Low-voltage motors up to 315kW

1LG0 Low-voltage Motors

Answers for industry.

SIEMENS

Low-voltage squirrel-cage motors

Motor standard

Standards

The motors comply with Siemens general standard Q/321081KYA04-2006 and standards in the following table.

Title	DIN / VDE / EN	IEC standard
General regulations for rotation electrical machines	DIN EN 60 034-1	IEC 60 034-1 IEC 60 085
AC induction motors for general use with standardized dimensions and power	DIN EN 50 347	IEC 60 072
Restart characteristic of rotation electrical machines	DIN EN 60 034-12	IEC 60 034-12
Terminal markings and direction rotation of rotating electrical machines	DIN VDE 0530 Part eight	IEC 60 034-8
Type of construction and installation	DIN EN 60 034-7	IEC 60 034-7
IEC standard voltage	DIN IEC 60 038	IEC 60 038
Cooling methods for rotation electrical machines	DIN EN 60 034-6	IEC 60 034-6
Mechanical vibrations of rotating electrical machines	DIN EN 60 034-14	IEC 60 034-14
Degrees of protection for rotating	DIN EN 60 034-5	IEC 60 034-5

General information

Mechanical design

- **Flexible terminal box mounting**

  Terminal boxes are mounted in basic design on top of the motor. The terminal boxes can be turned 4 x 90° to allow cable entry from each direction. Different cable entry directions and terminal box positions can be offered as options.The double cable entries allow easy connection of thermal protections.

- **Innovated design**

  The end shield on DE is equiped with circular ribs to expand surface area. Terminal box is cast iron for all frame sizes.

High quality and performance

- **High degrees of protection**

  All the motors are designed for IP55. They are suitable for dusty or humid surroundings.

- **Class F insulation offers higher reliability and security**

  Standard motors are designed for class F and used in class B

- **Excellent rotor processing technology**

  After finishing, all rotors are protected with corrosion-resistant paint. Precise inspection system is applied to achieve high standard balancing result. Esso Unirex N3 grease is used as standard bearing lubricant that ensures longer bearing lifetime.

- **Choose higher capability bearing and grease**

  Choose Unirex N3 grease, assure long credible operation of the bearing.

Conditions

- Altitude should be lower than 1000 m
- Ambient temperature -20°C ~+40°C
- Relative humidity

Temperature	Relative humidity
-20°C≤ T ≤20°C	100%
20°C＜ T ≤30°C	95%
30°C＜ T ≤40°C	55%

Note: Other requirements need to be consulted.

Electrical features

Voltage and frequency

All the motors can be supplied according to the following standard:

Rated voltage: 220V/380V, 380V/660V. Frequency: 50Hz
Rated voltage: 440V, Frequency: 60Hz.These standand comply with IEC 60038 of voltage deviation ±5%. frequency deviation ±2%.

Rated output

The rated output refers to continuous duty according to IEC 60 034-1 at a frequency of 50Hz, a coolant temperature (CT) of 40°C and a site altitude of up to 1000m above sea level.

If the actual operating conditions deviate from this class, the maximum output should be adjusted according to the following table.

Application environment

Altitude above sea level（ASL）, in: m Coolant temperature, in: °C

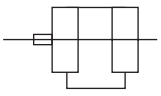
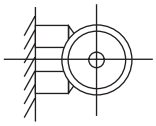
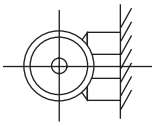
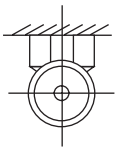
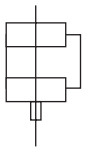
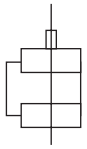
	<30	30-40	45	50	55	60
1000	1.07	1.00	0.96	0.92	0.87	0.82
1500	1.04	0.97	0.93	0.89	0.84	0.79
2000	1.00	0.94	0.90	0.86	0.82	0.77
2500	0.96	0.90	0.86	0.83	0.78	0.74
3000	0.92	0.86	0.82	0.79	0.75	0.70
3500	0.88	0.82	0.79	0.75	0.71	0.67
4000	0.82	0.77	0.74	0.71	0.67	0.63

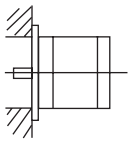
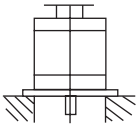
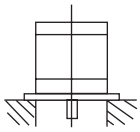
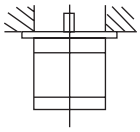
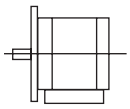
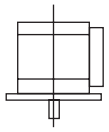
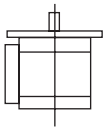
Overload times

According to IEC60034, 1LG0 series motors are intended to withstand 1.5 times the rated current for 2 minutes at rated voltage and frequency.

Mechanical design

Mounting type

Construction type	With feet and without flange on the end-shield					
Mounting type	**IM B3** **H80~H355**	**IM B6** **H80~H160**	**IM B7** **H80~H160**	**IM B8** **H80~H160**	**IM V5** **H80~H160**	**IM V6** **H80~H160**
Diagram						

Construction type	Without feet and with flange on the end-shield				With feet and with flange on the end-shield		
Mounting type	**IM** B5 H80~H280	**IM** V1[1)] H80~H355		**IM** V3 H80~H160	**IM** B35 H80~H355	**IM** V15 H80~H160	**IM** V36 H80~H160
Diagram							

Selection of bearings for 1LG0

Type	Frame Size	Poles	Drive-end bearing		Non-drive-end bearing	
			Horizontal motors	Vertical motors	Horizontal motors	Vertical motors
1LG0	80	2 ,4 , 6	6204 2RZC3		6204 2RZC3	
	90	2 ,4 , 6	6205 2RZC3		6205 2RZC3	
	100	2 ,4 , 6	6206 2RZC3		6206 2RZC3	
	112	2 ,4 , 6	6206 2RZC3		6206 2RZC3	
	132	2 ,4 , 6	6208 2RZC3		6208 2RZC3	
	160	2	6209 2RZC3		6209 2RZC3	
		4 , 6	6309 2RZC3		6209 2RZC3	
	180	2	6211 C3		6211 C3	
		4 , 6	6311 C3		6211 C3	
	200	2	6312 C3		6212 C3	
		4 , 6	6312 C3		6212 C3	
	225	2	6312 C3		6312 C3	
		4 , 6	6313 C3		6312 C3	
	250	2	6313 C3		6313 C3	7313
		4 , 6	6314 C3		6313 C3	7313
	280	2	6314 C3		6314 C3	7314
		4 , 6	6317 C3		6314 C3	7314
	315	2	6317 C3		6317 C3	7317
		4 , 6	6319 C3		6319 C3	7319
	355	2	6319 C3		6319 C3	7319
		4 , 6	6322 C3		6322 C3	7322

[1)] For IMV1 with canopy and without canopy, motor has different order number. Please find detailed information in page 12.

Bearing and lubrication

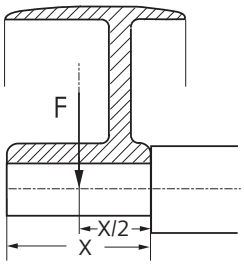
■ Bearing

Frame Size	Poles	Bearing lifetime [1]
80~355	2, 4, 6	20000 or 40000 [2] (hours)

■ Grease life and Relubrication interval (for horizontal installation)

Please refer to 1LG0 series motor operationg instruction for grease life and relubrication interval (for horizontal installation)

Radial force (F)



Frame Size	Poles	Radial force, in: N
80	2	640
	4	800
	6	920
90	2	700
	4	870
	6	1,000
100	2	970
	4	1,205
	6	1,390
112	2	1,240
	4	1,550
	6	1,790
132	2	1,485
	4	1,685
	6	2,156
160	2	1,570
	4	1,925
	6	2,125
180	2	3,010
	4	3,695
	6	4,290

Frame Size	Poles	Radial force, in: N
200	2	4,035
	4	4,830
	6	5,520
225	2	4,420
	4	5,450
	6	6,160
250	2	5,035
	4	6,190
	6	7,060
280	2	3,690
	4	9,220
	6	10,525
315	2	3950
	4	9,900
	6	12,109
355	2	6,500
	4	10,400
	6	12,500

[1] Lifetime means that motor runs under normal operation, maintained according to operating manual.

