工業標準(DIN)、中國國家標準(CNS14400、C4482)
電壓	額定電壓220-240VD/380-420V Y/50HZ 380-420VD/660-725V Y/50HZ 220VD/380VY/60HZ、380VD/60HZ、440-480VD/60HZ
頻率	額定頻率50HZ或60HZ
輸出馬力	2P:0.25HP~2.75HP、4P:0.25HP~2.75HP、6P:0.25HP~2.00HP
同步轉速	3000~1000R.P.M(50HZ,2P~6P)、3600~1200R.P.M(60HZ 2P~6P)
時間額定	連續使用額定S1
框號	63~315L
保護方式	全密封外扇型(IP55)、防塵埃、防水濺、依據 EN 60034-5 標準
冷卻方式	全密封(IC411)外扇冷卻
安裝方式	IMB3水平腳座安裝式(臥式)、IMB5水平突緣型安裝式(立式)
電源	電壓變動率±5%以內，依據 EN 60034-1 標準
場所	一般室內或屋外
周溫	-30°C~+40°C
濕度	相對濕度95%/25°C
標高	海拔1000公尺以下
帶動方式	皮帶輪帶動，但2極30HP及以上使用聯軸器帶動
轉向	雙轉向
起動方式	全壓直接起動或Y-△起動
軸承	框號280以上為注油脂式，雙面開放式滾珠或滾筒軸承，其餘為預注油脂式，雙遮蓋密封式滾珠軸承
出線盒	鑄造式防水接線盒附電纜線進口孔，由負載端視之位於框架上方
出口線	出口線數條，附有接線端子座
定子絕緣	框號63~315L 全系列F級絕緣
溫昇	B級溫昇80°C
螺紋	國家標準組織ISO-M公制尺寸
測試程序	依據國際電工委員會 IEC 34，使用全壓起動測試

## 營業項目

- Siemens, MEZ 單三相鼠籠式高效率感應電動機
- Siemens 防爆馬達 (EExe, EExd)
- Siemens 高壓馬達、控制盤、變頻器
- Siemens 耐高溫排煙馬達(400°C/2hr)
- 變頻馬達 (附加強制冷卻風扇、譯碼器)
- 煞車馬達

