

Low-voltage motors up to 315kW



1LG0 Low-voltage Motors

Answers for industry.

SIEMENS



Low-voltage squirrel-cage motors

4 Motor standard

4 Standard

5 Condition

5 Mechanical design

5 High quality performance

5 Conditions

6 Environment

6 Voltage and frequency

6 Rated output

6 Application environment

6 Overload times



7 Mechanical design

- 7 Mounting type
- 7 Selection of bearings, basic design
- 8 Grease life and relubrication interval
- 8 Maximum radial force
- 9 Cooling and ventilation
- 9 Terminal box
- 9 Name plate information
- 10 Noise
- 10 Vibration
- 10 Converter-fed operation

11 Technical information

- 11 Load torque characteristics
- 11 Motor temperature protection
- 11 Insulation
- 11 Connection of the motors
- 11 Mechanical stress, grease life

12 Order number

13 Technical data table

- 13 Data table
- 16 Special design option code
- 16 Paint finish

17 Dimension drawings

21 Certificate

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	GB standard
General regulations for rotation electrical machines	DIN EN 60 034-1	IEC 60 034-1 IEC 60 085	GB 755-2000
AC induction motors for general use with standardized dimensions and power	DIN EN 50 347	IEC 60 072	GB/T 4772.1-1999 Part one
Restart characteristic of rotation electrical machines	DIN EN 60 034-12	IEC 60 034-12	JB/T 8158-1999
Terminal markings and direction rotation of rotating electrical machines	DIN VDE 0530 Part eight	IEC 60 034-8	GB1971-2006
Type of construction and installation	DIN EN 60 034-7	IEC 60 034-7	GB/T 997-2003
IEC standard voltage	DIN IEC 60 038	IEC 60 038	GB/T 156-2007
Cooling methods for rotation electrical machines	DIN EN 60 034-6	IEC 60 034-6	GB/T 1993-1993
Mechanical vibrations of rotating electrical machines	DIN EN 60 034-14	IEC 60 034-14	GB 100068-2000
Degrees of protection for rotating	DIN EN 60 034-5	IEC 60 034-5	GB/T 4942.1-2006

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 equipped with circular ribs to expand surface area. Terminal box is cast iron for all frame sizes.

High quality 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 Esso 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 ≤ 30°C	95%
30°C < T ≤ 40°C	55%
-20°C ≤ T ≤ 20°C	100%

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 standards comply with IEC 60038 of voltage deviation $\pm 5\%$, frequency deviation $\pm 2\%$.

Rated output

The rated output refers to continuous duty according to IEC 60034-1 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

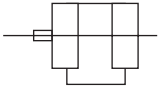

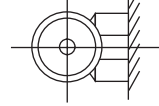
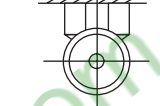
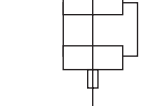
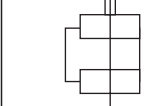
	<30	30-40	45	50	55	60
1000	1.07	1.00	0.96	0.92	0.87	0.82
1500	1.04	0.97	0.93	0.89	0.84	0.79
2000	1.00	0.94	0.90	0.86	0.82	0.77
2500	0.96	0.90	0.86	0.83	0.78	0.74
3000	0.92	0.86	0.82	0.79	0.75	0.70
3500	0.88	0.82	0.79	0.75	0.71	0.67
4000	0.82	0.77	0.74	0.71	0.67	0.63

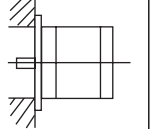
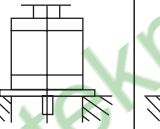
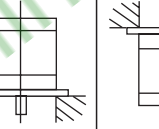
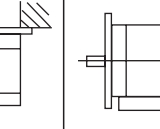
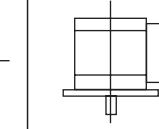
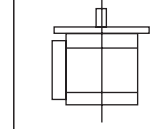
Overload times

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, basic design

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	
	180	4, 6	6309 2RZC3		6209 2RZC3	
		2	6211 C3		6211 C3	
	200	4, 6	6311 C3		6211 C3	
		2	6312 C3		6212 C3	
	225	4, 6	6312 C3		6212 C3	
		2	6312 C3		6312 C3	
	250	4, 6	6313 C3		6312 C3	
		2	6313 C3		6313 C3	7313
	280	4, 6	6314 C3		6313 C3	7313
		2	6314 C3		6314 C3	7314
	315	4, 6	6317 C3		6314 C3	7314
		2	6317 C3		6317 C3	7317
	355	4, 6	6319 C3		6319 C3	7319
		2	6319 C3		6319 C3	7319
		4, 6	6322 C3		6322 C3	7322

