Article No. supplements and special versions · Options

Aluminum series SIMOTICS GP 1LE10

Selection and ordering data														
Special versions	Additional identification code -Z											Motor ve	ersion	
	with order code and plain text if	63 7	1	80	90	100 1LE1		132	160	180	200	IEC	IE4	1
	required			1LE1	003							120	IE3	<u>2</u> 3
						1LE1	083							3
		1LE100 1LE100											IE2	(4) (5)
		122100		1LE1	1043							APAC	IE3	6
				1LE1								Line	IE2	1
				1LE1	1023	1021						Eagle Line	NPE (NEMA) NEE (NEMA)	8 9
						1LE1	011					Pole-cha		<u>(1)</u>
1LE10Z	Order code					1LE1	012							(11)
Motor protection											•			
1 or 3 PTC thermistors – for tripping (2 terminals)	Q11	/ /		/	/	/	/	/	/	/	/			
2 or 6 PTC thermistors – for alarm and tripping (4 terminals)	Q12	/ /		✓	/	/	/	/	/	1	/			
1 KTY84-130 temperature sensor (2 terminals)	Q23	/ /		/	/	/	/	/	/	/	/			
2 KTY84-130 temperature sensors (4 terminals)	Q25	/ /		1	/	/	/	/	/	1	/			
3 bimetal sensors (NC contacts) for tripping (2 terminals)	Q31			1	1	/	/	/	/	1	<i>'</i>			
6 bimetal sensors (NC contacts) for alarm and tripping (4 terminals)	Q32			✓	/	/	/	/	1	/	/			
3 bimetal sensors (NC contacts) for tripping (6 terminals)	Q33			_	_	-			_	/	/			
6 bimetal sensors (NC contacts) for alarm and tripping (12 terminals)	Q34			-	-	-	_	_	_	/	✓			
1 Pt1000 resistance thermometer (2 terminals)	Q35	/ /		✓	1	✓	/	✓	✓	/	✓			
2 Pt1000 resistance thermometers (4 terminals)	Q36	/ /	,	✓	/	✓	1	1	1	1	1			
3 Pt100 resistance thermometers – 2-wire input (6 terminals)	Q60			-	-	√	<i>'</i>	✓	✓	1	✓			
6 Pt100 resistance thermometers – 2-wire input (12 terminals)	Q61			-	-	1	✓	✓	✓	1	✓			
1 Pt100 resistance thermometer – 2-wire input (2 terminals)	Q62			-	-	/	/	✓	1	1	✓			
3 Pt100 resistance thermometers – 3-wire input (9 terminals)	Q63			-	-	√	/	✓	✓	/	✓			
6 Pt100 resistance thermometers – 3-wire input (18 terminals)	Q64			-	-	/	/	✓	✓	/	✓			
2 Pt100 resistance thermometers in basic configuration for bearings (2 terminals)				-	-			O.R.			✓			
2 Pt100 resistance thermometers in 3-wire input for bearing (6 terminals)	Q78			_	-			O.R.			✓			
2 Pt100 double resistance thermometers in 3-wire input for bearing (12 terminals)	Q79			-	_	O.R.	O.R.	O.R.	O.R.	/	✓			
Motor connection and terminal box External grounding	H04	/ /	,	1	1	1	/	/	/	1	/			
Terminal box on NDE 3)	H08	/ /		/	1	1	<u> </u>	1	1	1	1			
Rotation of the terminal box through 90°, entry from DE 1)	R10	0 0)	0	0	0	0	0	0	1	1			
Rotation of the terminal box through 90°, entry from NDE		0 0)	0	0	0	0	0	0	1	1			
Rotation of the terminal box through 180°	R12	0 0)	0	0	0	0	0	0	1	✓			
Terminal box in position 0°, connection from right ⁴⁰⁾	R13	0 0)	0	0	0	0	0	-	-	-			
One metal cable gland	R15	/ /	,	/	1	1	/	/	/	1	1			
Metal cable gland, maximum configuration	R18	1 1	,	1	1	1	1	1	1	1	1			
3 cables protruding, 0.5 m long ⁴⁾⁵⁾	R20	1 1	,	1	1	1	1	1	1	-	-	Not for:	(10), (11)	
3 cables protruding, 1.5 m long ⁴⁾⁵⁾	R21	/ /	•	1	1	1	✓	✓	✓	O. R.	O. R.	Not for:	10, 11)	
6 cables protruding, 0.5 m long ⁴⁾	R22	1 1	,	1	1	1	1	1	1	O. R.	O. R.			
6 cables protruding,	R23	/ /	,	1	1	1	√	1	/	O. R.	0. R.			
1.5 m long ⁴⁾														

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Special versions	Additional identification code -Z with order code		ne size 71	80	90	_		132	160	180	200	Motor ve	
	and plain text if required			1LE1	003	1LE1	004					IEC	IE4 ①
	.04404			ILE	003	1LE1	083						IE3 ② ③ IE2 ④
		1LE1	1001										IE2 (4)
		1LE1	1002										IE1
				1LE1	043							APAC	IE3 6
				1LE1								Line	IE2 ①
				1LE1		004						Eagle Line	NPE (NEMA) 8
					1LE1	1LE1	011					Pole-cha	NEE (NEMA) 9
1LE10Z	Order code					1LE1						l ole ena	NEE (NEMA) ③ nging ⑩ ① ① ① ① ① ① ② ② ② ② ② ② ③ ② ③ ③ ③ ③ ③ ③
Motor connection and terminal box (c	ontinued)												
6 cables protruding, 3 m long ⁴⁾	R24	✓	✓	1	✓	1	✓	✓	✓	O. R.	O.R.		
Reduction piece for M cable gland in accordance with British Standard, mounted on both cable entries ²⁾	R30	_	-	-	-	1	✓	✓	✓	-	-		
Larger terminal box	R50	1	✓	/	✓	✓ _	<u>/</u>	<u>/</u>	<u>/</u>	✓	<u>/</u>	Not for:	8, 9 < frame size 100
Auxiliary terminal box aluminum	- R60	_	_	_	_	_	_	_	_	<u></u>	<u>□</u> ✓	Only for:	8, 9 < frame size 100
Auxiliary terminal box, aluminum Motor connector Han-Drive 10e for	R70	_		- /	- /	- /			_	-	_		
Motor connector Han-Drive 10e for 230 V Δ /400 VY $^{30)}$ Motor connector Han-Drive 10e EMC for 230 V Δ /400 VY $^{30)}$		1	✓	1	1	1	1	1	_	_	_		
				,	,							Not for	
Small motor connector CQ12 with EMC Small motor connector CQ12 without EMC	R72	_	_	1	1	_			_	_		Not for:	3
Windings and insulation	1173			·	•							TVOL TOT.	
Temperature class 155 (F), utilized acc. to 155 (F), with service factor	N01	-	-	-	-	1	✓	✓	✓	✓	✓	Not for:	3
Temperature class 155 (F), utilized acc. to 155 (F), with increased power	N02	-	-	-	-	1	✓	✓	✓	1	✓	Not for:	3
Temperature class 155 (F), utilized acc. to 155 (F), with increased coolant temperature	N03	1	1	1	1	1	1	1	1	1	1	Not for:	3
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 %	N05	✓	1	✓	✓	✓	1	√	1	✓	✓		
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 %	N06	✓	1	1	✓	✓	1	✓	1	✓	✓		
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 %	N07	✓	1	1	1	1	1	1	1	1	✓		
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 %	N08	1	1	1	1	1	1	1	1	1	1		
Temperature class 180 (H) 31)	N10	✓	1	1	1	-	-	-	-	-	-	Not for:	1, 3, 6, 7, 9, 11
Temperature class 180 (H) at rated power and max. CT 60 °C ^{6) 31)}	N11	✓	✓	1	1	1	✓	✓	✓	1	✓	Not for:	①, ③
Increased air humidity/temperature with 30 to 60 g water per m ³ of air		1	✓	1	1	1	✓	✓	/	1	✓		
Increased air humidity/temperature with 60 to 100 g water per m ³ of air		✓	√	1	1	1	✓	✓	√	1	√		
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude	Y50 • CT°C or IA m above sea level	√	√	1	1	1	✓	√	√	✓	√		
Temperature class 155 (F), utilized acc. to 155 (F), other requirements	Y52 • CT °C or IA m above sea level	✓	✓	✓	√	✓	✓	✓	✓	√	✓	Not for:	
Temperature class 180 (H), utilized according to 155 (F)	Y75 • CT °C or IA m above sea level	_	-	_	_	O.R.	O.R.	O.R.	O.R.	_	-	Not for:	①, ③

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Aluminum series SIMOTICS GP 1LE10

Special versions	Additional ider tification code with order code	Z 63	me size	80	90	100	112	132	160	180	200	Motor ve	ersion	
	and plain text i					1LE1	004					IEC	IE4	1
	required			1LE1	1003	1LE1	IU83						IE3	② ③ ④
		1LE	1001				1000						IE2	4
		1LE	1002										IE1	(5)
				1LE1						1		APAC Line	IE3	6
				1LE									IE2 NPE (NEMA)	<u> </u>
				ILE	1LE	1021						Eagle Line	NEE (NEMA)	<u>8</u>
						1LE1	011					Pole-cha	, ,	10
1LE10 Z	Order code					1LE1	1012							11)
Colors and paint finish														
Standard paint finish C2 in RAL 7030 stone gray							_				_			
Unpainted (only cast-iron parts primed)		0	0	0	0	0	0	0	0	0	0			
Unpainted, only primed	S01 S02	√ ✓	1	√ √	√ √	√ √	√ ✓	✓ ✓	1	1	✓ ✓			
Special paint finish C3 Special paint finish sea air resistant C4	S02	1	<i>y</i>	1	1	1	1	1	1	1	✓ ✓			
Internal coating	S05	1	1	1	1	1	√	✓	1	1	✓			
Top coat polyurethane ³⁴⁾	S06	1	1	1	1	1	✓	/	/	1	✓			
Paint finish in other standard RAL colors: RAL 1015, 3000, 5002, 5009, 5010, 5012, 5015, 6011, 7001, 7011, 7016, 7031, 7032, 7035, 7037, 8012, 9005, 9010 (see Catalog Section 1 "Introduction")	Y53 • and paint finish RAL	✓	✓	1	1	✓	1	1	<i>y</i>	√	1			
Paint finish in special RAL colors: For RAL colors, see "Special paint finish in special RAL colors" (see Catalog Section 1 "Introduction")	Y56 • and paint finish RAL	1	1	1	1	1	1	1	√	1	1			
Non-standard colors Colors see "Paint finish in non-standard colors	Y66 • and paint finish	1	1	1	√	1	1	✓	√	J.	1			
(see Catalog Section 1 "Introduction") Modular technology – Basic versions	7)	-	-				-	-	-		-	_		
Mounting of holding brake (standard assignment) 8) 28)	F01	1	1	1	1	1	1	1	✓	1	1			
Mounting of brake for higher switching frequency (operating brake)	F02	O. F	R. O. R	. O. R	. O. R	. O. R.	O. R.	O. R.	O. R.	-	-			
Mounting of PRECIMA-brake	F04	-	-	-	-	1	1	✓	1	1	✓			
Mounting of separately driven fan ²⁹⁾ Mounting of Kübler Sendix 5020 HTL.	F70 G11	1	1	1	1	1	1	/	/	/	1			
1024 I rotary pulse encoder		•		V	V	'	•			•				
Mounting of Kübler Sendix 5020 TTL, 1024 I rotary pulse encoder	G12	/	<i>\</i>	1	/	1	1	<i>'</i>	<i>'</i>	1	√			
Modular technology – Additional vers Brake supply voltage 24 V DC	F10	1	/	1	1	1	/	/	/	/	/			
Brake supply voltage 230 V AC,	F11	1	1	1	✓	0	0	0	0	0	0			
50/60 Hz Brake supply voltage 400 V AC,	F12	1	1	1	1	1	√	/	✓	1	1			
50/60 Hz Brake supply voltage 180 V DC	F17	✓	/	1	1	1	1	/	/	1	/	Only for	: Motors in combination	on
Brake supply voltage 205 V DC	F18	1	1	1	✓	1	√	✓	✓	1	✓	Only for	with order code F01 : Motors in combination with order code F01	on
Mechanical manual brake release with lever (no locking)	F50	✓	√	1	1	1	✓	✓	1	1	✓		with order code i of	
Special technology ⁷⁾ Mounting of LL 861 900 220 rotary pulse encoder ⁹⁾	G04	-	-	-	-	1	√	✓	1	√	√			
Mounting of HOG 9 DN 1024 I rotary pulse encoder ⁹⁾	G05	-	-	-	-	✓	✓	1	✓	1	✓			
Mounting of HOG 10 D 1024 I rotary pulse encoder 9)	G06	-	-	-	-	/	1	1	✓	1	✓			
Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	G21	-	-	-	-	1	1	1	1	1	√			
Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	G22	-	-	-	-	1	1	1	1	1	✓			
Mounting of HOGS100S-B76.626.01024.1 rotary pulse encoder	G25	-	-	-	-		-	-	-	1	✓	Only for	: ③	
Mounting of LL FSI 862-184560-1024, SIL-2 rotary pulse encoder	G27	-	-	-	-	-	-	-	-	✓	✓	Only for	: 3	
, ,														