經銷商

總代理

**九益股份有限公司**

11/2004

製造商

**Siemens Elektromoty s.r.o.**

Plant : Mohelnice & Frenštát

2004年11月修訂



# 特性

- 全密閉外扇型 • 保護型式 IP55 • 絕緣等級 F • 溫昇等級 B • 連續額定 S1

400V 50HZ

型式	框號	輸出		滿載轉速 rpm	滿載效率 %	滿載功因 %	滿載電流A 400V	啟動電流	轉矩			轉動慣量 km <sup>2</sup>	概略重量 IM B3 Kg
		KW	HP						滿載轉矩 NM	啟動轉矩 %	最大轉矩 %		
7AA63M02K	63			2820	63.0	82.0	0.51	3.7	0.61	200	220	0.00018	4.0
7AA63M04	63	0.18	1/4	1350	60.0	77.0	0.56	3.0	1.3	200	210	0.0004	4.5
7AA71M06K	71			910	50.0	75.0	0.62	2.3	2.0	210	230	0.0006	5.5
7AA71M02K-G	71M			2830	66.0	82.0	0.95	3.5	1.3	230	240	0.00035	5.5
7AA71M04-G	71M	0.37	1/2	1370	66.0	79.0	1.05	3.3	2.5	210	220	0.0008	6.5
7AA80M06K-G	80M			920	62.0	72.0	1.10	2.3	3.9	200	220	0.0015	9.0
7AA80M02K-G	80M			2855	75.0	84.0	1.71	5.6	2.5	230	240	0.00085	8.5
7AA80M04-G	80M	0.75	1	1395	74.0	79.0	1.71	4.2	5.1	230	245	0.0018	11.0
7AA90S06-G	90S			920	69.0	76.0	2.00	3.9	8.0	220	239	0.0028	13.0
7AA90S02-G	90S			2860	78.0	85.0	3.30	5.5	5.0	240	270	0.0015	13.0
7AA90L04-G	90L	1.5	2	1420	80.0	80.0	3.40	5.3	10.1	240	260	0.0035	15.6
7AA100L06-G	100L			930	74.0	75.0	3.90	4.2	15.5	220	240	0.0063	24.0
7AA90L02-G	90L			2880	81.0	85.0	4.60	6.3	7.3	260	280	0.002	15.6
7AA100L04K-G	100L	2.2	3	1420	82.0	82.0	4.70	5.6	14.8	250	280	0.0048	26.0
7AA112M06-G	112M			940	78.0	78.0	5.20	4.6	22.3	220	250	0.011	29.0
7AA100L02-G	100L			2890	84.0	85.0	6.10	6.8	9.9	260	280	0.0038	24.0
7AA100L04-G	100L	3	4	1430	83.0	82.0	6.40	5.6	20.2	270	290	0.0058	27.0
7AA112M06-G	112M			940	80.0	78.0	7.00	4.8	30.8	240	270	0.015	30.0
7AA112M02-G	112M			2905	84.0	85.0	8.10	7.2	13.1	260	290	0.0055	30.0
7AA112M04-G	112M	4	5.5	1440	85.0	82.0	8.30	6.0	26.5	270	300	0.011	32.0
7AA132S06K-G	132S			950	81.0	78.0	9.10	4.5	40.2	210	240	0.019	46.0
7AA132S02K-G	132S			2915	85.0	85.0	11.00	5.5	18.0	230	280	0.016	50.0
7AA132S04-G	132S	5.5	7.5	1455	85.0	82.0	11.40	6.3	36.1	250	310	0.018	55.0
7AA132M06-G	132M			950	82.0	78.0	12.40	5.0	55.3	230	260	0.025	60.0
7AA132S02-G	132S			2915	86.0	86.0	14.60	6.3	24.4	240	280	0.021	55.0
7AA132M04-G	132M	7.5	10	1455	87.0	82.0	15.20	6.7	49.2	270	300	0.024	60.0
7AA160M06-G	160M			960	83.0	78.0	16.70	4.6	74.6	200	250	0.041	76.0
7AA160M02K-G	160M			2915	87.0	86.0	21.20	6.0	36.0	220	270	0.034	77.0
7AA160M04-G	160M	11	15	1460	88.5	84.0	21.40	6.3	72.0	230	275	0.04	76.0
7AA160L06-G	160L			960	85.0	80.0	23.30	4.8	109.4	230	260	0.049	102.0
7AA160M02-G	160M			2925	88.5	87.0	28.10	6.4	49.0	240	260	0.04	85.0
7AA160L04-G	160L	15	20	1460	90.0	84.0	28.60	6.5	98.1	260	280	0.052	94.0
14BG186-6GA	180L			965	89.0	82.0	29.70	5.3	148.0	230	250	0.175	150.0
7AA160L02-G	160L			2935	89.0	88.0	34.10	7.1	60.0	260	290	0.052	105.0
14BG183-4GA	180M	18.5	25	1465	90.4	84.0	35.20	6.7	121.0	240	290	0.099	150.0
14BG188-6GA	180L			970	89.5	83.0	36.00	4.9	182.0	230	250	0.203	155.0
14BG183-2GA	180M			2945	90.0	88.0	40.10	6.4	71.0	250	290	0.068	145.0
14BG186-4GA	180L	22	30	1470	91.0	84.0	41.50	6.9	143.0	250	300	0.117	155.0
14BG207-6GA	200L			975	90.0	83.0	42.50	5.7	215.0	240	260	0.287	205.0
14BG188-2GA	180L			2950	91.0	88.5	54.00	6.5	97.0	230	280	0.129	175.0
14BG188-4GA	180L	30	40	1470	91.5	85.0	56.00	6.7	196.0	250	290	0.191	180.0
14BG208-6GA	200L			975	90.6	83.0	58.00	5.8	294.0	240	270	0.362	245.0
14BG207-2GA	200L			2955	92.0	89.0	65.00	7.2	120.0	250	280	0.153	225.0
14BG208-4GA	200L	37	50	1478	92.0	85.0	68.00	6.5	241.0	260	290	0.234	230.0
14BG228-6GA	225M			978	92.2	83.0	70.00	5.9	361.0	250	280	0.624	325.0
14BG208-2GA	200L			2955	93.6	89.0	78.00	6.9	145.0	250	300	0.182	255.0
14BG223-4GA	225M	45	60	1478	93.1	86.0	81.00	7.2	291.0	270	310	0.447	300.0
14BG258-6GA	250M			982	93.0	84.0	83.00	6.3	438.0	240	270	0.934	405.0
14BG228-2GA	225M			2965	94.0	89.0	95.00	7.3	177.0	260	300	0.266	335.0
14BG228-4GA	225M	55	75	1480	93.4	86.0	99.00	6.5	356.0	250	270	0.486	330.0
14BG283-6GA	280M			985	93.2	85.0	100.00	6.3	533.0	250	265	1.37	510.0
14BG258-2GA	250M			2975	94.5	89.0	129.00	7.1	241.0	240	290	0.483	420.0
14BG258-4GA	250M	75	100	1485	94.0	86.0	134.00	7.0	483.0	250	300	0.856	460.0
14BG288-6GA	280M			985	93.8	85.0	136.00	6.8	727.0	280	300	1.65	570.0
14BG283-2GB	280M			2975	95.0	89.0	154.00	7.2	289.0	260	290	0.832	540.0
14BG283-4GA	280M	90	125	1485	94.6	86.0	160.00	7.4	579.0	250	290	1.39	530.0
14BG313-6GA	315M			988	93.9	85.0	163.00	6.8	870.0	260	290	2.5	750.0
14BG288-2GB	280M			2975	95.5	90.0	185.00	7.0	353.0	250	280	1.0	630.0
14BG288-4GA	280M	110	150	1488	95.0	86.0	194.00	7.9	706.0	270	310	1.71	680.0
14BG316-6GA	315L			988	94.3	86.0	196.00	6.8	1063.0	250	290	3.2	890.0
14BG313-2GB	315M			2982	95.6	90.0	221.00	6.9	423.0	240	300	1.39	775.0
14BG313-4GA	315M	132	175	1488	95.2	86.0	233.00	6.8	847.0	270	290	2.31	810.0
14BG317-6GA	315L			988	94.8	86.0	234.00	7.3	1276.0	280	300	4.02	980.0
14BG316-2GB	315L			2985	95.7	90.5	267.00	7.0	512.0	240	290	1.62	900.0
14BG316-4GA	315L	160	215	1488	95.7	86.0	280.00	6.8	1028.0	270	290	2.88	955.0
14BG318-6GA	315L			988	95.0	86.0	283.00	7.5	1547.0	280	300	4.71	1180.0
14BG317-2GB	315L			2985	95.9	91.0	331.00	6.7	641.0	250	290	2.09	1015.0
14BG317-4GA	315L	200	270	1488	95.9	88.0	342.00	6.5	1285.0	260	280	3.46	1060.0
14BG319-6GA	315L			990	95.6	86.0	351.00	7.5	1929.0	290	320	5.72	1400.0

# 特性

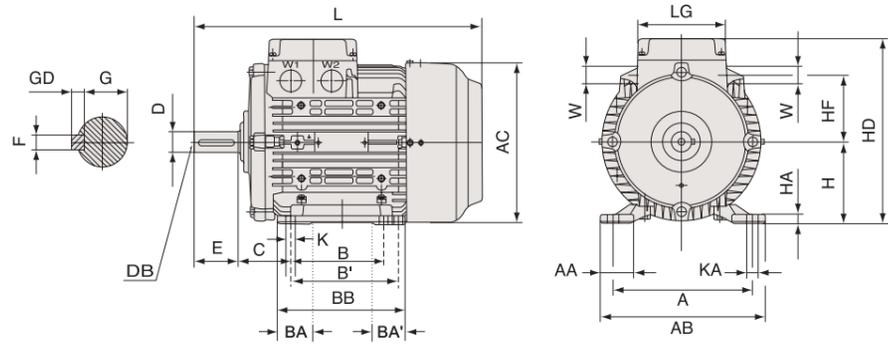
- 全密閉外扇型 • 保護型式 IP55 • 絕緣等級 F • 溫昇等級 B • 連續額定 S1