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

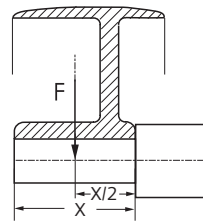
Bearing and lubrication

Bearing

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

Grease life and Relubrication interval for horizontal)

Greasing type	Frame Size	Poles	Grease life ³⁾
Permanent lubrication	80~160	2	20000 hours
		4, 6	20000 or 40000 hours ²⁾
Greasing type	Frame Size	Poles	Relubrication interval Up to CT40 °C ³⁾
Regreasing	180~280 ⁴⁾	2	4000 hours
		4, 6	8000 hours
	315	2	3000 hours
		4, 6	5000 hours
	355	2	2000 hours
		4, 6	4000 hours



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⁾ Here, lifetime means that motor run under normal operation, maintained according to operating manual; the bearing lifetime will be reduced.

²⁾ 40000h applies for horizontally installed motors with coupling output without additional axial loads.

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

⁴⁾ Standard 1LGO motor with frame size 180~280 is not equipped with regreasing device. If regreasing device needed, please select regreasing device option (option code K40).

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

SIEMENS		3~Mot. 1LG0080-2AA20-Z		CE	CCC
LMH		/		Q/321081KYA04-2006	
IP55 80M IMB3 14kg		BRG DE 6204-2RZ C3		BRG NDE 6204-2RZ C3 Thcl.F	
50Hz	220/380V	Δ/Y	60Hz	440V Y	
0.75kW	3.13/1.81A		0.86kW	1.79A	
EFF.76%	COSφ0.83	2845r/min	EFF.76%	COSφ0.83	3450r/min
210-230/360-400V Δ/Y			420-460V Y		
3.02-3.31/1.74-1.93A			1.71-1.87A		(H)
SIEMENS STANDARD MOTORS LTD.					

SIEMENS		3~Mot. 1LG0183-2AA70-Z		EFF2	CE
LMH		/		Q/321081KYA04-2006	
IP55 180M IMB3 165kg		BRG DE 6211 C3		BRG NDE 6211 C3 Thcl.F	
50HZ	380/660V	Δ/Y	60HZ	440V Δ	
22kW	41.3/23.8A		24.5kW	39.7A	
EFF.91.2%	COSφ0.89	2940r/min	EFF.90%	COSφ0.90	3540r/min
360-400/630-690V Δ/Y			420-460V Δ		(H)
39.1-43.5/22.7-24.8A			38.0-41.6A		
SIEMENS STANDARD MOTORS LTD.					

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 with certain characteristics load, of which the load torque characteristics is referred in page 11. Some motors require special measures in special application. 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.

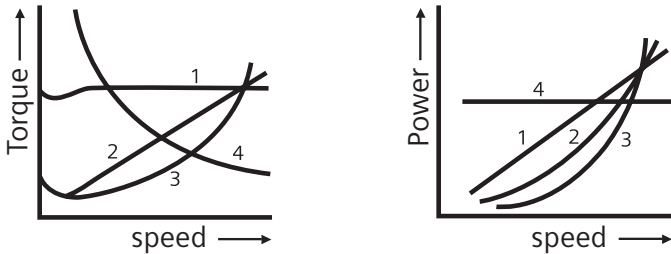
Vibration

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 vibration speed (v) for the high 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. For other complex applications, we still recommend Siemens imported 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 $t_s > 0.1s$ at the motor terminals.

Connection of the motors

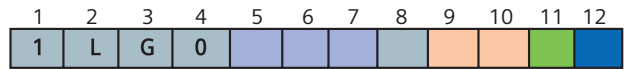
In addition to the restrictions applying to mains-connected machines, the maximum permissible conductor cross-sections for the converter must also be kept in mind when the motors are connected.

