10 working days

20 working davs

On request

SIMOTICS SD 1LE1 Standard Motors

Supplements to order numbers and special versions

Voltages

Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line

Selection and ordering data

Voltages		oltage	Addi-	Motor category		Stand	dard de	livery t	ime (cc	olored	area)				
		ode 2th and	tional identifi-	Motor version	Motor		or type								
	13	3th	cation		type (cast-	100	112	132	160	180	200	225	250	280	315
		osition the	code with		iron)										
	O	rder	order	IE2 High Efficiency	1LE1501		501 Ba								
	No	U.	code and		1LE1601	1LE1	601 Pe	rforma	ınce Li	ne ②					
			plain	IE3 Premium Efficiency	1LE1503							asic Li			
			text if required		1LE1603						603 P€	erform	ance L	ine ④	
				NEMA Energy Efficient	1LE1521		521 Ea								
							621 Ea				ice 6				
				NEMA Premium Efficient			523 Ea								
							623 Ea	igle Lir	ne Perf	orman	ice ®				
41.54	_	_		Motor version	Motor type		e size	400	400	400	000	005	050	000	045
1LE1	ш	• • • • •			турс	100	112	132	160	180	200	225	250	280	315
Voltage at 50 Hz or 60 Hz	0			All	ΔII	_			_		_			_	_
50 Hz 230 V∆/400 VY, 60 Hz 460 VY	2	2	-	All	All	_			_	0	0	_		0	
50 Hz 400 VΔ/690 VY,	3	4	-	All except (5), (6), (7) and (8	3)				_	_					
60 Hz 460 VΔ ¹⁾															
50 Hz 400 VΔ, 60 Hz 460 VΔ ¹⁾				Only applicable for ⑤, ⑥,	~ ~										
50 Hz 500 VY	2	7	-	All	All	0	0	0	0	0	0	0	0	0	0
50 Hz 500 VΔ	4	0	-	All	All	0	0	0	0	0	0	0	0	0	0
50 Hz 220 VΔ/380 VY	2	1	-	All	All	/	√	/	√	/	√	✓	✓	√	√
50 Hz 380 VΔ/660 VY ¹⁾	3	3	-			1	√	√	√	/	<u>/</u>	<u>/</u>	<u>/</u>	√	√
50 Hz 380 VΔ ¹⁾				Only applicable for 5, 6,	~ ~	1	√	/	/	1	√	√	√	√	√
50 Hz 240 VΔ/415 VY, 60 Hz 480 VY	2	3	-	All	All	1	✓	✓	✓	1	√	√	✓	√	√
50 Hz 415 VΔ, 60 Hz 480 VΔ	_	5	-	All	All	1	1	1	1	1	1	1	1	✓	✓
Voltage at 60 Hz and required															
220 V∆/380 VY; 50 Hz output	9	0	M2A	All	All	1	✓	✓	√	1	√	✓	✓	1	1
220 VΔ/380 VY; 60 Hz output ²⁾	9	0	M1A	All except (5), (6), (7) and (6		✓	✓	✓	1	✓	✓	✓	✓	1	✓
380 V∆/660 VY: 50 Hz output ¹⁾	9	0	M2B	All except (5), (6), (7) and (8		1	✓	1	1	1	✓	✓	1	1	1
380 V∆; 50 Hz output 1)				Only applicable for ⑤, ⑥,		1	1	1	✓	1	1	/	1	1	✓
380 VΔ/660 VY; 60 Hz output ^{1) 2)}	9	0	M1B	All except (5), (6), (7) and (8)		1	1	1	1	1	1	1	1	1	1
440 VY; 50 Hz output	9	0	M2C	All	All	1	/	1	1	1	1	1	1	1	√
440 VY; 60 Hz output ²⁾	9	0	M1C	All except (5), (6), (7) and (8	3	1	1	1	1	1	1	1	1	1	1
440 VΔ; 50 Hz output	9	0	M2D	All	All	1	✓	1	✓	1	1	/	1	1	✓
440 VΔ; 60 Hz output ²⁾	9	0	M1D	All except (5), (6), (7) and (8	3)	1	1	1	1	1	/	1	1	/	✓
460 VY; 50 Hz output	9	0	M2E	All	All	1	1	1	1	1	1	1	1	1	1
460 VY; 60 Hz output ²⁾	9	0	M1E	All except (5), (6), (7) and (8	B)	0	0	0	0	0	0	0	0	0	0
460 VΔ; 50 Hz output	9	0	M2F	All	All	1	1	✓	1	1	1	✓	✓	✓	✓
460 VΔ; 60 Hz output ²⁾	9	0	M1F	All except (5), (6), (7) and (8		0	0	0	0	0	0	0	0	0	0
575 VY; 50 Hz output	9	0	M2G	All	All	1	✓	1	1	1	/	✓	✓	/	✓
575 VY; 60 Hz output ²⁾	9	0	M1G	All except (5), (6), (7) and (6	3)	1	✓	✓	1	1	✓	✓	1	1	✓
575 V∆; 50 Hz output	_	0	M2H	All	All	1	1	1	1	1	1	✓	✓	1	✓
575 VΔ; 60 Hz output ²⁾	_	0	M1H	All except (5), (6), (7) and (8	B)	1	1	1	1	✓	/	1	✓	/	✓
Voltage at 87 Hz and 87 Hz ou															
400 VΔ ³⁾		O New!		All	All	1	/	✓	1	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.
Non-standard voltage and/or t				All	A.II.		,				,				
Non-standard winding 4)	9	0	M1Y • and	All	All	1	/	1	1	1	1	/	1	1	1
			identifi-												
			cation code												
			code												