《符合新修定CNS14400/C4482高效率標準》 220/380V 60HZ

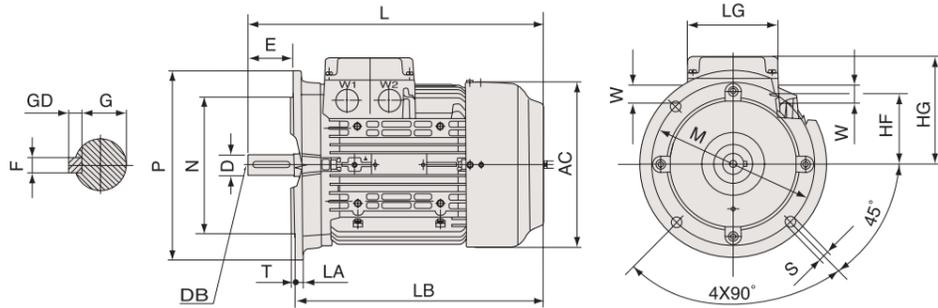
型式	框號	輸出		滿載轉速 rpm	滿載效率 %	滿載功因 %	滿載電流A		啟動電流	轉矩			轉動慣量 km <sup>2</sup>	概略重量 IM B3 Kg
		KW	HP				220V	380V		滿載轉矩 NM	啟動轉矩 %	最大轉矩 %		
7AA63M02K	63			3310	65.0	78.0	0.93	0.54	3.9	0.6	220	230	0.00016	4.0
7AA63M04	63	0.18	1/4	1650	62.0	75.0	1.02	0.59	4.0	1.2	225	234	0.0004	4.5
7AA71M06K	71			1070	63.0	66.0	1.13	0.65	3.0	1.9	200	210	0.0006	5.5
7AA71M02K-G	71M			3340	71.0	81.0	1.7	1.0	4.7	1.1	235	248	0.00035	5.5
7AA71M04-G	71M	0.37	1/2	1680	70.0	73.0	1.9	1.1	4.2	2.5	227	235	0.0008	6.5
7AA80M06K-G	80M			1090	68.0	68.0	2.1	1.2	3.3	3.2	210	230	0.0015	9.0
7AA80M02K-G	80M			3450	75.0	81.0	3.2	1.8	5.5	2.1	240	260	0.00085	8.5
7AA80M04-G	80M	0.75	1	1710	81.0	76.0	3.2	1.8	5.1	4.2	250	265	0.0018	11.0
7AA90S06-G	90S			1115	78.0	70.0	3.6	2.1	4.2	6.4	230	245	0.0028	13.0
7AA90S02-G	90S			3460	82.5	84.0	5.7	3.3	6.0	4.1	250	265	0.0015	13.0
7AA90L04-G	90L	1.5	2	1720	82.0	77.4	6.2	3.6	5.4	9.7	230	250	0.0035	15.6
7AA100L06-G	100L			1130	85.0	70.0	6.6	3.8	4.8	12.0	240	255	0.0063	24.0
7AA90L02-G	90L			3480	84.0	85.0	8.1	4.7	6.5	7.0	250	270	0.002	15.6
7AA100L04K-G	100L	2.2	3	1720	86.0	77.0	8.7	5.0	6.4	14.2	235	260	0.0048	26.0
7AA112M06-G	112M			1140	86.0	72.0	9.3	5.4	5.3	21.4	230	245	0.011	29.0
7AA100L02-G	100L			3490	85.0	86.0	11.0	6.4	6.7	9.4	250	271	0.0038	24.0
7AA100L04-G	100L	3	4	1730	86.0	80.0	11.4	6.6	5.9	19.2	260	282	0.0058	27.0
7AA112M06-G	112M			1140	86.0	72.0	12.7	7.4	4.6	24.0	230	245	0.015	30.0
7AA112M02-G	112M			3500	86.0	86.0	14.2	8.2	7.2	12.6	240	280	0.0055	30.0
7AA112M04-G	112M	4	5.5	1740	86.0	81.0	15.0	8.7	7.1	22.0	280	300	0.011	32.0
7AA132S06														

## 7AA外型尺寸圖

B3



B5



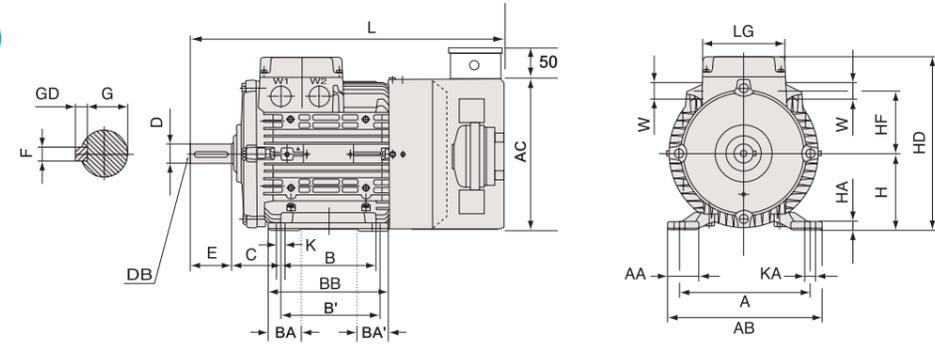
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63	7AA63M02K 7AA63M04	100	27	120	118	80	-	-	-	96	40	63	7	164	77.5	7	10	203	75	-	-	-	11j6	-	23	4	8.5	4
71	7AA71M02K-G 7AA71M04-G 7AA71M06K	112	30.5	132	139	90	-	27	-	106	45	71	7	182	87.5	7	10	240	75	-	M16x1.5	M25x1.5	14j6	M5x12.5	30	5	11	5
80	7AA80M02K-G,04K-G,06K-G 7AA80M06-G 7AA80M04-G	125	30.5	150	156.5	100	-	32	-	118	50	80	8	200	96.5	9.5	13.5	273.5 316	75	-	-	-	19j6	M6x16	40	6	15.5	6
90S	7AA90S02-G,S06-G,S08-G	140	30.5	165	173.6	100 (100)	125	33	54	143	56	90	10	218	104.5	10	14	331	75	-	-	-	24j6	M8x19	50	8	20	7
90L	7AA90L02-G,L04-G,L08-G	140	30.5	165	173.6	100 (100)	125	33	54	143	56	90	10	218	104.5	10	14	331	75	-	-	-	24j6	M8x19	50	8	20	7
100L	7AA100L02-G,7AA100L08K-G 7AA100L04K-G 7AA100L04-G,7AA100L06-G	160	42	196	196	140	-	45 (47)	-	176	63	100	12	263	123	12	16	372 425	120	-	-	-	28j6	M10x22	60	8	24	7
112M	7AA112M04-G,7AA112M08-G 7AA112M02-G,7AA112M06-G	190	46	226	219.5	140	-	47	-	176	70	112	12	288	136	12	16	393 431	120	-	-	-	28j6	M10x22	60	8	24	7
132S	7AA132S02K-G,S06-G,S08-G 7AA132S02-G 7AA132S04-G	216	53	256	259	140	-	49	-	180	89	132	15	326	154	12	16	454 496	140	-	-	-	38k6	M12x28	80	10	33	8
132M	7AA132M06K-G,7AA132M08-G 7AA132M04-G,7AA132M06-G	216	53	256	259	140	-	49	-	180	89	132	15	326	154	12	16	454 496	140	-	-	-	38k6	M12x28	80	10	33	8
160M	7AA160M02K-G,7AA160M08K-G 7AA160M02-G,M04-G,M06-G,M08-G	254	60	300	314	210	-	57	-	256	108	160	18	386	183	15	19	588	165	-	-	-	42k6	M16x36	110	12	37	8
160L	7AA160L02-G,7AA160L08-G 7AA160L04-G,7AA160L06-G	254	60	300	314	210	-	57	-	256	108	160	18	386	183	15	19	588 628	165	-	-	-	42k6	M16x36	110	12	37	8

