Standard delivery times:

Supplements to order numbers and special versions

Voltages Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4 10 working days 20 working days

Voltages	11.	A			0'			, .							
voltages	Volt- age	Addi- tional	Motor category			ard deli		•	ed area)					
	code	identifi-	Motor version	Motor type	MOTOR	type –	Frame	size							
	11th posi-	cation code		(cast-iron)	100	112	132	160	180	200	225	250	280	315	315 L
	tion of the	with order			100	112	132	100	100	200	225	250	200	S/M	313 L
	Order No.	code and	IE2 High Efficiency	1LG6					1LG6						
		plain text if	IE3 Premium	1LG6										1LG6	
		required	Efficiency												
			IE1 Standard Efficiency	1LA6/1LG4 1PP4	1LA6	3			1LG4 1PP4						
				1LP4					1LP4						
			NEMA Energy	1LG6					1LG6						
			Efficient	41.00											41.00
			NEMA Premium	1LG6											1LG6 ®
			Efficient												
1PP4			Motor version	Motor type	Frame	size 112	122	160	180	200	225	250	280	215	315 L
1L				-51-	100	112	132	100	100	200	223	250	200	315 S/M	313 L
Voltage at 50 Hz or 60 Hz															
50 Hz 230 VΔ/400 VY, 60 Hz 460 VY	1	-	All	All	_	_			0		_				
50 Hz 400 VΔ/690 VY,	6	-	All except ① a	nd <u>8</u>	_				0					_	
60 Hz 460 VΔ 1)															
Voltage at 50 Hz and 50 H 500 VY	lz outpi	ut —	All	All	0	0	0	0	0	0	0	0	0	0	0
500 VΔ	5	_	All	All	-	-	-	-	0	0	0	0	0	0	0
220 VΔ/380 VY	9	L1R	All	All	1	1	1	1	1	1	√	√	√	1	-
(440 VY at 60 Hz)	•	1.45	A II	All	_				0					0	
230 VΔ 380 VΔ/660 VY	9	L1E L1L	All except (7) a	All	o ✓	○ ✓	○✓	○✓	○ ✓	○ ✓	✓	○✓	○ ✓	○✓	- 1
(440 VΔ at 60 Hz) 1)	9	LIL	All except (7) al		•	•	•	•	•	•	•	•	•	•	V
415 VY	9	L1C	All	All	1	✓	✓	✓	1	✓	✓	✓	✓	✓	_
415 VΔ	9	L1D	All	All	√	✓	✓	✓	√	✓	✓	✓	✓	✓	1
400 VY 400 VΔ	9	L1A L1B	All All	All	0	0	0	0	0	0	0	0	0	0	0
400 VΔ 400 VΔ	9	L1U	All	All	0	0	0	0	0	0	0	0	0	0	0
(460 VΔ at 60 Hz)															
Voltage at 60 Hz and requ	_			All			,	,		,	,	,	,		
220 V∆/380 VY; 50 Hz output	9	L2A	All	All	✓	1	1	1	1	1	✓	✓	1	1	_
220 VΔ/380 VY;	9	L2B	All except ① a	nd ®	✓	✓	✓	✓	1	✓	✓	✓	✓	✓	-
60 Hz output ²⁾ 380 VΔ/660 VY;	9	L2C	All except ① a		1	√	/	1	1	1	1	1	1	1	1
50 Hz output 1)			All except (f) at												
380 VΔ/660 VY; 60 Hz output ^{1) 2)}	9	L2D	All except ① a		1	1	1	1	1	✓	1	1	1	1	✓
440 VY; 50 Hz output	9	L2Q	All	All	1	1	1	1	1	1	1	1	1	1	_
440 VY; 60 Hz output ²⁾	9	L2W	All except ① a		1	✓	✓ /	√	1	1	1	1	√	1	-
440 VΔ; 50 Hz output	9	L2R	All	All	1	1	1	1	1	✓	✓	✓	✓	1	✓
440 VΔ; 60 Hz output ²⁾	9	L2X	All except 7 a		√	1	1	1	1	1	1	1	1	1	✓
460 VY; 50 Hz output 460 VY; 60 Hz output ²⁾	9	L2S L2E	All except ① a	All	√	✓	✓	✓○	✓	✓	✓	✓	✓	✓	_
460 VΔ; 50 Hz output ²⁷	9	L2E L2T	All except (1) all	All	√	√	✓ ✓	✓ ✓	√	✓ ✓	✓ ✓	✓ ✓	✓ ✓	√	_ ✓
460 VΔ; 60 Hz output ²⁾	9	L2F	All except ① a		0	0	0	0	0	0	0	0	0	0	0
575 VY; 50 Hz output	9	L2U	All	All	√	✓	✓	✓	1	✓	✓	✓	✓	1	-
575 VY; 60 Hz output ²⁾	9	L2L	All except ① a		✓	✓	✓	✓	1	✓	✓	✓	✓	1	-
575 VΔ; 50 Hz output	9	L2V	All	All	✓	✓	✓	✓ •	✓	✓ •	✓	✓ •	✓	✓ •	✓
575 VΔ; 60 Hz output ²⁾ Non-standard voltage an	9 d/or fre	L2M	All except ① a	nd (8)	0	0	0	0	0	0	0	0	0	0	0
	a/or tre	L1Y •	All	All	1	1	√	1	1	1	1	1	1	1	1
Non-standard winding 9				7 (1)											
Non-standard winding 3)		and													
Non-standard winding 97		and identification													

20 working

davs

10

working

days

On request

SIMOTICS SD 1LG Standard Motors

Supplements to order numbers and special versions

Voltages – Cast-iron series 1LG4 – pole-changing, 1LG6 – for converter-fed operation only