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Special versions	Additional iden	Err	omo cizo									Motor ve	reion
Special versions	tification code -	Z 63		80	90	100	112	132	160	180	200	IVIOLOI VE	31011
	and plain text is					1LE1	004					IEC	IE4 ①
	required			1LE	1003	41.54	000						IE3
		111	E1001			1LE1	083						IE2 (4)
			E1002										IE1 (5)
				1LE	1043							APAC	IE3 ⑥
				1LE								Line	IE2 ①
				1LE								Eagle Line	NPE (NEMA) 8
					1LE		011						NEE (NEMA) 9
1LE10Z	Order code					1LE1						Pole-cha	NEE (NEMA) nging m m m
Special technology (continued) 7)													
Mounting of rotary pulse encoder XSI 850 Overspeed	G93	-	-	-	-	-	-	-	-	✓	✓		
Mounting of rotary pulse encoder XHI 861 Overspeed	G94	-	-	-	-	-	-	-	-	1	✓		
Mechanical version and degrees of pr													
Low-noise version for 2-pole motors with clockwise direction of rotation	F77	-	-	-	-	-	-	✓	√	1	√		
Low-noise version for 2-pole motors with counterclockwise direction of rotation		-	-	-	-	-	-	✓	√	1	✓		
Prepared for mountings, centering hole only 10)		-	-	1	1	1	✓	✓	✓		_		
Prepared for mountings with shaft D12 15)		1	1	1	1	1	✓	✓	✓	1	✓		
Prepared for mountings with shaft D16 15)	G42	-	-		. O. R		√	✓	√	1	/		
Mechanical protection for encoder Protective cover ^{9) 11)}	G43		R. O. R.	_	1	1	√ ′	√ ′	√ ′	1	√ ′		
	H00 H01	✓	✓	√ ✓	1	1	√ ✓	✓ ✓	√ ✓	✓ □	<u>√</u>		
Screwed-on (instead of cast) feet Vibration-proof version; vibration	H02			1	1	1	1	1	1	/	<u> </u>		
resistance to Class 3M4 according to IEC 60721-3-3:1994 ³⁹⁾	1102	•	•	ľ	ľ		•	•	•	•	•		
Condensation drainage holes ¹⁴⁾	H03	1	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Rust-resistant screws (externally)	H07	1	1	1	1	1	/	✓	/	1	✓		
Housing with screw mounting ³²⁾	H10	_	-	1	1	-	-	-	-	1	✓	Only for:	②, ④, ⑥, ⑦ (frame sizes 80, 90), ⑧, ⑨
Degree of protection IP66	H19	1	1	1	✓	✓	✓	✓	✓	1	✓		
Degree of protection IP65 ¹³⁾	H20	1	✓	1	✓	✓	✓	✓	✓	1	✓		
Degree of protection IP56 ¹²⁾	H22	1	1	1	/	/	/	/	/	1	✓		
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar ¹⁶⁾	H23	√	1	1	1	√	✓	✓	√	1	/		
Coolant temperature and installation													
Coolant temperature –40 to +40 °C ¹⁶⁾ ²⁸⁾ Coolant temperature –30 to +40 °C ¹⁶⁾ ²⁸⁾		1	1	1	1	1	1	<u>/</u>	<i>\</i>	1	1		
Versions in accordance with standard			•	V	V	V	·	·	/	V	·		
VIK version	C02	_	-	/	1	1	/	/	/	_	_	Only for:	②
CCC China Compulsory Certification 17)		1	1	1	1	-	_	-	_	_	_		Voltage code
Motor without CE marking for export out-	D22	_	0	0	0	0	0	0	0	0	0	Only for:	21st or 22nd
side EEA (see EU Directive 640/2009)												ĺ	
Motor exclusively according to the Energy-related Products Law, Article 1dated 27.2.2008, motor to be used in means of transport for persons and goods	D23	_	0	0	0	0	0	0	0	0	0	Only for:	4, 5, 7, 9, 10, 11
Electrical according to NEMA MG1-12	D30	✓	✓	1	1	1	1	1	1	1	1	Not for:	8, 9
,	-	-	-									Only for:	8, 9
Design according to UL with "Recognition Mark" 19)	D31	✓	1	1	✓	✓	√	✓	✓	1	✓	Not for:	8, 9
	-	_					<u> </u>	<u> </u>	<u> </u>		<u> </u>	Only for:	
KEMCO Korea Energy Efficiency Label	D33	_	_	-	-	✓	✓	✓	✓	✓	✓	Only for:	
China Energy Efficiency Label ³⁸⁾	D34	_	_	0	0	O. R.	0. R.	O. R.	O. R.	O. R.	O. H.	Not for:	③ (2-pole to 6-pole) ④, ⑤, ⑦, ⑩, ⑪
Orima Energy Emoleticy Laber -/		_		-	_							Only for:	
Canadian regulations (CSA) 33) 37)	D40	/	<i>-</i>	1	/	√	√	√	√	√	√	Not for:	5, 8, 9, 10, 11
	_	-	-				`	·	<u> </u>		<u> </u>	Only for:	
NEMA Premium Efficient, North America version acc. to NEMA MG1, Table 12-11, incl. UL and CSA	D41	-	-	-	-		O. R.					Only for:	
TR CU product safety certificate EAC for Eurasian Customs Union 35)	D47	1	✓	1	1	1	/	√	1	1	√		
	D70					0.5	0.5	0.5	0.5	0.5	0.5	Only	0
MEPS Australia	D70	_	-	-	-	U. R.	U. R.	U. H.	O. R.	O. R.	U. H.	Only for:	3

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Aluminum series simorios e															
Special versions	Additional ide	e -Z	Frame siz		30	90	100	112	132	160	180	200	Motor ve	ersion	
	with order co and plain tex							1004					IEC	IE4	1
	required			1	LE1	003								IE3	2
							1LE	1083							(2) (3) (4) (5) (6)
			1LE1001											IE2	4
			1LE1002			0.40							ADAG	IE1	(5)
					ILE1								APAC Line	IE3 IE2	(6)
					ILE1								Eagle	NPE (NEMA)	⑦ ⑧
					1441		1021						Line	NEE (NEMA)	<u> </u>
							_	1011					Pole-cha	,	10
1LE10 Z	Order code							1012					. 0.0 0.10	99	9 10 11
Versions in accordance with standard	ls and specifi	catio	ons (contir	nue	d)										
Version suitable for railways IC411, EN IEC 60349, without EN 45545, with external fan and fan cover in plastic 41)	L90			٠	/	✓	✓	1	1	1	1	1	Not for:	①, ③	
Version suitable for railways IC411, EN IEC 60349, with EN 45545, with external fan and fan cover in meta I ⁴¹⁾	L91		/ /	•	/	✓	1	1	1	1	1	1	Not for:	①, ③	
Version suitable for railways IC418, EN IEC 60349, without EN 45545, with external fan and fan cover 41)	L92		/ /	·	/	1	1	1	1	1	1	1	Not for:	1), 3	
Bearings and lubrication	1 10										1	,			
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A ²⁰⁾					-	_						✓ 			
Located bearing DE	L20		/ /	٠		1	1	√	√	<u>/</u>	/				
Located bearing NDE	L21		/ /		/	1	1	✓ ✓	√ ✓			<u>□</u> ✓	Not for:	Motors of frame sizes	
Bearing design for increased cantilever forces ³⁶⁾				٠		•	•	<i>,</i>	,	,	•	<i>,</i>	NOUTOF:	80 and 90 in combination with order code F0	
Regreasing device ²⁰⁾	L23			-		-	/	/	/	/	/	/			
Bearings reinforced at both ends for DE and NDE, bearing size 63	L25			٠	/	✓	1	/	1	1	1	✓	Not for:	Motors of frame sizes 80 and 90 in combina- tion with order code F0	
Bearing insulation NDE	L51				-	-	1	✓	✓	✓	1	✓			
Measuring nipple for SPM shock pulse measurement for bearing inspection ²⁰⁾ Balance and vibration severity	Q01			-	-	-	1	✓	√	✓	/	✓			
Vibration severity grade A				Г	_		_	_	_	_	_	_			
Vibration severity grade B	L00		/ /	_	<u>-</u>	_			<u> </u>	<u> </u>	_	<u> </u>			
Half-key balancing (standard)				_	3	_	_	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>			
Balancing without feather key	L01		/ /		/	/	1	1	1	1	1	1			
Full-key balancing	L02			٠	/	✓	1	✓	/	/	1	/			
Shaft and rotor															
Shaft extension with standard dimensions, without feather keyway	L04		✓ ✓	٠	/	✓	1	√	√	/	1	√			
Standard, cylindrical shaft extension (second shaft extension) NDE acc. to EN 50347	L05		✓ ✓	٠	/	✓	1	1	1	1	1	✓			
Standard shaft made of stainless steel (e.g. 1.4021)	L06		/ /	٠	/	1	1	✓	✓	1	1	1			
Shaft extension run-out in accordance with IEC 60072-1 precision class	L07		/ /	٠	/	✓	1	1	1	1	1	✓			
Shaft extension run-out, concentricity and perpendicularity in accordance with IEC 60072-1 precision class for flange-mounted motors	L08		<i>J</i>	٠	/	1	J	1	1	1	1	1			
Non-standard cylindrical shaft extension, DE ²¹⁾	Y58 • and customer specifications		/ /	٠	/	1	1	1	1	1	1	1			
Non-standard cylindrical shaft extension, NDE ²¹⁾	Y59 • and customer specifications		<i>J</i>	٠	/	1	J	1	1	1	1	1			
Heating and ventilation															
Sheet metal fan cover	F74			_	/	/	1	/	/	/	/	/			
Fan cover for textile industry ²²⁾	F75		/ /		<i>'</i>	√	1	/	√	/	1	√			
Metal external fan ^{23) 29)} Without external fan and without fan	F76 F90		<i>J J</i>		/	√ √	√ ✓	√ ✓	1	1	1	√ ✓	Not for:	10, 11	
Anti-condensation heating for 230 V	Q02		/ /		/	1	1	√	✓	✓	1	√			
(2 terminals) Anti-condensation heating for 115 V (2 terminals)	Q03		/ /	·	/	1	1	1	1	1	1	√			
For legends and footnotes, see p	age 3/128.														

Article No. supplements and special versions · Options

Special versions	Additional ider tification code	Z 63		80	90	100	112	132	160	180	200	Motor ve	ersion	
	with order code and plain text i	9	•	00	50	1LE		102	100	100	200	IEC	IE4	1
	required			1LE1	1003	1LE	1083						IE3	② ③ ④
		1L	E1001										IE2	4
		1L	E1002										IE1	5
				1LE1	1043							APAC	IE3	6
				1LE1	1041							Line	IE2	7
				1LE1								Eagle	NPE (NEMA)	8
					1LE							Line	NEE (NEMA)	9
						1LE						Pole-cha	anging	10
1LE10Z	Order code					1LE	1012							(11)
Rating plate and additional rating plat														
Additional rating plate for voltage tolerance ²⁴⁾	B07	1	✓	1	1	1	√	1	1	1	√	Not for:	10, 10, 8-pole motors	
Second rating plate, loose ²⁵⁾	M10	1	✓	1	1	/	/	/	/	1	✓			
Rating plate, stainless steel	M11	1	✓	1	✓	1	✓	✓	✓	1	✓			
Additional rating plate with deviating rating plate data	Y80 • and customer specifications	1	1	√	1	1	✓	√	1	/	1			
Additional rating plate with customer specifications	Y82 • and customer specifications	1	1	1	1	1	✓	√	1	1	√			
Additional information on rating plate and on package label (max. 20 characters)	Y84 • and customer specifications	1	1	1	1	V	✓	1	1	1	1			
Adhesive label, supplied loose (printed with: Article No., Serial No.; 2 lines of text)	Y85 • and customer specifications	-	-	-	-	V	✓	1	1	1	1			
Packaging, safety notes, documentati	on and test cei	tifica	tes											
A printed version of the safety notes in German/English and safety notes in the language of the country of use is sup- plied in each wire-lattice pallet ²⁷)	B01	0	0	0	0	0	0	0	0	0	0			
Inspection certificate 3.1 according to EN 10204 ²⁶⁾	B02	✓	1	1	1	✓	✓	✓	✓	1	✓			
Document - Electrical datasheet	B60	1	1	1	1	1	/	1	1	1	1			
Document - Order dimensional drawing	B61	1	✓	1	✓	1	✓	✓	✓	✓	✓			
Type test with heat run for horizontal motors, with acceptance	B83	✓	✓	1	1	1	✓	1	1	1	1			
"Basic" documentation package	B90	1	✓	1	1	✓	✓	✓	✓	1	✓			
"Advanced" documentation package	B91	/	/	/	/	1	/	/	/	/	/			
"Projects" documentation package	B92	1	/	/	1	1	/	/	/	1	/			
Wire-lattice pallet packaging	B99	0	0	0	0	0	0	0	0	0	0			
Connected in star for dispatch	M01	1		/	1	√	/	/	/	1	/			
Connected in delta for dispatch	M02	✓	✓	1	1	1	/	✓	1	1	✓			