B5		HF	HG	LA	LB	M	N	P	S	T
7AA 63		77.5	101	8	179	115	95	140	10	3
7AA 71		87.5	111	9	210	130	110	160	10	3.5
7AA 80		96.1	120	10	233	165	130	200	12	3.5
7AA 90		104.5	128	10	281	165	130	200	12	3.5
7AA 100L		123	163	11	312	215	180	250	14.5	4
7AA 112M		136	176	11	333	215	180	250	14.5	4
7AA 132S 132M		154	194	12	374	265	230	300	14.5	4
7AA 160M 160L		183	226	13	478	300	250	350	18.5	5

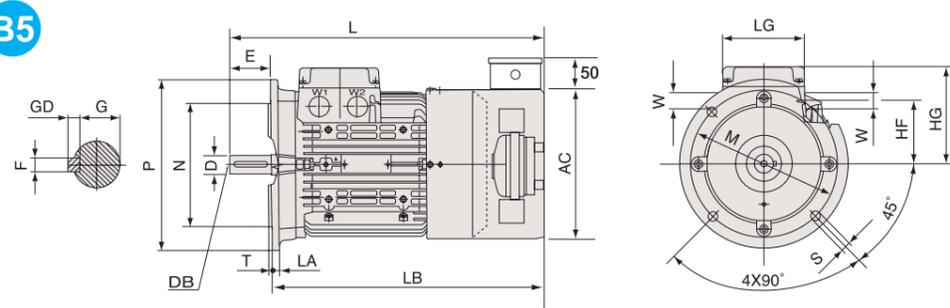
■軸心直徑D公差：  
 $\phi D \leq \phi 30 : j6, \phi 31 - \phi 50 : k6, \phi D > \phi 50 : m6$   
 ■軸心高度H公差：  
 (框號250以下+0,-0.5)。(框號280以上+0,-1)  
 ■軸端攻牙尺寸DB，依據DIN 332  
 ■單位：mm

## 7AA變頻馬達外型尺寸圖

B3



B5



B3		A	AA	AB	AC	B	B'	BA	BA'	BB	C	H	HA	HD	HF	K	KA	L	LG	W	W1	W2	D	DB	E	F	G	GD
63	7AA63M02K 7AA63M04	100	27	120	118	80	-	-	-	96	40	63	7	164	77.5	7	10	253	75	-	-	-	11j6	-	23	4	8.5	4
71	7AA71M02K-G 7AA71M04-G 7AA71M06K	112	30.5	132	139	90	-	27	-	106	45	71	7	182	87.5	7	10	290	75	-	M16x1.5	M25x1.5	14j6	M5x12.5	30	5	11	5
80	7AA80M02K-G,04K-G,06K-G 7AA80M06-G 7AA80M04-G	125	30.5	150	156.5	100	-	32	-	118	50	80	8	200	96.5	9.5	13.5	323.5 366	75	-	-	-	19j6	M6x16	40	6	15.5	6
90S	7AA90S02-G,S06-G,S08-G	140	30.5	165	173.6	100 (100)	125	33	54	143	56	90	10	218	104.5	10	14	381	75	-	-	-	24j6	M8x19	50	8	20	7
90L	7AA90L02-G,L04-G,L08-G	140	30.5	165	173.6	100 (100)	125	33	54	143	56	90	10	218	104.5	10	14	381	75	-	-	-	24j6	M8x19	50	8	20	7
100L	7AA100L02-G,7AA100L08K-G 7AA100L04K-G 7AA100L04-G,7AA100L06-G	160	42	196	196	140	-	45 (47)	-	176	63	100	12	263	123	12	16	422 475	120	-	-	-	28j6	M10x22	60	8	24	7
112M	7AA112M04-G,7AA112M08-G 7AA112M02-G,7AA112M06-G	190	46	226	219.5	140	-	47	-	176	70	112	12	288	136	12	16	493 531	120	-	-	-	28j6	M10x22	60	8	24	7
132S	7AA132S02K-G,S06-G,S08-G 7AA132S02-G 7AA132S04-G	216	53	256	259	140	-	49	-	180	89	132	15	326	154	12	16	554 596	140	-	-	-	38k6	M12x28	80	10	33	8
132M	7AA132M06K-G,7AA132M08-G 7AA132M04-G,7AA132M06-G	216	53	256	259	140	-	49	-	180	89	132	15	326	154	12	16	554 596	140	-	-	-	38k6	M12x28	80	10	33	8
160M	7AA160M02K-G,7AA160M08K-G 7AA160M02-G,M04-G,M06-G,M08-G	254	60	300	314	210	-	57	-	256	108	160	18	386	183	15	19	688	165	-	-	-	42k6	M16x36	110	12	37	8
160L	7AA160L02-G,7AA160L08-G 7AA160L04-G,7AA160L06-G	254	60	300	314	210	-	57	-	256	108	160	18	386	183	15	19	688 728	165	-	-	-	42k6	M16x36	110	12	37	8

