Voltages

Cast-iron series 1LA8, 1LL8, 1PQ8

Coloction and ordering data

	Standard	delivery	times:
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Selection and ordering data	a											
Voltages	Voltage	Addi-	Motor category	y		Standa	rd deliver	y time (cc	lored are	a)		
	code 11th	tional identifi-	Motor	Motor	Number	Motor	type – Fra	ame size				
	position	cation	version	туре	or poles	315	355	400		450		
	Order No.	code	Mains-fed	1LA8	2, 4, 6, 8	1LA8						
		order	operation	1LL8	2, 4, 6, 8	1LL8						
		code	Converter-fed	1LA8	2, 4, 6, 8	1LA8						
		text if	operation	1LL8	2, 4, 6, 8	1LL8						
		required	Matan	1PQ8	2, 4, 6, 8	1PQ8		/11.1.0	/1000			
			version	type	of poles		ype ILA8	/ ILL8	/ IPQ8		455	457
				(		315	353	403	407	453	455	457
1PQ8	<b>.</b>						356					
1L	•						357					
Voltage at 50 Hz and 50 Hz output	ut		Maina fad	11.4.0	0.4		-	_				
400 VZ/690 VY ·/	0	-	operation	ILA8, ILL8	2, 4	<u> </u>	<u> </u>	<u> </u>	-	-	-	-
					0		<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	- 2)
	0	_	Convertor fod	11 / 9	0	-			<u> </u>	<u> </u>	<u> </u>	
	0	-	operation with standard	1LL8,	2,4	-		-	-	-	_	-
				1PQ8	8		-	-	-	-	_	- <sup>2</sup> )
400 \//	4		Insulation	11.4.0	0 4 6 0	-	-	-	-	-	-	
400 VA	4	-	operation	1LA8, 1LL8	2, 4, 0, 0	-	-	-	-	-	-	-
IPQ8           1L         1           Voltage at 50 Hz and 50 Hz output         400 VΔ/690 VY <sup>1)</sup> 400 VΔ         500 VΔ           500 VΔ         500 VΔ           690 VΔ <sup>1)</sup> 690 VΔ <sup>1)</sup> 400 VΔ         500 VΔ           500 VΔ         500 VΔ           690 VΔ <sup>1)</sup> 690 VΔ <sup>1)</sup> K         500 VΔ           690 VΔ <sup>1)</sup> 500 Hz output <sup>6)</sup> 400 VΔ; 50 Hz output <sup>6)</sup> 460 VΔ; 50 Hz output <sup>6)</sup> 575 VΔ; 50 Hz output <sup>6)</sup> 575 VΔ; 60 Hz output <sup>8)</sup> 575 VΔ; 60 Hz output <sup>8)</sup> Non-standard voltage and/or free Standard winding <sup>8)</sup> Non-standard winding <sup>9)</sup>			Converter-fed	1LA8,	2, 4	0	0	0	-	-	-	-
			operation with	1LL8,	6	0	0	0	0	0	-	-
			insulation	IPQ8	8	0	0	0	0	0	0	0
500 VA	5	_	Mains-fed	1LA8,	2, 4, 6, 8	0	0	0	0	0	0	0
			operation	1LL8	, , -, -							
			Converter-fed	1LA8,	2, 4, 6, 8	0	0	0	0	0	0	0
			operation with standard	1LL8, 1PQ8								
			insulation									
690 VΔ <sup>1)</sup>	0	-	Mains-fed	1LA8,	2, 4	_ 3)	_ 3)	_ 3)				
690 VA <sup>1)</sup>			operation	1LL8	6	- <sup>3)</sup>	_ 3)	_ 3)	_ 3)	_ 3)		
					8	- 3)	_ 3)	- 3)	_ 3)	- 3)	- 3)	<b>□</b> <sup>4)</sup>
	7	-	Converter-fed	1LA8,	2, 4	- <sup>5)</sup>	_ 5)	_ 5)				
			standard	1LL8, 1PQ8	6	- <sup>5)</sup>	_ 5)	- 5)	_ 5)	_ 5)		
			insulation		8	_ 3)	_ 3)	_ 3)	_ 3)	_ 3)	_ 3)	<b>□</b> <sup>4)</sup>
Voltage at 60 Hz and required ou	tput at 60	Hz					7)					
380 VA/660 VY, 50 Hz output 6)	9	L2C	All	All	All	1	✓ <sup>()</sup>	✓ <sup>()</sup>	✓ <sup>()</sup>	✓ <sup>()</sup>	<b>V</b> ()	✓ <sup>()</sup>
380 VΔ/660 VY, 60 Hz output 6)	9	L2D	All	All	All	1	1	1	1	1	1	1
440 VΔ; 50 Hz output <sup>6</sup>	9	L2R	All	All	All	✓ ✓	<i>✓</i>	/				/
440 VΔ; 60 Hz output <sup>6</sup>	9	L2X	All	All	All	<b>/</b>		<i>✓</i>	/	/	<i>✓</i>	
460 VΔ; 50 Hz output <sup>0</sup>	9	L2T	All	All	All	✓ ✓		<u> </u>		<u> </u>	<u> </u>	<u> </u>
460 VΔ; 60 Hz output 97	9	L2F	All	AII	All	J	/	<i>·</i>	<i>v</i>	/	/	<i>v</i>
575 VΔ; 50 Hz output	9	L2V	All	AII	All	J	/	<i>·</i>	<i>v</i>	/	/	<i>v</i>
575 VA; 60 HZ OUTput	9	L2M	AII	All	All	/	~	/	/	/	/	/
Stondard winding <sup>8)</sup>	quencies	I OV - or -	A11	A11	A II.	1	/	/	/	/	/	/
Standard Winding -/	9	identifica-	AII	All	All	~	~	V	<i>,</i>	~	~	<i>,</i>
		tion code										
Non-standard winding 9)	9	L1Y • and	All	All	All	1	1	1	1	1	1	1
		tion code										