[2] 40000h applies for horizontally installed motors with coupling output without additional axial loads and at least 20,000 hours with the admissible permitted loads.

[3] If the coolant temperature is increased by 10K, the grease lifetime and regreasing interval are halved.

[4] Standard 1LG0 motor with frame size 180~280 is not equipped with regreasing device. Please select K40 when it is required.

Mechanical design

Cooling and ventilation

Standard motors with frame sizes 80 to 355 are fitted with a radial-flow fan which functions independently of the direction of rotation（cooling method IC411 to IEC60034-6）.

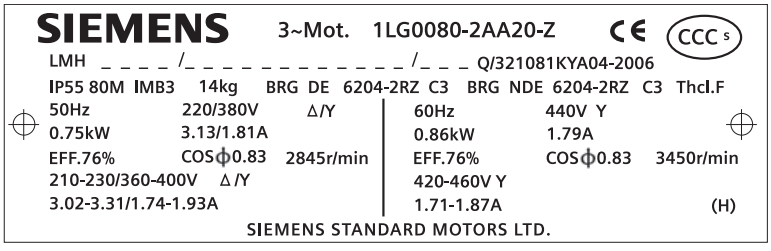
Terminal box

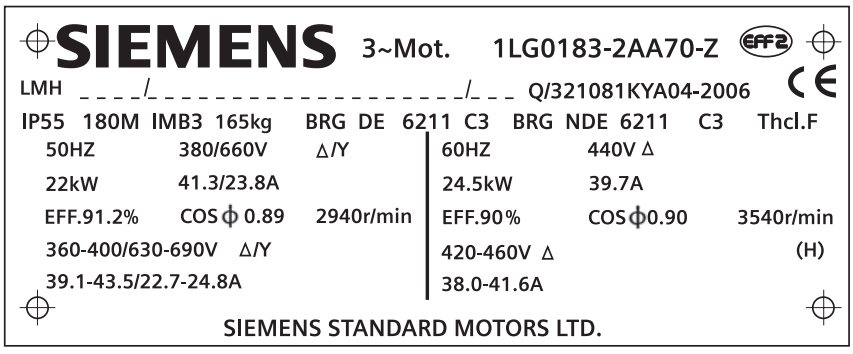
Type	Frame Size	Protection degree	Rotation of terminal box	Number of cable grand	Terminal box materia	Terminal bus	Max. cable size（mm^2）	Cable entry size
1LG0	80	IP55	4x90°	2 hole	Cast-iron	M4	2.5	M24x1.5+M16x1.5
	90	IP55	4x90°	2 hole	Cast-iron	M5	2.5	M24x1.5+M16x1.5
	100	IP55	4x90°	2 hole	Cast-iron	M5	4	M24x1.5+M16x1.5
	112	IP55	4x90°	2 hole	Cast-iron	M5	4	2—M32x1.5
	132	IP55	4x90°	2 hole	Cast-iron	M5	6	2—M32x1.5
	160	IP55	4x90°	2 hole	Cast-iron	M6	16	2—M36x2
	180	IP55	4x90°	2 hole	Cast-iron	M6	16	2—M36x2
	200	IP55	4x90°	2 hole	Cast-iron	M8	25	2—M48x2
	225	IP55	4x90°	2 hole	Cast-iron	M8	35	2—M48x2
	250	IP55	4x90°	2 hole	Cast-iron	M10	120	2—M64x2
	280	IP55	4x90°	2 hole	Cast-iron	M10	120	2—M64x2
	315	IP55	4x90°	2 hole	Cast-iron	M16	240	2—M64x2
	355	IP55	4x90°	2 hole	Cast-iron	M20	400	2—M72x2

The position of terminal box: on top , right or left can be chosen. (view from shaft extension end)

Name plate information

- Rated voltage
- Rated frequency
- Rated output
- Rated speed
- Efficiency
- Power factor
- Connection type
- Protection degree
- Series number
- Motor type
- Balance
- Insulation level
- Weight





Mechanical design

Noise

This value in the following table is the sound power levels applicable at 50Hz no load with a tolerance of +3dB。
Measuring-surface sound pressure level (L_{pfA})
Sound power level (L_{WA})

Output （kW）	synchronous speed （r/min）		
	Lpfa / LWA <dB （A） >		
	3000 （2 极）	1500 （4 极）	1000 （6 极）
0.55	—	47/58	42/54
0.75	56/67	47/58	45/57
1.1	56/67	49/61	45/57
1.5	60/72	49/61	49/61
2.2	60/72	52/64	53/65
3	64/76	52/64	57/69
4	65/77	53/65	57/69
5.5	68/80	59/71	57/69
7.5	68/80	59/71	61/73
11	73/86	63/75	61/73
15	73/86	63/75	61/73
18.5	73/86	64/76	64/76
22	75/89	64/76	64/76
30	78/92	66/79	64/76
37	78/92	68/81	66/78
45	78/92	68/81	68/80
55	79/93	70/83	68/80
75	80/94	73/86	73/85
90	80/94	73/86	73/85
110	82/96	80/93	73/85
132	82/96	80/93	73/85
160	85/99	84/97	80/92
200	85/99	84/97	80/92
220	89/103	88/101	80/92
250	89/103	88/101	
280	89/103	88/101	
315	89/103	88/101	

Converter-fed operation

1LG0 motors are suitable for converter-fed operation up to FS250 with certain characteristics load, of which the load torque characteristics is referred in page 11. Some motors require special measures in special applicapion. The planning notes for drives with a constant or square-law counter-torque are contained in the following Siemens A&D SD Inverter catalogues:
MICROMASTER:
Catalogue series DA64 and DA51
SINAMICS
Catalogue series D11
SIMOVERT MASTERDRIVES:
Catalogue series DA65
These catalogues also contain tables showing which squirrel cage motor should be assigned to which SIMOVERT converter, depending on the load characteristic of the driven machine.

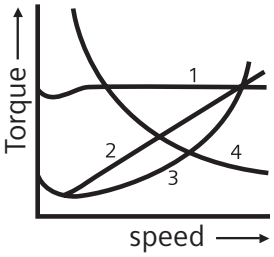
Vibration

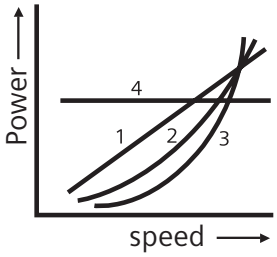
All the rotors are dynamically balanced with half keys to vibration severity grade A (standard). The effective values of the vibration velocity of motors at no load should not exceed the values of class A specified in the following table.

limits (rms values) for max.vibration.quantity of viberation speed (v) for the hight H		Frame Size H (mm)		
Vibration severity grade	Rated speed range （rpm）	80＜H≤132	132＜H≤280	280＜H≤355
A	600~3600	1.6	2.2	2.8

Technical information

Load torque characteristics





Torque/speed characteristic Power/speed characteristic

1. Torque almost constant; power proportional to speed.
2. Torque increases proportionally with the speed; power proportional to the square of the speed.
3. Torque increases proportionally with the square of the speed; power proportional to the cube of the speed.
   (applicable for 1LG0 series motors)
4. Torque decreases in inverse proportion to the speed; power constant.

- Siemens 1LG0 series products are designed to drive pumps, fans, compressors and HVAC in both constant and variable speed applications (Curve 3). For other complex applications, we still recommend Siemens other series motors.

Motor temperature protection

The 1LG0 motors can be supplied with PTC thermistors or PT100 temperature sensors for alarms and tripping.