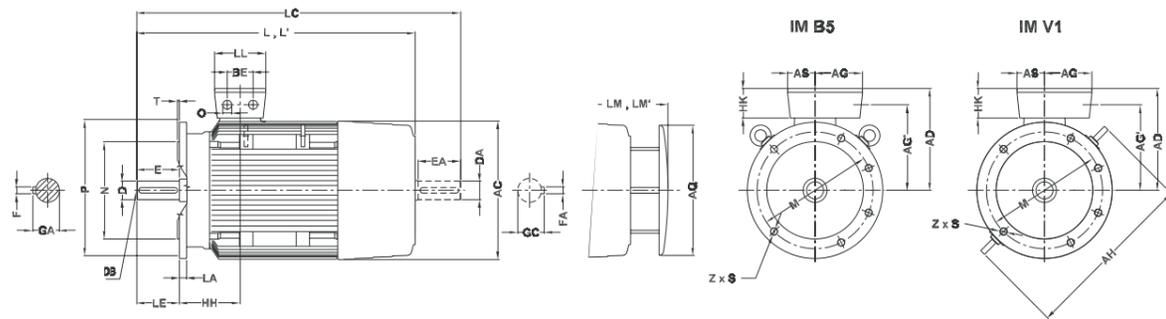
B5		HF	HG	LA	LB	M	N	P	S	T
7AA 63		77.5	101	8	179	115	95	140	10	3
7AA 71		87.5	111	9	260	130	110	160	10	3.5
7AA 80		96.5	120	10	284	165	130	200	12	3.5
7AA 90		104.5	128	10	331	165	130	200	12	3.5
7AA 100L		123	163	11	362	215	180	250	14.5	4
7AA 112M		136	176	11	433	215	180	250	14.5	4
7AA 132S 132M		154	194	12	474	265	230	300	14.5	4
7AA 160M 160L		183	226	13	578	300	250	350	18.5	5

■軸心直徑D公差：  
 $\phi D \leq \phi 30 : j6, \phi 31 - \phi 50 : k6, \phi D > \phi 50 : m6$   
 ■軸心高度H公差：  
 (框號250以下+0,-0.5)。(框號280以上+0,-1)  
 ■軸端攻牙尺寸DB，依據DIN 332  
 ■單位：mm