- Standard version
- o Without additional charge
- This order code only determines the price of the version Additional plain text is required.
- With additional charge
- Not possible
- <sup>1)</sup> Operation of the 1LA8, 1LL8 and 1PQ8 motors with standard insulation is only possible when connected to a converter (du/dt filter or sine-wave filter).
- 2) Not possible for 8-pole motors 1LL8457-8.
- <sup>3)</sup> As special version with voltage code 9 and order code L1Y (specify output, voltage and frequency).
- <sup>4)</sup> Not possible for 8-pole motors 1LA8457-8 and 1PQ8457-8.
- <sup>5)</sup> For 1LL8 motors, as special version with voltage code 9 and order code L1Y (specify output, voltage and frequency).
- 6) Only possible with rated outputs of up to 630 kW.
- <sup>7)</sup> Not possible for 2-pole 1LL8 motors in 60 Hz version of frame size 355 and above.

#### Note:

The order codes listed above are only valid for motor series 1PQ8 with forced-air cooled motor.

For the mounted separately driven fan, the required voltage/frequency must be ordered according to order code Y81 "Separately driven fan with non-standard voltage and/or frequency" in plain text with indication of the voltage, frequency and circuit.

- <sup>8)</sup> Plain text must be specified in the order: Voltage, frequency, circuit, required rated output in kW.
  - Winding according to voltage code:
  - 0, 4, 5, 6, 7 or 8 for 1LA8 motors
  - 4, 5, 7 or 8 for 1PQ8 motors
  - 0, 5 or 6 for 1LL8 motors.
  - The rating plate will be stamped in accordance with identification code. The order code Y80 is not necessary, as it is included in the price of L8Y.
- <sup>9)</sup> Plain text must be specified in the order: Voltage between 380 V and 690 V (voltages outside this range are available on request), frequency, circuit, required rated output in kW.