- **PTC thermistors are absolutely necessary if these motors are used for converter-fed operation!**

Insulation

Insulation system comprises high-grade enameled wires and insulating sheet materials combined with solvent-free impregnating resin. The system ensures a high level of mechanical and electrical strength as well as good service ability and a long motor life. Providing these conditions are met, the insulation of 1LG0 motors is such that they can operate unrestrictedly in converter-fed mode up to voltage of 460V+10%. The same applies to operation with pulse-controlled AC converters with voltage front times ts> 0.1µs at the motor terminals.

Connection of the motors

In addition to the restrictions applying to mains-connected machines, the maximum permissible conductor cross-sections for the converter must also be kept in mind when the motors are connected.

Mechanical stress, grease life

Due to the higher speed beyond the rated speed value and the resulting increased vibration, the mechanical balance quality changes and the bearings are under greater mechanical stress. This reduces the grease life and the bearing life. (enquire if necessary).

Order number

1	2	3	4	5	6	7	8	9	10	11	12
1	L	G	0								

Motor serial

Frame size 80 ~ 355

S = short (0，1，2)
M = medium (3，4，5)
L = long (6，7，8)

Number Of Poles 2、4、6

Design

Voltage, connections and frequency

voltage code	Rating plate markings	
1	230 VD / 400 VY	50Hz
2	220 VD / 380 VY	50Hz
6	400 VD / 690 VY	50Hz
7	380 VD / 660 VY	50Hz
9	E-Voltage/Frequency	

Construction type

0-With feet and without flange on the end-shield
1-Without feet and with flange on the end-shield
6-With feet and with flange on the end-shield
4-Without feet and with flange on the end-shield, and with canopy on non-driven end
8[1)]-Without feet and with flange on the end-shield, IMV1 without canopy

Note: If require else voltage and mounting type, please refer to Local Siemens Sales Organisation.

Ordering example:
Three-phase motor IP55
2-pole 50 Hz,11kW 380VD/660VY IMB3
Order No.1LG0163-2AA..
Voltage identifier: -7
construction type: -0

[1)] Code " 8 " is only for 1LG0 motor with frame size 250~355, IMV1 without canopy; for 1LG0 motor with the other frame sizes, IMV1 without canopy, the 12th position is "1".

Technical data table

Frame Size	Type	Rated Output	Rated speed	Efficiency at (50Hz) 4/4 load	Efficiency at (50Hz) 3/4 load	Power factor	Rated current	Rated torque	Rated Output	Rated speed	Effici-ency	Power factor	Rated current	Rated torque	Starting current	Starting torque	Max torque	Moment of inertia J	Weight
		P_{rated}	n_{rated}	η_{rated}	η_{rated}	$Cos\phi_{rated}$	I_{rated}	T_{rated}	P_{rated}	n_{rated}	η_{rated}	$Cos\phi_{rated}$	I_{rated}	T_{rated}	I_{LR} / I_{rated}	T_{LR} / T_{rated}	T_B / T_{rated}		
		kW	rpm	%	%		A	Nm	kW	rpm	%		A	Nm				kgm^2	kg
3000rpm 2-pole																			
		220VD/380VY 50Hz							**440VY 60Hz**										
80M	1LG0 080-2AA..	0.75	2845	76	75.1	0.83	1.81	2.5	0.86	3450	76.0	0.83	1.79	2.38	6.1	2.3	2.7	0.0008	14
80M	1LG0 083-2AA..	1.1	2840	77.4	80	0.84	2.57	3.7	1.3	3430	79.0	0.84	2.57	3.62	7	2.3	2.5	0.0009	15
90S	1LG0 090-2AA..	1.5	2840	79	79.2	0.84	3.43	5	1.75	3440	80.0	0.84	3.42	4.86	6.9	2.3	2.3	0.0012	22
90L	1LG0 096-2AA..	2.2	2840	81.1	81.8	0.85	4.85	7.4	2.55	3440	82.0	0.85	4.80	7.08	6.9	2.3	2.8	0.0014	24
100L	1LG0 106-2AA..	3	2860	83	83.2	0.88	6.31	10	3.45	3460	84.0	0.87	6.19	9.52	6.9	2.3	2.8	0.0039	33
		380VD/660VY 50Hz							**440VD 60Hz**										
112M	1LG0 113-2AA..	4	2880	85	85.8	0.88	8.1	13.3	4.6	3480	86.0	0.88	8.0	12.6	7.2	2.3	2.8	0.0055	38
132S	1LG0 130-2AA..	5.5	2900	86	87.1	0.88	11	18.1	6.3	3500	86.0	0.88	10.9	17.2	7.5	2.3	2.8	0.0109	58
132S	1LG0 131-2AA..	7.5	2900	87	88.7	0.88	14.9	24.7	8.6	3500	87.0	0.88	14.7	23.5	7.4	2.3	2.8	0.013	63
160M	1LG0 163-2AA..	11	2930	88.4	88.6	0.89	21.2	35.9	12.6	3520	89.5	0.89	20.8	34.2	7.5	2.5	2.6	0.038	105
160M	1LG0 164-2AA..	15	2930	89.4	90	0.89	28.6	48.9	17.3	3520	90.0	0.895	28.2	46.9	7.3	2.5	2.9	0.045	115
160L	1LG0 166-2AA..	18.5	2930	91	91	0.9	34.3	60.3	21.3	3520	90.5	0.905	34.1	57.8	7.2	2.5	2.8	0.055	128
180M	1LG0 183-2AA..	22	2940	91.2	90.2	0.89	41.2	71.5	24.5	3540	90.0	0.90	39.7	66.1	7.5	2.3	2.9	0.075	165
200L	1LG0 206-2AA..	30	2950	91.4	91.2	0.9	55.4	97.1	33.5	3540	91.2	0.90	53.6	90.4	6.9	2.2	2.9	0.124	225
200L	1LG0 207-2AA..	37	2950	92	92.2	0.9	67.9	120	41.5	3540	92.0	0.90	65.8	112	7.1	2.3	2.9	0.139	246
225M	1LG0 223-2AA..	45	2960	92.5	92.6	0.9	82.1	145	51	3550	92.8	0.91	79.2	137	7.3	2.5	2.9	0.233	296
250M	1LG0 253-2AB..	55	2965	93	92.8	0.9	100	177	62	3560	92.5	0.90	98	166	7.5	2.5	2.9	0.312	390
280S	1LG0 280-2AB..	75	2970	93.6	93	0.9	135	241	84	3560	93.0	0.90	132	225	7.5	2.3	2.9	0.597	504
280M	1LG0 283-2AB..	90	2970	93.9	93.7	0.91	160	289	101	3560	93.8	0.91	155	271	7.5	2	2.3	0.675	536
315S	1LG0 310-2AC..	110	2975	94	93.2	0.91	195	353	123	3570	94.0	0.91	189	329	7.1	1.8	2.2	1.18	865
315M	1LG0 313-2AC..	132	2975	94.5	93.9	0.91	233	424	148	3570	94.5	0.91	226	396	7.1	1.8	2.2	1.55	960
315L	1LG0 316-2AC..	160	2975	94.6	94	0.92	279	514	180	3570	94.6	0.92	271	482	7	1.9	2.5	1.76	1035
315L	1LG0 317-2AC..	200	2975	94.8	94.9	0.92	348	642	224	3570	94.8	0.92	337	599	7.1	1.8	2.2	2.02	1160
355M	1LG0 353-2AC..	220	2987	94.8	94.8	0.92	383	703	246	3580	94.8	0.92	370	656	7.1	1.4	2.2	3.02	1545
355M	1LG0 354-2AC..	250	2987	95.2	94.9	0.9	444	799	280	3580	95.3	0.92	419	747	7.1	1.4	2.2	3.56	1650
355L	1LG0 356-2AC..	280	2987	95.2	95.1	0.9	497	895	314	3580	95.3	0.92	470	838	7.1	1.4	2.2	3.84	1650
355L	1LG0 357-2AC..	315	2987	95.4	95.4	0.9	558	1007	353	3580	95.6	0.92	527	942	7.1	1.4	2.2	4.16	1790