Voltages	Volt-	Addi-	Motor catego	ory	Stand	ard de	livery ti	me (co	lored ar	ea)					
	age code	tional identifi-	Motor version	Motor type	Moto	type -	- Fram	e size							
	11th posi-	cation code	Version	(cast-iron)											
	tion	with			100	112	132	160	180	200	225	250	280	315 S/M	315 L
	of the Order		Pole-	1LG4					1LG4					3/W	
	No.	and plain	changing												
		text if													
		required	Motor	Motor	Frame	size									
			version	type		112	132	160	180	200	225	250	280	315	315 L
1LG4														S/M	
Voltage at 50 Hz and 50 Hz o				All					_	_	_	_		_	
230 V	1	-	All	All											
400 V 500 V	6 5	_	All All	All					0	0	0	0	0	0	0
690 V	0	_	All	All					0	0	0	0	0	0	0
Voltage at 60 Hz and require				All					O						
220 V; 50 Hz output	9	L4A	All	All					1	/	/	/	/	1	1
220 V; 60 Hz output	9	L4B	All	All					1	✓	✓	✓	✓	✓	✓
380 V; 50 Hz output	9	L4C	All	All					1	✓	✓	✓	✓	1	✓
380 V; 60 Hz output	9	L4D	All	All					1	/	<u>√</u>	<i>\</i>	/	<u> </u>	√
440 V; 50 Hz output	9	L4G	All	All					1	✓	✓	✓	1	✓	1
440 V; 60 Hz output	9	L4E	All	All					1	1	1	1	1	1	1
460 V; 50 Hz output	9	L4J	All	All					1	1	√	1	1	1	✓
460 V; 60 Hz output	9	L4H	All	All					1	1	/	√	1	✓	✓
575 V; 50 Hz output	9	L4N	All	All					1	1	1	1	1	1	√
575 V; 60 Hz output	9	L4M	All	All					1	1	1	1	1	1	✓
Non-standard voltage and/or	r freque	ncies													
Non-standard winding ³⁾	9	L1Y • and identification code	All	All					√	✓	√	√	1	✓	1
Voltages	Volt-	Addi-	Motor catego	orv	Stand	ard de	liverv ti	ime (co	lored ar	ea)					
rollagoo	age code	tional identifi-	Motor version	Motor type		type -			roroa ar	ou,					
	11th posi-	cation code		(cast-iron)											
	tion	with			100	112	132	160	180	200	225	250	280	315 S/M	315 L
	of the Order	order code	For con-	1LG6					1LG6					3/IVI	
	No.	and plain text if required	verter-fed operation only	iLau					TEGO						
			Motor	Motor	Frame	size									
1LG6			version	type	100	112	132	160	180	200	225	250	280	315 S/M	315 L
Voltage at 50 Hz and 50 Hz o	utput														
500 VY	3	-	All	All											
500 VΔ	5	-	All	All					0	0	0	0	0	0	0
690 VY	8	-	All	All					0	0	0	0	0	0	0
400 VY	9	L1A	All	All					0	0	0	0	0	0	0
400 VΔ	9	L1B	All	All					0	0	0	0	0	0	0
Non-standard voltage and/or	r freque														
Non-standard winding ^{3) 4) 5)}	9	L1Y • and identification code	All	All					1	✓	√	√	1	✓	1

- Standard version
- o Without additional charge
- This order code only determines the price of the version Additional plain text is required.
- O. R. Possible on request
- ✓ With additional charge
 - Not possible
- For the North America export version of 1LG6 with order code D41 NEMA Premium Efficient or D42 NEMA Energy Efficient, voltages above 600 V will not be stamped.
- 2) Not admissible in combination with order codes D41 NEMA Premium Efficient or D42 NEMA Energy Efficient.
- Plain text must be specified in the order: Voltage between 200 and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated output in kW.
- 4) Please inquire in the case of 1LG6 motors of frame size 315 for voltages in the 200 V range.
- 5) 60 Hz data is not admissible on the rating plate

SIMOTICS SD 1LA/1LG/1LP/1PP Standard Motors

10 working w

20 working days

On request

Supplements to order numbers and special versions

Types of construction Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

pes of constr	uction	Type of	Addi- tional	Motor cate	0 ,				ime (co		area)							
		con- struc- tion code 12th posi- tion	identifi- cation code with order code and	Motor version	Motor type (cast- iron)				ne size 160		200	225	250	280	315 S/M	315 L 2- pole	315 L 4 to 8-pole, pole- chang- ing	1LG6
		of the Order No.	plain text	IE2 High Efficiency IE3	1LG6					1LG6	5 ①				41.00		-mg	
				Premium Efficiency	1LG6	1LA6				11.04					1LG6			
				IE1 Standard Efficiency		TLA6	(3)			1LG4	ļ (5)							
				NEMA Energy Efficient	1LP4 1LG6					1LP4 1LG6								
				NEMA Premium Efficient	1LG6													1LG ⑧
				Pole- changing For con- verter-fed	1LG4 1LG6					1LG4								
				operation only Motor	Motor	Frame	e size											
	94 -			version	type	100		132	160	180	200	225	250	280	315 S/M	315 L 2- pole	315 L 4 to 8-pole, pole- chang- ing	11 (-
ithout flange B3 ¹⁾		0	-	All except	①	_	_	_	_	0	_	0	_	0	0	0	_	0
B6, IM B7, B8 ^{1) 2)}		0	_			0	_	0	0				_	0		0	0	0
V6 ^{1) 2) 4)}	الماريا	0	-	All except												-	-	-
		9	M1E	All except		-	-	-	-	-	-	-	-	-	-	✓	0	O. F
V5 without otective over 2) 4)		9	- M1D	All except All except		-	-	-	-	-	-	-	-	-	-	<i>-</i> ✓	0	О. I
V5 with		9	M1F	All except and ⑦≤2		√	1	✓	1	1	✓	1	√	1	1	√	✓	O. F

Standard delivery times:

Supplements to order numbers and special versions

Types of construction
Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

10 working days 20 working days

Types of const	ruction	Type	Addi-	Motor cate	· ,		dard de			lored	area)							
		of con-	tional identifi-	Motor version	Motor type		r type -			100	000	005	050	000	045	0451	0454	0454
		struc- tion code 12th posi- tion	cation code with order code and	Version	(cast- iron)	100	112	132	160	180	200	225	250	280	315 S/M	315 L 2- pole	pole-	315 L 1LG6 318M, 1LG6 312M
		of the Order	plain text if re-	IE2 High	1LG6					1LG6								
		No.	quired	Efficiency IE3 Premium	1LG6										1LG6			
				Efficiency IE1	1LA6/	1LA6	3			1LG4	4							
				Standard Efficiency	1LG4 1PP4					1PP4								
					1LP4					1LP4								
				NEMA Energy Efficient	1LG6					1LG6								
				NEMA Premium Efficient	1LG6													1LG6 ®
				Pole- changing	1LG4					1LG4	9							
				For con- verter-fed	1LG6					1LG6								
				operation only														
	PP4			Motor version	Motor type	100	e size 112	132	160	180	200	225	250	280	315 S/M	315 L 2- pole	315 L 4 to 8-pole, pole- chang- ing	315 L 1LG6 318M, 1LG6 312M
With flange			DIN EN DIN 429				FF215 A 250							FF500 A 550	FF600 A 660	FF600 A 660	FF600 A 660	FF740 A 800
IM B5		1	-	All	All	1	1	1	1	1	1	1	1	✓	1	-	-	-
IM V1 without		1	-	All	All	1	1	1	1	1	/	1	1	√	1	_	-	_
protective cover 4) 5)		8	-	All	All	-	-	-	-	-	-	-	-	_	-	1	✓	✓
IM V1 with protective cover 3) 4) 5)		4	-	All except and 6	⑤	√	1	1	√	√	√	√	√	✓	✓	√	√	√
IM V3 ⁵⁾		1	-	All	All	1	1	✓	1	-	-	-	-	-	-	-	-	-
		9	M1G	All	All	-	_	-	-	✓	✓	✓	✓	√	✓	-	_	_
IM B35 ¹⁾		6	-	All except ≤ 200 hp	0	1	1	1	1	1	1	1	1	1	1	1	1	1