10	20	On
working	working	request
days	days	request

### SIMOTICS N-compact Non-Standard Motors Supplements to order numbers and special versions

Types of construction Cast-iron series 1LA8, 1LL8, 1PQ8

#### Selection and ordering data Type of construc-Types of construction Addi-Motor category Standard delivery time (colored area) tional identifi-Motor Motor version Motor type – Frame size tion type 450 355 400 315 code cation 12th code Mains-fed operation 1LA8 position with 1118 of the Order order 1LA8 11 48 Converter-fed operation code No. and plain text if 1LL8 1P08 required 1PQ8.... Motor Motor Frame size version type 315 1L . . . . - . . . . 🔳 355 400 450 Without flange **n**<sup>1)</sup> **n**<sup>1)</sup> **n**<sup>1)</sup> IM B3 п n 1LA8 IM V6 0. R. O. R. 0. R 0. R 0 Newl Mains-fed operation 1LL8 Converter-fed 1L A8 0. R. O. R. 0. R 0. R operation 1LL8 1PQ8 O. R. 0. R. 0. R 0. R. IM V5 0 New Mains-fed 1LA8 0. R. 0. R 0. R 0. R. operation 1LL8 0. R. Converter-fed 1LA8 0. R. 0. R 0. R. operation 1LL8 O. R. 0. R. 0. R 0. R. 1PQ8 With flange acc. to DIN EN 50347 acc. to DIN 42948 A 800 ✓ 3) ✓ <sup>3)</sup> ✓ <sup>3)</sup> IM V1 1LA8 8 Mains-fed 1 without ✓<sup>1)</sup> operation 1) 1) 1 1LL8 protective cover <sup>2)</sup> ✓ <sup>3)</sup> ✓ <sup>3)</sup> ✓ <sup>3)</sup> Converter-fed 1LA8 1 operation 1LL8 1 1 1 1 ✓ <sup>3)</sup> **/** 3) **√** 3) 1PQ8 1 ✓ <sup>3)</sup> **/** 3) ✓ <sup>3)</sup> IM V1 Mains-fed 1LA8 1 4 ✓ <sup>1)</sup> with operation √ 1) √ 1) 1LL8 ⁄ protective cover <sup>4)</sup> Converter-fed 1LA8 1 1 1 1 operation 1LL8 Ϊ Ϊ 1 1 ✓ <sup>3)</sup> **√** 3) ✓ <sup>3)</sup> 1PQ8 1 IM B35 1LA8 6 Mains-fed ⁄ 1 1 1 operation 1LL8 0. R 0. R 0. R 0. R. Converter-fed 1LA8 1 1 1 1 operation 1LL8 0. R 0. R 0. R 0. R. 1PQ8 7 1 1 1

Standard version

O. R. Possible on request

With additional charge

#### Note:

With the same order number supplement in the 12th position, the respective basic type of construction will always be specified on the rating plate.

#### Ordering example:

Selection criteria	Requirement	Structure of the Order No.
Motor type	Non-standard motor specially designed for mains-fed operation, self-ventilated, cast-iron version, IP55 degree of protection	1LA8
Motor frame size/No. of poles/speed	315/6-pole/1000 rpm	1LA8315-6AB
Rated output	200 kW	
Voltage and frequency	400 V∆/690 VY, 50 Hz	1LA8315-6AB6
Туре	IM V1 with protective cover	1LA8315-6AB64

- Not possible for 2-pole 1LL8 motors in 60 Hz version for mains-fed operation.
- <sup>2)</sup> For explosion-proof 1LA8 and 1PQ8 motors, the type of construction IM V1 without protective cover is not possible.
- <sup>3)</sup> For 2-pole 1LA8 and 1PQ8 motors for mains-fed and converter-fed operation up to 500 V, the 60 Hz version is not possible.
- <sup>4)</sup> The "Second shaft extension" option, order code K16 is not possible.

Standard delivery times:

Options Cast-iron series 1LA8, 1LL8, 1PQ8

10 20 On working working request days days

Selection and ordering data	1
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Special versions	Additional identi-	Motor category		Standard delivery time (colored area)			
	fication code	Motor version	Motor	Motor type –	Frame size		
	code and		type	315	355	400	450
	plain text if	Mains-fed	1LA8	1LA8			
	loquilou	operation	1LL8	1LL8			
		Converter-fed	1LA8	1LA8			
		operation	1LL8	1LL8			
1000	-	Matan	1PQ8	1PQ8			
1PQ8	-2	version	tvpe	Frame size	055	400	450
Standardlina	-2		.215 -5	315	300	400	450
Standardline version <sup>1</sup>	B20	Mains-fed	11 48	0	0	-	_
The price reduction refers to the basic machine	520	operation	111.8	-	_	_	_
Possible range of options:		Converter-fed	1LA8	0	0	_	_
A23, A61, A72, G50, H70, H73, K09, K10, K45, K46, K57, K83, K84, K85, L00, L97, M58 (frame		operation	1LL8	-	_	_	_
size 315 only), M88, Y53			1PQ8	-	-	_	-
Motor protection							
Motor protection with PTC thermistors with	A12	All	All				
6 embedded temperature sensors for alarm and tripping 2)							
Motor temperature detection with embedded	A23	All	All	0	0	0	0
temperature sensor KTY 84-130 <sup>-3)</sup>				Ŭ	J.	-	Ŭ
Installation of 6 $PT_{3}$ 100 resistance thermometers	A61	All	All	1	1	1	1
In stator winding "	A.C.4	A 11	A 11				1
in stator winding, 3-wire circuit from auxiliary	A64	All	All	~	<i>v</i>	~	<b>v</b>
terminal box (Option M50 or M88)							
Installation of 2 PT100 screw-in resistance	A72	All	All	1	1	1	1
bearings							
Installation of 2 PT100 screw-in resistance ther-	A78	All	All	1	1	1	1
mometers for rolling-contact bearings, in 3-wire							
M88)							
Installation of 2 PT100 double screw-in resis-	A80 New!	All	All	1	1	1	1
contact bearings							
6 x PT100 Smart transmitter -40 to +140 °C	M62	All	All	1	1	1	1
Rosemount <sup>4)</sup>							
Motor connection and connection box				(5)	·		
Iwo-part plate on connection box	K06	Mains-fed	1LA8	✓ <sup>3</sup>	<u> </u>	<u></u>	
			1118	✓	✓	<u> </u>	✓
		operation	ILA8	0. R.	0. R.	0. R.	0. R.
				0. R.	0. R.	0. R.	0. R.
I Indrilled entry plate	1.01	ΔΙΙ		0.11	0. 11.	0.11.	0.11.
Connection box on BHS	K09	All	All	<u>о</u>			<u> </u>
Connection box on LHS	K10	All	All	0	0	0	0
Cable entry in direction of NDE with rotation of	N81	All	All	0	0	0	0
the terminal box console through 180°							
Cable entry in direction of DE with rotation of the	N82 New!	All	All	0	0	0	0
Cable entry from the top	N83 Maul	All	All	0	0	0	0
Botation of the terminal box console through 180°	N84 New!	All	All	0	0	0	0
Connection box on NDE	N85 New!	All	All	0. R.	0. R.	0. R.	0. R.
Connection box on top (1XB1634 connection	K11	All	All	1	1	1	1
box) <sup>/</sup>							
DIN 89280 cable gland, maximum configuration	K57	All	All	✓ 	/	/	<u>/</u>
notation of the connection box through 90°, entry from DE	K83	All	All	0	0	0	0
Rotation of the connection box through 90°,	K84	All	All	0	0	0	0
entry from NDE							
Rotation of the connection box through 180°	K85	All	All	0	0	0	0
Larger connection box (1XB1621 connection box)	M58	All	AII	<i>.</i>	_ 0)	-	-
PE connection without cable lug	Q00 //ew!	All	AIL	<i>J</i>	(8)	-	/
Larger connection box (1XB1631 connection box)	200	operation	1LA8		<b>V</b> -/	-	-
		Convertor fod		v /	( <sup>8</sup> )	0	-
		operation	1118	·		0	-
			1PQ8	· ·	✓ <sup>8)</sup>	0	
							_

On

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# SIMOTICS N-compact Non-Standard Motors Supplements to order numbers and special versions