# IM B5 and IM V1外型尺寸圖

Squirrel-cage motors 14BG • E Frame sizes 180M up to 315L

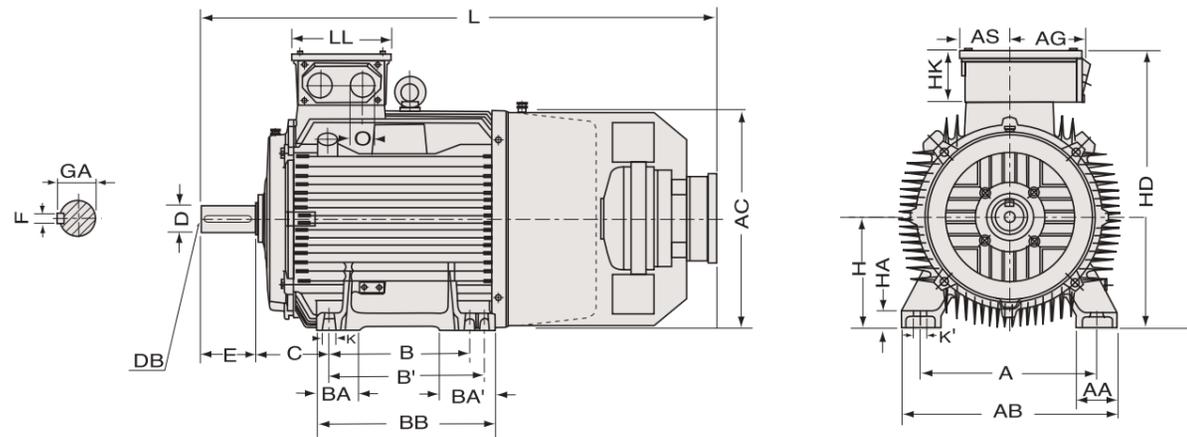


Frame size	Type 14BG	Pole size	Flange size	IEC DIN	P a <sub>1</sub>	N b <sub>1</sub>	LA c <sub>1</sub>	M e <sub>1</sub>	T f <sub>1</sub>	LE i <sub>2</sub>	S s <sub>2</sub>	Z z <sub>1</sub>	AC g <sup>1)</sup>	AQ j	L k	L' k <sup>2)</sup>	LC k <sub>1</sub> <sup>3)</sup>	LM k <sub>2</sub>	LM' k <sub>2</sub> <sup>1 2)</sup>	HH o <sub>1</sub>	AD p <sub>1</sub>	AH p <sub>3</sub>	IEC DIN	AG r	AS r <sub>2</sub>	O s <sub>3</sub>	BE x	LL x <sub>1</sub>	HK x <sub>4</sub>	AG' y	DE d	DB d <sub>6</sub>	E l	GA t	F u	NDE d <sub>1</sub>	DC d <sub>7</sub>	EA l <sub>1</sub>	GC t <sub>1</sub>	FA u <sub>1</sub>
180 M	....183	2 and 4	A350		350	250	13	300	5	110	18	4	364	340	670		784	760		157	262	452		81	71	M40x1.5	54	132	79	220	48	M16	110	51.5	14	48	M16	110	51.5	14
180 L	....186	4 to 8	A350		350	250	13	300	5	110	18	4	364	340	670		784	760		157	262	452		81	71	M40x1.5	54	132	79	220	48	M16	110	51.5	14	48	M16	110	51.5	14
	....188	2 to 8	A350		350	250	13	300	5	110	18	4	364	340	720		835	810		157	262	452		81	71	M40x1.5	54	132	79	220	48	M16	110	51.5	14	48	M16	110	51.5	14
200 L	....206	2 and 6	A400		400	300	15	350	5	110	18	4	402	340	720		835	810		196	300	486		164	96	M50x1.5	85	192	101	247	55	M20	110	59	16	55	M20	110	59	16
	....207	2 to 8	A400		400	300	15	350	5	110	18	4	402	340	720		835	810		196	300	486		164	96	M50x1.5	85	192	101	247	55	M20	110	59	16	55	M20	110	59	16
	....208	2 and 6 4 and 8	A400		400	300	15	350	5	110	18	4	402	340	777 720		892 835	867 810		196	300	486		164	96	M50x1.5	85	192	101	247	55	M20	110	59	16	55	M20	110	59	16
225 S	....220	4 and 8	A450		450	350	16	400	5	140	18	8	445	425	790		903	890		196	325	556		164	96	M50x1.5	85	192	101	275	60	M20	140	64	18	55	M20	110	59	16
225 M	....223	2 4 to 8	A450		450	350	16	400	5	110	18	8	445	425	760		873	860		196	325	556		164	96	M50x1.5	85	192	101	275	55	M20	110	59	16	48	M16	110	51.5	14
	....228	2 4 to 8	A450		450	350	16	400	5	110	18	8	445	425	820 850		933 963	920 950		196	325	556		164	96	M50x1.5	85	192	101	275	55	M20	110	59	16	48	M16	110	51.5	14
250 M	....253	2 4 to 8	A550		550	450	18	500	5	140	18	8	495	470	890		1002	990		237	392	620		183	117	M63x1.5	110	236	142	310	60	M20	140	64	18	55	M20	110	59	16
	....258	2 4 6 and 8	A550		550	450	18	500	5	140	18	8	495	470	890 960 890		1002 1102 1032	990 1060 990		237	392	620		183	117	M63x1.5	110	236	142	310	60	M20	140	64	18	55	M20	110	59	16
280 S	....280	2 4 to 8	A550		550	450	18	500	5	140	18	8	555	525	960		1105	1070		252	432	672		182	118	M63x1.5	110	236	142	348	65	M20	140	69	18	60	M20	140	64	18
280 M	....283	2 4 to 8	A550		550	450	18	500	5	140	18	8	555	525	960		1105	1070		252	432	672		182	118	M63x1.5	110	236	142	348	65	M20	140	69	18	60	M20	140	64	18
280 M	....283	2 4 6 and 8	A550		550	450	18	500	5	140	18	8	555	525	1070 960		1215 1105	1180 1070		252	432	672		182	118	M63x1.5	110	236	142	348	65	M20	140	69	18	60	M20	140	64	18
315 S	....310	2 4 to 8	A660		660	550	22	600	6	170	22	8	610	590	1072 1102		1217 1247	1182 1212		285	500	780		226	154	M63x1.5	110	307	170	400	65	M20	140	69	18	60	M20	140	64	18
315 M	....313	2 4 to 8	A660		660	550	22	600	6	170	22	8	610	590	1072 1102		1217 1247	1182 1212		285	500	780		226	154	M63x1.5	110	307	170	400	65	M20	140	69	18	60	M20	140	64	18
315 L	....316/317	2	A660		660	550	22	600	6	140	22	8	610	590	1232 1262		1377 1407	1342 1372		285	500	780		226	154	M63x1.5	110	307	170	400	65	M20	140	69	18	60	M20	140	64	18
	....318	8								170							1407	1372																						
	....318	6	A660		660	550	22	600	6	170	22	8	610	590	1402		1547	1512		285	500	780		226	154	M63x1.5	110	307	170	400	80	M20	170	85	22	70	M20	140	74.5	20
315 L	....318	4	A800		800	680	25	740	6	170	22	8	610	590	1462		1607	1572		345	652	780		310	165	M72x2	135	330	322	521	85 <sup>5)</sup>	M20	170	90	22	70	M20	140	74.5	20
	....319	4 to 8	A800		800	680	25	740	6	170	22	8	625	690	1546		1691	1656		345	652	780		310	165	M72x2	135	330	322	521	85 <sup>5)</sup>	M20	170	90	22	70	M20	140	74.5	20

\* These dimensions are considered as basic in accordance with IEC72.  
 1) Measured across the thread heads.  
 2) Design with low-noise fan.  
 3) A second shaft extension and/or pulse generator mounting is not available for low-noise design.  
 4) Maximal diameter  $\phi 90$  mm (K20).