- 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
- For North America export versions Eagle Line 1LE1521/1LE1621 NEMA Energy Efficient and 1LE1523/1LE1623 NEMA Premium Efficient, voltages above 600 V will not be stamped.
- Not admissible for North America export versions Eagle Line 1LE1521/1LE1621 NEMA Energy Efficient and 1LE1523/1LE1623 NEMA Premium Efficient.
- Only possible for 4-pole, 6-pole and 8-pole motors. The operating data for converter-fed operation is also provided in a table on the rating plate.
- 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.

working

davs

20 10

working

days

IM B8

IM V6

IM V5

with protec-tive cover 2) 3) 4) 5)

without protective cover IM V5

D

С

С

-Z H00

On request

SIMOTICS SD 1LE1 Standard Motors

Supplements to order numbers and special versions

Types of construction

Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line Selection and ordering data Types of construction Motor category Standard delivery time (colored area) tional Motor Motor type - Frame size Motor conidentifi type (cast-iron) version 315 L 2-pole 315 L 4-pole, 6-pole, 8-pole 160 200 225 315 S/M 112 132 180 250 280 struc cation code code 14th -Z with pos. order IE2 High Efficiency code Order and No. plain text IE3 Premium Efficiency if re-1LE1603 1LE1603 Performance Line (4) quired NEMA 1LE1521 Energy Efficient 1LE1621 1LE1621 Eagle Line Performance 1LE1523 1LE1523 Eagle Line Basic ① NEMA Premium 1LE1623 1LE1623 Eagle Line Performance ® Motor Motor Frame size version type 100 112 132 160 180 200 225 250 280 315 315 L 315 L S/M 2-pole 4-pole, 6-pole, 8-pole Without flange IM B3 П П 0 П 0 0 IM B6 IM B7

SIMOTICS SD 1LE1 Standard Motors

Supplements to order numbers and special versions

Types of construction
Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line

Standard delivery times:

10 working days 20 working days

On request

Type	s of construction		Addi-	Motor categor	ry			_	(colore	d area)							
		of con- struc. code 14th pos.	tional identification code -Z with order	Motor version	Motor type (cast- iron)		type – 1 112	Frame s	size 160	180	200	225	250	280	315 S/M	315 L 2-pole	315 L 4-pole, 6-pole, 8-pole
		of the Order	code and	IE2 High Efficiency	1LE1501	1LE150											
		No.	plain text	,	1LE1601 1LE1503	1LE160)1 Perfo	ormance	e Line (_	02 Bee	ia Lina					
			if re-	IE3 Premium Efficiency	1LE1603							ic Line forman		4)			
			quired	NEMA	1LE1521				Basic 5								
				Energy Efficient	1LE1621	1LE162	21 Eagle	e Line F	Perform								
				NEMA Premium	1LE1523				Basic ①								
				Efficient	1LE1623	1LE162	23 Eagle	e Line F	Perform	ance ®)						
11	LE1			Motor version	Motor type	Frame	size 112	132	160	180	200	225	250	280	315 S/M	315 L 2-pole	315 L 4-pole, 6-pole, 8-pole
	flange	acc. to	DIN EN			FF215 A 250	FF215 A 250	FF265 A 300	FF300 A 350	FF300 A 350				FF500 A 550	FF600 A 660	– A 660	– A 660
IM B(2) 6)		F	-	All	All	✓	✓	✓	✓	√	✓	1	1	✓	✓	-	-
IM V without prote tive cove	out ec-	G	-	All	All	1	✓	1	1	1	1	✓	√	1	✓	1	1
IM V with prote tive cove 2) 4) 5	r ec-	G	-Z H00	All	All	√	√	√	√	V	1	✓	✓	✓	√	1	1
IM V	35)	Н	-	All	All	√	√	/	/	1	1	✓	√	√	√	-	-
IM B:		J	-	All except ⑤/ ≤ 200 hp		√	1	✓	✓	✓	1	√	√	1	√	✓	√
With	standard flange		DIN EN DIN 429			FT130 C 160	FT130 C 160	FT165 C 200	FT215 C 250								
IM B	14	K	- DIN 429	All	All	✓ ISO	✓ ·	✓ 200	√ ×	-	-	-	-	-	-	-	-
IM V ⁻ 2)	19	L	-	All	All	√	√	✓	✓	-	-	-	-	-	-	-	-
IM V without prote tive cove	out ec-	M	-	All	All	√	√	√	√	-	-	-	-	-	-	-	-
IM V with prote tive cove 2) 4) 5	r Ha	М	-Z H00	All	All	√	✓	√	√	-	-	-	-	-	_	-	-
IM B:	34	N	-	All except ⑤/ ≤ 200 hp	6	✓	✓	√	√	-	-	-	-	-	-	-	-