Technical data table

Frame Size	Type	Rated Output	Rated speed	Efficiency at (50hz) 4/4 load	Efficiency at (50hz) 3/4 load	Power factor	Rated current	Rated torque	Rated Output	Rated speed	Efficiency	Power factor	Rated current	Rated torque	Starting current	Starting torque	Max torque	Moment of inertia J	Weight
		P_{rated}	n_{rated}	η_{rated}	η_{rated}	$Cos\Phi_{rated}$	I_{rated}	T_{rated}	P_{rated}	n_{rated}	η_{rated}	$Cos\Phi_{rated}$	I_{rated}	T_{rated}	I_{LR}/I_{rated}	T_{LR}/T_{rated}	T_B/T_{rated}		
		kW	rpm	%	%		A	Nm	kW	rpm	%		A	Nm				kgm^2	kg
1500rpm 4-pole																			
		220VD/380VY 50Hz							**440VY 60Hz**										
80M	1LG0 080-4AA..	0.55	1390	71	71.9	0.75	1.57	3.8	0.63	1690	73.0	0.75	1.51	3.56	5	2.4	2.6	0.002	14
80M	1LG0 083-4AA..	0.75	1380	73	74.7	0.76	2.05	5.2	0.86	1680	75.0	0.76	1.98	4.89	5.8	2.4	2.6	0.002	15
90S	1LG0 090-4AA..	1.1	1390	76.2	75	0.76	2.89	7.6	1.3	1680	77.0	0.77	2.88	7.39	5.8	2.3	2.5	0.0021	21
90L	1LG0 096-4AA..	1.5	1390	78.5	75.8	0.79	3.67	10.3	1.75	1680	79.0	0.79	3.68	9.95	5.8	2.4	2.8	0.003	23
100L	1LG0 106-4AA..	2.2	1410	81	78.8	0.8	5.16	14.9	2.55	1710	81.0	0.81	5.10	14.2	6	2.4	2.3	0.007	31
100L	1LG0 107-4AA..	3	1410	82.8	80.9	0.81	6.8	20.3	3.45	1710	83.0	0.82	6.65	19.3	6	2.3	2.8	0.007	33
		380VD/660VY 50Hz							**440VD 60Hz**										
112M	1LG0 113-4AA..	4	1435	84.5	84	0.82	8.8	26.6	4.6	1730	85.0	0.82	8.7	25.4	6.2	2.3	2.8	0.0095	44
132S	1LG0 130-4AA..	5.5	1440	86	85.9	0.82	11.8	36.5	6.3	1740	85.5	0.85	11.4	34.6	6.5	2.3	2.8	0.0214	61
132M	1LG0 133-4AA..	7.5	1440	87.2	87.4	0.84	15.6	49.7	8.6	1740	87.0	0.84	15.4	47.2	7	2.5	2.8	0.0296	71
160M	1LG0 163-4AA..	11	1460	89	88.5	0.83	22.6	72	12.6	1750	89.0	0.85	21.9	68.8	7	2.4	2.9	0.075	110
160L	1LG0 166-4AA..	15	1460	90	89.7	0.84	30.1	98.1	17.3	1750	89.5	0.85	29.8	94.4	7.5	2.5	2.9	0.092	132
180M	1LG0 183-4AA..	18.5	1470	90.6	91.2	0.86	36.1	120.2	21.3	1760	91.0	0.86	35.7	116	7	2.3	2.9	0.139	164
180L	1LG0 186-4AA..	22	1470	91.4	91.6	0.86	42.5	143	24.5	1760	91.5	0.865	40.6	133	7	2.4	2.9	0.158	180
200L	1LG0 206-4AA..	30	1470	92.1	92.3	0.86	57.5	195	33.5	1760	92.5	0.86	55.3	182	7	2.3	2.8	0.262	225
225S	1LG0 220-4AA..	37	1475	92.6	92.7	0.87	69.8	240	41.5	1770	92.8	0.87	67.4	224	6.9	2.2	2.7	0.406	285
225M	1LG0 223-4AA..	45	1475	92.8	93.2	0.87	84.7	291	51	1770	93.0	0.87	82.7	275	6.9	2.2	2.3	0.469	305
250M	1LG0 253-4AA..	55	1480	93	93.3	0.87	103	355	62	1770	93.5	0.875	99	335	7.1	2.4	2.8	0.66	400
280S	1LG0 280-4AA..	75	1480	93.8	93.6	0.87	140	484	84	1780	93.8	0.88	134	451	6.8	2.3	2.8	1.12	553
280M	1LG0 283-4AA..	90	1480	94.3	94.1	0.87	167	580	101	1780	94.3	0.88	160	542	7.2	2.4	2.8	1.46	582
315S	1LG0 310-4AB..	110	1480	94.6	94	0.88	201	710	123	1780	94.5	0.88	194	660	6.2	2.3	2.8	3.11	900
315M	1LG0 313-4AB..	132	1480	94.9	94.4	0.88	240	852	148	1780	94.8	0.88	233	794	6.1	2.2	2.8	3.29	995
315L	1LG0 316-4AB..	160	1480	95.1	94.8	0.89	287	1032	180	1780	94.9	0.89	280	966	6.5	2.2	2.8	3.79	1070
315L	1LG0 317-4AB..	200	1480	95.3	94.9	0.89	358	1291	224	1780	95.0	0.89	348	1202	6.4	2.1	2.8	4.49	1220
355M	1LG0 353-4AB..	220	1490	95	95.3	0.89	395	1410	246	1780	95.0	0.89	382	1320	6.9	1.6	2.2	4.82	1645
355M	1LG0 354-4AB..	250	1490	95.2	95.3	0.87	459	1602	280	1780	95.3	0.90	428	1502	6.9	1.6	2.2	5.67	1685
355L	1LG0 356-4AB..	280	1490	95.2	95.4	0.87	514	1794	314	1780	95.3	0.90	480	1685	6.9	1.6	2.2	6.13	1780
355L	1LG0 357-4AB..	315	1490	95.2	95.4	0.87	578	2019	353	1780	95.6	0.90	538	1894	6.9	1.6	2.2	6.66	1890