Article No. supplements and special versions · Options

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

- 1) With IM B5 flange, only possible in combination with H08.
- 2) Not possible in combination with order code R15 "One metal cable gland".
- With H08, feet dimensions C and CA differ from EN 50347! Further information is available in the DT Configurator (see Appendix, "Tools and engineering").
- 4) In conjunction with motor protection (15th position of the Article No.) or anti-condensation heating option, please inquire before ordering.
- 5) Not possible in combination with voltage code 22 or 34
- 6) Cannot be used for motors in UL version (order code **D31**). The grease lifetime specified in Catalog Section 1 "Introduction" refers to CT 40 °C. If the coolant temperature is increased by 10 K, the grease lifetime and regreasing interval are halved.
- 7) A second shaft extension is not possible. Please inquire for mounted brakes.
- 8) For order codes F10, F11, F12, F17, and F18, the brake supply voltage must be specified or ordered.
- All encoders are supplied 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. 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.
- 10) As standard, motors that are prepared for additional mountings (order codes G40, G41, G42) are shipped without protective cover. If a protective cover is requested as a cover or mechanical protection for mountings provided by the customer, this can be ordered with order code G43. Not possible in combination with order code L00 vibration severity grade B. In combination with a separately driven fan (order code F70) the 1XP8032-10 rotary pulse encoder is used instead of 1XP8012-20.
- 11) Order code **H00** provides mechanical protection for encoders.
- 12) Not possible in combination with brake BFK458 order code F01
- 13) Not possible in combination with HOG 9 DN 1024 I rotary pulse encoder (order code G05) and/or brake BFK458 (order code F01).
- 14) Supplied with the condensation drainage holes sealed at the drive end DE and non-drive end NDE (IP55, IP56, IP65). If the condensation drainage holes are required for motors of the IM B6, IM B7 or IM B8 type of construction (feet on side or top), the motors must be ordered in the respective type of construction and with order code H03, so that the condensation drainage holes will be placed in the correct position.
- 15) As standard, motors that are prepared for additional mountings (order codes G40, G41, G42) are shipped without protective cover. If a protective cover is requested as a cover or mechanical protection for mountings provided by the customer, this can be ordered with order code G43. Not possible in combination with order code L00 vibration severity grade B.
- 16) In connection with mountings, the respective technical specifications must be observed, please inquire before ordering.
- ¹⁷⁾ CCC mandatory certification, see Chapter 1 Page 1/19
- 18) 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 1LE1021 NEMA Energy Efficient and 1LE1023 NEMA Premium Efficient are available for this purpose.
- 19) In connection with mountings, the respective technical specifications must be observed, please inquire before ordering.
- ²⁰⁾ Not possible when brake is mounted.

- 21) 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 EN 50347, Form A are used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer in accordance with the appropriate standard. 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 Y58, Y59 and L05 the following applies:
 - Dimensions D and DA ≤ ball bearing inner diameter (see dimension tables for "Dimensions")
 - (see dimension tables for "Dimensions") Dimensions E and EA \leq 2 \times length E (standard) of the shaft extension.
- 22) 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 housing. The customer must implement appropriate measures to ensure that the installed system is "finger-safe".
- 23) Converter operation is permitted for 1LE1 motors with metal external fans. The metal external fan is not possible in combination with the low-noise version – order code F77 or F78.
- ²⁴⁾ Can be ordered for 230 VΔ/400 VY or 400 VΔ/690 VY (voltage code "22" or "34"). Not possible in combination with order code D34.
- ²⁵⁾ As adhesive label for frame sizes 80 and 90.
- 26) The delivery time for the manufacturer's test certificate may differ from the delivery time for the motor and will be dispatched by e-mail.
- 27) The manual "Low-Voltage motors SIMOTICS GP, SD, DP Safety instructions SH 63 ... 355" is available in the Internet as PDF in all official languages of the EU: https://support.industry.siemens.com/cs/ww/en/view/109756537
- Not possible in combination with order codes N05, N06, N07, N08, and N11.
- ²⁹⁾ Order codes **F70** and **F76** cannot be combined.
- When ordering with order code **R70** and **R71**, order code **R50** is included.
- 31) Not possible for 2-pole and 4-pole motors with increased power (11th position of the Article No.: 6) in frame sizes 80 and 90.
- ³²⁾ Possible with frame sizes 180 and 200 with screw-mounted fan cover.
- ³³⁾ For frame sizes 180 and 200, constructed with metric entry thread.
- 34) Order code S06 cannot be combined with order code S00 and S01. It can be combined with Y53 and Y56 on request.
- 35) Please note the additional use of order code D22 "Motor without CE marking for export outside EEA (see EU Directive 640/2009)".
- $^{36)}$ A minimum cantilever force $F_{\rm min}$ of 0.5 \cdot $F_{\rm max}$ is required for NU bearings (cylindrical roller bearings) in contrast to ball bearings. Cylindrical roller bearings are not suitable for coupling output or for brief periods of no-load operation without cantilever force.
- 37) 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 1LE1021 NEMA Energy Efficient and 1LE1023 NEMA Premium Efficient are available for this purpose.
- Not possible in combination with voltage code (12th or 13th position of the Article No.) 17, 18, 30, 31, 60, 61, 62, 63 and 90 with the additional order codes M1A; M2A; M2B; M1B; M1C; M2C; M1D; M2D; M1E; M2E; M1F; M2F; M1G; M2G; M1H; M2H; 1K; M2K; M1J; M2J; M1L; M2L; M1M; M2M and M3A.
- ³⁹⁾ Not possible in combination with order code **R50**.
- ⁴⁰⁾ Only possible in combination with order codes **R70**, **R71**, **R72**, and **R73**.
- 41) When ordering with order code L90, L91 and L92, order code B02 is included

Article No. supplements and special versions · Options

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

Selection and ordering data																	
Special versions	Additional	Fran	ne s	size											Motor	version	
	identification code -Z with	71	80	90						200	225	250	280	315		154	
	order code and plain text					E150 ₋ E160-				l in ع	Δ				IEC	IE4	① ② ③ ③ ④ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥
	if required	1LE	150	3 Bas					. a.i.o.							IE3	3
						E160		form	ance	e Lin	е						4
		ETH-	SIEO	1 Bas		E158:	3									IE2	5
		1100	130	I Da	_	E160	1 Per	form	ance	e Lin	e					IE2	7
					1LI	E150	2 Ba	sic L	ine							IE1	8
			1LI	E154											APAC Line	IE3	9
					11.1	E164	3 Per	form			e 1 Ba:	sic I	ine		Line	IE2	(10)
		1LE	152	3 Bas	sic L	ine				_157	ı Du.	310 L			Eagle	NPE (NEMA)	(D)
					1LI	E162	3 Per	form	ance	Lin	е				Line		
1LE1 Z	Order code				1LI	E152	1 Bas	sic L	ine							NEE (NEMA)	(4)
Motor protection	011				,			,	,	,	,	,		,			
1 or 3 PTC thermistors – for tripping (2 terminals) 2 or 6 PTC thermistors – for alarm and	Q11 Q12	_	_	_	1			1	1	1	1	1		· ·			
tripping (4 terminals) 1 KTY84-130 temperature sensor	Q23	_	_	_	/				/								
(2 terminals)		_															
2 KTY84-130 temperature sensors (4 terminals)	Q25	-	_	-	/	/	/	/	/	/	/	/	/	/			
3 bimetal sensors (NC contacts) for tripping (2 terminals)	Q31	_	-	_	√		√	✓	√	✓	/	✓	/	1			
6 bimetal sensors (NC contacts) for alarm and tripping (4 terminals)	Q32	-	-	-	1	✓	✓	✓	1	✓	✓	✓	✓	✓			
3 bimetal sensors (NC contacts) for tripping (6 terminals)	Q33	-	-	-	1	1	1	✓	1	✓	✓	1	1	✓			
6 bimetal sensors (NC contacts) for alarm and tripping (12 terminals)	Q34	-	-	-	1	√	√	✓	1	✓	✓	✓	√	✓			
1 Pt1000 resistance thermometer (2 terminals)	Q35	-	-	-	1	✓	✓	✓	1	✓	✓	✓	✓	✓			
2 Pt1000 resistance thermometers (4 terminals)	Q36	-	-	-	1	√	√	✓	1	✓	✓	✓	√	✓			
3 Pt100 resistance thermometers – 2-wire input (6 terminals)	Q60	-	-	-	1	√	√	✓	1	✓	✓	✓	√	✓			
6 Pt100 resistance thermometers – 2-wire input (12 terminals) ²⁷⁾	Q61	-	-	-	1	√	√	✓	1	✓	1	✓	√	✓			
1 Pt100 resistance thermometer – 2-wire input (2 terminals)	Q62	-	-	-	1	√	√	✓	1	✓	1	✓	√	✓			
3 Pt100 resistance thermometers – 3-wire input (9 terminals) 30)	Q63	-	_	_	/	<i>\</i>	<i>'</i>	✓	/	√	√	✓	<i>'</i>	√			
6 Pt100 resistance thermometers – 3-wire input (18 terminals) 30)	Q64	-	_	_	/				/			✓		√			
2 Pt100 resistance thermometers in basic configuration for bearing (2 terminals) 2)		-	_	_	_	_	_	_	/	√	1	✓					
2 Pt100 resistance thermometers in 3-wire input for bearing (6 terminals)	Q78	_	_	_	_	_	_	_	/	/	/	/	/				
2 Pt100 double resistance thermometers in 3-wire input for bearing (12 terminals)	Q79	_	_	_	_	_	_	_		_	_	/		✓			
Motor connection and terminal box External grounding	H04	ſ	1		1										_		
Terminal box on NDE ²⁷⁾	H08	1	1	√	1	1	1	1	/	7	7	7	7	7			
Second external grounding	H70	_	-	-	1	✓	✓	/	1	1	1	1	✓	1			
Rotation of the terminal box through 90°, entry from DE $^{40)}$	R10	0	0	0	0	0	0	0	✓	✓	✓	✓	✓	✓			
Rotation of the terminal box through 90°, entry from NDE		0	0	0	0	0	0	0	1	1	1	✓	✓	✓			
Rotation of the terminal box through 180°		0	0	0	0	0	0	0	1	1	1	1	1	1			
One EMC cable gland One metal cable gland	R14	1	1	✓ ✓	1	1	1	✓ ✓	1	1	1	√	1	/			
EMC cable gland, maximum configuration	R16	√	1	✓ ✓	1	√	√	✓	1	1	1	1	✓	✓ ✓			
Stud terminal for cable connection,	R17	_	-	-	-	_	-	-	-	-	-	1	/	1			
accessories pack (3 items) Metal cable gland,	R18	✓	1	√	1	1	1	√	1	1	✓	✓	1	✓			
maximum configuration																	