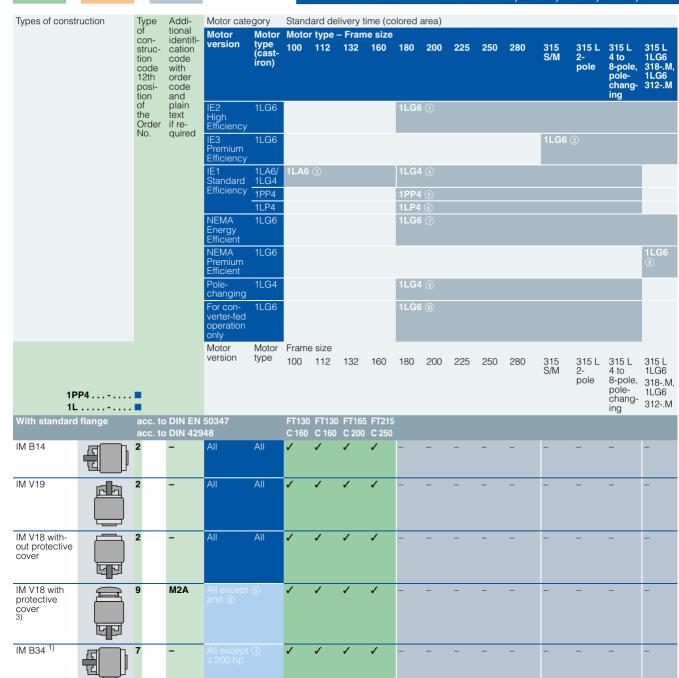
Standard delivery times: SIMOTICS SD 1LA/1LG/1LP/1PP Standard Motors

10 working days

20 working days On request

Supplements to order numbers and special versions

Types of construction Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4



Standard delivery times:

Supplements to order numbers and special versions

Types of construction Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4 10 working days

20 working days

Types of construction	on	Type	Addi-	Motor cate					me (co	lored	area)							
		tion code 12th posi- tion	tional identification code with order code and	Motor version	Motor type (cast- iron)				e size 160			225	250	280	315 S/M	315 L 2- pole	315 L 4 to 8-pole, pole- chang- ing	315 L 1LG6 318M, 1LG6 312M
		of the Order	plain text if re-	IE2 High Efficiency	1LG6					1LG6								
		No.	quired	IE3 Premium Efficiency	1LG6										1LG6	2		
				IE1 Standard	1LA6/ 1LG4	1LA6	3			1LG4	4							
				Efficiency						1PP4								
				NEMA	1LP4 1LG6					1LP4								
				Energy Efficient						iLac	, ()							
				NEMA Premium Efficient	1LG6													1LG6 ®
				Pole- changing	1LG4					1LG4	9							
				For con- verter-fed	1LG6					1LG6								
				operation only Motor	Motor	Frame	9 Si70											
				version	type			132	160	180	200	225	250	280	315 S/M	315 L 2- pole	4 to	315 L 1LG6 318M, 1LG6 312M
With special flange	9		DIN EN DIN 429					FT215 C 250										
IM B14		3	-	All	All	1	1	1	1	-	-	-	-	-	-	-	-	-
IM V19	<u>a</u>	3	-	All	All	1	1	1	1	-	-	-	-	-	-	-	-	-
IM V18 with- out protective cover		3	-	All	All	1	1	✓	1	-	-	-	-	-	-	-	-	-
cover 3)		9	M2B	All except and (6)		√	1	1	√	-	-	-	-	-	-	-	-	-
IM B34 ¹⁾		9	M2C	All except ≤ 200 hp	①	1	1	1	✓	-	-	-	-	-	-	-	-	-

- Standard version
- Without additional charge
 - This order code only determines the price of the version Additional plain text is required.
- O. R. Possible on request
- ✓ With additional charge
- Not possible

- 3) The "Second shaft extension" option, order code K16 is not possible.
- 4) 60 Hz version is available on request for 2-pole 1LG4/1LG6 motors of frame size 315 L.
- 5) 1LG4/1LG6 motors of frame sizes 225 S to 315 M are supplied with two screw-in eyebolts conforming to IM B5, whereby one can be repositioned to conform to IM V1 or IM V3. It is important to note that stress must not be applied perpendicular to the ring plane.

For the North America export version of 1LG6 with order code D42 NEMA Energy Efficient, types of construction with feet are not possible for 2-pole, 4-pole and 6-pole motors ≤ 200 hp in accordance with NEMA MG1 Table 12-11.

²⁾ If motors of frame sizes 180 M to 315 L are fixed to the wall, it is recommended that the motor feet are supported.

Supplements to order numbers and special versions

Standard delivery times:

10 working days 20 working days On request

Options
Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

Selection and ordering data Special versions Additional Motor category Standard delivery time (colored area) identifica-tion code Motor Motor type - Frame size Motor version type (cast-225 250 280 100 112 132 160 180 200 315 S/M/L -Z 1LG6 with order iron) 318-.M code and 11 G6 plain text if required 312-.M IE2 High Efficienc 1LG6 1LG6 Premium Efficiency IE1 1LA6/ 1LG4 1LG4 (4) ._. Standard Efficiency 1PP4 1LP4 1LG6 ⑦ NEMA 1LG6 Energy Efficient NEMA 1LG6 1LG6 ଞ Premium Efficient Pole-changing 1LG4 For con-1LG6 Motor Motor Frame size version type 100 132 160 180 200 225 250 280 315 S/M/L 1LG6 318-.M, 1PP4...-... 312-.M 1L - Motor protection Motor protection with PTC A11 thermistors with 3 embedded temperature sensors for tripping 1) Motor protection with PTC A12 All thermistors with 6 embedded temperature sensors for alarm and tripping $^{1)}$ Motor temperature detection with A23 All embedded temperature sensor KTY 84-130 1) Motor temperature detection with A25 / ΑII embedded temperature sensors 2 x KTY 84-130 1) Temperature detectors for A31 All tripping 1) Installation of 3 PT100 resistance A60 ΔΙΙ All ./ ./ thermometers 1) Installation of 6 PT100 resistance A61 All ΑII / / thermometers in stator winding Installation of 2 PT100 screw-in A72 ΑII resistance thermometers in basic circuit for rolling-contact bearings 1) 2) 3) Installation of 2 PT100 screw-in A78 AII All resistance thermometers in 3-wire circuit for rolling-contact bearings 1) 3) Installation of 2 PT100 double A80 All screw-in resistance thermometers in 3-wire circuit for rollingcontact bearings 1)3) Motor connection and connection box Two-part plate on connection K06 All box Undrilled entry plate L01 0 0 0 0 0 0 0 Connection box on RHS K09 1 Connection box on LHS K10