20 working working davs davs

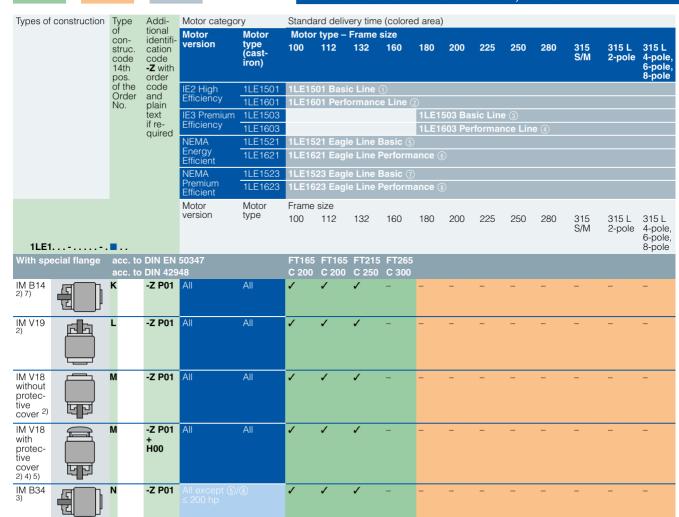
10

On request

SIMOTICS SD 1LE1 Standard Motors

Supplements to order numbers and special versions

Types of construction Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line



- Standard version
- With additional charge
- Not possible

- The types of construction IM B6/7/8, IM V6 and IM V5 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B3 is then stamped on the rating plate. With type of construction IM V5 with protective cover, the protective cover has to be additionally ordered with order code H00. The protective cover is not stamped on the rating plate.
- The type of construction is stamped on the rating plate. If mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly
- For North America export version Eagle Line 1LE1521/1LE1621 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
- In combination with an encoder it is not necessary to order the protective cover (order code H00), as this is delivered as a protection for the encoder as standard. In this case the protective cover is standard version (without additional charge).

- The "Second shaft extension" option (order code L05) is not possible.
- The types of construction IM V3 and IM V1 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B5 is then stamped on the rating plate. With type of construction IM V1 with protective cover, the protective cover has to be additionally ordered with order code H00. The protective cover is not stamped on the rating plate.
- The types of construction IM V19 and IM V18 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B14 is then stamped on the rating plate. With type of construction IM V18 with protective cover, the protective cover has to be additionally ordered with order code H00. The protective cover is not stamped on the rating plate.