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



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 Rating plate markings
code

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

8¹⁾-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⁾ " 8 " 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	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}	kgm^2	kg
3000rpm 2-pole																			
220VD/380VY 50Hz																			
80M	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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
440VY 60Hz																			
112M	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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 speed	Rated Output	Efficiency at (50hz) 4/4 load	Efficiency at (50hz) 3/4 load	Power factor	Rated current	Rated torque	Rated Output	Rated speed	Efficiency rated	Power factor	Rated current	Rated torque	Rated current	Efficiency	Power factor	Rated current	Rated torque	Starting current	Starting torque	Max torque	Moment of inertia J	Weight
		n_{rated}	P_{rated}	%	%	$\cos \theta_{rated}$	A	Nm	P_{rated}	rpm	%	$\cos \theta_{rated}$	A	Nm	A	%	$\cos \theta_{rated}$	A	Nm	I_{Lr}/I_{rated}	T_{Lr}/T_{rated}	T_B/T_{rated}	kgm^2	kg
1500rpm 4-pole																								
220VD/380VY 50Hz																								
440VY 60Hz																								
80M	1LG0 080-4AA..	1390	0.55	71	71.9	0.75	1.57	3.8	0.63	1690	73.0	0.75	1.51	3.56	5	73.0	0.75	1.51	3.56	5	2.4	2.6	0.002	14
80M	1LG0 083-4AA..	1380	0.75	73	74.7	0.76	2.05	5.2	0.86	1680	75.0	0.76	1.98	4.89	5.8	75.0	0.76	1.98	4.89	5.8	2.4	2.6	0.002	15
90S	1LG0 090-4AA..	1390	1.1	76.2	75	0.76	2.89	7.6	1.3	1680	77.0	0.77	2.88	7.39	5.8	77.0	0.77	2.88	7.39	5.8	2.3	2.5	0.0021	21
90L	1LG0 096-4AA..	1390	1.5	78.5	75.8	0.79	3.67	10.3	1.75	1680	79.0	0.79	3.68	9.95	5.8	79.0	0.79	3.68	9.95	5.8	2.4	2.8	0.003	23
100L	1LG0 106-4AA..	1410	2.2	81	78.8	0.8	5.16	14.9	2.55	1710	81.0	0.81	5.10	14.2	6	81.0	0.81	5.10	14.2	6	2.4	2.3	0.007	31
100L	1LG0 107-4AA..	1410	3	82.8	80.9	0.81	6.8	20.3	3.45	1710	83.0	0.82	6.65	19.3	6	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..	1435	4	84.5	84	0.82	8.8	26.6	4.6	1730	85.0	0.82	8.7	25.4	6.2	85.0	0.82	8.7	25.4	6.2	2.3	2.8	0.0095	44
132S	1LG0 130-4AA..	1440	5.5	86	85.9	0.82	11.8	36.5	6.3	1740	85.5	0.85	11.4	34.6	6.5	85.5	0.85	11.4	34.6	6.5	2.3	2.8	0.0214	61