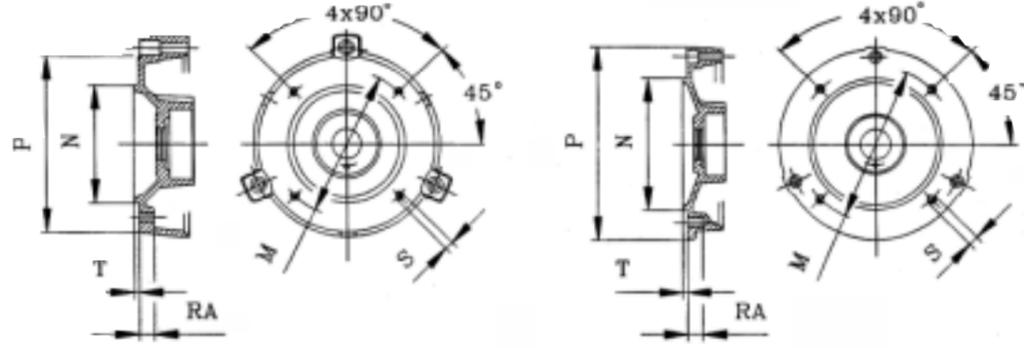
單位 : mm

# 14BG變頻馬達外型尺寸圖

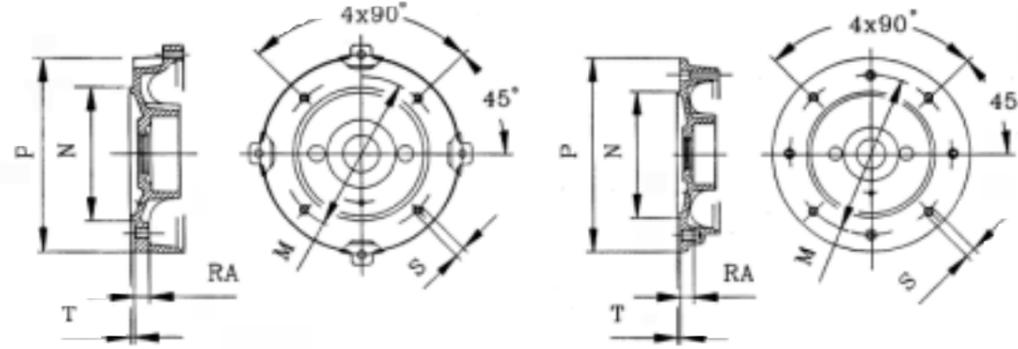


Frame size	Type 14BG	Pole size	IEC DIN	B a	B' a'	B'' a''	A b	HA c	BB e	AB f	AC g <sup>1)</sup>	H h	AQ j	L k	L' k <sup>2)</sup>	LC k <sub>1</sub> <sup>3)</sup>	LM k <sub>2</sub>	LM' k <sub>2</sub> <sup>12)</sup>	BA m	BA' m <sub>1</sub>	AA n	HD p	AD p <sub>1</sub>	AG r	AS r <sub>2</sub>	IEC DIN	K s	K' s <sub>1</sub>	O s <sub>3</sub>	HB v	HB' v'	C w <sub>1</sub>	CA w <sub>2</sub>	CA' w <sub>2</sub> <sup>1)</sup>	CA'' w <sub>2</sub> <sup>11)</sup>	BE x	LL x <sub>1</sub>	BC x <sub>3</sub>	HK x <sub>4</sub>	AG' y	D d	DB d <sub>b</sub>	E l	GA t	F u	NDE				
																																														DA d <sub>1</sub>	DC d <sub>2</sub>	EA l <sub>1</sub>	GC t <sub>1</sub>	FA u <sub>1</sub>
180 M	....183	2 and 4	241*	279			279	20	328	340	364	180	340	830			784	760	50	91	65	442	262	81	71	15	19	M40x1.5	400	99	121	202	164			54	132	36	79	220	48	M16	110	51.5	14	48	M16	110	51.5	14
180 L	....186	4 to 8	241	279*			279	20	328	340	364	180	340	830			784	760	50	91	65	442	262	81	71	15	19	M40x1.5	400	99	121	202	164			54	132	36	79	220	48	M16	110	51.5	14	48	M16	110	51.5	14
	....188	2 to 8	241	279*			279	20	328	340	364	180	340	880			835	810	50	91	65	442	262	81	71	15	19	M40x1.5	400	99	121	253	215			54	132	36	79	220	48	M16	110	51.5	14	48	M16	110	51.5	14
200 L	....206	2 and 6	305				318	25	355	380	402	200	340	880			835	810	60	60	70	500	300	164	96	19	25	M50x1.5	447	36	133	177	-			85	192	63	101	247	55	M20	110	59	16	55	M20	110	59	16
	....207	2 to 8	305				318	25	355	380	402	200	340	880			835	810	60	60	70	500	300	164	96	19	25	M50x1.5	447	36	133	177	-			85	192	63	101	247	55	M20	110	59	16	55	M20	110	59	16
	....208	2 and 6 4 and 8	305				318	25	355	380	402	200	340	937			892	867	60	60	70	500	300	164	96	19	25	M50x1.5	447	36	133	234	-			85	192	63	101	247	55	M20	110	59	16	55	M20	110	59	16
225 S	....220	4 and 8	286*	311			356	34	361	436	445	225	425	950			903	890	85	110	80	550	325	164	96	19	25	M50x1.5	500	61	149	218	193			85	192	47	101	272	60	M20	140	64	18	55	M20	110	59	16
225 M	....223	2	286	311*			356	34	361	436	445	225	425	920			873	860	85	110	80	550	325	164	96	19	25	M50x1.5	500	61	149	218	193			85	192	47	101	272	55	M20	110	59	16	48	M16	110	51.5	14
	....228	4 to 8	286	311*			356	34	361	436	445	225	425	980			903	890	85	110	80	550	325	164	96	19	25	M50x1.5	500	61	149	278	253			85	192	47	101	272	55	M20	110	59	16	48	M16	110	51.5	14
	....228	2	286	311*			356	34	361	436	445	225	425	1010			933	920	85	110	80	550	325	164	96	19	25	M50x1.5	500	61	149	278	253			85	192	47	101	272	60	M20	140	64	18	55	M20	110	59	16
250 M	....253	2	349				406	40	409	490	495	250	470	1050			1002	990	100	100	100	642	392	183	117	24	30	M63x1.5	558	68	168	235	-			110	236	69	142	310	60	M20	140	64	18	55	M20	110	59	16
	....258	4 to 8	349				406	40	409	490	495	250	470	1050			1002	990	100	100	100	642	392	183	117	24	30	M63x1.5	558	68	168	235	-			110	236	69	142	310	60	M20	140	64	18	55	M20	110	59	16
	....258	2	349				406	40	409	490	495	250	470	1120			1102	1060	100	100	100	642	392	183	117	24	30	M63x1.5	558	68	168	305	-			110	236	69	142	310	65	M20	140	69	18	60	M20	140	64	18
	....258	4	349				406	40	409	490	495	250	470	1050			1032	990	100	100	100	642	392	183	117	24	30	M63x1.5	558	68	168	235	-			110	236	69	142	310	65	M20	140	69	18	60	M20	140	64	18
	....258	6 and 8	349				406	40	409	490	495	250	470	1050			1032	990	100	100	100	642	392	183	117	24	30	M63x1.5	558	68	168	235	-			110	236	69	142	310	65	M20	140	69	18	60	M20	140	64	18
280 S	....280	2	368*	419			457	40	479	540	555	280	525	1290			1105	1070	100	151	100	712	432	182	118	24	30	M63x1.5	628	98	190	267	216			110	236	62	142	348	65	M20	140	69	18	60	M20	140	64	18
	....283	4 to 8	368	419*			457	40	479	540	555	280	525	1290			1105	1070	100	151	100	712	432	182	118	24	30	M63x1.5	628	98	190	267	216			110	236	62	142	348	65	M20	140	69	18	60	M20	140	64	18
280 M	....283	2	368	419*			457	40	479	540	555	280	525	1290			1105	1070	100	151	100	712	432	182	118	24	30	M63x1.5	628	98	190	267	216			110	236	62	142	348	65	M20	140	69	18	60	M20	140	64	18
	....288	4 to 8	368	419*			457	40	479	540	555	280	525	1400			1215	1180	100	151	100	712	432	182	118	24	30	M63x1.5	628	98	190	377	326			110	236	62	142	348	65	M20	140	69	18	60	M20	140	64	18
	....288	2	368	419*			457	40	479	540	555	280	525	1400			1215	1180	100	151	100	712	432	182	118	24	30	M63x1.5	628	98	190	377	326			110	236	62	142	348	65	M20	140	69	18	60	M20	140	64	18
	....288	4	368	419*			457	40	479	540	555	280	525	1400			1215	1180	100	151	100	712	432	182	118	24	30	M63x1.5	628	98	190	377	326			110	236	62	142	348	65	M20	140	69	18	60	M20	140	64	18
	....288	6 and 8	368	419*			457	40	479	540	555	280	525	1290			1105	1070	100	151	100	712	432	182	118	24	30	M63x1.5	628	98	190	267	216			110	236	62	142	348	65	M20	140	69	18	60	M20	140	64	18
315 S	....310	2	406*	457			508	50	527	610	610	315	590	1402			1217	1182	125	176	120	815	500	226	154	28	35	M63x1.5	715	89	216	315	264			110	307	69	170	400	65	M20	140	69	18	60	M20	140	64	18
	....310	4 to 8	406*	457			508	50	527	610	610	315	590	1432			1247	1212	125	176	120	815	500	226	154	28	35	M63x1.5	715	89	216	315	264			110	307	69	170	400	65	M20	140	69	18	60	M20	140	64	18
315 M	....313	2	406	457*			508	50	527	610	610	315	590	1402			1217	1182	125	176	120	815	500	226	154	28	35	M63x1.5	715	89	216	315	264			110	307	69	170	400	65	M20	140	69	18	60	M20	140	64	18
	....313	4 to 8	406	457*			508	50	527	610	610	315	590	1432			1247	1212	125	176	120	815	500	226	154	28	35	M63x1.5	715	89	216	315	264			110	307	69	170	400	65	M20	140	69	18	60	M20	140	64	18
315 L	.316/317	2	457	508*			508	50	578 <sup>4)</sup>	610	610	315	590	1562			1377	1342	125	176	120	815	500	226	154	28	35	M63x1.5	715																					