Frame Size	Type	Rated Output	Rated speed	Efficiency at (50Hz) 4/4 load	Efficiency at (50Hz) 3/4 load	Power factor	Rated current	Rated torque	Rated Output	Rated speed	Efficiency	Power factor	Rated current	Rated torque	Starting current	Starting torque	Max torque	Moment of inertia J	Weight
		P_{rated}	n_{rated}	η_{rated}	η_{rated}	$Cos\phi_{rated}$	I_{rated}	T_{rated}	P_{rated}	n_{rated}	η_{rated}	$Cos\phi_{rated}$	I_{rated}	T_{rated}	I_{LR}/I_{rated}	T_{LR}/T_{rated}	T_B/T_{rated}		
		kW	rpm	%	%		A	Nm	kW	rpm	%		A	Nm				kgm^2	kg
1000rpm 6-pole																			
		220VD/380VY 50Hz							**440VY 60Hz**										
80M	1LG0 083-6AA..	0.55	885	65	67.3	0.72	1.79	5.9	0.63	1080	66.0	0.72	1.74	5.57	4.7	1.9	2.1	0.003	16
90S	1LG0 090-6AA..	0.75	910	69	70.2	0.72	2.29	7.9	0.86	1100	71.0	0.72	2.21	7.47	5	2	2.3	0.0029	20
90L	1LG0 096-6AA..	1.1	910	72	74.5	0.73	3.18	11.5	1.3	1100	73.5	0.73	3.18	11.3	5	2.1	2.3	0.0035	23
100L	1LG0 106-6AA..	1.5	920	76	78.2	0.75	4	15.6	1.75	1110	78.0	0.75	3.93	15.1	5	2.2	2.4	0.0069	31
112M	1LG0 113-6AA..	2.2	935	80	81.3	0.75	5.6	22.5	2.55	1130	81.0	0.76	5.4	21.6	5	2.4	2.4	0.0138	40
132S	1LG0 130-6AA..	3	960	81.5	82.2	0.76	7.4	29.8	3.45	1160	82.0	0.76	7.3	28.4	6	2.1	2.6	0.0286	56
		380VD/660VY 50Hz							**440VD 60Hz**										
132M	1LG0 133-6AA..	4	960	82	83.9	0.76	9.8	38.2	4.6	1160	83.0	0.76	9.6	37.9	6	2.1	2.8	0.036	68
132M	1LG0 134-6AA..	5.5	960	84.4	86.3	0.77	12.9	52.5	6.3	1160	86.0	0.77	12.5	51.9	6.4	2.1	2.8	0.045	75
160M	1LG0 163-6AA..	7.5	970	86	87.9	0.77	17.2	71.6	8.6	1160	87.5	0.78	16.5	70.8	6.5	2	2.7	0.088	104
160L	1LG0 166-6AA..	11	970	87.5	89.1	0.78	24.5	105.1	12.6	1160	88.5	0.78	24.0	104	6.5	2	2.9	0.116	127
180L	1LG0 186-6AA..	15	970	89	89.6	0.83	30.9	143	17.3	1170	90.0	0.82	30.8	141	6.5	2.2	2.7	0.207	167
200L	1LG0 206-6AB..	18.5	980	90	90.1	0.81	38.6	177	21.3	1170	90.5	0.82	37.7	174	6.5	2.2	2.8	0.315	210
200L	1LG0 207-6AB..	22	980	90	91.1	0.83	44.7	210	24.5	1170	91.0	0.835	42.3	200	6.5	2.1	2.6	0.36	223
225M	1LG0 223-6AB..	30	980	91.7	92.3	0.84	59.2	287	33.5	1170	92.0	0.85	56.2	273	6.5	2	2.6	0.547	290
250M	1LG0 253-6AB..	37	980	92	92.1	0.86	71	353	41.5	1170	92.0	0.87	68	339	6.9	2.1	2.8	0.834	375
280S	1LG0 280-6AB..	45	980	92.5	92.6	0.86	86	430	51	1180	92.5	0.86	84	413	7	2.2	2.8	1.39	492
280M	1LG0 283-6AB..	55	980	92.8	93.2	0.86	105	525	62	1180	93.0	0.865	101	502	7	2.1	2	1.65	530
315S	1LG0 310-6AB..	75	989	93.5	93.8	0.86	142	724	84	1186	93.8	0.86	137	676	7	2.3	2.8	4.11	820
315M	1LG0 313-6AB..	90	989	93.8	94.1	0.86	170	869	101	1186	93.8	0.86	164	813	6.2	2	2.7	4.28	895
315L	1LG0 316-6AB..	110	989	94.3	94.5	0.86	206	1062	123	1186	94.0	0.86	200	990	6.2	2	2.6	5.45	1010
315L	1LG0 317-6AB..	132	989	94.6	94.8	0.87	244	1274	148	1186	94.5	0.87	236	1192	6.5	2	2.8	6.12	1080
355M	1LG0 353-6AB..	160	989	94.5	94.2	0.88	292	1609	180	1180	94.5	0.88	284	1457	6.7	1.9	2	8.85	1590
355M	1LG0 354-6AB..	185	989	94.5	94.4	0.88	338	1861	207	1180	94.5	0.88	327	1675	6.7	1.9	2	8.98	1660
355M	1LG0 355-6AB..	200	989	94.7	94.6	0.88	365	2012	224	1180	94.7	0.88	353	1813	6.7	1.9	2	9.55	1730
355L	1LG0 356-6AB..	220	989	94.7	94.7	0.88	401	2213	246	1180	94.7	0.88	387	1991	6.7	1.9	2	10.09	1835

Penultimate position:					Final position			
Voltage Identifiler No.					Type of construction Identifier No.			
220VD/380VY 50Hz	380VD/660VY 50Hz	230VD/400VY 50Hz	400VD/690VY 50Hz	E-Voltage/ Frequency	With feet and without flange on the end-shield	Without feet and with flange on the end-shield	With feet and with flange on the end-shield	Without feet and with flange on the end-shield, and with Canopy on non-driven end
2	7	1	6	9	0	1 8[1)]	6	4

[1)] Code " 8 " is only for 1LG0 motor with frame size 250~355, IMV1 without canopy; for 1LG0 motor with the other frame sizes, IMV1 without canopy, the 12th position is "1".

Technical data table

Special Design/Option Code

E-Voltage/Frequency

L1C	415VY 50Hz
L1D	415VD 50Hz
L1U	400VD 50Hz
L2B	220VD /380VY 60Hz
L2D	380VD /660VY 60Hz
L2E	460VY 60Hz
L2F	460VD 60Hz

Export package and inspection		Application Scope
B08	Export package and China commodity inspection	All
Winding protection		
A11	Motor protection with PTC thermistors with three embedded temperature sensors for tripping	All
A12	Motor protection with PTC thermistors with six embedded temperature sensors for alarm and tripping	All
A60	Installation of 3 PT100 resistance thermometers	100~355
A61	Installation of 6 PT100 resistance thermometers	180~355
A72	Installation of 2PT100 screw-in resistance thermometers for rolling-contact bearings	180~355
K45	Anti-condensation heater for 220V	All
Mechanical design		
K09[1)]	Terminal box on RHS (View on drive end)	All
K10[1)]	Terminal box on LHS (View on drive end)	All
K11[1)]	Terminal box on top, Cable entry on Right (view on drive end)	All
K83	Rotation of terminal box by 90° , inserted from drive end	All
K84	Rotation of terminal box by 90° , inserted from non-drive end	All
K85	Rotation of terminal box by 180°	All
K16[2)]	Second standard shaft-extension	All
K40	Regreasing device	180~280
W01	SKF bearings	All
W02	NSK bearings	All
Paint		
Y53	Standard finish in other standard: RAL7032 or RAL9006	All
Testing certificate		
B02	Acceptance test certificate 3.1 according to EN 10204	All

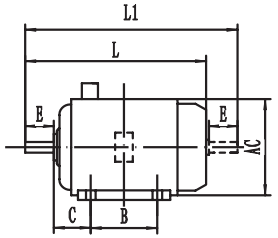
Paint

Standard colour is RAL7030, two other special colours can be offered by option Y53. When ordering, please specify RAL7032 or RAL9006.

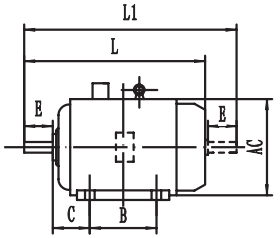
[1)] Indication of terminal box position is not necessary for motor with flange. for motor wiht K10, the connection box is close to NDE.

[2)] Motor without feet and with flange on the end-shield, and with canopy on non-driven end should not be associated with this option.

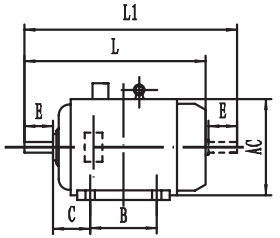
Dimension drawings



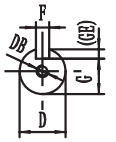
Frame size 80–90
(1LG0080…1LG0096)

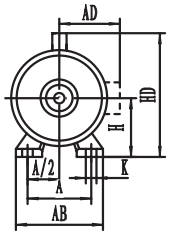


Frame size 100–132
(1LG0106…1LG0134)



Frame size 160–355
(1LG0163…1LG0357)