working days	working days	On request				Ca	st-iron ser	ies 1LA8, 1	Options ILL8, 1PQ8
Special version	S		Additional identi-	Motor category		Standard deliv	very time (colore	ed area)	
			fication code -Z with order	Motor version	Motor	Motor type –	Frame size		
			code and	Malaa faal	type	315	355	400	450
			required	operation	1118	1LA8			
				Converter-fed	1LA8	1LA8			
				operation	1LL8	1LL8			
					1PQ8	1PQ8			
		1PQ8	-Z	Motor	Motor	Frame size	055		450
Motor connect	ion and conv	1L	-Z	Version	type	315	355	400	450
Larger connect	ion hox (1XB	P600 connection	M63 Maml	All	All	-	1	1	1
box) <sup>9)</sup>			1100 //ew;		7 MI		•	•	•
Subsequently re	otatable main	connection box	J12 New!	All	All	1	1	1	1
6 cables protru	ding, 1.5 m lo	ng	L48	All	All	0. R.	0. R.	0. R.	0. R.
6 cables protrue	ding, 3 m long	g 20016 (apat iran)	L49	All	All	0. R.	0. R.	0. R.	0. R.
Auxiliary conne	Ction box TXE	39016 (cast-iron)	M50 M51	All		V (	<u> </u>	<u> </u>	V (
Flance version	A660 instead	of standard version	M61	Mains-fed	ΑΠ 11 Δ8	V ./	<u> </u>	✓ _	-
10)	1000 1101000		MICT.	operation	111.8	-	-	_	_
				Converter-fed	1LA8	1	1	_	_
				operation	1LL8	-	-	-	-
					1PQ8	1	1	-	-
Auxiliary conne	ction box 1XE	33020 <sup>11)</sup>	L97	All	All	1	1	1	1
Auxiliary conne	ction box 1XE	39014 (aluminum)	M88	All	All	1	1	1	✓
Connection box	on NDE		M64	All	All	1	1	1	1
Windings and	insulation		011	Maina faal	11.4.0	,	,		
with service fac	ass 155 (F), u tor (1LA8 mo	tilized to 155 (F), tors: SF 1.1 from	CII	operation	1LA8	<i>v</i>	<u> </u>	<u> </u>	V (
frame size 400	SF 1.05; 1LL8	8 motors: SF 1.05) 12)		Converter-fed	11 A8	• -	• _	• _	-
				operation	1118	_	_	_	_
					1PQ8	_	_	_	_
Temperature cla	ass 155 (F), u	tilized to 155 (F),	C12	Mains-fed	1LA8	1	1	1	1
with increased	output (1LA8 5 % 11 L 8 mc	motors: 10 %, from		operation	1LL8	1	1	1	✓
name size 400	J 70, TELOTING	1013. 5 /8)/		Converter-fed	1LA8	-	-	-	-
				operation	1LL8	-	-	-	-
					1PQ8	-	-	-	-
Temperature cla with increased	ass 155 (F), u coolant tempe	tilized to 155 (F), erature (1LA8	C13	Mains-fed	1LA8	1	/	<u> </u>	<u> </u>
motors: 55 °C, f	from frame siz	ze 400 50 °C; 1LL8		Converter fed	1LL8	<i>✓</i>	<i>✓</i>	<b>v</b>	<i>✓</i>
motors: 50 °C)	12)			operation	111.8	_			_
					1PQ8	_	_	_	_
Temperature cla	ass 180 (H), u	itilized to 155 (F).	C14	Mains-fed	1LA8	1	1	1	1
with service fac	tor (SF 1.1) 12	2)		operation	1LL8	0. R.	0. R.	0. R.	0. R.
				Converter-fed	1LA8	1	1	1	1
				operation	1LL8	0. R.	0. R.	0. R.	O. R.
					1PQ8	✓	1	1	1
Colors and pai	nt finish								
Standard finish	in KAL 7030	stone gray	VED a or d	All	All				
Standard paint	finish in other	colors	<b>Y53</b> • and standard finish RAL	All	All	~	1	<b>v</b>	~
Special finish in	n RAL 7030 st	one gray	K26	All	All	1	1	1	1
Special finish in	other colors		<b>Y54 •</b> and special finish RAL	All	All	<b>√</b>	<b>√</b>	1	1
Unpainted (only Special techno	/ cast-iron pa	rts primed)	K23	All	All	0	0	0	0
Mounting of bra	ake (incl. the b	orake from Stromag)	H47	Mains-fed	1LA8	O. R.	0. R.	O. R.	O. R.
5		0,		operation	1LL8	-	-	-	-
				Converter-fed	1LA8	0. R.	0. R.	O. R.	0. R.
				operation	1LL8	-	-	-	-
		055, 100	11 1		1PQ8	0. R.	0. R.	0. R.	0. R.
Mounting of the 1600 Nm. 230 \	nolding brak	ie SFB 160, penzer <sup>13)</sup>	J48 New!	Mains-ted operation	1LA8		-	-	-
, 200 (	,	-		Converter-fed	11 48	-	-	-	-
				operation	111.8	-	-	_	_
					1PQ8	1	-	-	-