10 working days 20 working days On request

SIMOTICS SD 1LE1 Standard Motors

Supplements to order numbers and special versions

Motor protection
Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line

Selection and ordering data

Motor protection	Motor	Addi-	Motor catego	ry	Standar	d deliv	ery time (d	colored a	rea)					
	protec- tion	tional identifi-	Motor	Motor		**	Frame siz							
	code 15th posi-	cation code with	version	type (cast- iron)	100	112	132	160	180	200	225	250	280	315
	tion of	order	IE2 High	1LE1501	1LE150	1 Basi	c Line ①							
	the	code	Efficiency	1LE1601	1LE160	1 Perfo	ormance L	Line ②						
	Order No.	and plain	IE3 Premium	1LE1503					1LE15	03 Basi	c Line ③			
		text if	Efficiency	1LE1603					1LE16	03 Perfo	rmance	Line 4		
		required	NEMA	1LE1521	1LE152	1 Eagl	e Line Ba	sic ⑤						
			Energy Efficient	1LE1621	1LE162	1 Eagl	e Line Pei	formand	e 6					
			NEMA	1LE1523	1LE152	3 Eagl	e Line Ba	sic 🕧						
			Premium Efficient	1LE1623	1LE162	3 Eagl	e Line Pei	formand	e (8)					
			Motor	Motor	Frame s	size								
1LE1	■.		version	type	100	112	132	160	180	200	225	250	280	315
Motor protection (winding)	protectio	n)												
Without motor protection 1)	A	-			0	_	0	0	0	0	0	0	0	0
Motor protection with PTC thermistors with 3 embedded temperature sensors for tripping 1) 2)	В	-	Standard vers Performance (4), (6) and (8)		1	1	1	√	V	1	1	1	1	1
Motor protection with PTC thermistors with 6 embedded temperature sensors for alarm and tripping ²⁾	С	-	All	All	1	1	✓	√	√	1	1	1	1	✓
Motor temperature detection with embedded temperature sensor KTY 84-130 ²)	F	-	All	All	✓	✓	1	1	1	✓	1	✓	1	1
Motor temperature detection with embedded temperature sensors 2 x KTY 84-130 ²⁾	G New!	-	All	All	1	√	✓	1	1	✓	1	1	1	1
Installation of 3 PT100 resistance thermometers	H New!	-	All	All	1	✓	1	1	1	1	1	1	1	1
Installation of 6 PT100 resistance thermometers ²⁾	J New!		All	All	-	-	-	-	1	1	✓	1	1	1
NTC thermistors for tripping	Z	Q2A	All	All	1	1	1	1	-	-	-	-	-	-
Temperature detectors for tripping ²⁾	Z	Q3A	All	All	J.	1	1	1	✓	1	1	1	1	1

Standard version

✓ With additional charge

Not possible

Note:

Options are available specifically for bearing protection – For order codes and descriptions, see from Page 1/65.

For the Performance Line, motor protection by means of PTC thermistors with 3 embedded temperature sensors for tripping (motor protection code B) is already included in the base price. For the Performance Line, the option "without motor protection" (motor protection code A) is not possible.

Evaluation with appropriate tripping unit (see Catalog IC 10) is recommended.

10 working days 20 working days

On request

SIMOTICS SD 1LE1 Standard Motors

Supplements to order numbers and special versions

Connection box position
Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line

Selection and ordering data

Connection box position	Con-	Addi-	Motor category		Standard delivery time (colored area)											
4	nection box	tional identifi-	Motor	Motor	Motor t	ype – Fr	ame size	е								
6 6	position code 16th		version	type (cast- iron)	100	112	132	160	180	200	225	250	280	315		
	position	order	IE2 High	1LE1501	1LE150											
7	of the Order	code and	Efficiency	1LE1601	1LE160	1 Perfori	nance L	ine								
	No.	plain	IE3 Premium	1LE1503					1LE150	03 Basic	Line					
		text if	Efficiency	1LE1603					1LE160	03 Perfo	rmance	Line				
		required	NEMA Energy	1LE1521	1LE152	1 Eagle l	Line Bas	ic								
					1LE162	LE1621 Eagle Line Performance										
			Premium Efficient	1LE1623	1LE162	3 Eagle I	Line Per	formanc	е							
			Motor version		Frame s	ize										
1LE1				type	100	112	132	160	180	200	225	250	280	315		
Connection box position																
Connection box top 1)	4	-	All	All												
Connection box on RHS ²⁾	5	-	All	All	✓	1	✓	1	✓	1	1	1	1	✓		
Connection box on LHS ²⁾	6	-	All	All	V	✓	√	✓	1	1	1	1	1	✓		
Connection box bottom ^{2) 3)}	7	-	All	All	✓	1	✓	1	-	-	-	-	-	-		

Standard version

With additional charge

Not possible

¹⁾ For types of construction with feet, cast feet are standard. Screwed-on feet are available with order code H01.

²⁾ For types of construction with feet, screwed-on feet are standard.

³⁾ Not generally possible for motors with feet.