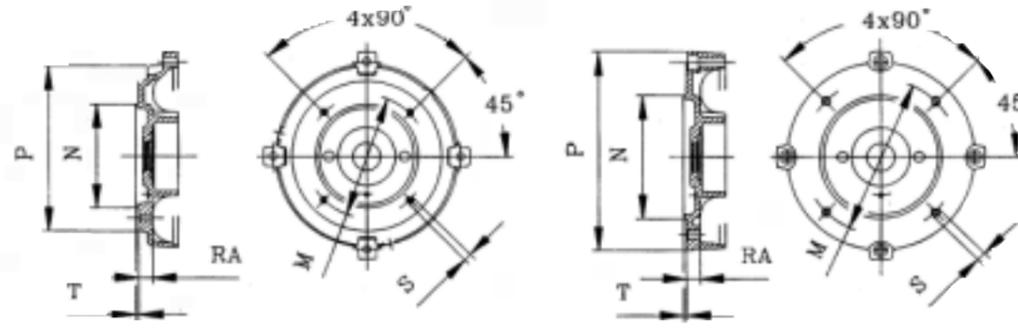
## B14法蘭尺寸圖



AXIS HEIGHT	B14A							B14B						
	FLANGE SIZE	M	N	P	RA	S	T	FLANGE SIZE	M	N	P	RA	S	T
56	FT65	65	50	80	7	M5	2,5	FT65	85	70	105	8	M6	2,5
63	FT75	75	60	90	10	M5	2,5	FT100	100	80	120	10	M6	3
71	FT85	85	70	105	10	M6	2,5	FT115	115	95	140	16	M8	3
80	FT100	100	80	120	10	M6	3	FT130	130	110	160	16	M8	3,5
90	FT115	115	95	140	12	M8	3	FT130	130	110	160	16	M8	3,5



AXIS HEIGHT	B14A							B14B						
	FLANGE SIZE	M	N	P	RA	S	T	FLANGE SIZE	M	N	P	RA	S	T
100	FT130	130	110	160	12	M8	3,5	FT165	165	130	200	14	M10	3,5



AXIS HEIGHT	B14A							B14B						
	FLANGE SIZE	M	N	P	RA	S	T	FLANGE SIZE	M	N	P	RA	S	T
112	FT130	130	110	160	13	M8	3,5	FT165	165	130	200	14	M10	3,5
132	FT165	165	130	200	14	M10	3,5							



Annex to Certificate Registration No.: 000357 QM

**Siemens AG**  
Automation and Drives  
Standard Drives  
Frauenraucher Straße 80  
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Germany

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Germany

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Czech Republic

Siemens Elektromotory s.r.o.  
Markova 502  
CZ-74411 Frenštát  
Czech Republic

Siemens House  
Votvy Road  
Congleton  
GB-Cheshire CW12 1PH  
Great Britain

This annex (Date: 2002-08-20) is only valid in connection with the above-mentioned certificate.



# CERTIFICATE

**DQS GmbH**

hereby certifies that the company

**Siemens AG**  
Automation and Drives  
Standard Drives  
Frauenraucher Straße 80  
D-91056 Erlangen

with the locations as listed in the annex for the scope

Design / development, production, sales / marketing and service of standard drives and customer-specific design

has implemented and maintains a

**Quality Management System.**

An audit, documented in a report, has verified that this quality management system fulfills the requirements of the following standard:

**DIN EN ISO 9001 : 2000**  
December 2000 edition

This certificate is valid until: 2005-08-12

Certificate Registration No.: 000357 QM

Frankfurt am Main, Berlin 2002-08-13

*Dr.-Ing. K. Peter*  
DQS GmbH

*Dr.-Ing. S. Heiser*  
DQS GmbH

MANAGING DIRECTORS

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