Standard delivery times:

10 20 On working days days

Options Cast-iron series 1LA8, 1LL8, 1PQ8

Special versions	Additional identi-	Motor category		Standard delivery time (colored area)				
	fication code	Motor version	Motor	Motor type -	Frame size			
	code and		type	315	355	400	450	
	plain text if	Mains-fed	1LA8	1LA8				
	requirea	operation	1LL8	1LL8				
		Converter-fed	1LA8	1LA8				
		operation	1LL8	1LL8				
			1PQ8	1PQ8				
1PQ8	-Z	Motor	Motor	Frame size				
1L	-Z	version	type	315	355	400	450	
Special technology (continued)								
Mounting of the holding brake SFB 160 SH,	J49 New!	Mains-fed	1LA8	1	-	-	-	
2100 Nm, 230 V, Pintsch-Bubenzer <sup>13)</sup>		operation	1LL8	-	-	-	_	
		Converter-fed	1LA8	1	-	-	-	
		operation	1LL8	-	-	-	-	
			1PQ8	1	-	-	_	
Mounting of the holding brake SFB 160 H,	J56 New!	Mains-fed	1LA8	1	1	-	-	
2500 Nm, 230 V, Pintsch-Bubenzer <sup>13)</sup>		operation	1LL8	-	-	-	-	
		Converter-fed	1LA8	1	1	-	-	
		operation	1LL8	-	-	-	-	
			1PQ8	1	1	-	-	
Mounting of the holding brake SFB 250 SH,	J57 New!	Mains-fed	1LA8	-	1	-	-	
3300 Nm, 230 V, Pintsch-Bubenzer <sup>13)</sup>		operation	1LL8	-	-	-	-	
		Converter-fed	1LA8	-	1	-	-	
		operation	1LL8	-	-	-	-	
			1PQ8	-	1	-	-	
Mounting of the holding brake SFB 250 H,	J58 New!	Mains-fed	1LA8	-	1	-	-	
4000 Nm, 230 V, Pintsch-Bubenzer <sup>13)</sup>	,,,,,,	operation	1LL8	-	-	-	-	
		Converter-fed	1LA8	_	1	_	_	
		operation	1LL8	-	-	_	-	
			1PQ8	-	1	_	_	
Mounting of the holding brake SFB 250 H,	J59 New!	Mains-fed	1LA8	-	-	1	-	
4000 Nm, 400 V, Pintsch-Bubenzer <sup>13)</sup>		operation	1LL8	-	-	-	-	
		Converter-fed	1LA8	-	-	1	-	
		operation	1LL8	-	-	-	-	
			1PQ8	-	-	1	-	
Mounting of the holding brake SFB 400 SH,	J66 New!	Mains-fed	1LA8	-	-	1	-	
5200 Nm, 400 V, Pintsch-Bubenzer <sup>13)</sup>		operation	1LL8	-	-	-	-	
		Converter-fed	1LA8	-	-	1	-	
		operation	1LL8	-	-	-	-	
			1PQ8	-	-	1	-	
Mounting of the holding brake SFB 400 H,	J67 New!	Mains-fed	1LA8	-	-	1	1	
6300 Nm, 400 V, Pintsch-Bubenzer <sup>13)</sup>		operation	1LL8	-	-	-	_	
		Converter-fed	1LA8	-	-	1	1	
		operation	1LL8	-	-	-	_	
			1PQ8	-	-	1	1	
Mounting of the holding brake SFB 630 SH,	J68 New!	Mains-fed	1LA8	-	-	-	1	
8000 Nm, 400 V, Pintsch-Bubenzer <sup>13)</sup>		operation	1LL8	-	-	-	-	
		Converter-fed	1LA8	-	-	-	1	
		operation	1LL8	-	_	-	-	
			1PQ8	-	-	-	1	
Mounting of the holding brake SFB 630 H,	J69 New!	Mains-fed	1LA8	-	_	-	1	
10000 Nm, 400 V, Pintsch-Bubenzer <sup>13)</sup>		operation	1LL8	-	-	-	-	
		Converter-fed	1LA8	-	_	-	1	
		operation	1LL8	-	-	-	-	
			1PQ8	-	_	-	1	
Prepared for mounting of the holding brake SFB	J06 New!	Mains-fed	1LA8	1	_	-	_	
tor shatt height 315 137		operation	1LL8	-	-	-	-	
		Converter-fed	1LA8	1	-	-	-	
		operation	1LL8	-	-	-	-	
			1PQ8	1	_	-	-	
Prepared for mounting of the holding brake SFB	J07 New!	Mains-fed	1LA8	-	1	-	-	
tor shatt height 355 137		operation	1LL8	-	-	-	-	
		Converter-fed	1LA8	-	1	-	-	
		operation	1LL8	-	_	-	-	
			1PQ8	-	1	-	-	