SIMOTICS SD 1LA/1LG/1LP/1PP Standard Motors
Supplements to order numbers and special versions Standard delivery times:

10 working days

20 working days

On request

Options Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

Special versions	Additional		0 ,					red area)						
	identifica- tion code -Z with order code and plain text if required	version	Motor type (cast- iron)	100	or type – 112	- Frame 132	size 160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318N 1LG6 312N
		IE2 High Efficiency						1LG6 (D					
		IE3 Premium	1LG6										1LG6 (2
		IE1 Standard	1LA6/	1LA6	3			1LG4	4					
		Efficiency	1PP4 1LP4					1PP4 (
		NEMA	1LP4 1LG6					1LP4 (6						
		Energy Efficient	U-06											41.00
		NEMA Premium Efficient	1LG6											1LG6
		Pole- changing	1LG4					1LG4 (9					
		For converter-fed operation only	1LG6					1LG6 (0					
		Motor version	Motor type	Frame 100	ie size 112	132	160	180	200	225	250	280	315 S/M/L	318-
1PP4	· -													1LG(312- *)
IL Motor connection and connecti		entinued)												*)
Connection box on top, feet screwed on	K11	All	All	-	-	-	-	1	✓	✓	✓	✓	✓	1
Connection box in cast-iron ersion	K15	All except	(5) and	0	0	0	0	1	1	√	0	0	0	0
One metal cable gland	K54	All	All	√	✓	✓	1	1	✓	✓	✓	✓	1	1
Cable gland, nax. configuration	K55	All	All	√	1	1	1	1	1	/	/	1	1	V
Rotation of the connection box hrough 90°, entry from DE	K83	All	All	V	√	/	1	1	1	/	1	1	1	V
Rotation of the connection box hrough 90°, entry from NDE	K84	All	All	1	/	/	/	1	1	1	/	1	V	/
Rotation of the connection box hrough 180°	K85	All	All	✓	✓	✓	✓	1	/	1	/	/	√	/
Next larger connection box	L00	All except	All	-	-	-	-	✓ □	✓ □	✓ □	✓ □	✓ □	✓ □	✓ □
External grounding Cables protruding, 1.5 m long	L13 L48	All except All	t (10) All	√ -	-	_	-	□	✓	<u> </u>	O. R.	O. R.	O. R.	O. R
6 cables protruding, 3 m long 4)	L49	All	All	-				1	√	√	O. R.	O. R.	O. R.	0. F
Protruding cable ends – ight side ^{5) 6)}	L51	All	All	-	-	-	-	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	0. F
Protruding cable ends – eft side ^{5) 6)}	L52	All	All	-	-	-	-	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. F
Auxiliary connection box 1XB3020	L97	All	All	-	-	-	-	1	✓	1	✓	✓	✓	1
Stud terminal for cable connection, accessories pack 3 items)	M46	All	All	-	-	-	-	-	-	-	✓	✓	✓	1
Saddle terminal for connection without cable lug, accessories pack (6 items) Windings and insulation	M47	All	All	-	-	-	-	-	-	-	√	√	√	1
Temperature class 155 (F), used acc. to 155 (F), with service factor (SF)		All except		✓	V	√	✓	√	1	✓	1	✓	1	✓
Temperature class 155 (F), used acc. to 155 (F), with increased output	C12	All except		√	1	1	1	√	✓	✓	1	√	✓	1
Temperature class 155 (F), used acc. to 155 (F), with	C13	All except		✓	1	1	1	1	1	1	1	1	1	1

Standard delivery times:

Supplements to order numbers and special versions

Options
Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

10 working days 20 working days

Special versions	Additional		0 ,			•	•	ed area)						
	identifica- tion code -Z with order code and plain text if required	Motor version	Motor type (cast- iron)	Motor 100	r type – 112	Frame 132	size 160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318M, 1LG6 312M
		IE2 High Efficiency	1LG6					1LG6	D					
		IE3 Premium Efficiency	1LG6										1LG6 (
		IE1 Standard Efficiency	1LG4	1LA6	3			1LG4 (
		NEMA	1LP4 1LG6					1LP4 (
		Energy Efficient	ILGO					ILG6						
		NEMA Premium Efficient	1LG6											1LG6 ®
		Pole- changing	1LG4					1LG4	9					
		For converter-fed operation only	1LG6					1LG6 (
		Motor version	Motor type	Frame 100	e size 112	132	160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318M,
1PP4														1LG6 312M *)
Windings and insulation (contin	nued)													
Temperature class 180 (H) at rated output and max. CT 60 °C 7) 8) 9)	C18	Only poss ③, ④, ⑤	and ⑨	√	✓	✓	<i>y</i>	1	√	✓	✓	✓	✓	-
Increased air humidity/ temperature with 30 to 60 g water per m ³ of air	C19	All	All	✓	✓	✓	√	1	✓	✓	✓	✓	✓	✓
Temperature class 155 (F), used acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 %	C22	All except		✓	√	✓	√	✓	1	✓	✓	✓	✓	✓
Temperature class 155 (F), used acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 %	C23	All except		√	1	✓	1	✓	1	✓	✓	✓	√	√
Temperature class 155 (F), used acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 %	C24	All except		1	1	✓	1	✓	1	✓	✓	✓	✓	1
Temperature class 155 (F), used acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 %	C25	All except		1	1	✓	1	✓	/	√	✓	√	V	✓
Increased air humidity/ temperature with 60 to 100 g water per m ³ of air	C26	All	All	V	1	1	1	1	✓	✓	✓	✓	✓	1
Temperature class 155 (F), used acc. to 130 (B), with higher coolant temperature and/or site altitude	Y50 • and specified output, CT °C or SA m above sea level	All except		J	1	1	1	V	V	/	√	√	<i>y</i>	/
Temperature class 155 (F), used acc. to 155 (F), other requirements 8)	Y52 • and specified output, CT °C or SA m above sea level	All except	10	1	1	1	1	J	1	√	1	1	✓	V

SIMOTICS SD 1LA/1LG/1LP/1PP Standard Motors
Supplements to order numbers and special versions Standard delivery times:

10 working days

20 working days

On request

Options Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

Special versions		Motor cate	· ,			,	e (colore	ed area)						
	identifica- tion code -Z with order code and plain text if required		Motor type (cast- iron)	Motor 100	112	Frame 132	size 160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318N 1LG6 312N
		IE2 High Efficiency	1LG6					1LG6	①					
		IE3 Premium	1LG6										1LG6 (2	
		Efficiency IE1	1LA6/	1LA6	3			1LG4	(4)					
		Standard Efficiency	1LG4					1PP4 (©					
			1LP4					1LP4 (
		NEMA Energy	1LG6					1LG6						
		Efficient NEMA Premium	1LG6											1LG6
		Efficient Pole-	1LG4					1LG4	9					
		For converter-fed	1LG6					1LG6	10					
		operation only	M. Ann											
		Motor version	Motor type	Frame 100	e size 112	132	160	180	200	225	250	280	315 S/M/L	315 1LG 318-
1PP4														1LG 312-
1L														*)
Colors and paint finish Standard finish in RAL 7030		All	All					0	_	_	_	0	0	_
stone gray														
Standard finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 · 2008 Part 0 "Introduction")	Y53 • and standard finish RAL	All	All	-	-	-	-	✓	/	✓	✓	✓	V	✓
Special finish in RAL 7030 stone gray 10)	K26	All	All	_	_	-	-	1	1	1	1	✓	√	1
Special finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 · 2008 Part 0 "Introduction")	Y54 • and special finish RAL		All	✓	√	√	√	✓	√	✓	✓	✓	√	✓
Special finish in special RAL colors: For RAL colors, see "Special finish in special RAL colors" in Catalog D 81.1 · 2008 Part 0 "Introduction"	Y51 • and special finish RAL		All	√	✓	✓	√	1	✓	√	√	✓	V	1
Special paint for use offshore	M91	All	All	O. R.	0. R.	0. R.	0. R.	1	1	1	1	1	1	1
Special finish sea air resistant Unpainted	M94 K23	All	All	√	✓	✓	✓	✓	✓	✓ ○	✓	✓	✓	√
(only cast-iron parts primed)														
Unpainted, only primed	K24	All	All	✓	1	1	✓	1	✓	✓	✓	✓	1	1
Modular technology – Basic ver Mounting of separately driven fan ¹²⁾	G17	All except		1	✓	✓	1	1	✓	✓	1	1	1	-
Mounting of brake 12) 13)	G26	All except		-	-	-	-	1	1	✓	1	✓	1	-
M .: (4)/D0004 4 (UTL)	H57	All except		1	1	1	1	1	√	√	1	1	1	1
Mounting of 1XP8001-1 (HTL) rotary pulse encoder														

Standard delivery times:

10 working days 20 working days

On request

Supplements to order numbers and special versions
Options
Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

Special versions		Motor cate	0 ,					ed area)						
	identification code -Z with order code and plain text if required	Motor version	Motor type (cast- iron)	Motor 100	r type – 112	Frame 132	size 160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318M, 1LG6 312M
		IE2 High Efficiency	1LG6					1LG6	1					
		IE3 Premium Efficiency	1LG6										1LG6 (
		IE1 Standard	1LA6/ 1LG4	1LA6	3			1LG4	4					
		Efficiency	1PP4					1PP4 (
		NEMA Energy	1LP4 1LG6					1LP4 (1LG6 (
		Efficient NEMA Premium Efficient	1LG6											1LG6 ®
		Pole-	1LG4					1LG4	9					
		For converter-fed operation only	1LG6					1LG6						
1PP4		Motor version	Motor type	Frame 100	e size 112	132	160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318M, 1LG6 312M
1L Modular technology – Combina		sic version	ıs ¹¹⁾											*)
Mounting of separately driven fan and 1XP8001-1 rotary pulse encoder	H61	All except		✓	✓	1	✓	1	1	1	1	1	✓	-
Mounting of brake and 1XP8001-1 rotary pulse encoder ¹³⁾	H62	All except		-	-	-	-	1	1	1	1	1	✓	-
Mounting of brake and separately driven fan 12) 13)	H63	All except		-	-	-	-	1	1	1	1	1	1	-
Mounting of brake, separately driven fan and 1XP8001-1 rotary pulse encoder ¹³)	H64	All except		-	-	-	-	1	1	1	1	1	√	-
Mounting of separately driven fan and 1XP8001-2 rotary pulse encoder	H97	All except 6		1	1	1	1	1	1	✓	1	✓	✓	-
Mounting of brake and 1XP8001-2 rotary pulse encoder ¹³⁾	H98	All except ⑥		-	-	-	-	1	1	1	1	1	✓	-
Mounting of brake, separately driven fan and 1XP8001-2 rotary pulse encoder ¹³⁾	H99	All except ⑥	⑤ and	-	-	-	-	1	1	✓	1	✓	✓	-
Modular technology – Addition Brake supply voltage 24 V DC	al versions C00	All except		-	-	-	_	1	1	1	/	1	1	-
Brake supply voltage 400 V AC	C01	6 All except		_	-	_	-	✓	✓ /	1	1	1	1	_
Mechanical manual brake release with lever (no locking)	K82	6 All except 6			-	-	-	1	✓	✓	✓	✓	✓	-
Special technology ¹¹⁾ Mounting of LL 861 900 220	H70	All except		1	/	/	√	1	/	/	/	/	1	1
rotary pulse encoder Mounting of HOG 9 D 1024 I	H72	6 All except			<i></i>	√	✓	✓ ✓					1	<i>y</i>
rotary pulse encoder Mounting of HOG 10 D 1024 I	H73	6 All except			✓	√	✓	√			<u> </u>		1	<i>y</i>
rotary pulse encoder Prepared for mounting of	H78	6 All except		✓ ✓	<u> </u>	√	✓	√ ✓	<i>'</i>	<u> </u>	<i>y</i>	<i>'</i>	1	<i>y</i>
LL 861 900 220 Prepared for mounting of	H79	6 All except			<i>\</i>	√	√	<i>'</i>	<u> </u>			· /	1	1
HOG 9 D 1024 I Prepared for mounting of	H80	6 All except			<i>\</i>	√	<u> </u>	<i>'</i>	<i>'</i>	· /	· /	<i>'</i>	1	<i>'</i>
HOG 10 D 1024 I Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal	J15	6 All except (9) and (10)		✓	✓ /	✓	✓	√	✓	✓	✓	✓	✓	✓

10 working days

20 working days

On request

SIMOTICS SD 1LA/1LG/1LP/1PP Standard Motors
Supplements to order numbers and special versions