10 working days

20 working days

On request

SIMOTICS SD 1LE1 Standard Motors
Supplements to order numbers and special versions

Options
Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line

Special versions	Additional	Motor category		Stand	ard deli	very time	e (colore	d area)					
	identification code -Z with order code and	Motor version	Motor type (cast- iron)	Moto 100	r type - 112	Frame 132	size 160	180	200	225	250	280	315
	plain text if required	IE2 High	1LE1501			ic Line							
		Efficiency	1LE1601	1LE10	601 Per	ormano	e Line (_					
		IE3 Premium	1LE1503							ic Line			
		Efficiency	1LE1603						03 Perf	ormano	e Line (
		NEMA Energy Efficient	1LE1521				Basic 5						
		NEMA Premium	1LE1621				Perform						
		Efficient	1LE1623										
		Motor version	Motor	Frame		ie Lille	r en onn	arree (o)					
LE1Z		Wictor Vorcion	type	100	112	132	160	180	200	225	250	280	315
lotor protection (bearing prot	ection)					.02			200		200	200	0.0
nstallation of 2 PT100 screw-in esistance thermometers in easic circuit for rolling-contact learings ¹⁾		All	All	-	-	-	-	√	1	✓	1	✓	1
lotor connection and connect	tion box												
ne metal cable gland	R15	All	All	✓	✓	1	✓	1	1	1	✓	1	✓
able gland, max. configuration	7.4.1	All	All	1	1	1	√	√	✓	<u>/</u>	√	✓	<u>/</u>
otation of the connection box brough 90°, entry from DE otation of the connection box	R10	All	All	1	1	1	1	1	1	1	<i></i>	<i>\</i>	\ \
oration of the connection box brough 90°, entry from NDE otation of the connection box	R12	All	All	0	0	0	0	√ ✓	<i>'</i>	<u> </u>	<u> </u>	<i></i>	✓ ✓
rough 180°		,	, vii	Ŭ	Ŭ	Ŭ	Ŭ	Ť	Ť	Ť	•	•	Ť
arger connection box	R50	All	All	1	✓	1	-	-	-	-	_	-	-
kternal grounding	H04	All	All	1	1	1	1						
aud terminal for cable connecton, accessories pack (3 items)	R17 New!		All	-	-	-	-	-	-	-	/	<i>'</i>	✓
ilicone-free version	R74 New!	All	All	-	_	_	_	_	_	_	✓	✓	✓
/indings and insulation emperature class 155 (F), used cc. to 155 (F), with increased colant temperature	N03	All	All	1	1	✓	✓	-	-	-	-	-	-
emperature class 180 (H) at ated output and max. CT 60 °C	N11	All	All	✓	1	1	1	-	-	-	-	-	-
ncreased air humidity/ emperature with 30 to 60 g rater per m ³ of air	N20	All	All	✓	1	1	✓	J	1	1	1	1	1
emperature class 155 (F), sed acc. to 130 (B), coolant emperature 50 °C, derating pprox. 8 %	N06	All	All	✓	1	√	✓	1	1	√	√	✓	✓
creased air humidity/ mperature with 60 to 100 g ater per m ³ of air	N21	All	All	-	-	-	-	1	√	✓	✓	✓	✓
olors and paint finish													
tandard finish in RAL 7030 one gray		Only possible fo Line (1), (3), (5) a		_				_					
andard finish in other andard RAL colors: RAL 1002, 2013, 1015, 1019, 2003, 2004, 2000, 3007, 5007, 5009, 5010, 2012, 5015, 5017, 5018, 5019, 2014, 6019, 6021, 7000, 7001, 2004, 7011, 7016, 7022, 7031, 2025, 7033, 7035, 9001, 9002, 2005 (see Catalog D 81.1 · 2008 2010,	stan- dard finish RAL	Only possible fo Line ①, ③, ⑤ a		_	_	-	-	•	\	√	✓	1	
pecial finish in RAL 7030 one gray	S10 New!	All; standard ver Performance Lin 6 and 8		1	1	1	1	1	1	1	1	1	1

SIMOTICS SD 1LE1 Standard Motors

Supplements to order numbers and special versions

Options
Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line

Standard delivery times:

10 aworking working days da

20 working days

On request

Special versions	Additional	Motor category		Standa	ard deliv	ery time	(colore	d area)					
	identification code -Z	Motor version	Motor	Moto	type –	Frame	size						
	with order		type (cast-	100	112	132	160	180	200	225	250	280	315
	code and plain text if		iron)										
	required	IE2 High	1LE1501	1LE15	01 Basi	c Line (D						
		Efficiency	1LE1601	1LE16	01 Perf	ormanc	e Line 🤅	2)					
		IE3 Premium	1LE1503					1LE15	03 Basi	c Line			
		Efficiency	1LE1603					1LE16	03 Perf	ormanc	e Line ④		
		NEMA Energy	1LE1521	1LE15	21 Eagl	e Line E	Basic 5						
		Efficient	1LE1621	1LE16	21 Eagl	e Line F	Performa	ance 🜀					
		NEMA Premium	1LE1523	1LE15	23 Eagl	e Line E	Basic 🗇						
		Efficient	1LE1623	1LE16	23 Eagl	e Line F	Performa	ance ®					
		Motor version	Motor	Frame	size			Ĭ					
1LE1Z			type	100	112	132	160	180	200	225	250	280	315
Colors and paint finish (continu	ued)												
Special finish in other standard	Y54 •	All	All	1	1	1	1	1	1	1	1	1	1
RAL colors: RAL 1002, 1013,	and												
1015, 1019, 2003, 2004, 3000, 3007, 5007, 5009, 5010, 5012,	special finish												
5015, 5017, 5018, 5019, 6011,	RAL												
6019, 6021, 7000, 7001, 7004,													
7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005													
(see Catalog D 81.1 · 2008													
Part 0 "Introduction")													
Special finish in special RAL	Y51 •	All	All	✓	/	1	1	✓	✓	✓	1	✓	✓
colors: For RAL colors, see "Special finish in special	and special												
RAL colors" (see Catalog	finish												
D 81.1 · 2008 Part 0	RAL												
"Introduction")		A.II	A.11										
Unpainted (only cast-iron parts primed)	S00	All	All	0	0	0	0	0	0	0	0	0	0
Unpainted, only primed	S01	All	All	√	1	1	1	1	/	/	/	/	√
Modular technology – Basic ve		7 (11	7 MI	•	•	•	•	•	•	•	•	•	•
Mounting of separat. driven fan		All	All	1	1	/	/	1	1	/	1	1	1
Mounting of separat. driver fair	F01	All	All	√	✓	√	√	√	<u>✓</u>		1	✓	✓
Mounting of 1XP8012-10 (HTL)	G01	All	All	1	1	√	√	√	✓	1	1	1	1
rotary pulse encoder 5) 6)	GUI	All	VII.	ľ	•	•	•	•	•	•	•	•	•
Mounting of 1XP8012-20 (TTL)	G02	All	All	1	1	1	1	1	1	1	1	/	/
rotary pulse encoder 5) 6)													
Modular technology – Addition	nal versions												
Brake supply voltage 24 V DC	F10	All	All	1	✓	1	✓	1	1	1	✓	✓	✓
Brake supply voltage 230 V AC	F11	All	All	0	0	0	0	0	0	0	0	0	0
Brake supply voltage 400 V AC	F12	All	All	1	✓	1	✓	1	1	✓	✓	✓	✓
Mechanical manual brake	F50	All	All	✓	✓	1	1	1	✓	1	1	1	✓
release with lever (no locking)													
Special technology 3)	004	A.U.	A.II.		,				,	,			,
Mounting of LL 861 900 220 rotary pulse encoder 7)	G04	All	All	✓	✓	✓	✓	1	✓	✓	1	1	1
Mounting of HOG 9 D_1024 I	G05	All	All	ſ	1	1	1	1	/		/	/	/
rotary pulse encoder 7)	400	7.11	7 (11						· _	•	•	•	
Mounting of HOG 10 D 1024 I	G06	All	All	√	1	1	1	1	1	1	1	1	1
rotary pulse encoder 7)													
Mechanical design and degree													
Protective cover 5) 7) 8)	H00	All	All	✓	✓	1	1	✓	✓	✓	1	1	✓
Next larger standard flange	P01	All	All	✓	✓	1	-	-	-	-	-	-	-
Screwed-on (inst. of cast) feet	H01	All	All	✓	✓	1	1	✓	✓	✓	1	1	✓
Drive-end seal for flange-	H23	All	All	✓	1	1	1	1	✓	1	✓	✓	✓
mounting motors, oil-tight to 0.1 bar 9)													
IP65 degree of protection ¹⁰⁾	H20	All	All	1	1	1	1	1	/	/	✓	1	1
IP56 degree of protection 11)	H22	All	All	1	✓ ✓	✓ ✓	✓ ✓	√ √	✓ ✓	1	<u>√</u>	<u> </u>	<u>✓</u>
Condensation drainage holes	H03	All	All	<i>-</i>	<u> </u>			<i>-</i>					
Rust-resistant screws	H03	All	All	□	<u> </u>	<u> </u>	<u> </u>	□	<u> </u>	✓	✓	✓	✓
(externally)	1107	All	All	•	•	•	•	•	•	•	•	•	•
Coolant temperature and site a	altitude												
Coolant temperature	D03	All	All	1	/	/	/	1	/	/	1	1	/
-40 to +40 °C ¹²⁾													