Article No. supplements and special versions · Options

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

Special versions	Additional identification code -Z with		me s 80					2 160 sic Li		200	0 225	5 250	280	315	Motor ve		
	order code and plain text							form		e Lin	е				IEC	I⊑4	2
	if required	1LE	150	3 Bas	sic L	ine	3 Per	form								IE3	
		1LE	E150	1 Bas	_		1 Do	form		- 1 i						IE2	6
								iorm		e Lin	е					IE1	(1)
			11.	E1543				310 E							APAC	IE3	9
					_			form	anc	e Lin	е				Line		(10)
											1 Ba	sic L	ine			IE2	11)
		1LE	152	3 Bas	sic L	ine									Eagle	NPE (NEMA)	(12)
								form		e Lin	е				Line		
1LE1 Z	Order code				1LI	E152	1 Bas	sic Li	ine							NEE (NEMA)	14)
Motor connection and terminal box (c	ontinued)																
Saddle terminal for connection without cable lug, accessories pack	R19	-	-	-	-	-	-	-	-	-	-	✓	✓	✓			
3 cables protruding, 0.5 m long	R20	✓	1	✓	1	✓	1	1	1	-	-	-	-	-			
3 cables protruding, 1.5 m long	R21	✓	1	✓	1	✓	✓	✓	O. F	R. O. F	R. O. F	R. O. F	R. O. F	R. O. R.			
6 cables protruding, 0.5 m long	R22	✓	1	1	1	1	✓	1	1	-	-	-	-	-			
6 cables protruding, 1.5 m long	R23	✓	1	✓	1	1	1	✓						R. O. R.			
6 cables protruding, 3 m long	R24	1	1	/	1	✓	✓	✓	O. F	R. O. F	R. O. F	R. O. F	R. O. F	R. O. R.			
Reduction piece for M cable gland in accordance with British Standard, mounted on both cable entries	R30	-	-	-	1	✓	/	/	-	-	_	-	-	-			
Larger terminal box	R50	1	1	1	1	✓	1	✓	1	/	1	✓	✓	1			
Terminal box without cable entry opening	R51	-	-	-	0	0	0	0	0	0	0	0	0	0			
Drilled removable entry plate	R52	-	-	-	-	-	-	-	✓	1	1	✓	✓	1			
Undrilled removable entry plate	R53	-	-	_	-	-	-	-	1	/	1	✓	✓	✓			
Cast-iron auxiliary terminal box (small) 30)	R62	-	-	-	_	<u>-</u> ✓	<u>-</u> ✓	-	-	-	-	-	-	-	Only for:	Motors with order code RS	50
Non-standard threaded through hole (NPT or G thread)	Y61 • and customer specifications	-	-	-	1	1	1	1	1	1	1	√	1	1		possible	
Windings and insulation																	
Temperature class 155 (F), utilized according to 155 (F), with service factor	N01	1	1	✓	1	1	1	1	1	1	1	1	1	1	Not for:	5	
Temperature class 155 (F), utilized acc. to 155 (F), with increased power	N02	✓	1	✓	1	1	1	✓	1	1	1	✓	1	1	Not for:	5	
Temperature class 155 (F), utilized acc. to 155 (F), with increased coolant temperature	N03	✓	1	✓	1	✓	✓	1	1	1	1	✓	✓	1	Not for:	(5)	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 %	N05	✓	1	✓	1	1	1	1	1	✓	✓	✓	1	1			
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 %	N06	✓	1	✓	1	1	1	1	1	✓	✓	✓	1	1			
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 %	N07	1	1	1	1	1	1	1	1	1	1	1	1	1			
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 %	N08	1	1	✓	1	✓	✓	1	1	1	1	✓	1	✓			
Temperature class 180 (H)	N10	1	1	1	1	1	1	1	1	1	1	1	1	1	Not for:	(1), (2), (5), (9), (10), (11), (12), (14)	13),
Temperature class 180 (H) at rated power and max. CT 60 °C ^{4) 5)}	N11	✓	1	1	1	1	1	1	1	1	1	1	1	✓	Not for:	1, 2, 5	
Increased air humidity/temperature with 30 to 60 g water per m ³ of air	N30	✓	1	✓	1	1	1	1	1	1	1	1	1	✓			
Increased air humidity/temperature with 60 to 100 g water per m ³ of air	N31	✓	1	1	1	1	1	1	1	1	1	1	✓	1			

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

		U c	เอเ-	ПОП	561	162	SIIV		US.	SU	115	-13	Das	SIC L	ille, ILI	E 16 Performand	C LIIIC
Special versions	Additional identification		me s		100) 112	2 132	2 160	180	200	225	5 250	280	315	Motor ve	rsion	
	code -Z with order code				1L1	E1504	4 Bas	sic Li	ne						IEC	IE4	1
	and plain text				1LI	E160	4 Per	form	ance	e Lin	е						
	if required	1LE	150	3 Bas	sic L	ine										IE3	3
					1LI	E160:	3 Per	form	ance	e Lin	е						4
					1LI	E158:	3										(5)
		1LE	150	1 Bas	sic L	ine										IE2	6
					1LI	E160	1 Per	form	ance	e Lin	е						7
								sic Li	ine							IE1	8
			1LI	E154											APAC Line	IE3	9
					1LI	E164:	3 Per	form	_						Lille		10
									111	E154	1 Ba	sic L	ine			IE2	(1)
		1LE	152	3 Bas											Eagle Line	NPE (NEMA)	(12)
41 54	0							form		e Lin	е				Lino	NIEE (NIEMA)	
1LE1 Z	Order code				ILL	=152	I Bas	sic Li	ne							NEE (NEMA)	(4)
Windings and insulation (continued)																	
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude	Y50 • CT °C or	✓	1	1	1	1	1	1	1	1	1	1	1	1			
temperature anajor installation altitude	IA m above																
Tomporature along 155 (E) willing 1	sea level	1	,	,	,	,	,	,	,	,	,	,	,	/	Not for:	0	
Temperature class 155 (F), utilized acc. to 155 (F), other requirements ⁵⁾	CT °C or IA m above	•		•	•	•	•	•	•	•	•	•	•	•	NOUTOT:	6	
	sea level																
Temperature class 180 (H), utilized according to 155 (F)	Y75 • CT °C	-	-	-	1	1	1	1	1	/	/	1	1	1	Not for:	1, 2, 5	
	or IA m above sea level																
Colors and paint finish															_		
Standard paint finish C2 in RAL 7030 stone gray		_		_	_	_	_	_		_	_	_	_	_	Only for:	1, 3, 5, 6, 8, 9 4), 11), 12),
Unpainted (only cast-iron parts primed)	S00	0	0	0	0	0	0	0	0	0	0	0	0	0			
Unpainted, only primed	S01	✓	✓	✓	1	✓	1	1	1	1	1	1	✓	✓			
Special paint finish C3	S02	✓	1	✓	1	✓	✓	1	1	1	✓	✓	✓	✓	Not for:	2, 4, 7, 10, 13	
	-														Only for:	2, 4, 7, 10, 13	
Special paint finish sea air resistant C4	S03	1	1	√	1	√	1	√	1	√	√	1	√	√			
Special paint finish for use offshore C5	S04	<i>\</i>	1	✓	1	1	1	1	1	1	1	1	1	1			
Internal coating Top coat polyurethane ³³⁾	S05 S06	-	-		/	1	1	1	1	1	/	1	1	1			
C5mid Special paint system with dura-	S08	•	<i>\</i>	·	1	1	1	/	/	·	·	/	/	1			
bility "medium"	306				•	•	•	•	•	•	•	•	•	•			
CX Special paint system for offshore with durability "high"	S09				1	1	1	1	1	1	1	1	1	1			
Paint finish in other standard RAL colors: RAL 1015, 3000, 5002, 5009, 5010, 5012, 5015, 6011, 7001, 7011, 7016, 7031, 7032, 7035, 7037, 8012, 9005, 9010 (see Catalog Section 1 "Introduction")	y53 • and paint finish RAL	✓	1	/	/	/	/	√	/	/	/	✓	/	/	Only for:	①, ③, ⑤, ⑥, ⑧, ④ ⑭), 11), 12),
Paint finish in special RAL colors:	Y56 •	1	1	1	1		1		1	1	1	1		/			
For RAL colors, see "Special paint finish in special RAL colors" (see Catalog Section 1 "Introduction")		·		Ť	ľ	•	·	•		Ť	Ť	·	·	Ť			
Non-standard colors Colors see "Paint finish in non-standard colors (see Catalog Section 1 "Introduction")	Y66• and paint finish	1	1	1	1	1	1	1	1	1	1	1	1	1			
Modular technology – Basic versions	6)																
Mounting of holding brake (standard assignment) 7) 31) 32)	F01	-	-	-	1	/	/	1	1	/	/	1	1	/			
Mounting of PRECIMA brake	F04	-	-	_	/	✓	✓	1	/	✓	✓	✓	✓	/			
Mounting of separately driven fan ^{28) 34}		/	1	/	/	√	/	/	/	/	/	/	✓	/			
Mounting of Kübler Sendix 5020 HTL, 1024 I rotary pulse encoder	G11	/	/	/	/	/	/	/	/	/	/	/	/	/			
Mounting of Kübler Sendix 5020 TTL, 1024 I rotary pulse encoder	G12	/	/	/	/	/	/	/	/	/	/	/	/	1			

Article No. supplements and special versions · Options

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

Special versions	Additional identification		me s		100	111	120	160	100	200	225	. 250	. 200	315	Motor ve	rsion	
	code -Z with order code	′'	00	90	1LI	E150	4 Ba	sic L	ine			230	200	313	IEC	IE4	1
	and plain text if required	PIE		0 D-			4 Per	form	ance	e Lin	е					IEO	
		115	=150	3 Ba	_		3 Per	form	ance	e Lin	e					IE3	(3) (A)
						E158:		101111	lano	J EIII							<u>•</u>
		1LI	=150	1 Ba												IE2	6
								form		e Lin	е					154	<u> </u>
			311	E154				sic L	ine						APAC	IE1 IE3	(8)
				L 104				form	ance	e Lin	е				Line	iLo	(10)
											1 Ba	sic L	ine			IE2	11)
		1LI	152	3 Ba	_										Eagle Line	NPE (NEMA)	12
1LE1	Order ande				_			form		e Lin	е				Line	NIEE (NIEMA)	(3) (4)
					ILL	152	Граз	sic L	ine							NEE (NEMA)	(4)
Modular technology – Additional vers					,	,	,	,	,	,	,	,	,	,	_		
Brake supply voltage 24 V DC Brake supply voltage 230 V AC,	F10	_	_		0	0	0	0	0	0	0	0	0	0			
50/60 Hz																	
Brake supply voltage 400 V AC, 50/60 Hz 32)	F12	_	_	_	/	/	/		/			✓		✓			
Brake supply voltage 180 V DC	F17	-	-	-	1	✓	1	1	1	1	1	-	-	-	Only for:	Motors in combination order code F01	on with
Brake supply voltage 205 V DC	F18	-	-	-	1	✓	/	✓	1	1	/	-	-	-	Only for:	Motors in combination order code F01	on with
Backstop, counterclockwise motion blocked, clockwise direction of rotation	F40	-	-	-	-	-	/	✓	1	1	/	✓	✓	1	Not for:	Motors in combination order code Q79	on with
Backstop, clockwise motion blocked, counterclockwise direction of rotation	F41	-	-	-	-	-	1	✓	1	1	1	✓	1	✓	Not for:	Motors in combination order code Q79	on with
Mechanical manual brake release with lever (no locking)	F50	-	-	-	1	1	1	1	1	1	1	1	1	✓			
Special technology ⁶⁾	004						,		,				,				
Mounting of LL 861 900 220 rotary pulse encoder 10)	G04	_	_	_	/	/	/	/	/	/	/	/	/	/			
Mounting of HOG 9 DN 1024 I rotary pulse encoder ¹⁰⁾	G05	-	-	-	1	1	1	1	1	1	✓	✓	✓	✓			
Mounting of HOG 10 D 1024 I rotary pulse encoder 10)	G06	-	-	-	1	✓	1	✓	1	1	✓	✓	1	✓			
Mounting of POG 10 DN rotary pulse encoder (only in combination with separately driven fan or brake) 11)	G07	-	-	_	-	-	-	-	/	1	/	/	/	1			
Mounting of POG 9 rotary pulse encoder (only in combination with separately driven fan or brake) 11)	G08	_	-	-	-	-	-	-	1	1	✓	✓	✓	✓			
Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal box moisture protection	G15	_	-	-	1	✓	1	✓	1	1	1	✓	✓	1			
Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal box dust protection	G16	-	-	-	1	✓	1	1	1	1	1	✓	1	1			
Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	G21	-	-	-	1	✓	1	✓	1	1	1	1	/	1	Only for:	5	
Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	G22	-	-	-	1	✓	✓	✓	1	✓	✓	✓	✓	✓	Only for:	5	
Mounting of HOGS100S- B76.626.01024.1 rotary pulse encoder	G25	-	-	-	-	-	-	-	1	✓	✓	✓	✓	✓	Only for:	(5)	
Mounting of LL FSI 862-184560-1024, SIL-2 rotary pulse encoder	G27	-	-	-	-	-	-	-	1	1	1	1	✓	✓	Only for:	5	
Mounting of rotary pulse encoder XSI 850 Overspeed	G93	-	-	-	-	-	-	-	1	/	1	✓	1	✓			
Mounting of rotary pulse encoder XHI 861 Overspeed	G94	-	-	-	-	-	-	-	1	1	✓	✓	✓	✓			
Mounting of a special type of rotary pulse encoder	Y70 • and customer specifications	_	-	-	O. F	l. O. R	ł. O.F	R. O.R	l. O.F	R. O.F	R. O. R	. O. F	ł. O.F	l. O.R.			
Mounting of rotary pulse encoder HOG 10 DN 1024 I + FSL, (integrated centrifugal switch, speed rpm), terminal box moisture protection	Y74 • and spec. speed rpm	-	-	-	-	-	-	-	1	1	1	✓	1	1			
Mounting of rotary pulse encoder HOG 10 DN 1024 I + FSL, (integrated centrifugal switch, speed rpm), terminal box dust protection	Y76 • and spec. speed rpm	_	-	_	-	-	-	-	1	1	1	1	1	1			