On

10

# SIMOTICS N-compact Non-Standard Motors Supplements to order numbers and special versions

working days	working days	On request				Ca	ist-iron se	eries 1LA8,	Options 1LL8, 1PQ8
Special versio	ns		Additional identi-	Motor category		Standard deli	very time (colo	ored area)	
			-Z with order	Motor version	Motor type	Motor type –	Frame size	400	450
			code and plain text if	Maine fod	11 / 2	315	355	400	450
			required	operation	1118	1LL8			
				Converter-fed	1LA8	1LA8			
				operation	1LL8	1LL8			
					1PQ8	1PQ8			
		1PQ8	-z	Motor	Motor type	Frame size	055	100	450
Special techn	ology (continu	1L	-2	Vorbion	typo	315	355	400	450
Prepared for n	nounting of the	holding brake SEB	JO8 Naml	Mains-fed	1LA8	_	_	J	_
for shaft heigh	t 400 <sup>13)</sup>		, vew;	operation	1LL8	_	-	-	_
				Converter-fed	1LA8	-	-	1	-
				operation	1LL8	-	-	_	-
					1PQ8	-	-	1	-
Prepared for n	nounting of the	holding brake SFB	J09 New!	Mains-fed	1LA8	-	-	-	1
for shaft heigh	t 450 <sup>10</sup>			operation	1LL8	-	-	-	-
				Converter-fed	1LA8	-	-	-	1
				operation	1LL8	-	-	-	-
Mounting of L	861.000.000	atom oulos aposdor	470	Maina fad	1PQ8	-	_	_	✓
Mounting of LL	- 661 900 2201	otary pulse encoder	H70	operation	111.8	_			_
				Converter-fed	11 A8				
				operation	1LL8	· ✓	· ·		✓ ✓
					1PQ8	1	1	1	1
Mounting of H	OG 10 D 1024	l rotary pulse	H73	Mains-fed	1LA8	-	-	-	-
encoder				operation	1LL8	-	-	-	-
				Converter-fed	1LA8	1	1	1	1
				operation	1LL8	1	1	1	✓
					1PQ8	1	1	1	1
Prepared for n	nounting of LL	861 900 220	H78	Mains-fed	1LA8	-	-	-	-
			Converter fod	1LL8	-	-	-	-	
				operation	111.8	V /	<u> </u>		V /
					1PO8	v ./	<u> </u>		<u>ر</u>
Prepared for n	nounting of HO	G 10 D 1024 I	H80	Mains-fed	1LA8	-	-	_	_
				operation	1LL8	_	_	-	_
				Converter-fed	1LA8	1	1	1	1
				operation	1LL8	1	1	1	1
					1PQ8	1	1	1	1
Mounting of H	OG10 DN 2048	3 incremental	H83 //ew!	Mains-fed	1LA8	-	-	-	-
encoder					1LL8	-	-	-	-
				Converter-ted operation	1LA8	1			<u> </u>
					1209				
Mounting of H	0G11 DN 2048	3 incremental	H84 Maul	Mains-fed	11 A8	• _	• _	• _	• _
encoder	C G I I D I I 2040	oromontur	//ed/	operation	1LL8	-	_	-	-
				Converter-fed	1LA8	1	1	1	1
				operation	1LL8	1	1	1	1
					1PQ8	1	1	1	1
Mounting of LL	_861 incremen	tal encoder	H85 New!	Mains-fed	1LA8	-	-	-	-
(2048 puises)				operation	1LL8	-	-	-	-
				Converter-fed	1LA8				
				oporation	1LL8	1	1		<i>✓</i>
Mounting of L	861900 222 10	tary nulse encodor	H16 Mart	Mains-fed	11 48	-	-	-	-
with Advanced	Diagnostic Sy	/stem	o /vew!	operation	111.8	_	_	_	-
				Converter-fed	1LA8	1	1	1	/
				operation	1LL8	1	1	1	1
					1PQ8	1	1	1	1
HOG 11 DN 10	024   rotary pu	se encoder	H88 New!	Mains-fed	1LA8	-	-	-	-
(16 mm) with s	special anti-cor	rosion protection		operation	1LL8	-	-	-	-
				Converter-fed	1LA8	1	1	1	1
				operation	1LL8	/			
					1PQ8	/		1	1