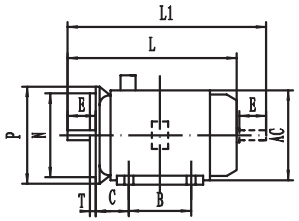
Frame with feet and without flange on the end shield

mm

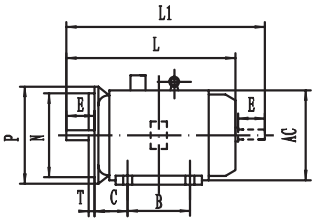
Frame size		Poles	Mounting Dimensions and Tolerance																						Contour Dimensions					
			A	A/2	B	C		D		E		F		G 1)		H		K 2)			DB	AB	AC	AD	HD	L	L1
80M	1LG0080…1LG0083	2、4、6	125	62.5	100	50	±1.5	19	+0.009 −0.004	40	±0.310	6	0 −0.030	15.5	0 −0.10	80	0 −0.5	10	+0.360 0	ϕ1.0Ⓜ	M6	165	164	145	220	295	335
90S	1LG0090		140	70	100	56		24		50		8	0 −0.036	20	0 −0.20	90					M8	180	184	155	250	320	375
90L	1LG0096				125																					345	400
100L	1LG0106…1LG0107		160	80	140	63	±2.0	28		60	±0.370			24		100		12	+0.430 0		M10	205	204	180	270	385	445
112M	1LG0113		190	95	140	70										112						230	228	190	300	400	465
132S	1LG0130…1LG0131		216	108	140	89		38		80		10		33		132					M12	270	267	210	345	470	555
132M	1LG0133…1LG0134				178																					510	593
160M	1LG0163…1LG0164		254	127	210	108	±3.0	42	+0.018 +0.002	110	±0.430	12	0 −0.043	37		160		15			M16	320	325	255	420	615	735
160L	1LG0166				254																					665	779
180M	1LG0183		279	139.5	241	121		48				14		42.5		180						355	366	280	455	700	810
180L	1LG0186				279																					730	848
200L	1LG0206…1LG0207		318	159	305	133		55				16		49		200				ϕ1.5Ⓜ		395	408	305	505	770	880
225S	1LG0220	4	356	178	286	149	±4.0	60	+0.030 +0.011	140	±0.500	18		53		225		19			M20	435	456	335	560	815	965
225M	1LG0223	2			311			55		110	±0.430	16		49												820	935
		4、6						60		140	±0.500			53												845	990
250M	1LG0253	2	406	203	349	168						18			0 −0.20	250		24				490	504	370	615	915	1060
		4、6						65						58													1060
280S	1LG0280	2	457	228.5	368	190										280						550	566	410	680	960	1105
		4、6						75				20	0 −0.052	67.5												980	1125
280M	1LG0283	2			419			65				18	0 −0.043	58												1010	1156
		4、6						75				20	0 −0.052	67.5												1030	1176
315S	1LG0310	2	508	254	406	216		65				18	0 −0.043	58		315	0 −1.0	28	+0.520 0	ϕ2.0Ⓜ		635	639	530	845	1190	1330
		4、6						80		170	±0.500	22	0 −0.052	71												1220	1390
315M	1LG0313	2			457			65		140		18	0 −0.043	58												1300	1440
		4、6						80		170		22	0 −0.052	71												1330	1500
315L	1LG0316…1LG0317	2			508			65		140		18	0 −0.043	58												1300	1440
		4、6						80		170		22		71												1330	1500
355M	1LG0353…1LG0355	2	610	305	560	254		75		140		20		67.5		355						730	718	655	1010	1500	1640
		4、6						95	+0.035 +0.013	170		25	0 −0.052	86							M24					1530	1700
355L	1LG0356…1LG0357	2			630			75	+0.030 +0.011	140		20		67.5							M20					1500	1640
		4、6						95	+0.035 +0.013	170		25		86							M24					1530	1700

1) G=D−GE, GE limit deviations for frame size 80M 1LG0080…1LG00183 are $(^{+0.10}_{0})$, others are $(^{+0.20}_{0})$. 2) K hole's positional tolerance is based on the central line of shaft extension

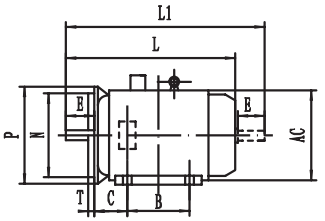
Dimension drawings



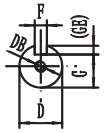
Frame size 80-90
(1LG0080...1LG0096)

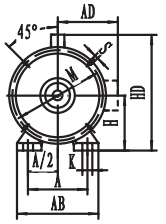


Frame size 100-132
(1LG0106...1LG0134)

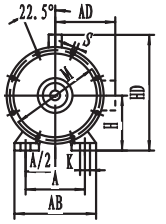


Frame size 160-355
(1LG0163...1LG0357)





Frame size 80-200
(1LG0080...1LG0207)



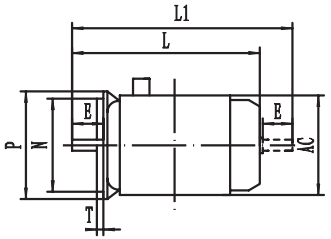
Frame size 225-355
(1LG0220...1LG0357)

Frame with feet and with flange (with through holes) on the end shield

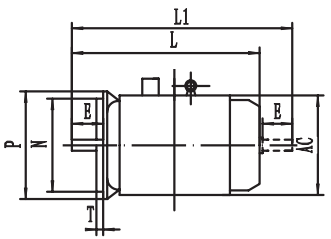
mm

Frame size		Flange number	Poles	Mounting Dimensions and Tolerance																								Contour Dimensions					
				A	A/2	B	C	D	E	F	G 1)	H	K 2)	M	N	P 3)	R 4)	S 2)	T	Flange hole number	DB	AB	AC	AD	HD	L	L1
80M	1LG0080...1LG0083	FF165	2、4、6	125	62.5	100	50	19 +0.009 +0.004	40 ±0.310	6 0 -0.030	15.5 0 -0.10	80 0 -0.5	10 +0.360 0	165	130	200	±1.5	12 +0.430 0	3.5 0 -0.120	4	M6	165	164	145	220	295	335
90S	1LG0090			140	70	100	56	24	50	8	20	90									M8	180	184	155	250	320	375
90L	1LG0096					125																				345	400
100L	1LG0106...1LG0107	FF215		160	80	140	63	28	60 ±0.370	0 -0.036	24	100	12 +0.430 0	215	180	250	±2.0	15			M10	205	204	180	270	385	445
112M	1LG0113			190	95	140	70					112										230	228	190	300	400	465
132S	1LG0130...1LG0131	FF265		216	108	140	89	38 +0.018 +0.002	80	10	33	132		265	230	300			4		M12	270	267	210	345	470	555
132M	1LG0133...1LG0134					178																				510	593
160M	1LG0163...1LG0164	FF300		254	127	210	108	42	110 ±0.430	12	37	160	15	300	250	350	±3.0	19	5		M16	320	325	255	420	615	735
160L	1LG0166					254		+0.018 +0.002					+0.430 0			+0.016 -0.013		+0.520 0								665	779
180M	1LG0183			279	139.5	241	121	48		14	42.5	180										355	366	280	455	700	810
180L	1LG0186					279																				730	848
200L	1LG0206...1LG0207	FF350		318	159	305	133	55		16 0 -0.043	49	200		350	300	±0.016 400																	
225S	1LG0220	FF400	4	356	178	286	149	60	140 ±0.500	18	53	225	19	400	350	±0.018 450						435	456	335	560	815	965
225M	1LG0223		2			311		55	110 ±0.430	16	49															820	935
			4、6					60			53															845	990
250M	1LG0253	FF500	2	406	203	349	168			18		250		500	450	±0.020 550	0										1060
			4、6					65			58											490	504	370	615	915	1060
280S	1LG0280		2	457	228.5	368	190		140			280	24													960	1105
			4、6					75 +0.030 +0.011		20 0 -0.052	67.5 0 -0.30															980	1125
280M	1LG0283		2			419		65		18 0 -0.043	58											550	566	410	680	1010	1156
			4、6					75		20 0 -0.052	67.5															1030	1176
315S	1LG0310	FF600	2	508	254	406	216	65	170 ±0.500	18 0 -0.043	58	315 0 -1.0	28 +0.520 0	600	550	±0.022 660	±4.0	24	6 0 -0.150	8	M20	635	639	530	845	1190	1330
			4、6					80		22 0 -0.052	71															1220	1390
315M	1LG0313		2			457		65	140	18 0 -0.043	58															1300	1440
			4、6					80	170	22 0 -0.052	71															1330	1500
315L	1LG0316...1LG0317		2			508		65	140	18 0 -0.043	58															1300	1440
			4、6					80	170	22 0 -0.052	71															1330	1500
355M	1LG0353...1LG0355	FF740	2	610	305	560	254	75	140	20	67.5	355		740	680	±0.025 800					M24	730	718	655	1010	1500	1640
			4、6					95 +0.035 +0.013	170	25 0 -0.052	86															1530	1700
355L	1LG0356...1LG0357		2			630		75 +0.030 +0.011	140	20	67.5										M20					1500	1640
			4、6					95 +0.035 +0.013	170	25	86										M24					1530	1700

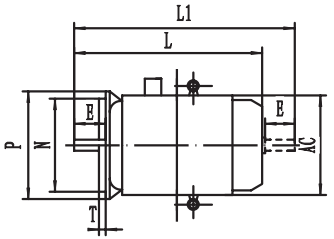
1) G=D=GE, GE limit deviations for frame size 80M 1LG0080...1LG00183 are $(^{+0.10}_{0})$, others are $(^{+0.20}_{0})$. 2) K, S hole's positional tolerances are based on the central line of shaft extension
3) Dimension of P is the maximum limit. 4) R is the distance from the flange to the drive shaft end.