Article No. supplements and special versions · Options

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

		Uč	15t-	Iron	Ser	ies	SIIV	UII	1 65	סט	115.	=15	Das	SIC L	ine, ili	E 16 Performance Lir	ie
Special versions	Additional identification		me s	ize 90	100	111	122	160	1 10/	200	1 221	5 25(. 200	1 215	Motor ve	rsion	
	code -Z with order code and plain text	/1	80	90	1LE	E150	4 Bas	sic Li	ine			5 250) 20U) 315	IEC	IE4	1 2 3 4 5 6 7 8 9
	if required	PTT.	21-0	0 D			4 Per	torm	ance	e LIN	е					IEO	(2)
	·	1LE	=150	3 Bas												IE3	(3)
							3 Per	torm	ance	e Lin	е					-	(4)
		ETH:	-150	1 Bas		E158:	3									IE2	(5)
		IL.	- 150	I Bas			1 Dou	-f		n I im						IEZ -	(<u>6</u>)
							1 Per 2 Bas			e Lin	е					IE1	<u>()</u>
			1111	E1543				SIC LI	ille						APAC	IE3	<u>@</u>
			-	_154.			3 Per	form	ance	a I in	Δ.				Line	-	(a)
					-	_ 10 1	0 1 01			E154		sic L	ine			IE2	(II)
		114	152	3 Bas	sic L	ine									Eagle	NPE (NEMA)	(12)
					1LE	E162	3 Per	form	ance	e Lin	е				Line	•	11)
1LE1 Z	Order code				1LE	E152	1 Bas	sic Li	ine						_	NEE (NEMA)	(14)
Special technology (continued) ⁶⁾																	
Mounting of rotary pulse encoder	Y79 • and	_	_	_	_	_	_	_	/	/	/	/	/	/			
HOG 10 DN 1024 I + ESL 93, (integrated electronic speed switch, speed rpm), terminal box dust protection	spec. speed (max 3) rpm									•	•	•		·			
Mechanical version and degrees of p	rotection																
Low-noise version for 2-pole motors with clockwise direction of rotation	F77	-	-	-	-	_	1	1	1	1	1	1	1	1	Not for:	Motors in combination with order code F90	
Low-noise version for 2-pole motors with counterclockwise direction of rotation	F78	_	_	-	-	-	/	/	/	/	/	/	/	/	Not for:	Motors in combination with order code F90	h
Prepared for mounted components, centering hole only	G40	-	1	✓	1	1	1	1	_	_	_	_	_	_	Not for:	Motors in combination with order code F90	h
Prepared for mountings with D12 shaft	G41	✓	/	/	1	✓	✓	/	/	/	/	/	✓	✓	Not for:	Motors in combination with order code F90	
Prepared for mountings with D16 shaft	G42	-	1	<i>\</i>	/	1	√	<i>\</i>	1	/	/	<i>\</i>	1	1	Not for:	Motors in combination with order code F90	
Mechanical protection for encoder	G43	✓	/	/	/	/	/	/	/	/	/	/	/	1	Not for:	Motors in combination with order code F90	n
Protective cover ⁸⁾ 10) 12)	H00	1	1	1	1	1	✓	1	1	1	1	1	1	✓	Not for:	Motors in combination with order code F90	h
Screwed-on (instead of cast) feet	H01	-	-	-	✓	✓	1	1	✓	/	/	✓	✓	1			
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994 39)	H02	1	1	1	1	1	1	1	✓	1	1	✓	1	1			
Condensation drainage holes ³⁸⁾	H03	1	1	1													
Rust-resistant screws (externally)	H07	1	1	1	✓	1	1	1	1	1	1	1	1	1			
Degree of protection IP66	H19	✓	1	1	✓	✓	1	1	1	1	1	1	1	1			
Degree of protection IP65 ¹⁴⁾	H20	1	1	1	1	✓	1	1	1	1	1	1	1	1			
Degree of protection IP54	H21	-	-	_	-	-	_	_	/	/	/	✓	✓	1			
Degree of protection IP56 ¹⁵⁾	H22	1	1	/	✓	✓	/	/	✓	/	/	/	✓	/			
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar ^{13) 29)}	H23	/	/	/	/	/	/	/	/	/	/	/	/	/			
Grounding brush for converter operation	L52	-	-	-	-	-	-	-	-	-	-	-	1	1			
Coolant temperature and installation	altitude																
Coolant temperature -50 to +40 °C	D02	-	-	-	1	1	1	1	1	1	1	1	1	✓			
Coolant temperature –40 to +40 °C ¹⁶⁾	D03	✓	/	✓	1	✓	1	✓	1	1	1	1	✓	1			
Coolant temperature –30 to +40 °C ¹⁶⁾	D04	/	/	/	/	/	/	/	/	/	/	/	/	✓			
Versions in accordance with standard VIK version	C02	ation:	s -	-	1	1	1	1	1	1	1	1	✓	1	Only for: Not for:	③, ④ ⑤	
Version Chemstar chemical industry	C03	1	1	/													
Version Chemstar oil & gas industry	C04	1	1	1													
CCC China Compulsory Certification	D01	1	1	1	-	-	_	-	-	-	-	-	-	_		Voltage code 21 or 22	
Motor without CE marking for export outside EEA (see EU Directive 640/2009)	D22	0	0	0	0	0	0	0	0	0	0	0	0	0	Not for:	(5) (1), (2)	
Motor exclusively according to the	D23	0	0	0	0	0	0	0	0	0	0	0	0	0	Only for	6, 7, 8, 11	
Energy-related Products Law, Article 1dated 27.2.2008, motor to be used in means of transport for persons and goods		J		J		J	J	J		J	J	J	J	J	J. 11, 101.	S, S, S, S	
Electrical according to NEMA MG1-12	D30	_	-	-	1	✓	✓	1	1	1	1	✓	✓	✓	Not for:	12, 13, 14	
,	-															12, 13, 14	
Design according to UL with "Recognition Mark" 18)	D31	_	✓	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	Not for:	12, 13, 14	
	=														Only for:	12, 13, 14	

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

Special versions	Additional identification		me s												Motor ve	rsion	
	code -Z with	71	80	90	_					200	225	250	280	315	150	154	
	order code and plain text						4 Bas			. 1 :					IEC	IE4	
	if required	ETH	-150	3 Bas			4 Per	TOrm	ance	e Lin	е					IE3	(2)
		112.0	- 150	o Da			3 Per	form	anor	a Lina	_					IES	<u>3</u>
						E158		IOIIII	ance	5 LIII	-						(4)
		SILE	150	1 Bas												IE2	<u> </u>
		1.00	_150	т Ба			1 Per	form	ance	a Lin	_					ILZ	<u> </u>
							2 Bas				<u>-</u>					IE1	<u> </u>
			111	E154				310 L							APAC	IE3	9
							3 Per	form	ance	≥ Lin∉	P				Line	120	<u> </u>
					_		0 1 01					sic Li	ine			IE2	(11)
		11.6	152	3 Bas	sic L	ine									Eagle	NPE (NEMA)	(12)
							3 Per	form	ance	e Line	e				Line	= ((3)
1LE1 Z	Order code				_		1 Bas									NEE (NEMA)	(4)
			. /													, ,	
Versions in accordance with standards		ations				,	,	,	,	,	,	,	,	,	Onlyfor		
KEMCO Korea Energy Efficiency Label	D33	_	/	/	✓	√	√ R. O. R	✓	1	1	1	√	√	✓	Only for:	9, 10, 11	
China Energy (Efficiency Lobel 41)	D24	_	_	_	_				_							~	
China Energy Efficiency Label 41)	D34	0	0	0	0	0	0	0	0	0	0	0	0	0	NULTOR:	6, 7, 8, 11, 14	
		_	_		0	0	0	0	0	0	_			_	Only for:	(5)	
Canadian regulations (CSA) ¹⁷⁾	D40	- /	_	- /	1	✓	✓ ✓	✓	1	✓			- /		Not for:	12, 13, 14	
Canadian regulations (COA)	_	<u> </u>	·	Ė	<u> </u>	÷	Ė	Ė	<u> </u>	Ö	÷	·	Ė	·		12, 13, 14	
NEMA Premium Efficient, North America	D/1						-							7	Only for:		
version acc. to NEMA MG1, Table 12-11, incl. UL and CSA					ľ				ľ			•		•	Offiny for.	<u> </u>	
TR CU product safety certificate EAC for Eurasian Customs Union 35)	D47	✓	1	✓	1	✓	✓	/	1	/	/	✓	/	/			
MEPS Australia	D70	-	-	-	O. R	. O. F	R. O. R	. O. R	. O. R	R. O. R	l. O. R	l. O. R	. O. R.	. O. R.	Only for:	5	
Bearings and lubrication																	
Regreasing device with M10 x 1 grease nipple according to DIN 71412-A 1)	L19	_	_	_	_	_	_	_	0	0	0	✓	0	0		①, ③, ⑤, ⑥, ⑥, ⑧, ⑥ ⑭ ②, ④, ⑦, ⑩, ⑬	9), 12),
Located bearing DE	L20	/	1	/	/	/	/	/	√	<u>√</u>	<u>√</u>	<u>√</u>	<u>✓</u>	<u>✓</u>	Offiny 101.	2, 4, 0, 10, 10	
Located bearing NDE	L21	1	1	· /	/	· /	· /	<u> </u>	_	<u> </u>	_	<u> </u>	<u> </u>	<u> </u>			
<u> </u>		1	/	<u> </u>	1	· /	<u> </u>	_	_			_	_	_	Not for:	2, 4, 7, 10, 13	
Bearing design for increased cantilever forces ³⁶⁾		1	1	1					1	/	/	1	/	1	Only for:		
Regreasing device 1)	L23	_	_	_	_	_	_	_	/	· /	· /	· /		-	Not for:	2, 4, 7, 10, 13	
		_	_	_	1	1	1								Only for:		
Bearings reinforced at both ends for DE	L25	1	1	/	1	1	1	/	/	/	/	/			Not for:	2, 4, 7, 10, 13	
Bearings reinforced at both ends for DE and NDE, bearing size 63 19)	_															2, 4, 7, 10, 13	
Reinforced bearings at both DE and NDE, DE bearing for increased cantilever forces	L28	-	-	-	-	-	-	-	1	1	1	1	-	-			
Bearing insulation DE	L50	_	_		_			_	_	_	/	/	/	/			
	L51	_	_	_	1				1								
Measuring nipple for SPM shock pulse	Q01	_	_	_	1	<u>,</u>			1		<u>, </u>	<u></u>					
measurement for bearing inspection 1) Balance and vibration severity	QU1				Ľ	•	·	_	Ľ	•	•	•	•	•	_		
Vibration severity grade A								_				_					
00)	L00	1	/	/	1	/	/	/	1	/	/	/	/	/			
Half-key balancing (standard)																	
, , ,	L01	1	1	/	1	/	/	/	1	/	/	/	/	/			
	L02	1	1	1	1	1	1	1	1	1	1	1	1	1			
Shaft and rotor																	
	L04	✓	1	1	1	1	1	1	1	1	1	1	1	1			
Standard, cylindrical shaft extension (second shaft extension) NDE acc. to EN 50347	L05	✓	1	1	1	1	1	✓	1	1	1	1	1	1			
	L06	✓	1	1	1	1	1	1	1	1	1	1	1	1			
Shaft extension run-out in accordance with IEC 60072-1 precision class	L07	1	1	1	1	1	1	1	1	1	1	1	1	1			
Shaft extension run-out, concentricity and perpendicularity in accordance with IEC 60072-1 precision class for flange-mounted motors	L08	✓	√	✓	1	✓	✓	✓	√	√	1	1	1	✓			