132M	1LG0 133-4AA..	1440	7.5	87.2	87.4	0.84	15.6	49.7	8.6	1740	87.0	0.84	15.4	47.2	7	87.0	0.84	15.4	47.2	7	2.5	2.8	0.0296	71
160M	1LG0 163-4AA..	1460	11	89	88.5	0.83	22.6	72	12.6	1750	89.0	0.85	21.9	68.8	7	89.0	0.85	21.9	68.8	7	2.4	2.9	0.075	110
160L	1LG0 166-4AA..	1460	15	90	89.7	0.84	30.1	98.1	17.3	1750	89.5	0.85	29.8	94.4	7.5	89.5	0.85	29.8	94.4	7.5	2.5	2.9	0.092	132
180M	1LG0 183-4AA..	1470	18.5	90.6	91.2	0.86	36.1	120.2	21.3	1760	91.0	0.86	35.7	116	7	91.0	0.86	35.7	116	7	2.3	2.9	0.139	164
180L	1LG0 186-4AA..	1470	22	91.4	91.6	0.86	42.5	143	24.5	1760	91.5	0.865	40.6	133	7	91.5	0.865	40.6	133	7	2.4	2.9	0.158	180
200L	1LG0 206-4AA..	1470	30	92.1	92.3	0.86	57.5	195	33.5	1760	92.5	0.86	55.3	182	7	92.5	0.86	55.3	182	7	2.3	2.8	0.262	225
225S	1LG0 220-4AA..	1475	37	92.6	92.7	0.87	69.8	240	41.5	1770	92.8	0.87	67.4	224	6.9	92.8	0.87	67.4	224	6.9	2.2	2.7	0.406	285
225M	1LG0 223-4AA..	1475	45	92.8	93.2	0.87	84.7	291	51	1770	93.0	0.87	82.7	275	6.9	93.0	0.87	82.7	275	6.9	2.2	2.3	0.469	305
250M	1LG0 253-4AA..	1480	55	93	93.3	0.87	103	355	62	1770	93.5	0.875	99	335	7.1	93.5	0.875	99	335	7.1	2.4	2.8	0.66	400
280S	1LG0 280-4AA..	1480	75	93.8	93.6	0.87	140	484	84	1780	93.8	0.88	134	451	6.8	93.8	0.88	134	451	6.8	2.3	2.8	1.12	553
280M	1LG0 283-4AA..	1480	90	94.3	94.1	0.87	167	580	101	1780	94.3	0.88	160	542	7.2	94.3	0.88	160	542	7.2	2.4	2.8	1.46	582
315S	1LG0 310-4AB..	1480	110	94.6	94	0.88	201	710	123	1780	94.5	0.88	194	660	6.2	94.5	0.88	194	660	6.2	2.3	2.8	3.11	900
315M	1LG0 313-4AB..	1480	132	94.9	94.4	0.88	240	852	148	1780	94.8	0.88	233	794	6.1	94.8	0.88	233	794	6.1	2.2	2.8	3.29	995
315L	1LG0 316-4AB..	1480	160	95.1	94.8	0.89	287	1032	180	1780	94.9	0.89	280	966	6.5	94.9	0.89	280	966	6.5	2.2	2.8	3.79	1070
315L	1LG0 317-4AB..	1480	200	95.3	94.9	0.89	358	1291	224	1780	95.0	0.89	348	1202	6.4	95.0	0.89	348	1202	6.4	2.1	2.8	4.49	1220
355M	1LG0 353-4AB..	1490	220	95	95.3	0.89	395	1410	246	1780	95.0	0.89	382	1320	6.9	95.0	0.89	382	1320	6.9	1.6	2.2	4.82	1645
355M	1LG0 354-4AB..	1490	250	95.2	95.3	0.87	459	1602	280	1780	95.3	0.90	428	1502	6.9	95.3	0.90	428	1502	6.9	1.6	2.2	5.67	1685
355L	1LG0 356-4AB..	1490	280	95.2	95.4	0.87	514	1794	314	1780	95.3	0.90	480	1685	6.9	95.3	0.90	480	1685	6.9	1.6	2.2	6.13	1780
355L	1LG0 357-4AB..	1490	315	95.2	95.4	0.87	578	2019	353	1780	95.6	0.90	538	1894	6.9	95.6	0.90	538	1894	6.9	1.6	2.2	6.66	1890