days

10

days

SIMOTICS SD 1LE1 Standard Motors

Supplements to order numbers and special versions 20 On working working

Options request Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line

Special versions	Additional	Motor category					e (colore	ed area)					
	identification code -Z with order code and	Motor version	Motor type (cast- iron)	Moto 100	r type - 112	- Frame 132	size 160	180	200	225	250	280	315
	plain text if required	IE2 High	1LE1501	1LE15	501 Bas	ic Line	1						
		Efficiency	1LE1601	1LE16	601 Per	formand	ce Line (~					
		IE3 Premium Efficiency	1LE1503 1LE1603							ic Line formanc	③ e Line(
		NEMA Energy Efficient	1LE1521 1LE1621				Basic (5)				
		NEMA Premium Efficient	1LE1523 1LE1623				Basic (7						
		Motor version	Motor	Frame									
1LE1Z			type	100	112	132	160	180	200	225	250	280	315
Designs in accordance with st											_		_
Electrical according to NEMA MG1-12 ¹³⁾	D30			-	-	-	-	1	√	/	✓	1	1
Design according to UL with "Recognition Mark" ¹³⁾	D31	All; for Eagle Lin (a), (7) and (a) st version		1	1	1	1	1	1	1	1	1	1
Canadian regulations (CSA) ¹⁴⁾	D40	All; for Eagle Lin (6), (7) and (8) st version		1	1	1	1	V	1	1	1	1	1
Bearings and lubrication													
Measuring nipple for SPM shock pulse measurement for bearing inspection ¹⁵⁾	Q01	All	All	✓	1	1	√	✓	1	✓	✓	1	1
Bearing design for increased cantilever forces	L22	All	All	√	1	1	1	1	1	1	1	1	1
Special bearing for DE and NDE, bearing size 63 ¹⁶⁾	L25	All; standard ver for Performance 4, 6 and 8		✓	1	1	1	/	1	1	√	-	0
Regreasing device ¹⁵⁾	L23	All; standard ver for Performance from FS 160 ②, and ⑧		✓	√	1	1	√	1	√	1	_	0
Located bearing DE	L20	All	All	✓	✓	✓	1	✓	✓	✓	1	1	✓
Bearing insulation DE	L50 New!	All	All	-	-	_	_	-	-	<u>/</u>	<u>/</u>	✓	<u>/</u>
Bearing insulation NDE Balance and vibration quantity	L51 New!	All	All	-	_	_	_	_	_	✓	✓	✓	1
Vibration quantity level A		All	All	0	_	_	_	0	_	_	_	_	
Vibration quantity level B	L00	All	All	<u>_</u>	<u> </u>	<u> </u>		_					
Half-key balancing (standard) Shaft and rotor		All	All	0	0			0	0	0	0	0	0
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors	L08	All	All	✓	√	√	√	1	√	✓	✓	√	/
Second standard shaft extension	L05	All	All	1	✓	✓	1	✓	1	✓	1	✓	✓
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	L07	All	All	√	✓	√	✓	1	✓	✓	✓	✓	1
Standard shaft made of stainless steel	L06	All	All	-	-	-	-	1	✓	✓	✓	1	✓
Non-standard cylindrical shaft extension ¹⁷)	Y55 • and identification code	All	All	V	✓	✓	✓	V	✓	7	✓	✓	√
Heating and ventilation													
Metal external fan ¹⁸⁾	F76	All	All	✓	√	1	√	✓	✓	✓	✓	√	√
Anti-conden. heating for 230 V	Q02	All	All	1	√	1	√	√	√	√	√	✓	√
Anti-condensation heating for 115 V	Q03 F74	All atondard vor	All	1	1	√ 	√ 	1	√ 	√ 	<i>\</i>	<i>'</i>	<i>'</i>
Sheet metal fan cover	r/4			1	1	√	√	1	/		1	1	√
Rating plate and extra rating p	lates												
Extra rating plate for	B07 New!			1	1	1	1	✓	1	✓	✓	✓	1
voltage tolerance ¹⁹⁾ Second rating plate, loose	M10	8-pole motors All	All	1	1	/	/	1	1	/	✓	√	✓
Rating plate, stainless steel	M11	All	All	√ √	✓ ✓	1	✓ ✓	√ √	✓ ✓	✓ ✓	✓ ✓	✓ ✓	1
Extra rating plate or rating plate	Y80 • and	All	All	√ ✓	<u> </u>	✓	✓	/	√	√	<u> </u>	<u> </u>	✓ ✓
with deviating rating plate data	identification code												