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

		U	15L-	поп	561	165	SIIV		lU3	SU	1155	:10	Das	SIC L	ille, iL	E 16 Performance L	Lille
Special versions	Additional identification code -Z with		me s 80							200	225	250	280	315	Motor ve	rsion	
	order code and plain text						4 Bas 4 Per			e Lin	e				IEC	IE4	
	if required	1LI	=150	3 Bas	sic L	ine										IE3	3
						E160: E158:	3 Per 3	form	ance	e Lin	е						<u>4</u>
		1Li	≣150	1 Bas	sic L	ine				. 1 !						IE2	6
							1 Per 2 Bas) LIN	е					IE1	<u>()</u>
			11	E154				SIC L	IIIC						APAC	IE3	9
					_		3 Per	form	ance	Lin	e				Line	.20	(10)
									1LI	E154	1 Ba	sic L	ine			IE2	11)
		1LI	E152	3 Bas	sic L	ine									Eagle	NPE (NEMA)	(12)
							3 Per			Lin	е				Line		(13)
1LE1 Z	Order code				1LI	E152	1 Bas	sic L	ine							NEE (NEMA)	(4)
Shaft and rotor (continued)																	
Non-standard cylindrical shaft extension, DE ²¹⁾	Y58 • and customer specifications	✓	1	1	✓	1	1	/	1	/	1	✓	/	✓			
Non-standard cylindrical shaft exten-	Y59 • and	1	1	1	1	1	1	1	1	1	/	/	1	/			
sion, NDE ²¹⁾	customer specifica- tions																
Special shaft steel	Y60 • and	_	-	-	0. R	R. O. F	R. O. F	. O. F	R. O. R	. O. F	l. O. R	. O. R	. O. F	R. O. R.			
	customer specifica- tions																
Heating and ventilation																	
Sheet metal fan cover	F74				/	<u>/</u>	<u>/</u>	<u>/</u>	✓	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u> </u>		1, 3, 5, 6, 8, 9, 11, (12, (4)
Metal external fan ²²⁾ ²⁸⁾	- F76				□			<u>□</u>	□	<u>□</u>	<u>□</u> ✓	<u> </u>	<u>□</u>		Only for:	2, 4, 7, 10, 13	
Without external fan and without fan cover		1	1	✓ ✓	1	✓	<i>'</i>	1	1	1	1	✓ ✓	1	✓ ✓			
Anti-condensation heating for 230 V	Q02	√	1	<u> </u>	1	<u> </u>	<u> </u>	<u>/</u>	1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			
(2 terminals)																	
Anti-condensation heating for 115 V (2 terminals) Separately driven fan with non-standard	Q03	√	/	✓ 	✓		<i></i>		/	✓ 	✓ 	<i>\</i>	✓ 	1			
voltage and/or frequency	customer specifica- tions	_		_		_	_	_		_	•	•	_	•			
Rating plate and additional rating pla	B07	1	1	,	1			,	,	,	/	/	/	/	Not for:	8-pole motors	
Additional rating plate for voltage tolerance ²³⁾					′				′						NOUTOL.	о-роге толого	
Second rating plate, loose Rating plate, stainless steel	M10 M11	1	✓ ✓	✓ ✓	1	<u>/</u>	<u>/</u>	✓ ✓	/	1	/	✓ ✓	✓ ✓	✓ ✓	Only for:	1, 3, 5, 6, 8, 9, 11, ((n) (n)
Hatting plate, stailliess steel		_	_	_	0	0	0	0	0	0	0	0	0	0		4, 7, 10, 13	<u>w</u> , 🖷
	_	_	-	_									_		Only for:		
Additional rating plate with deviating rating plate data	Y80 • and customer specifications	1	1	1	1	1	1	✓	1	✓	1	1	✓	1			
Additional rating plate with customer specifications	Y82 • and customer specifications	1	1	1	1	1	1	1	1	1	1	1	1	1			
Additional information on rating plate and on package label (max. 20 characters)	Y84 • and customer specifications	1	1	1	1	1	1	1	1	1	1	1	1	1			
Adhesive label, supplied loose (printed with: Article No., Serial No.; 2 lines of text)	Y85 • and customer specifications	-	-	-	1	1	1	√	1	1	1	✓	✓	✓			
Extension of the liability for defects																	
Extension of the liability for defects by 12 months to a total of 24 months (2 years) from delivery ²⁴)	Q80	-	-	-	-	-	-	-	1	/	1	1	/	✓	·	①, ③, ⑤, ⑥, ⑧, ⑨, ⑪, (
Extension of the liability for defects by 24 months to a total of 36 months	Q82	_	-	-	-	_	_	_	/	/	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		1, 3, 5, 6, 8, 9, 11, (
(3 years) from delivery ²⁴⁾ Packaging, safety notes, documentat	ion and test ea	rtific	- ites			_	_	_	_	_	_	_	_	_	Only for:	②, ④, ⑦, ⑩, ⑧ 36 mc	onths
Inspection certificate 3.1 according to EN 10204 ²⁵⁾	B02	✓ /	1	/	1	1	/	1	1	/	1	1	1	1			
	Den	,	,	,	,	,	,	,	,	,	,	,	,	,			
Document - Electrical datasheet	B60	✓	1	1	1	1	1	V	V	/	/	V	1	✓			

Article No. supplements and special versions · Options

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

Special versions	Additional identification		Frame size 71 80 90 100 112 132 160 180 200 225 250 280 315										Motor version				
	code -Z with order code and plain tex		-	-	1LI	≣150	4 Ba	sic L	ine					0 010	IEC	IE4	
	if required		5150	3 Ba			4 Pei	riorii	ianc	e Lin	е					IE3	(2)
		11.0	- 150	э ра			2 Poi	rform	ance	o Lin	0					IES	<u> </u>
						=100 =158			ianic	e Liii							<u>+</u>
		5115	150	1 Ba			<u> </u>									IE2	<u> </u>
		12.	_ 100	ı Du	_		1 Pe	rform	anc	e I in	Α					122	<u> </u>
								sic L		e Liii						IE1	<u> </u>
			11.	E154				0.0 _							APAC	IE3	9
								rform	ance	e Lin	e				Line	.20	100
											1 Ba	sic L	ine			IE2	(f)
		11.5	152	3 Ba	sic L	ine									Eagle	NPE (NEMA)	(D)
							3 Pei	rform	ance	e Lin	е				Line	(,	(13)
1LE1 Z	Order code				1LI	E152	1 Ba	sic L	ine							NEE (NEMA)	(4)
Packaging, safety notes, documentati	ion and test c	ertifica	ites	(cont	inue	d)											
Document - Order dimensional drawing	B61	1	1	1	1	1	1	1	1	1	1	1	/	1			
Standard test (routine test) with acceptance	B65	-	-	-	1	✓	1	1	1	1	1	1	✓	1			
Type test with heat run for horizontal motors, without acceptance	B82	✓	1	1	1	1	1	1	1	1	1	1	1	1			
Type test with heat run for horizontal motors, with acceptance	B83	1	1	1	1	1	1	1	1	1	1	1	1	1			
"Basic" documentation package	B90	✓	1	1	1	1	1	1	1	1	1	/	1	1			
"Advanced" documentation package	B91	1	1	1	1	1	/	/	1	1	1	✓	1	1			
"Projects" documentation package	B92	✓	✓	1	1	1	1	1	1	1	1	✓	1	1			
Connected in star for dispatch	M01	✓	✓	1	1	/	1	1	1	✓	1	✓	1	1			
Connected in delta for dispatch	M02	1	1	/	/	/	/	/	/	/	/	/	/	/			

Article No. supplements and special versions · Options

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

- Standard version
- Without additional charge 0
- This order code only determines the price of the version Additional plain text is required.
- With additional charge
- O. R. Possible on request
- Not possible

- 1) Up to frame size 160 not possible when brake is mounted.
- Evaluation with appropriate tripping unit (see Catalog IC 10) is recom-
- Parallel Whitworth threaded pipe DIN ISO 228 (DIN 259) BSPP (British Standard Pipe Parallel) threaded pipe for connections not sealed in the thread (cylindrical), external = G
- Cannot be used for motors in UL version (order code D31). The grease lifetime specified in Catalog Section 1 "Introduction" refers to CT 40 °C. If the coolant temperature is increased by 10 K, the grease lifetime and regreasing interval are halved
- Not possible for 1LE15 and 1LE16 motors with increased power.
- A second shaft extension is not possible. Please inquire for mounted
- For order codes F10, F11, F12, F17, and F18, the brake supply voltage must be specified or ordered.
- 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
- 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.
- ¹⁰⁾ 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
- ¹¹⁾ Option (encoder mounting) is only possible for motors with a mounted separately driven fan or for naturally cooled motors (without an external fan). This option can be used in combination with brakes of type KFB! This option cannot be used in combination with brakes of type BFK458!
- 12) Order code **H00** provides mechanical protection for encoders
- $^{13)}$ Not possible for type of construction IM V3
- ¹⁴⁾ Not possible in combination with HOG 9 DN 1024 I rotary pulse encoder (order code G05) and/or brake BFK458 (order code F01)
- ¹⁵⁾ Not possible in combination with brake BFK458 order code **F01**
- ¹⁶⁾ In connection with mountings, the respective technical specifications must be observed, please inquire before ordering
- ¹⁷⁾ 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 NEMA Energy Efficient and 1LE1523/1LE1623 NEMA Premium Efficient are available for this purpose.
- ¹⁸⁾ 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 NEMA Energy Efficient and 1LE1523/1LE1623 NEMA Premium Efficient are available for this purpose
- ¹⁹⁾ For Performance Line motors (all frame sizes) and Basic Line motors (from frame size 280) in the standard version
- ²⁰⁾ On request for 2-pole motors (concerns frame sizes 225 to 315).

- ²¹⁾ 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 EN 50347, Form A are used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer in accordance with the appropriate standard. Not valid for Conical shafts, non-standard threaded journals, non-standard shaft toler-ances, 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 Y58, Y59 and L05 the following applies:
 - Dimensions D and DA ≤ ball bearing inner diameter
 - (see dimension tables for "Dimensions") Dimensions E and EA \leq 2 × length E (standard) of the shaft extension.
- ²²⁾ Converter operation is permitted for 1LE1 motors with metal external fans.
- 23) Can be ordered for 230 VA/400 VY or 400 VA/690 VY (voltage code "22" or "34"). Not possible for 8-pole motors and in combination with order code D34
- ²⁴⁾ Wearing parts (bearings) are excluded from the warranty extension.
- ²⁵⁾ The delivery time for the manufacturer's test certificate may differ from the delivery time for the motor
- The Operating Instructions (compact) are available in PDF format for all official EU languages at http://support.automation.siemens.com/WW/view/en/40761976.
- 27) With H08, feet dimensions C and CA differ from EN 50347! Further information is available in the DT Configurator (see Appendix, "Tools and engineering").
- ²⁸⁾ Order codes **F70** and **F76** cannot be combined.
- ²⁹⁾ Not possible in combination with order codes **Q72** and **Q78**.
- 30) For frame sizes 100 to 132 only possible in combination with order code R50.
- ³¹⁾ Not possible in combination with order codes N05, N06, N07, N08, and N11
- ³²⁾ For frame size 315, when combining order codes **F01** and **F12**, the rectifier for the brake will be supplied separately as a single part
- 33) Order code S06 cannot be combined with order codes S00, S01, and S02. It can be combined with Y53 and Y56 on request.
- ³⁴⁾ Order codes **F70** (separately driven fan) and **H02** (vibration-proof version) cannot be combined for motors in frame sizes 71, 80, and 90
- 35) Please note the additional use of order code D22 "Motor without CE marking for export outside EEA (see EU Directive 640/2009)"
- $^{36)}$ A minimum cantilever force $F_{\rm min}$ of 0.5 \cdot $F_{\rm max}$ is required for NU bearings (cylindrical roller bearings) in contrast to ball bearings. Cylindrical roller bearings are not suitable for coupling output or for brief periods of no-load operation without cantilever force.
- 37) Order code R62 only possible in combination with R50
- 38) Supplied with the condensation drainage holes sealed at the drive end DE and non-drive end NDE (IPS5, IPS6, IP65). If the condensation drainage holes are required for motors of the IM B6, IM B7 or IM B8 type of construction (feet on side or top), the motors must be ordered in the respective type of construction and with order code H03, so that the condensation drainage holes will be placed in the correct position.
- 39) Not possible in combination with order code R50
- 40) With IM B5 flange, only possible in combination with H08.
- 41) Not possible in combination with voltage code (12th or 13th position of the Article No.) 17, 18, 30, 31 and 90 with the additional order codes M1E; M2E; M1F; M2F; M1G; M2G; M1H; M2H; M1J; M2J; M1K; M2K; M1L; M2L; M1M; M2M and M3A

Article No. supplements and special versions · Options

Aluminum series SIMOTICS GP 1LE1073 and cast-iron series SIMOTICS SD 1LE1573, 1LE5773