Technical data table

Frame	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 rated	Power factor	Rated current	Rated torque	Starting current	Starting torque	Max torque	Moment of inertia J	Weight
Size		P_{rated}	n_{rated}	%	%	$\cos \phi_{rated}$	I_{rated}	T_{rated}	P_{rated}	n_{rated}	%	$\cos \phi_{rated}$	I_{rated}	T_{rated}	I_{st}/I_{rated}	T_{st}/T_{rated}	T_B/T_{rated}		kg
1000rpm 6-pole																			
220VD/380VY 50Hz										440VY 60Hz									
80M	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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	1LGO 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 identifier No.		Type of construction Identifier No.	
230VD/400VY 50Hz	380VD/660VY 50Hz	230VD/400VY 50Hz	400VD/690VY 50Hz
1	6	0	9
7	1	8 ¹⁾	4
Without feet and with flange on the end-shield		With feet and with flange on the end-shield	
1		6	
Without feet and with flange on the end-shield, and with Canopy on non-driven end		4	

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

Technical data table

Special Design/Option Code

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

Winding protection		Application Scope
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

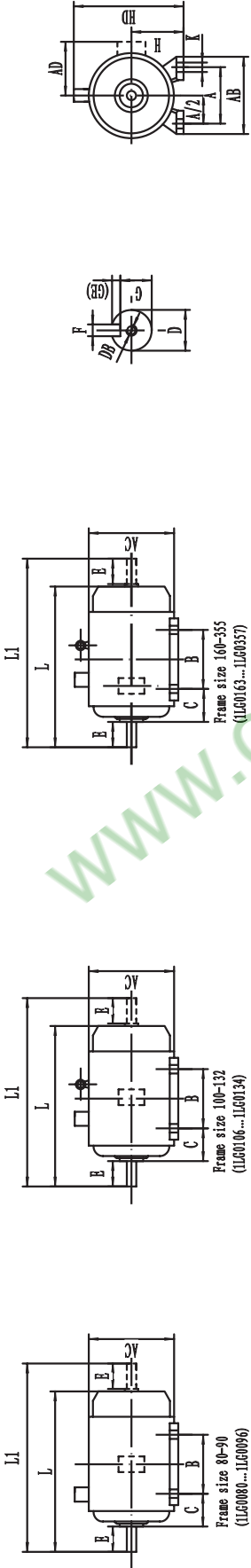
Paint

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 when motor is B5 design.

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

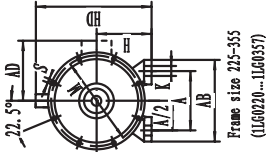


Frame with feet and without flange on the end shield

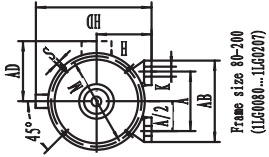
Frame size	Poles	Mounting Dimensions and Tolerance										Contour Dimensions									
		A	A/2	B	C	D	E	F	G	H	I	J	K	DB	AB	AC	AD	AE	L	L1	
80M LG0080...LG0083	2, 4, 6	125	62.5	100	50	19	40	6	15.5	80	10	10	M6	165	164	145	220	295	335		
90S LG0090		140	70	100	56	24	50	8	20	90	12	12	M8	180	184	155	250	320	375		
90L LG0096		160	80	140	63	28	60	8	24	100	100	M10	205	204	180	270	385	445			
100M LG0106...LG0107		190	95	140	70	38	80	10	33	112	112	M12	230	228	190	300	400	465			
112M LG0113		216	108	140	78	42	80	12	37	132	132	M16	270	267	210	345	470	555			
132S LG0130...LG0131		254	127	210	108	55	110	12	42.5	160	160	M16	320	325	255	420	615	735			
160M LG0163...LG0164		279	139.5	241	121	60	140	14	49	180	180	M20	355	366	280	455	700	810			
160L LG0166		318	159	305	133	65	140	16	53	200	200	M20	395	408	305	505	770	880			
180M LG0183	4	356	178	311	149	65	140	18	58	225	225	M20	435	456	335	560	815	965			
180L LG0186	2	406	203	349	168	75	170	16	58	250	250	M20	490	504	370	615	915	1060			
200M LG0206...LG0207	4, 6	457	228.5	388	190	75	170	20	67.5	280	280	M20	550	566	410	680	980	1125			
225S LG0220	2	406	203	349	168	65	140	18	58	250	250	M20	490	504	370	615	915	1060			
225M LG0223	4, 6	457	228.5	388	190	75	170	18	67.5	280	280	M20	550	566	410	680	980	1125			
250M LG0253	2	406	203	349	168	65	140	18	58	250	250	M20	490	504	370	615	915	1060			
280S LG0280	4, 6	457	228.5	388	190	75	170	20	67.5	280	280	M20	550	566	410	680	980	1125			
280M LG0283	2	406	203	349	168	65	140	18	58	250	250	M20	490	504	370	615	915	1060			
315S LG0310	4, 6	508	254	457	216	80	170	22	71	315	315	M24	635	639	530	845	1300	1500			
315M LG0313	2	406	203	349	168	65	140	18	58	250	250	M24	490	504	370	615	915	1060			
315L LG0316...LG0317	4, 6	508	254	457	216	80	170	22	71	315	315	M24	635	639	530	845	1300	1500			
355M LG0353...LG0355	2	406	203	349	168	65	140	18	58	250	250	M24	490	504	370	615	915	1060			
355L LG0356...LG0357	4, 6	610	305	560	254	95	170	25	86	355	355	M24	730	718	655	1010	1500	1700			
	2	610	305	560	254	95	170	20	67.5	355	355	M24	730	718	655	1010	1500	1700			
	4, 6	610	305	560	254	95	170	25	86	355	355	M24	730	718	655	1010	1500	1700			