Options Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

Special versions	Additional identifica-	Motor cate	· ,				•	ed area)						
	tion code -Z with order code and plain text if required	Motor version	Motor type (cast- iron)	Motor	112	Frame 132	size 160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318M, 1LG6 312M
		IE2 High Efficiency	1LG6					1LG6 (D					
		IE3 Premium Efficiency	1LG6										1LG6 (
		IE1	1LA6/	1LA6	3			1LG4 (4)					
		Standard Efficiency	1LG4 1PP4					1PP4 (
			1LP4					1LP4 (
		NEMA Energy Efficient	1LG6					1LG6 (D					
		NEMA Premium Efficient	1LG6											1LG6 ®
		Pole- changing	1LG4					1LG4 (9)					
		For converter-fed operation	1LG6					1LG6 (
		only Motor version	Motor type	Frame 100	size 112	132	160	180	200	225	250	280	315	315 L
1PP4													S/M/L	1LG6 318M, 1LG6 312M
1L														*)
Special technology ¹¹⁾ (continue Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal box protection against dust	J16	All except (9) and (10)		1	1	1	1	✓	1	1	✓	1	1	√
Mounting of HOG 10 DN 1024 I rotary pulse encoder + centrifugal switch, (speed rpm), terminal box protection against	Y74 • and required speed	All except (9) and (10)		-	-	-	-	1	/	1	✓	1	√	1
humidity Mounting of HOG 10 DN 1024 I rotary pulse encoder + centrifu- gal switch, (speed rpm), ter- minal box protection against dust	Y76 • and required speed	All except (9) and (10)		-	-	-	-	1	/	√	√	√	/	1
Mounting of HOG 10 DN 1024 I rotary pulse encoder + ESL 93, (speed rpm), terminal box protection against dust	rpm Y79 • and required speed (max. 3)	All except (9) and (10)		-	-	-	-	1	√	√	✓	√	✓	1
Mechanical design and degrees	rpm	ion												
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar (not possible for IM V3 type of construction) 14)		All	All	√	1	1	1	1	1	1	1	1	1	1
Low-noise version for 2-pole motors with clockwise direction of rotation ¹⁵⁾	K37	Only possi 3 and 4		-	-	1	1	1	1	√	1	1	1	-
Low-noise version for 2-pole motors with counter-clockwise direction of rotation ¹⁵)	K38	Only possi 3 and 4		-	-	1	1	1	1	1	1	1	1	-
IP65 degree of protection ¹⁶⁾	K50	All	All	1	/	/	/	1	✓	/	/	/	1	1
IP56 degree of protection ¹⁷⁾ Vibration-proof version	K52 L03	All All	All All	√ √	1	1	1	√	✓	_	_	_	-	-
Condensation drainage holes ¹⁸⁾	L12	All except		√ √	1	✓ ✓	1	_	_	_	_	_	_	_
Rust-resistant screws (externally)	M27	All	All	1	✓	1	✓	<u>-</u>	<i>-</i>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<i>-</i>
Grounding brush for	M44	All except	(5) and	-	-	-	-	_	-	-	-	O. R.	O. R.	O. R.
Converter-fed operation Mechanical protection for encoder ¹⁹⁾	M68	All except		1	✓	1	✓	1	1	√	1	√	1	1

Standard delivery times:

10 working days 20 working days

On request

Supplements to order numbers and special versions
Options
Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

Special versions	Additional		· ,					ed area)						
	identifica- tion code -Z with order code and plain text if required	Motor version	Motor type (cast- iron)	Motor 100	type – 112	Frame 132	size 160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318M 1LG6 312M
		IE2 High Efficiency	1LG6					1LG6 (D					
		IE3 Premium Efficiency	1LG6										1LG6 ②	
		IE1 Standard	1LA6/ 1LG4	1LA6	3			1LG4 (4)					
		Efficiency	1PP4 1LP4					1PP4 (1LP4 (
		NEMA Energy	1LG6					1LG6 (
		Efficient NEMA Premium	1LG6											1LG6 (
		Efficient Pole-	1LG4					1LG4 (9)					
		changing For converter-fed operation only	1LG6					1LG6 (
		Motor version	Motor type	Frame	size 112	132	160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318M
1PP4														1LG6 312M *)
Coolant temperature and site a														,
Coolant temperature -50 to +40 °C ²⁰) ²¹)	D02	All	All	-	-	-	-	1	✓	✓	1	✓	✓	1
Coolant temperature -40 to +40 °C ²⁰⁾	D03	All	All	✓	1	✓	✓	1	✓	✓	✓	✓	1	1
Coolant temperature -30 to +40 °C ²⁰⁾	D04	All	All	1	1	1	1	1	1	1	1	✓	✓	1
Designs in accordance with sta IE1 motor without CE marking for				ercenta O	ge add O	litional c	harges [·] O	for order	codes D	25 and D	41 refer to	o the bas O	ic machin	e) O
export outside EEA (see EU Directive 640/2009)	DZZ /Vew!	Only poss 3, 4, 5		0		0		U				0		O
Premium Efficiency IE3	D25			-	-	-	-	-	-	-	-	-	✓	1
Electrical according to NEMA MG1-12 ²²⁾	D30	All except and (10); for (8) standar version		1	1	1	1	✓	√	1	1	√	1	1
Design according to UL with "Recognition Mark" 9) 22)	D31	All except (7) and (8) dard versi		1	1	1	1	1	1	1	1	1	1	-
Certified for Korea acc. to KS C4202 9) 23)	D33	Only poss		-	-	-	-	1	1	1	1	✓	1	-
China Energy Efficiency Label 9)	D34 New!			-	-	-	-	0	0	0	0	0	0	-
Canadian regulations (CSA) 9) 24)	D40	All except (1) and (8) dard versi		1	√	1	1	1	√	1	1	✓	1	-
NEMA Premium Efficient, North America version according to NEMA MG1, Table 12-12, incl. UL and CSA	D41 New!	_		-	-	-	-	-	-	-	-	-	-	1
NEMA Energy Efficient, North America version according to NEMA MG1, Table 12-11, incl. UL and CSA	D42 New!	Only poss		-	-	-	-	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	1
PSE mark for Japan ²⁵⁾	D46	Only poss 3		✓	1	1	-	-	-	-	-	-	-	-
VIK version (comprises Zone 2 for mains-fed operation, without Ex nA II marking on rating plate)	K30	Only poss ①, ②, ⑦, 8-pole mo		1	1	1	1	1	1	1	1	✓	1	1
Ex nA II on VIK rating plate 9)	C27	Only poss		✓	✓	1	1	1	1	1	1	✓	1	-

20 working days

10

working

days

On request

SIMOTICS SD 1LA/1LG/1LP/1PP Standard Motors
Supplements to order numbers and special versions