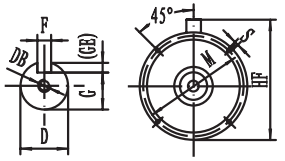
Frame size 80-90
(1LG0080...1LG0096)



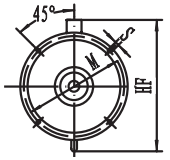
Frame size 100-132
(1LG0106...1LG0134)



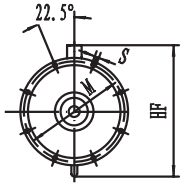
Frame size 160-280
(1LG0163...1LG0283)



Frame size 80-132
(1LG0080...1LG0134)



Frame size 160-200
(1LG0163...1LG0207)



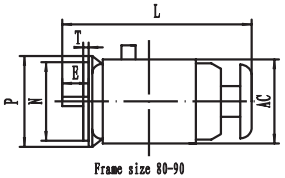
Frame size 225-280
(1LG0220-1LG0283)

Frame without feet and with flange (with through holes) on the end shield

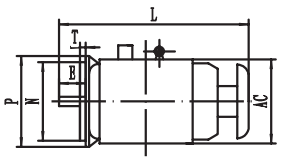
mm

Frame size		Flange number	Poles	Mounting Dimensions and Tolerance																		Contour Dimensions			
				D		E		F		G 1)		M	N		P 3)	R 4)		S 2)			T		Flange hole number	DB	AC	HF	L	L1
80M	1LG0080...1LG0083	FF165	2、4、6	19	+0.009 -0.004	40	±0.310	6	0 -0.030	15.5	0 -0.10	165	130	+0.014 -0.011	200	0	±1.5	12	+0.430 0	ϕ1.0Ⓜ	3.5	0 -0.120	4	M6	164	235	295	335
90S	1LG0090			24		50		8	0 -0.036	20	0 -0.20													M8	184	255	320	375
90L	1LG0096																										345	400
100L	1LG0106...1LG0107	FF215		28		60	±0.370			24		215	180		250		±2.0	15			4			M10	204	290	385	445
112M	1LG0113																								228	315	400	465
132S	1LG0130...1LG0131	FF265		38		80		10		33		265	230		300									M12	267	360	470	555
132M	1LG0133...1LG0134																										510	593
160M	1LG0163...1LG0164	FF300		42	+0.018 +0.002	110	±0.430	12	0 -0.043	37		300	250	+0.016 -0.013	350		±3.0	19	+0.520 0		5			M16	325	480	615	735
160L	1LG0166																										665	779
180M	1LG0183			48				14		42.5															366	510	700	810
180L	1LG0186																										730	848
200L	1LG0206...1LG0207	FF350		55				16		49		350	300	±0.016	400					ϕ1.5Ⓜ				M20	408	570	770	880
225S	1LG0220	FF400	4	60		140	±0.500	18		53		400	350	±0.018	450		±4.0						8		456	615	815	965
225M	1LG0223		2	55		110	±0.430	16		49																	820	935
			4、6	60	+0.030 +0.011	140	±0.500	18		53																	845	990
250M	1LG0253	FF500	2									500	450	±0.020	550										504	685	915	1060
			4、6	65						58																		1060
280S	1LG0280		2																						566	760	960	1105
			4、6	75				20	0 -0.052	67.5																	980	1125
280M	1LG0283		2	65				18	0 -0.043	58																	1010	1156
			4、6	75				20	0 -0.052	67.5																	1030	1176

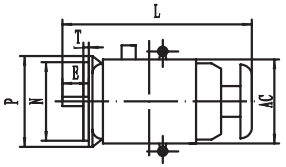
1) G=D-GE, GE limit deviations for frame size 80M 1LG0080...1LG00183 are $(^{+0.10}_{0})$, others are $(^{+0.20}_{0})$.
2) S hole's positional tolerance is based on the central line of shaft extension
3) Dimension of P is the maximum limit.
4) R is the distance from the flange to the drive shaft end.



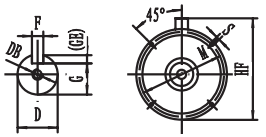
Frame size 80–90
(1LG0080…1LG0096)



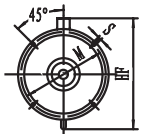
Frame size 100–132
(1LG0106…1LG0134)



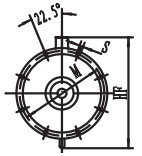
Frame size 160–355
(1LG0163…1LG0357)



Frame size 80–132
(1LG0080…1LG0134)



Frame size 160–200
(1LG0163…1LG0207)



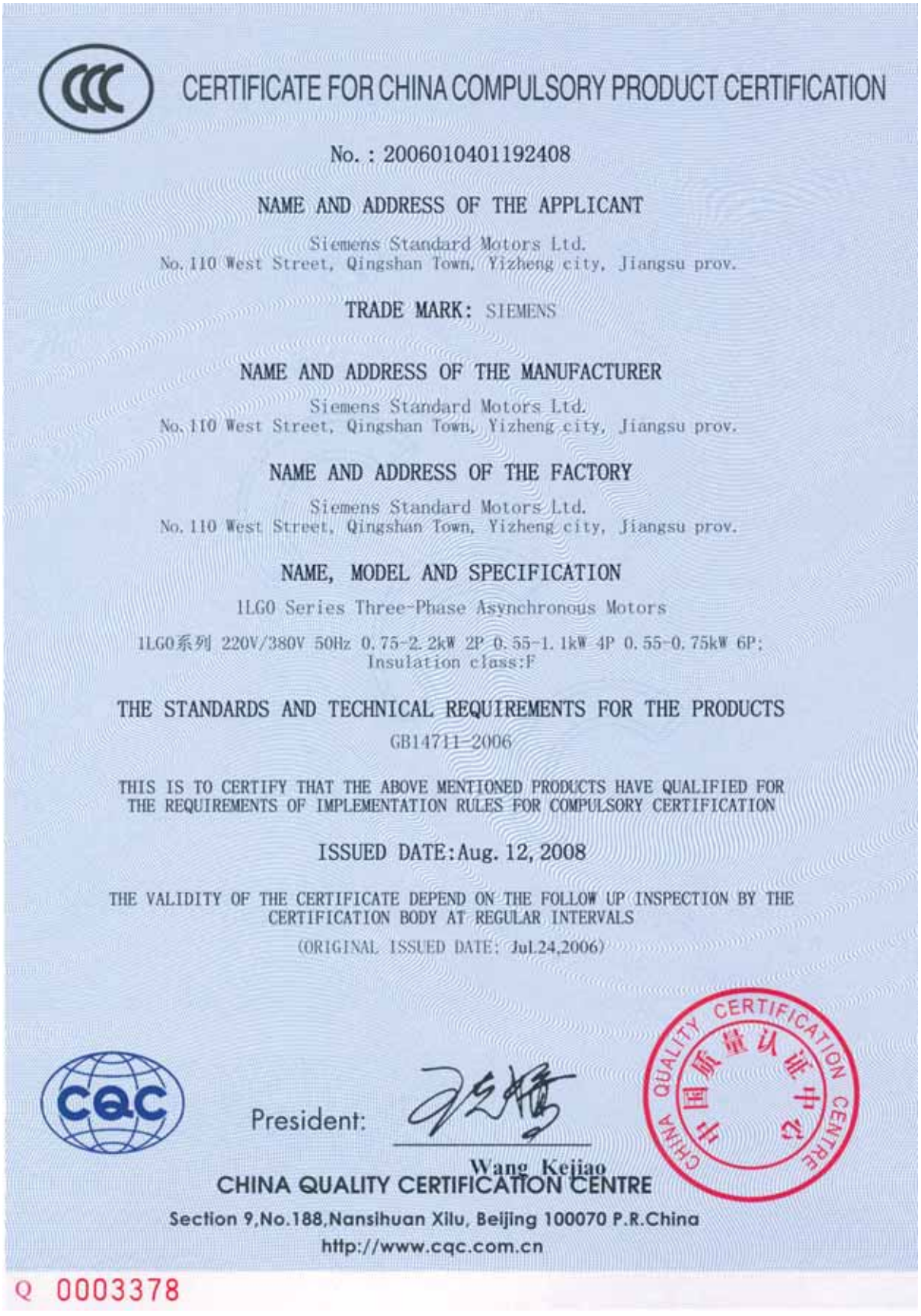
Frame size 225–355
(1LG0220…1LG0357)