1) ϕ -D-GE, GE limit deviations for frame size 80M LG0080...LG0083 are ($\phi^{+0.014}$), others are ($\phi^{+0.013}$). 2) K hole's positional tolerance is based on the central line of shaft extension

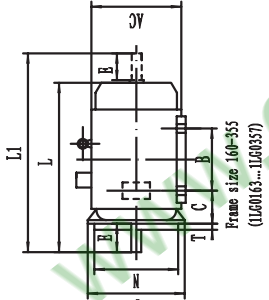
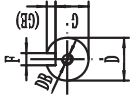
Dimension drawings



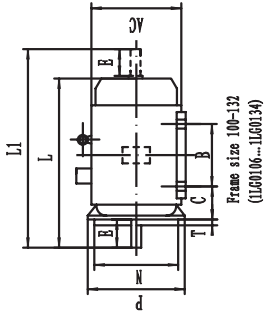
Frame size 235-355
(1L6020...1L6037)



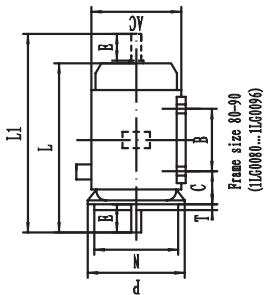
Frame size 80-200
(1L6080...1L6007)



Frame size 160-355
(1L60163...1L6037)



Frame size 100-132
(1L60106...1L60134)



Frame size 80-90
(1L6080...1L6096)