SIMOTICS SD 1LE1 Standard Motors

Supplements to order numbers and special versions

Options
Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line

Standard delivery times:

10 20 working work days day

20 working days On request

Special versions	1 1 CC C	Motor category		Standa	ard deli	very time	e (colore	d area)							
	identification code -Z	Motor version	Motor	Moto	r type -	Frame	size								
	with order code and plain text if		type (cast- iron)	100	112	132	160	180	200	225	250	280	315		
	required	IE2 High	1LE1501	1LE15	01 Bas	ic Line	1								
		Efficiency	1LE1601	1LE16	601 Peri	formanc	e Line (2)							
		IE3 Premium	1LE1503					1LE15	03 Basi	c Line	3				
		Efficiency	1LE1603					1LE16	03 Perf	ormanc	e Line 4				
		NEMA Energy	1LE1521	1LE15	521 Eag	le Line	Basic 5								
		Efficient	1LE1621	1LE16	21 Eag	le Line	Perform	ance 🜀)						
		NEMA Premium	1LE1523	1LE1523 Eagle Line Basic ①											
		Efficient	1LE1623	1LE1623 Eagle Line Performance ®											
1LE1Z		Motor version	Motor type	Frame	size 112	132	160	180	200	225	250	280	315		
Rating plate and extra rating p	latas (continuo	4)	71	100	112	132	100	160	200	223	230	200	313		
	Y82 •	All	All	,	,	,	1	1	1	ſ	1	1	1		
Extra rating plate with identification codes	and identification code	All	All	•	•	•	•			•	•	•	•		
Additional information on rating plate and on package label (max. 20 characters)	Y84 • and identification code	All	All	√	1	1	√	✓	√	✓	√	√	√		
Packaging, safety notes, docu	mentation and			_											
Acceptance test certificate 3.1 in accordance with EN 10204 20)	B02	All	All	√	1	1	√	1	✓	✓	1	1	✓		
Printed German/English Operating Instructions (Compact) enclosed ²¹⁾		All	All	0	0	0	0	0		0	-	0	0		

- 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
- Evaluation with appropriate tripping unit (see Catalog IC 10) is recommended.
- Cannot be used for motors in UL version (order code D31). 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.
- A second shaft extension is not possible. Please inquire for mounted brakes
- For order codes F10, F11 and F12, the brake supply voltage must be specified or ordered.
- 5) The 1XP8 rotary pulse encoders are fitted with a protective cover as standard. The protective cover is omitted at the factory 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.
- 6) In combination with a separately driven fan (order code F70) the 1XP8032-10 rotary pulse encoder is used instead of 1XP8012-10 or 1XP8032-20 is used instead of 1XP8012-20.
- 7) The LL and HOG rotary pulse encoders up to frame size 160 are fitted with a protective cover as standard. The protective cover is omitted at the factory 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.
- 8) Order code H00 provides mechanical protection for encoders.
- 9) Not possible for type of construction IM V3
- 10) Not possible in combination with rotary pulse encoder HOG 9 D 1024 I (order code G05) and/or brake 2LM8 (order code F01).
- 11) Not possible in combination with brake 2LM8 order code F01.
- 12) In connection with mountings, the respective technical data must be observed, please inquire before ordering.
- Possible up to 600 V max. The rated voltage is indicated on the rating plate without voltage range. Order codes D30 and D31 do not authorize importing into USA and Mexico. The North America export versions Eagle Line 1LE1521/1LE1621 NEMA Energy Efficient and 1LE1523/1LE1623 NEMA Premium Efficient are available for this purpose.

- 14) The rated voltage is indicated on the rating plate without voltage range. Order code D40 does not authorize importing into Canada. The North America export versions Eagle Line 1LE1521/1LE1621 NEMA Energy Efficient and 1LE1523/1LE1623 NEMA Premium Efficient are available for this purpose.
- $^{15)}$ Up to frame size 160 not possible when brake is mounted.
- 16) For Performance Line motors (all frame sizes) and Basic Line motors (from frame size 280) in the standard version.
- 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 and L05:
 - Dimensions D and DA ≤ inner 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 "Introduction".
- 18) Converter-fed operation is permitted for 1LE1 motors with metal external fans.
- 9) Can be ordered for 230VA/400VY or 400VA/690VY (voltage code "22" or "34"). Not possible for pole-changing motors, naturally cooled 1PC1 motors, 8-pole motors and in combination with order code D34.
- 20) The delivery time for the factory test certificate may differ from the delivery time for the motor.
- 21) 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.