Options Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

Special versions	Additional	Motor cate						ed area)						
	identifica- tion code -Z with order code and plain text if required	Motor version	Motor type (cast- iron)	Motor 100	112	Frame 132	size 160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318I 1LG6 312I
		IE2 High Efficiency	1LG6					1LG6	D					
		IE3 Premium	1LG6										1LG6 (
		Efficiency IE1	1LA6/	1LA6	3			1LG4	4)					
		Standard Efficiency						1PP4 (
		NEMA Energy	1LP4 1LG6					1LP4 (1LG6 (
		Efficient NEMA	1LG6											1LG6
		Premium Efficient	11.04					41.04	3					
		Pole- changing	1LG4					1LG4						
		For converter-fed operation only	1LG6					1LG6						
		Motor version	Motor type	Frame 100	size 112	132	160	180	200	225	250	280	315 S/M/L	315 I 1LG
1PP4														318- 1LG(312- *)
Bearings and lubrication														,
Measuring nipple for SPM shock bulse measurement for bearing nspection	G50	All	All	1	1	1	1	1	1	✓	✓	1	1	1
Bearing design for increased cantilever forces ²⁶)	K20	All	All	✓	1	1	1	1	1	1	1	1	1	1
Special bearing for DE and NDE, bearing size 63 ²⁷⁾	K36	All	All	-	-	-	-	1	1	1	1	1	1	1
Regreasing device	K40	All	All	√	1	1	1	1	√	√	√			
Located bearing DE Located bearing NDE	K94	All All	All	√ √	1	√ √	✓ □	√ □	✓ □	✓ □	✓ □	✓ □	✓ □	✓
nsulated bearing cartridge ²⁸⁾	L27	All	All	-	_	_	_	_	_				∠	/
Balance and vibration quantity														
Vibration quantity level A		All	All											
Vibration quantity level B	K02	All	All	1	√	√	√	1	<i>\</i>	<u>/</u>	√	√	√	1
Full-key balancing Balancing without key	L68 M37	All	All	1	1	√ ✓	√ /	1	1	1	1	√ 	√ ✓	1
Shaft and rotor	IVIO	All	All	V	V	V	V	•	,	,	-	-	•	•
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors ²⁹⁾	K04	All	All	V	✓	1	1	✓	✓	✓	✓	✓	1	1
Second stand. shaft extension 30)	K16	All	All	1	/	/	/	1	1	✓	1	1	1	1
Shaft extension with stand. dimen., without feather keyway	K42	All	All	1	1	✓	1	✓	✓	1	✓	✓	1	1
Concentricity of shaft extension n accordance with DIN 42955 Folerance R	L39	All	All	1	1	1	1	1	V	✓	1	1	1	1
Stand. shaft made stain. steel	M65	All	All	1	1	1	1	1	1	1	√	√	1	1
Non-standard cylindrical shaft extension 31)	Y55 • and identification code	All	All	1	1	1	1	1	1	1	1	1	1	1
Heating and ventilation														
Fan cover for textile industry 32) Metal external fan 33)	H17 K35	All except	All (5) and	√ √	√ √	√ ✓	√ ✓	- ✓	_ ✓	_ ✓	_ ✓	- ✓	_ ✓	- ✓
Anti-condensation heating for 230 V	K45	6 All	All	1	1	√	√	1	1	√	√	√	1	1
Anti-condensation heating for 230 v		All	All	1	1	✓ ✓	1	√ ✓	✓ ✓	<i></i>	✓ ✓	✓ ✓	1	1
Sheet metal fan cover	L36	All except		-	-	-	-	1	✓	✓	✓	✓	✓ ✓	1
Separately driven fan with non-standard voltage and/or frequency	Y81 • and identification code	All except		-	-	-	-	-	-	√	1	1	1	-

Standard delivery times:

Supplements to order numbers and special versions

Options
Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

10 working days 20 working days

On request

Special versions		Motor cate	egory	Stand	Standard delivery time (colored area)										
	identifica- tion code	Motor version	Motor Motor		Motor type – Frame size										
	with order code and plain text if required		type (cast- iron)	100	112	132	160	180	200	225	250	280	315 S/M/L	315 L 1LG6 318M, 1LG6 312M *)	
		IE2 High Efficiency	1LG6					1LG6 (1						
		IE3 Premium Efficiency	1LG6 ,										1LG6 ②	<u>D</u>	
		IE1 Standard	1LA6/ 1LG4	1LA6	3			1LG4 (4						
		Efficiency	1PP4					1PP4 (
		NEMA	1LP4 1LG6					1LP4 (1LG6 (
		Energy Efficient						ILGO	\mathcal{D}					1LG6 (8)	
		NEMA Premium Efficient	1LG6											TLG0 ®	
		Pole- changing	1LG4					1LG4 (9						
		For converter-fed operation only	1LG6					1LG6 (10						
		Motor version	Motor type	Frame 100	e size 112	132	160	180	200	225	250	280	315 S/M/L	315 L 1LG6	
1PP4 1L														318M, 1LG6 312M *)	
Rating plate and extra rating place Second lubrication plate, loose	B06	All	All	1	,	,	1	1	/	1	1	/	1	√	
Extra rating plate for	B07 New!	/ All except	t 6 , 9	√ √	1	✓ ✓	1	1	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	1	
voltage tolerance ³⁴⁾ Second rating plate, loose	K31	and 8-pole		√	/	/	1	1	/	/	/	✓	1	√	
Rating plate, stainless steel			All	-	_	_	_	1	√ ✓	<i>y</i>	✓ ✓	✓ ✓	✓ ✓	✓ ✓	
Extra rating plate or rating plate with deviating rating plate data	Y80 • and identification code	All	All	√	√	✓	√	√	1	1	1	√	1	1	
Extra rating plate with identification codes	Y82 • and identification code		All	√	✓	1	1	✓	✓	√	√	✓	1	√	
Additional information on rating plate and on package label (max. 20 characters)	Y84 • and identification code		All	√	✓	1	1	✓	✓	√	√	✓	1	√	
Packaging, safety notes, docum															
With one safety and start-up guide per box pallet	B01	All	All	0	0	0	0	-	-	-	-	-	-	-	
Acceptance test certificate 3.1 in acc. with EN 10204 35)	B02	All	All	•	V	V	•	ľ			•		•	,	
Printed German/English Operating Instructions (Compact) enclosed ³⁶)		All	All		-			0			_	-	0	0	
Printed German/English Operating Instructions enclosed	B23	All	All	1	1	1	1	1	1	✓	1	✓	1	1	
Type test with heat run for horizontal motors, with	F83	All except	10)	√	✓	1	✓	√	√	1	1	√	1	1	
acceptance			_		^	0	0	_	_	_	_	_	_	-	
Wire-lattice pallet	L99	All	All	0	0							$\overline{}$			
	M32	All All	All All	○✓	√ ✓	✓ ✓	√ ✓	- √	√ √	✓ □	√ □	✓	✓ □	√ □	

O. R. Possible on request

Without additional charge

With additional charge

Additional plain text is required.