Selection and ordering data															
_		_													
Special versions	Additional identification code -Z with	80	ne siz 90 1073	100	112	132	160	180	200	225	250	280	315	Motor v	ersion IE3
	order code and plain text if required	11-1-	.1073					1LE	1573		11.5	5773		ILO I	ILO
1LE1 Z	Order code										1122	5775			
Motor protection															
1 or 3 PTC thermistors – for tripping (2 terminals)	Q11	1	1	1	1	1	1	1	1	✓	✓	1	1		
2 or 6 PTC thermistors – for alarm and tripping (4 terminals)	Q12	✓	1	1	1	1	1	1	1	1	✓	✓	✓		
1 KTY84-130 temperature sensor (2 terminals)	Q23	✓	1	1	1	1	1	1	1	1	✓	✓	✓		
2 KTY84-130 temperature sensors (4 terminals)	Q25	✓	✓	1	✓	✓	1	✓	✓	✓	1	✓	✓		
3 bimetal sensors (NC contacts) for tripping (2 terminals)	Q31	✓	✓	1	✓	✓	1	✓	✓	✓	✓	✓	✓		
6 bimetal sensors (NC contacts) for alarm and tripping (4 terminals)	Q32	✓	✓	1	✓	✓	1	✓	✓	✓	✓	✓	✓		
3 bimetal sensors (NC contacts) for tripping (6 terminals)	Q33	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓		
6 bimetal sensors (NC contacts) for alarm and tripping (12 terminals)	Q34	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓		
1 Pt1000 resistance thermometer (2 terminals)	Q35	✓	1	1	1	1	✓	1	1	1	1	✓	✓		
2 Pt1000 resistance thermometer (4 terminals)	Q36	✓	1	✓	1	1	1	✓	1	1	✓	✓	✓		
3 Pt100 resistance thermometers – 2-wire input (6 terminals)	Q60	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓		
6 Pt100 resistance thermometers – 2-wire input (12 terminals) ¹⁹⁾	Q61	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓		
1 Pt100 resistance thermometer – 2-wire input (2 terminals)	Q62	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓		
3 Pt100 resistance thermometers – 3-wire input (9 terminals) ²²⁾	Q63	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓		
6 Pt100 resistance thermometers – 3-wire input (18 terminals) ²²⁾	Q64	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓		
2 Pt100 resistance thermometers in basic configuration for bearing (2 terminals) ²⁾	Q72	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓		
2 Pt100 resistance thermometers in 3- wire input for bearing (6 terminals)	Q78	-	-	_	-	-	-	✓	✓	✓	1	✓	✓		
2 Pt100 double resistance thermometers in 3-wire input for bearing (12 terminals)	Q79	-	-	-	-	-	-	1	√	✓	√	√	✓	Not for:	Motors in combination with order codes F40 and F41 (frame sizes 225 to 315)
Motor connection and terminal box															
External grounding	H04	✓	/	✓	/	/	/								
Terminal box on NDE ¹⁹⁾	H08	O. R	. O. R	. O. R	. O. R	. O. R	. O. R.	-			/	/	/		
Second external grounding	H70	-	_	_	_	_	_	/	√	/	<u>/</u>	√	1		
Rotation of the terminal box through 90°, entry from DE ³⁰⁾		0	0	0	0	0	0	1	✓ 	1	✓ 	✓ 	1		
Rotation of the terminal box through 90°, entry from NDE		0	0	0	0	0	0	1	<i>'</i>	<i>'</i>	✓ 	✓ 	1		
Rotation of the terminal box through 180°	R14	○✓	○ ✓	○ ✓	0	0	○✓	√	√ ✓	1	/	<u>/</u>	1		
One EMC cable gland One metal cable gland	R15	1	✓ ✓	✓ ✓	1	1	✓ ✓	1	✓ ✓	✓ ✓	1	✓ ✓	1		
	R16	1	/	1	/	1	/	1	/	/	1	✓ ✓	✓ ✓		
EMC cable gland, maximum configuration Stud terminal for cable connection,	R17	•						•				<u>/</u>	1		
accessories pack (3 items) Metal cable gland.	R18	_										1	√		
maximum configuration Saddle terminal for connection without	R19	•						•				<u> </u>	√		
cable lug, accessories pack 3 cables protruding,	R20	_									_	_	_		
Cables protruding, O.5 m long Cables protruding,	R21	1	1	1	✓ ✓	1	<i>'</i>	Ť		0 P	– . O. R.				
1.5 m long 6 cables protruding,	R22	1	1	1	1	1	<i>'</i>	√	- O. N	. O. M.	. O. A.	- N.	- N.		
Cables protruding, O.5 m long cables protruding,	R23	1	./	./	/	1	/	Ť	O P	O P	– . O. R.	O P	O D		
6 cables protruding, 1.5 m long 6 cables protruding, 3 m long	R24	✓ ✓	<i>\</i>	1	1	/	<i>'</i>				. O. R.				
o capies protructing, 3 III long	1124	V	V	V	•	•	V	U. N.	U. R	. U. M.	. U. M.	U. N.	U. N.		

Article No. supplements and special versions · Options

Aluminum series SIMOTICS GP 1LE1073 and cast-iron series SIMOTICS SD 1LE1573, 1LE5773

Special versions	Additional identification code -Z with order code	80 1LE	me siz 90 1073	100	112	132	160		200		250	280	315	Motor ve	ersion IE3		
	and plain text if required	L						1LE	1573		11 F	5773		ı			
1LE1 Z	Order code											.0770					
Motor connection and terminal box (c	ontinued)																
12 cables protruding with cable lugs																	
Larger terminal box	R50	✓	1	1	1	/	1	✓	1	1	1	/	✓				
Terminal box without cable entry opening	R51	-	-	-	-	-	-	0	0	0	0	0	0				
Drilled removable entry plate	R52	-	-	-	-	-	-	✓	1	1	1	1	/				
Undrilled removable entry plate	R53	-	_	_	_	_	-	/	/	✓	/	✓	/				
Cast-iron auxiliary terminal box (small) 22)	R62	_	-	_	-	_	/	1	/	/	/	/	1				
Cast-iron auxiliary terminal box (large)	R63	-	-	-	-	-	-	-	-	-	-	-	1				
Non-standard threaded through hole (NPT or G thread)	Y61 • and customer specifications	-	-	-	-	-	-	✓	1	✓	✓	✓	✓				
Windings and insulation	Net																
Temperature class 155 (F), utilized according to 155 (F), with service factor	N01	√						/					/				
Temperature class 155 (F), utilized acc. to 155 (F), with increased power	N02	✓	1	1	/	√	✓	✓	1	/	1	✓	✓				
Temperature class 155 (F), utilized acc. to 155 (F), with increased coolant temperature	N03	✓	1	✓	✓	✓	1	1	✓	✓	1	1	✓				
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 %	N05	✓	✓	✓	1	✓	1	✓	✓	1	✓	✓	✓				
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 %	N06	✓	1	✓	1	✓	1	✓	1	✓	✓	✓	✓				
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 %	N07	✓	1	✓	1	1	1	1	1	1	1	1	1				
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 %	N08	1	✓	✓	1	✓	1	1	1	1	1	✓	✓				
Temperature class 180 (H)	N10	O. F	l. O. R	. O. R	. O. R	. O. R.	0. R	. O. F	R. O. R	. 🗸	✓	1	✓				
Temperature class 180 (H) at rated power and max. CT 60 °C ⁴⁾	N11	✓	1	1	1	1	✓	✓	1	/	1	1	✓				
Increased air humidity/temperature with 30 to 60 g water per m ³ of air	N30	✓	1	1	/	1	✓	1	1	/	1	/	✓				
Increased air humidity/temperature with 60 to 100 g water per m ³ of air	N31	✓	1	✓	1	1	✓	1	1	1	✓	1	1				
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude	Y50 • CT °C or IA m above sea level	-	-	√	√	√	√	1	1	✓	√	√	J				
Temperature class 155 (F), utilized acc. to 155 (F), other requirements	Y52 • CT °C or IA m above sea level	J	1	1	1	✓	1	J	1	1	✓	1	1				
Temperature class 180 (H), utilized according to 155 (F)	Y75 • CT °C or IA m above sea level	-	-	0. R	. O. R	. O. R.	O. R	. ✓	1	1	✓	1	1				
Colors and paint finish																	
Unpainted (only cast-iron parts primed)	S00	0	0	0	0	0	0	0	0	0	0	0	0				
Unpainted, only primed	S01	✓	/	✓	✓	✓	1	✓	1	✓	✓	✓	✓				
Special paint finish C3	S02																
Special paint finish sea air resistant C4	S03	✓	✓	✓	✓	✓	✓	1	/	√	√	1	1				
Special paint finish for use offshore C5	S04	-	-	-	-	-	-	1	√	1	/	√ /	1				
Internal coating Top coat polyurethane ²⁵⁾	S05 S06	1	1	1	1	1	1	√ √	✓ ✓	✓ ✓	1	1	√ √				
C5mid Special paint system with dura-	S08	_	_	-	_	_	-	1	1	1	1	/	1				
bility "medium"								•	•	,	•	,					
CX Special paint system for offshore with durability "high"	S09	_	-	-	-	-	-	/		/	/	/	/				

Article No. supplements and special versions · Options

Aluminum series SIMOTICS GP 1LE1073 and cast-iron series SIMOTICS SD 1LE1573, 1LE5773

Ī	Special versions	Additional identification	Fran	me siz		112	132	160	180	200	225	250	280	315	Motor versi	on	
		code -Z with order code		1073	100	112	102	100		200	220	200	200	0.0	IEC II	E 3	
		and plain text if required							1LE	1573							
	1LE1 Z	·										1LE	5773				
i	Colors and paint finish (continued)	01401 0040															
- 8	Paint finish in other standard RAL colors:	V53 •	1						1					/			
	RAL 1015, 3000, 5002, 5009, 5010,	and	•	•	•	•	•	•	•	•	•	•	•	•			
	5012, 5015, 6011, 7001, 7011, 7016, 7031, 7032, 7035, 7037, 8012, 9005,	paint fin- ish															
	9010	RAL															
	(see Catalog Section 1 "Introduction") Paint finish in special RAL colors: For	Y56 •	1		,	/		/	1			/	/	/			
	RAL colors, see "Special paint finish in	and	•	•	•	•	•	•	•	•	•	•	•	•			
	special RAL colors" (see Catalog Section 1 "Introduction")	paint fin- ish															
		RAL															
	Non-standard colors Colors see "Paint finish in non-standard	Y66 • and	1	1	✓	/	1	1	/	/	1	1	/	✓			
	colors	paint fin-															
	(see Catalog Section 1 "Introduction")	ish															
ı	Modular technology – Basic versions	5)		-			-	-			-	-					
	Mounting of holding brake (standard assignment) 6) 23) 24)	F01	1	1	1	1	1	1	1	1	1	1	1	1			
	(standard assignment) (standard assignment) (standard assignment)	F04			/	/	/	/	/	/	/	/	/	_			
	Mounting of separately driven fan ^{20) 26)}	F70		- /	1	1	1	1	1	1	✓ ✓	✓ ✓	✓ ✓				
Ī	Mounting of Kübler Sendix 5020 HTL,	G11	1	/	1	1	1	1	1	1	1	1	1	1			
	1024 I rotary pulse encoder Mounting of Kübler Sendix 5020 TTL.	G12	/		,	,	,	,	/	,	,	,	1	/			
	1024 I rotary pulse encoder	GIZ	•			•			•	•		•	•	•			
	Modular technology – Additional vers																
	Brake supply voltage 24 V DC Brake supply voltage 230 V AC,	F10	/	/	0	0	0	0	✓	0	0	0	✓	✓			
	50/60 Hz	FII	•						0					0			
	Brake supply voltage 400 V AC, 50/60 Hz ²⁴⁾	F12	✓	1	1	1	1	1	✓	/	1	1	1	✓			
	Brake supply voltage 180 V DC	F17	✓	1	✓	✓	1	/	✓	✓	/	-	-	-			
	Brake supply voltage 205 V DC	F18	✓	/	✓	✓	/	/	√	<u>/</u>	/	-	_	-			
	Backstop, counterclockwise motion blocked, clockwise direction of rotation	F40	_	_	-	-	/	1	/	/	/	/	1	/			
	Backstop, clockwise motion blocked, counterclockwise direction of rotation	F41	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓			
	Mechanical manual brake release with lever (no locking)	F50	1	1	1	1	1	1	1	1	1	1	1	-			
	Special technology ⁵⁾																
	Mounting of LL 861 900 220 rotary pulse encoder 7)	G04	_	-	1	1	1	1	1	1	✓	✓	✓	/			
	Mounting of HOG 9 DN 1024 I	G05	-	-	✓	✓	√	√	1	1	✓	✓	✓	/			
	rotary pulse encoder (1) Mounting of HOG 10 D 1024 I	G06	_	_	/	/	/	/	1	/	1	/	/	/			
	rotary pulse encoder 7) Mounting of POG 10 DN rotary pulse	007							,	,	,	,	√	/			
	encoder (only in combination with separately driven fan or brake) 7)	G07	_	_	_	_	_	_	•	•	•	•	•	•			
Ī	Mounting of POG 9 rotary pulse encoder (only in combination with	G08	-	-	-	-	-	-	1	/	1	1	1	✓			
	encoder (only in combination with separately driven fan or brake) ⁸⁾ Mounting of HOG 10 DN 1024 I rotary	G15							/	,	,	/	√	/			
	pulse encoder, terminal box moisture protection	GIS	_	_	_	_	_	_	•	•	•	•	•	•			
	Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal box dust protection	G16	-	-	-	-	-	-	1	1	1	1	1	1			
	Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	G21	1	✓	✓	✓	✓	1	1	1	✓	✓	✓	✓			
	Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	G22	1	1	1	1	1	1	1	1	1	1	1	1			
	Mounting of HOGS100S- B76.626.01024.1 rotary pulse encoder	G25	-	-	-	-	-	-	✓	✓	1	1	✓	1			
	Mounting of LL FSI 862-184560-1024, SIL-2 rotary pulse encoder	G27	-	-	-	-	-	-	1	1	1	1	1	1			
Ī	Mounting of rotary pulse encoder XSI 850 Overspeed	G93							1	1	1	1	√	1			
	Mounting of rotary pulse encoder XHI	G94							1	1	✓	✓	✓	√			
	861 Overspeed																

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Aluminum series SIMOTICS GP 1LE1073 and cast-iron series SIMOTICS SD 1LE1573, 1LE5773