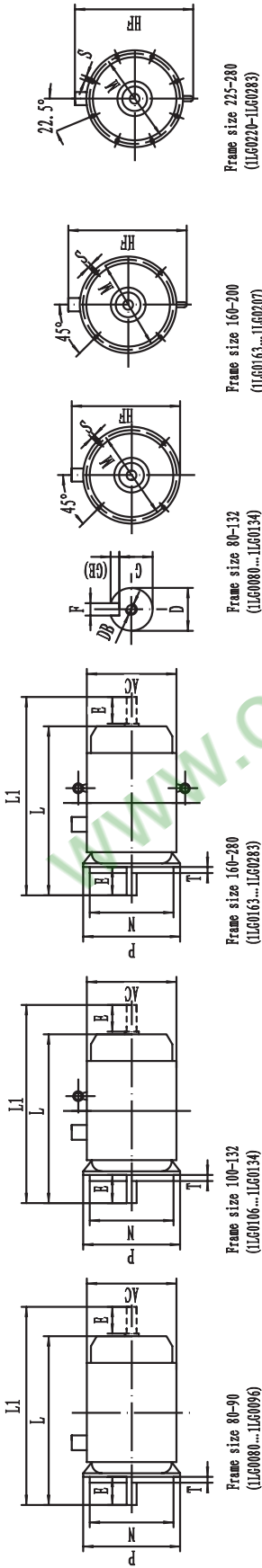
mm

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

Frame size	Flange number	Poles	Mounting Dimensions and Tolerance													Contour Dimensions										
			A	A/2	B	D	B	P	G ¹⁾	H	H ²⁾	M	N	P ³⁾	R ⁴⁾	S ²⁾	T	Flange hole number	DB	AB	AC	AD	BD	L	L1	
80M	1L6080...1L6083		125	62.5	100	50	19	40	6	15.5	80	10	165	130	200	±1.5	12	4	M6	165	164	145	220	295	335	
90S	1L6090		140	70	125	56	24	50	8	20	90	12	215	180	250	±2.0	15	4	M8	180	184	155	250	320	375	
100L	1L60106...1L60107		160	80	140	63	28	60	±0.30	24	100	12	265	230	300	±2.0	15	4	M10	205	204	180	270	385	445	
112M	1L60113		190	95	140	70	38	80	±0.30	33	112	15	300	250	350	±3.0	19	5	M12	230	228	190	300	400	465	
132S	1L60130...1L60131	2, 4, 6	216	108	178	89	42	110	±0.40	37	132	19	350	300	400	±1.5	24	6	M16	270	267	210	345	470	555	
132M	1L60133...1L60134		254	127	254	121	48	140	±0.40	42.5	180	19	400	350	450	±1.5	24	6	M16	320	325	255	420	615	735	
160L	1L60166		279	139.5	279	121	55	140	±0.40	49	200	19	400	350	450	±1.5	24	6	M16	355	366	280	455	700	810	
180M	1L60183		318	159	305	133	60	140	±0.40	53	225	19	400	350	450	±1.5	24	6	M16	395	408	305	505	770	880	
200L	1L60206...1L60207		356	178	311	149	65	140	±0.40	58	250	24	500	450	550	±1.5	24	6	M20	435	456	335	560	820	935	
225S	1L60220		406	203	349	168	75	140	±0.40	67.5	280	24	500	450	550	±1.5	24	6	M20	490	504	370	615	915	1060	
225M	1L60223		457	228.5	390	190	75	170	±0.40	67.5	315	28	600	550	660	±2.0	28	8	M20	550	566	410	680	980	1125	
250M	1L60253		419	209.5	368	180	65	170	±0.40	71	315	28	600	550	660	±2.0	28	8	M20	490	504	370	615	915	1060	
280S	1L60280		406	203	349	168	75	170	±0.40	67.5	280	24	500	450	550	±1.5	24	6	M20	550	566	410	680	980	1125	
280M	1L60283		419	209.5	368	180	65	170	±0.40	71	315	28	600	550	660	±2.0	28	8	M20	490	504	370	615	915	1060	
315S	1L60310		406	203	349	168	75	170	±0.40	71	315	28	600	550	660	±2.0	28	8	M20	550	566	410	680	980	1125	
315M	1L60313		508	254	457	216	80	170	±0.40	71	315	28	600	550	660	±2.0	28	8	M20	635	639	530	845	1300	1440	
315L	1L60316...1L60317		508	254	457	216	80	170	±0.40	71	315	28	600	550	660	±2.0	28	8	M20	635	639	530	845	1300	1440	
355M	1L60353...1L60355		560	280	508	254	95	170	±0.40	86	355	28	740	680	800	±2.0	28	8	M24	730	718	655	1010	1500	1640	
355L	1L60356...1L60357		630	315	560	280	95	170	±0.40	86	355	28	740	680	800	±2.0	28	8	M24	730	718	655	1010	1500	1640	

1) P=QE, QE limit deviations for frame size 80M 1L6080...1L6083 are (H⁺), others are (H⁺), 2) R, 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.

Dimension drawings



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 ²⁾	R ⁴⁾	S ²⁾	T	Flange hole number	DB	AC	HF	L	L1	
80M	1LG0080...1LG0083		19	40	6 ⁰ _{-0.008}	15.5 ⁰ _{-0.10}	165	130	200	±1.5	12	φ1.0 [⊕]	3.5	M6	164	235	295	335	
90S	1LG0090		24	50	8 ⁰ _{-0.006}	20								M8	184	255	320	375	
90L	1LG0096		28	60		24								M10	204	290	385	445	
100L	1LG0106...1LG0107		38	80		33								M12	228	315	400	465	
112M	1LG0113	2, 4, 6													267	360	470	555	
132S	1LG0130...1LG0131		42			37									325	480	615	735	
132M	1LG0133...1LG0134		48			42.5									366	510	700	810	
160M	1LG0163...1LG0164		55			49									408	570	770	880	
160L	1LG0166		60			53										815	965		
180M	1LG0183		65			53										820	935		
180L	1LG0186		75			49										845	990		
200L	1LG0206...1LG0207		60			53										504	685	915	1060
225S	1LG0220	4	60	140	18 ⁰ _{-0.043}	58											960	1105	
225M	1LG0223	2	55	110	18 ⁰ _{-0.030}	49											980	1125	
250M	1LG0253	4, 6	60			53											1010	1156	
280S	1LG0280	2	65	140	20 ⁰ _{-0.022}	67.5											1030	1176	
280M	1LG0283	4, 6	75			67.5													