This order code only determines the price of the version –

Supplements to order numbers and special versions

Cast-iron series 1LA6, 1LG4, 1LG6, 1LP4, 1PP4

- For 1LG6312-2MA... 1LG6312-4MA... 1LG6318-2MB.. and 1LG6318-4MA.. motors, it is not possible to use the options for country certificates (D31, D33, D34, D35, D40), marine certificates (E11, E21, E31, E51), explosion-proof version (M72, M73, M34, M35, M38, M39, M74, M75, C27), brakes, brakes with encoder (G26, H47, H62, H63, H64, H98, H99), low-noise versions (K37, K38) and mounting of a separately driven fan, separately driven fan with encoder (G17, H61, H64, H97, H99)
- Evaluation with appropriate tripping unit (see Catalog IC 10) is recommended. For pole-changing motors with separate windings, the number of temperature sensors must be doubled (order code A11, prices of A12 or order code A12, prices available on request).
- For 1LG6 motors with special insulation for converter-fed operation, order code A72 is not possible for frame sizes 225 to 315 in combination with the option "Insulated bearing cartridge" – Order code L27.
- For 1LG4 pole-changing motors in frame size 200, PT100 bearing monitoring is only possible at the drive end (DE).
- In combination with the PTC thermistor option or anti-condensation heating option, please inquire before ordering.
- Possible in combination with order code L44 to L49 or length specification in plain text
- For 1LG4 pole-changing motors, 1LG6 motors with special insulation for converter-fed operation and 1PP4 forced-air cooled motors, in combination with the PTC thermistor option or anti-condensation heating option. please inquire before ordering.
- Cannot be used for motors in UL version (order code D31). Cannot be used for motors according to CSA approval (order code D40) for 1LG4/ 1LG6 motor series. The grease lifetime specified in Catalog D 81.1 · 2008 in Part 0 "Introduction" refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease service lifetime or relubrication interval is halved.
- Not possible for 1LG4 motors with increased output.
- Order identically priced predecessor type for 1LG6...2AA../1LG6...2AB... 2-pole motors or 1LG6...4AA.. 4-pole motors using the options for country certificates (D31, D33, D34, D35, D40), marine certificates (E11, E21, E31, E51), explosion-proof version (M72, M73, M34, M35, M38, M39, M74, M75, C27) and IE3 version for SH 315 (D25).
- ¹⁰⁾ For frame sizes 100 to 160, do not specify an order code. Order code is only necessary for frame sizes 180 to 315.
- ¹¹⁾ Second shaft extension is not possible, with mounted brake on request. The order codes listed cannot be combined within the various technologies nor with each other within the same technology system. This applies for:

 - Modular technologyBasic versions of "Modular technology
 - Combinations of basic versions "Special technology"
- ¹²⁾ For 1LG4/1LG6 motors, order codes G17, G26 and H63 frame size 225 and above can also be combined with all rotary pulse encoders in the "Special technology" range.
- ¹³⁾ The standard brake supply voltage is 230 V AC, 50/60 Hz. Other brake supply voltages are possible with order codes C00 and C01.
- ¹⁴⁾ Not available for 2-pole motors of frame size 180 and above.
- ¹⁵⁾ For 1LG4 motors, in the low-noise version, a second shaft extension and/or encoder mounting is not possible. Not necessary for 1LG6 motors because these motors are already noise optimized.
- Not possible in combination with rotary pulse encoder HOG 9 D 1024 I (order code H72, H79) and/or brake 2LM8 (used for motors up to and including frame size 225, order code G26).
- ¹⁷⁾ Not possible in combination with brake 2LM8 (used for motors up to and including frame size 225, order code G26).
- Supplied with the condensation drainage holes sealed at the drive end DE and non-drive end NDE (IP55, IP56, IP65). If condensation drainage holes are required in motors of the IM B6, IM B7 or IM B8 type of construction (feet located on side or top), it is necessary to relocate the bearing plates at the drive end (DE) and non-drive end (NDE) so that the condensation drainage holes situated between the feet on delivery are underneath.
- ¹⁹⁾ Not necessary when a rotary pulse encoder is combined with a separately driven fan, because in this case the rotary pulse encoder is installed under the fan cover

- ²⁰⁾ For 1LG6 motors with special insulation for converter-fed operation, in connection with mountings, their respective technical data must be considered, please inquire before ordering
- ²¹⁾ In combination with order code D02, the motor achieves IP54 degree of protection
- Possible up to 600 V max. Order with voltage code 9 and order code for voltage and frequency. The rated voltage is indicated on the rating plate. Order codes D30 and D31 do not authorize importing into USA and Mexico. The North America export version of the 1LG6 with order code D41 NEMA Premium Efficient or D42 NEMA Energy Efficient is available for this purpose
- The 2, 4 and 6-pole IE2 motors 1LA9 and 1LG6 in the 0.75 kW to 200 kW range for 50 Hz output at 60 Hz are certified for Korea.
- Order with voltage code 9 and order code for voltage and frequency. The rated voltage is indicated on the rating plate. Order code D40 does not authorize importing into Canada. The North America export version of the 1LG6 with order code D41 NEMA Premium Efficient or D42 NEMA Energy Efficient is available for this purpose.
- "Small power motors" with a rated output of up to 3 kW which are exported to Japan must bear the correct marking.
- ²⁶⁾ Not possible for 2-pole motors, frame size 315 L in vertical types of construction; bearings for increased cantilever forces at vibration quantity level B are available on request for motors of frame size 180 and above. Not possible for motors of frame size 180 and above in the combination "Concentricity of the shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors" -Order code K04.
- ²⁷⁾ With 4-pole to 8-pole motors of frame size 280 and above, standard version
- ²⁸⁾ For 1LG6 motors with special insulation for converter-fed operation, this option is not possible for frame sizes 225 to 315 in combination with the option "Installation of 2 PT100 screw-in resistance thermometers in basic circuit for rolling-contact bearings" - Order code A72.
- Can be combined with deep-groove bearings of series 60.., 62.. and 63... Not possible in combination with parallel roller bearings (e.g. bearings for increased cantilever forces, order code K20), brake mounting or encoder mounting
- 30) Possible for motors of frame size 315 and above in vertical types of construction or 2-pole for version with second shaft extension on request. Version with protective cover not possible.
- ³¹⁾ When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer normatively. Not valid for: Conical shafts, non-standard threaded journals, non-standard shaft tolerances, friction welded journals, extremely "thin" shafts, special geometry dimensions (e.g. square journals), hollow shafts. Valid for non-standard shaft extensions DE or NDE. The feather keys are supplied in every case. For order codes Y55
 - Dimensions D and DA ≤ internal diameter of roller bearing (see dimension tables under "Dimensions")
 - Dimensions E and EA ≤ 2 x length E (normal) of the shaft extension. For an explanation of the order codes, see Catalog D 81.1 · 2008 Part 0
- 32) The special requirements of the textile industry regarding the sheet metal cover open up the possibility that a finger may be inserted between the cover and enclosure. The customer must implement appropriate measures to ensure that the installed system is "finger-safe"
- 33) Converter-fed operation is permitted for 1LG motors with metal external fans. The metal external fan is not possible in combination with the low-noise version - Order code K37 or K38.
- ³⁴⁾ Can be ordered for 230VΔ/400VY or 400VΔ/690VY (voltage code 1 or 6). Not possible for pole-changing motors, naturally cooled motors, 8-pole motors and in combination with order code D34.
- 35) The delivery time for the factory test certificate may differ from the delivery time for the motor. $^{\rm 36)}$ The Operating Instructions (Compact) are available in PDF format for all
 - official EU languages at http://support.automation.siemens.com/WW/view/en/10803948/133300.