Special versions	Additional	Fran	ne siz	7 <u>0</u>										Motor version
opecial versions	identification	80			112	132	160	180	200	225	250	280	315	Wiotor Version
	code -Z with order code		1073											IEC IE3
	and plain text							1LE	1573					
	if required										1LE	5773		
1LE1 Z	Order code													
Special technology ⁵⁾ (continued)														
Mounting of rotary pulse encoder HOG 10 DN 1024 I + FSL, (integrated centrifugal switch, speed rpm), terminal box moisture protection	Y74 • and spec. speed rpm	-	_	-	_	-	_	1	1	1	✓	1	1	
Mounting of rotary pulse encoder HOG 10 DN 1024 I + FSL, (integrated centrifugal switch, speed rpm), terminal box dust protection	Y76 • and spec. speed rpm	-	-	-	-	_	-	1	1	1	1	1	1	
Mounting of rotary pulse encoder HOG 10 DN 1024 I + ESL 93, (integrated electronic speed switch, speed rpm), terminal box dust protection	Y79 • and spec. speed (max 3) rpm	-	-	-	-	-	-	✓	√	1	1	1	J	
Mechanical version and degrees of pr	otection													
Low-noise version for 2-pole motors with clockwise direction of rotation	F77	-	-	-	-	✓	1	✓	✓	/	✓	1	/	
Low-noise version for 2-pole motors with counterclockwise direction of rotation	F78	-	-	-	-	1	1	1	1	1	1	1	1	
Prepared for mounted components, centering hole only	G40	1	✓	1	1	1	1		_		_			
Prepared for mountings with D12 shaft	G41	1	/	/	/	/	/	✓	/	/	/	/	/	
Prepared for mountings with D16 shaft	G42	1	1	1	1	/	1	✓	1	1	/	/	1	
Mechanical protection for encoder	G43	✓	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Protective cover ^{7) 9)}	H00	✓	/	✓	✓	√	/	√	✓	/	√	/	✓	
Screwed-on (instead of cast) feet	H01												-	
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994 ²⁹⁾	H02	/	/	1	✓	✓	1	/	/	/	✓	√	✓	
Condensation drainage holes ²⁸⁾	H03	/	1	1	✓	✓	/							
Rust-resistant screws (externally)	H07	✓	/	/	/	✓	✓	✓	/	✓	✓	✓	✓	
Degree of protection IP66	H19	✓	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	
Degree of protection IP56 ¹²⁾	H22	✓	/	✓	✓	✓	✓	1	✓	✓	✓	✓	/	
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar 10) 21)	H23	✓	✓	√	<i>'</i>	√	✓	1	√	✓	√	✓	✓	
Grounding brush for converter operation		-	-	-	-	-	-	-	-	-	-	✓	/	
Coolant temperature and installation a														
Coolant temperature –50 to +40 °C	D02	-	-	-	-	_	-	/	/	/	/	/	/	
Coolant temperature –40 to +40 °C ¹³⁾	D03	/	/	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	√	<u>/</u>	<u>/</u>	/	<u>/</u>	/	
Coolant temperature –30 to +40 °C	D04	/	/	/	/	/	/	/	/	/	/	/	✓	
Bearings and lubrication Regreasing device with M10 × 1 grease	L19	-	-	-	-	-	-	✓	✓	✓	✓	0	0	
nipple according to DIN 71412-A 1) Located bearing DE	L20	1	1	1	/	1	/	1	1	1	1	/	1	
Located bearing NDE	L20	1	1	1	1	1	<u>-</u>	_	<u> </u>	<u> </u>	_	_	<u>/</u>	
		/	/	/	/	/	/	/	_	<u> </u>	<u> </u>	7	<u> </u>	
Bearing design for increased cantilever forces ²⁷)		Ť	•	•	•	•	•	Ť	•	•	•	•		
Regreasing device 1)	L23	-	-	✓	✓	✓	✓	✓	✓	✓	✓			
Bearings reinforced at both ends for DE and NDE, bearing size 63 ¹⁴⁾	L25	✓	√	✓	/	✓	✓	✓	✓	✓	✓	_	_	
Reinforced bearings at both DE and NDE, DE bearing for increased cantilever forces	L28	_	-	-	-	-	-	1	1	1	✓	-	-	
Bearing insulation DE	L50	-	-	-	-	-	_	-	-	1	/	/	/	
Bearing insulation NDE	L51	-	-	1	1	✓	1	1	/	1	/	1	/	
Measuring nipple for SPM shock pulse measurement for bearing inspection 1)	Q01	-	-	1	1	1	✓	1	1	✓	/	✓	1	
Balance and vibration severity														
Vibration severity grade A														
Vibration severity grade B ¹⁵⁾	L00	✓	1	1	1	✓	1	✓	✓	1	✓	✓	✓	
Half-key balancing (standard)														
Balancing without feather key	L01	✓	1	1	1	✓	1	✓	✓	1	✓	✓	✓	
Full-key balancing	L02	✓	1	1	1	✓	1	✓	✓	1	✓	1	✓	

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Aluminum series SIMOTICS GP 1LE1073 and cast-iron series SIMOTICS SD 1LE1573, 1LE5773

Special versions	Additional	Fra	ame si	ze										Motor ve	ersion	
	identification code -Z with		90		112	132	160	180	200	225	250	280	315			
	order code and plain text		E1073	}				ETIT-	1573					IEC	IE3	
	if required							1144	113/3		1LE	5773		l		
1LE1 Z	Order code															
Shaft and rotor																
Shaft extension with standard dimensions, without feather keyway	L04	✓	✓	✓	✓	✓	1	1	✓	✓	✓	✓	✓			
Standard, cylindrical shaft extension (second shaft extension) NDE acc. to EN 50347	L05	1	1	1	1	1	1	1	1	1	1	✓	1			
Standard shaft made of stainless steel (e.g. 1.4021)	L06	✓	1	1	1	1	1	1	1	1	✓	1	1			
Shaft extension run-out in accordance with IEC 60072-1 precision class	L07	✓	1	✓	✓	✓	1	✓	✓	✓	✓	✓	✓			
Shaft extension run-out, concentricity and perpendicularity in accordance with IEC 60072-1 precision class for flange- mounted motors	L08	✓	✓	✓	1	✓	1	1	1	✓	✓	✓	1			
Non-standard cylindrical shaft extension, DE ¹⁶)	Y58 • and customer specifications	✓	✓	✓	1	✓	1	1	1	✓	✓	✓	1			
Non-standard cylindrical shaft extension, NDE ¹⁶⁾	Y59 • and customer specifications	1	1	1	✓	1	1	✓	✓	1	1	1	1			
Special shaft steel	Y60 • and customer specifications	-	-	-	-	-	-	O. R	. O. R	. O. R.	. O. R.	O. R	. O. R			
Heating and ventilation																
Sheet metal fan cover	F74	1	/	/	/	/	/	/	/	/	/	/	1			
Metal external fan ¹⁷⁾ ²⁹⁾	F76	/	/	/	/	<u>/</u>	/	/	/	/	/	<u>/</u>	-			
Without external fan and without fan cover	F90	<i>'</i>		<i>'</i>	<i>'</i>	<i>'</i>		1	<i>'</i>	<i>'</i>	<i>'</i>	<i>'</i>	1			
Anti-condensation heating for 230 V (2 terminals)	Q02	/			/	<i>,</i>		/	/		/	/	/			
Anti-condensation heating for 115 V (2 terminals)	Q03	✓		<i></i>	/	✓	✓ 	/	/	<i>'</i>	<i>\</i>	/	/			
Separately driven fan with non-standard voltage and/or frequency	Y81 • and customer specifications	_	-	_	_	-	-	_	_	/	/	/	1			
Rating plate and additional rating plat	es															
Second rating plate, loose	M10	✓	<u>/</u>	<u>/</u>	<u> </u>	<u>/</u>	<u>/</u>	/	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	/			
Rating plate, stainless steel Additional rating plate with	M11 Y80 • and															
deviating rating plate data	customer specifica- tions	•	•	v	•	•	•	•	V	V	•	•	v			
Additional rating plate with customer specifications	Y82 • and customer specifications	1	✓	✓	1	1	/	✓	✓	✓	1	✓	1			
Additional information on rating plate and on package label (max. 20 characters)	Y84 • and customer specifications	1	1	1	1	1	1	1	✓	1	1	1	1			
Adhesive label, supplied loose (printed with: Article No., Serial No.; 2 lines of text)	Y85 • and customer specifications	-	-	1	1	1	1	1	1	1	1	1	1			
Packaging, safety notes, documentati		_														
Inspection certificate 3.1 according to EN 10204 18)	B02	✓	1	✓	✓	✓	1	1	✓	1	1	✓	/			
Document - Electrical datasheet	B60	1	1	1	1	1	1	1	1	√	1	1	1			
Document - Order dimensional drawing Standard test (routine test)	B61 B65	✓	√	1	1	1	1	1	1	1	1	1	1			
with acceptance Type test with heat run for horizontal	B82			1	1	1	1	1	1	1	1		<i>y</i>			
motors, without acceptance Type test with heat run for horizontal	B83	<i>y</i>		<u> </u>	<u> </u>	<i>'</i>	✓ ✓	1	<u>/</u>	/	<u>/</u>	<u>/</u>	1			
motors, with acceptance	M01	✓ ✓		<u> </u>	<u> </u>	✓ ✓	✓ ✓	1	✓	✓ ✓	<u>/</u>	<u>/</u>	1			
Connected in star for dispatch Connected in delta for dispatch	M02	1	1	✓ ✓	✓ ✓	✓ ✓	1	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓			
									•	•	•	•				

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Aluminum series SIMOTICS GP 1LE1073 and cast-iron series SIMOTICS SD 1LE1573, 1LE5773

- Standard version
- Without additional charge 0
- This order code only determines the price of the version Additional plain text is required.
- With additional charge
- Possible on request O. R.
- Not possible

- 1) Up to frame size 160 not possible when brake is mounted.
- Evaluation with appropriate tripping unit (see Catalog IC 10) is recom-
- Parallel Whitworth threaded pipe DIN ISO 228 (DIN 259) BSPP (British Standard Pipe Parallel) threaded pipe for connections not sealed in the thread (cylindrical), external = G
- Cannot be used for motors in UL version (order code D31). The grease lifetime specified in Catalog Section 1 "Introduction" refers to CT 40 °C. If the coolant temperature is increased by 10 K, the grease lifetime and regreasing interval are halved.
- A second shaft extension is not possible. Please inquire for mounted
- For order codes F10, F11, F12, F17, and F18, the brake supply voltage must be specified or ordered
- 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
- Option (encoder mounting) is only possible for motors with a mounted separately driven fan or for naturally cooled motors (without an external fan). This option can be used in combination with brakes of type KFB! This option cannot be used in combination with brakes of type 2LM8!
- 9) Order code **H00** provides mechanical protection for encoders.
- ¹⁰⁾ Not possible for type of construction IM V3
- 11) Not possible in combination with HOG 9 DN 1024 I rotary pulse encoder (order code **G05**) and/or brake 2LM8 (order code **F01**).
- 12) Not possible in combination with 2LM8 brake order code F01.
- 13) In connection with mountings, the respective technical specifications must be observed, please inquire before ordering
- ¹⁴⁾ From frame size 280 standard version.
- ¹⁵⁾ On request for 2-pole motors (concerns frame sizes 225 to 315).
- ¹⁶⁾ 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 EN 50347, Form A are used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer in accordance with the appropriate standard. 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 **Y58**, **Y59** and **L05** the following applies:

 — Dimensions D and DA ≤ ball bearing inner diameter
 - (see dimension tables for "Dimensions")
 - Dimensions E and EA \leq 2 × length E (standard) of the shaft extension.

- 17) Converter operation is permitted for 1LE1 motors with metal external fans.
- ¹⁸⁾ The delivery time for the manufacturer's test certificate may differ from the delivery time for the motor
- 19) With H08, feet dimensions C and CA differ from EN 50347! Further information is available in the DT Configurator (see Appendix, "Tools and engi-
- ²⁰⁾ Order codes **F70** and **F76** cannot be combined.
- ²¹⁾ Not possible in combination with order codes **Q72** and **Q78**.
- ²²⁾ For frame sizes 100 to 132 only possible in combination with order code R50.
- ²³⁾ Not possible in combination with order codes N05, N06, N07, N08, and N11
- ²⁴⁾ For frame size 315, when combining order codes F01 and F12, the rectifier for the brake will be supplied separately as a single part.
- ²⁵⁾ Order code **\$06** cannot be combined with order codes **\$00**, **\$01**, and S02. It can be combined with Y53 and Y56 on request.
- ²⁶⁾ Order codes **F70** (separately driven fan) and **H02** (vibration-proof version) cannot be combined for motors in frame sizes 71, 80, and 90
- $^{27)}$ A minimum cantilever force $F_{\rm min}$ of $0.5 \cdot F_{\rm max}$ is required for NU bearings (cylindrical roller bearings) in contrast to ball bearings. Cylindrical roller bearings are not suitable for coupling output or for brief periods of no-load operation without cantilever force.
- Supplied with the condensation drainage holes sealed at the drive end DE and non-drive end NDE (IP55, IP56, IP65). If the condensation drainage holes are required for motors of the IM B6, IM B7 or IM B8 type of construction (feet on side or top), the motors must be ordered in the respective type of construction and with order code H03, so that the condensation drainage holes will be placed in the correct position.
- ²⁹⁾ Not possible in combination with order code **R50**
- 30) With IM B5 flange, only possible in combination with H08.