Vertically-mounted, Frame without feet and with flange (with through holes) on the end shield, shaft extension downwards mm

Frame size		Flange number	Poles	Mounting Dimensions and Tolerance																				Contour Dimensions		
				D		E		F		G 1)		M	N		P 3)	R 4)	S 2)			T		Flange hole number	DB	AC	HF	L
80M	1LG0080…1LG0083	FF165	2、4、6	19	+0.009 −0.004	40	±0.310	6	0 −0.030	15.5	0 −0.10	165	130	+0.014 −0.011	200	0	±1.5	12	+0.430 0	ϕ1.0 M	3.5	0 −0.120	4	M6	164	235	355
90S	1LG0090			24		50		8	0 −0.036	20													M8	184	255	380
90L	1LG0096																									405
100L	1LG0106…1LG0107	FF215		28		60	±0.370			24		215	180		250		±2.0	15			4		M10	204	290	445
112M	1LG0113																							228	315	460
132S	1LG0130…1LG0131	FF265		38		80		10		33		265	230		300								M12	267	360	530
132M	1LG0133…1LG0134																									570
160M	1LG0163…1LG0164	FF300		42	+0.018 +0.002	110	±0.430	12		37		300	250	+0.016 −0.013	350		±3.0	19	+0.520 0		5		M16	325	480	685
160L	1LG0166																									735
180M	1LG0183			48				14		42.5														366	510	770
180L	1LG0186																									800
200L	1LG0206…1LG0207	FF350		55				16		49		350	300	±0.016	400								M20	408	570	840
225S	1LG0220	FF400	4	60		140	±0.500	18	0 −0.043	53	0 −0.20	400	350	±0.018	450	0	±4.0	24		ϕ1.5 M	6	0 −0.150	8		456	615	885
225M	1LG0223		2	55	+0.030 +0.011	110	±0.430	16		49																890
			4、6	60		140	±0.500	18		53																915
250M	1LG0253	FF500	2																					504	685	995
			4、6	65						58																1040
280S	1LG0280		2									500	450	±0.020	550									566	760	1060
			4、6	75				20	0 −0.052	67.5																1090
280M	1LG0283		2	65				18	0 −0.043	58																1110
			4、6	75				20	0 −0.052	67.5																1270
315S	1LG0310	FF600	2	65				18	0 −0.043	58																1300
			4、6	80		170	±0.500	22	0 −0.052	71																1380
315M	1LG0313		2	65		140		18	0 −0.043	58		600	550	±0.022	660									639	950	1410
			4、6	80		170		22	0 −0.052	71																1380
315L	1LG0316…1LG0317		2	65		140		18	0 −0.043	58																1410
			4、6	80		170		22		71																1580
355M	1LG0353…1LG0355	FF740	2	75		140		20		67.5		740	680	±0.025	800									718	1125	1610
			4、6	95	+0.035 +0.013	170		25	0 −0.052	86													M24			1580
355L	1LG0356…1LG0357		2	75	+0.030 +0.011	140		20		67.5													M20			1610
			4、6	95	+0.035 +0.013	170		25		86													M24			

1) G=D−GE, GE limit deviations for frame size 80M 1LG0080…1LG00183 are $(^{+0.10}_{0})$, others are $(^{+0.20}_{0})$. 2) K, S hole's positional tolerances are based on the central line of shaft extension
3) Dimension of P is the maximum limit. 4) R is the distance from the flange to the drive shaft end.

Certificate



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2006010401192408

NAME AND ADDRESS OF THE APPLICANT

Siemens Standard Motors Ltd.
No. 110 West Street, Qingshan Town, Yizheng city, Jiangsu prov.

TRADE MARK: SIEMENS

NAME AND ADDRESS OF THE MANUFACTURER

Siemens Standard Motors Ltd.
No. 110 West Street, Qingshan Town, Yizheng city, Jiangsu prov.

NAME AND ADDRESS OF THE FACTORY

Siemens Standard Motors Ltd.
No. 110 West Street, Qingshan Town, Yizheng city, Jiangsu prov.

NAME, MODEL AND SPECIFICATION

1LG0 Series Three-Phase Asynchronous Motors

1LG0系列 220V/380V 50Hz 0.75-2.2kW 2P 0.55-1.1kW 4P 0.55-0.75kW 6P;
Insulation class:F

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB14711-2006

THIS IS TO CERTIFY THAT THE ABOVE MENTIONED PRODUCTS HAVE QUALIFIED FOR THE REQUIREMENTS OF IMPLEMENTATION RULES FOR COMPULSORY CERTIFICATION

ISSUED DATE:Aug. 12, 2008

THE VALIDITY OF THE CERTIFICATE DEPEND ON THE FOLLOW UP INSPECTION BY THE CERTIFICATION BODY AT REGULAR INTERVALS

(ORIGINAL ISSUED DATE: Jul.24,2006)

President: Wang Kejiao

CHINA QUALITY CERTIFICATION CENTRE

Section 9,No.188,Nansihuan Xilu, Beijing 100070 P.R.China

http://www.cqc.com.cn

Q 0003378

Certificate

Nemko

ATTESTATION OF CONFORMITY

WITH EUROPEAN DIRECTIVE

Order No. 75053

A sample of the following product has been tested and is stated by Nemko to be in conformity with the applicable European safety- and EMC standards referred below.

Manufacturer	Siemens Standard Motors Ltd. 110 West Street, Qingshan Town Yizheng City P.R. CHINA	
Product	Three-phase Induction Motors	
Model/type	1LG0abc	
Data	220/380V~ alt. 380/660V~, 50Hz or 440V~, 60Hz; 0.55kW-315kW	
Other specification	IP55, 2/4/6P; Frame size 80-355mm	
Standards applied	Safety std.:	EN 60034-1:2004 EN 60034-5:2001
	EMC std.:	EMC is based on self-declaration by the manufacturer
Statement reference	75053	

It may therefore be presumed that the tested sample of the product is in conformity with the technical provisions of the following European Directives including the latest amendments, and with national legislation implementing these Directives:

- Low Voltage Directive 73/23/EEC
- EMC Directive 89/336/EEC

On this basis, the manufacturer (or the European authorized representative), may draw up an EC/EEA Declaration of Conformity and affix the CE-marking as indicated below to each conforming product.

Additional information	Description of type reference: abc = frame size: 080-355

Date of issue 02 November 2006

signature

Magne Løvaas

Head of section

CE

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