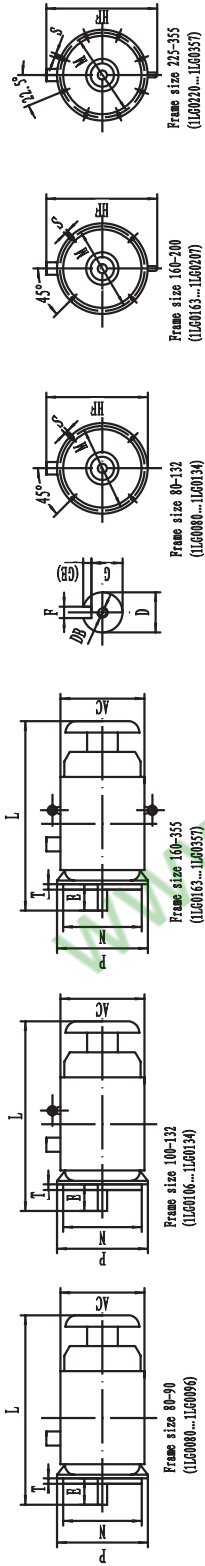
1) G=D-GE, GE limit deviations for frame size 80M 1LG0080...1LG00183 are (⁰_{-0.10}), others are (⁰_{-0.20}).

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.

Dimension drawings



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	B	F	G ¹⁾	M	N	P ³⁾	R ⁴⁾	S ²⁾	T	Flange hole number	DB	AC	HF	L
80M 1LG0080...1LG0083	PF165	4	19	40	6 ^{±0.008}	15.5 ^{±0.10}	200	±1.5	12	±0.010	3.5	M6	164	235	355		
90S 1LG0090			50	8	20	165	130	±1.5									
90L 1LG0096			50	8	20	165	130	±1.5									
100L 1LG0106...1LG0107	PF215	2, 4, 6	28	60	8 ^{±0.008}	24	250	±2.0	15	±0.010	4	M10	204	290	445		
112M 1LG0113			80	10	33	215	180	±2.0									
132S 1LG0130...1LG0131			80	10	33	215	180	±2.0									
132M 1LG0133...1LG0134	PF300	2, 4, 6	42	80	12	37	300	±3.0	19	±0.010	4	M12	267	360	530		
160M 1LG0163...1LG0164			110	14	42.5	300	250	±3.0									
160L 1LG0166			110	14	42.5	300	250	±3.0									
180M 1LG0183	PF350	4	55	140	16	49	400	±3.0	19	±0.010	5	M16	325	480	685		
180L 1LG0186			140	18	53	350	300	±3.0									
200L 1LG0206...1LG0207			140	18	53	350	300	±3.0									
225S 1LG0220	PF400	2	60	140	18	53	400	±3.0	19	±0.010	5	M16	366	510	770		
225M 1LG0223			140	18	53	400	350	±3.0									
230M 1LG0253			140	18	53	400	350	±3.0									
280S 1LG0280	PF500	4, 6	65	140	20	58	500	±4.0	24	±0.010	6	M20	566	760	1040		
280M 1LG0283			170	22	67.5	500	450	±4.0									
315S 1LG0310			170	22	67.5	500	450	±4.0									
315M 1LG0313	PF600	2	65	140	18	58	600	±4.0	24	±0.010	6	M20	639	950	1270		
315L 1LG0316...1LG0317			170	22	67.5	600	550	±4.0									
355M 1LG0353...1LG0355			170	22	67.5	600	550	±4.0									
355L 1LG0356...1LG0357	PF740	4, 6	95	170	25	86	740	±4.0	24	±0.010	6	M24	718	1125	1580		
			140	25	86	740	680	±4.0									
			140	25	86	740	680	±4.0									

1) G=GB, limit deviations for frame size 80M 1LG0080...1LG0083 are (+^{0.10}), others are (+^{0.10}). 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: Jul24,2006)



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



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



Nemko AS
P.O. Box 73, Bilindern
N-0314 Oslo, Norway

Office address
Gaustadalleen 30
Oslo

Telephone
+47 22 96 03 30
Enterprise number:

Fax
+47 22 98 05 50
NO 974404532

Interested?

You can find additional information on our products relating to industrial drives on the Internet at:

Motors

www.siemens.com/lowvoltagemotors
www.siemens.com/gearedmotors

Frequency inverters

www.siemens.com/sinamics-g110
www.siemens.com/sinamics-g120
www.siemens.com/micromaster

Distributed drive technology

www.siemens.com/sinamics-g120d
www.siemens.com/et200s-fc
www.siemens.com/et200pro-fc
www.siemens.com/combimaster

Energy Saving program SinaSave

www.siemens.com/energysaving

Contacts

sd-focus.slc@siemens.com

Siemens
Automation and Drives
Standard Drives

Subject to change without prior notice
Order No.: E20001-A8110-C100-V4-7600
148-SH905632-040817

Printed in China
Siemens 2008

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.