Options

Standard delivery times:

10 20 On working working request days days

Cast-iron series 1LA8, 1LL8, 1PC	8				days	days	Toquoot
Special versions	Additional identi-	- Motor category		Standard delivery time (colored area)			
	-Z with order	Motor version	Motor type	Motor type –	Frame size	400	450
	code and plain text if	Maina fad		315	355	400	450
	required	operation	1118	1118			
		Converter-fed	1LL0	1LA8			
		operation	1LL8	1LL8			
			1PQ8	1PQ8			
1PQ8	-Z	Motor	Motor	Frame size			
1L	-Z	version	type	315	355	400	450
Special technology (continued)							
Mounting of HOG 10 DN 1024 I rotary pulse	<b>Y74</b> • New!	Mains-fed	1LA8	-	-	-	-
terminal box protection against humidity	required	operation	1LL8	-	-	-	-
	speed	Converter-fed	1LA8	/			/
	rpm	operation	1LL8	1	<u> </u>	<u> </u>	<u> </u>
Mounting of LICC 10 DN 1024   rotary pulse	V76 a // /	Maina fad	1LA0	✓	✓	<i>v</i>	<b>v</b>
encoder + centrifugal switch, (speed rpm),	and	operation	1LA8	-	_	_	
terminal box protection against dust	required	Converter-fed	1LLO	-	-	-	-
	speed rpm	operation	111.8	v ./	<u> </u>		<u> </u>
			1PO8	v ./			<u> </u>
Mounting of HOG 10 D 1024 I with terminal	N05 Maul	Mains-fed	11 A8	-	-	_	_
box/protection against dust	1000 //ew/	operation	1LL8	_	_	_	_
		Converter-fed	1LA8	1	1	1	1
		operation	1LL8	1	1	1	1
			1PQ8	1	1	1	1
Mounting of HOG 10 DN 1024 I with terminal	N06 New!	Mains-fed	1LA8	-	-	-	-
box/protection against dust (zero signal)		operation	1LL8	-	-	-	-
		Converter-fed	1LA8	1	1	1	1
		operation	1LL8	1	1	1	1
			1PQ8	1	1	1	1
Mounting of HOG 10 DN 1024   with terminal	N08 New!	Mains-fed	1LA8	-	-	-	-
Mounting of HOG 10 DN 1024 I with terminal box/protection against humidity (zero signal)			1LL8	-	-	-	-
		Converter-fed	1LA8	1	1	1	<u> </u>
			1DO0	V (	<u> </u>	<u> </u>	<u> </u>
Mounting a special type of rotary pulse encoder	<b>V70</b> • and	Mains-fed	11 48	✓ 	✓ 	✓ 	✓
Mounting a special type of rotary pulse encode	encoder	operation	111.8	_	_	_	_
	designation	Converter-fed	11 A8	0 B	0 B	0 B	O B
		operation	111.8	0. R.	0. R.	0. R.	0. R.
			1PQ8	0. R.	0. R.	0. R.	0. R.
Mechanical design and degrees of protection							
Low-noise version for 2-pole motors with	K37	Mains-fed	1LA8	1			
clockwise direction of rotation		operation	1LL8	1	0	0	0
clockwise direction of rotation		Converter-fed	1LA8	1			
		operation	1LL8	1	0	0	0
			1PQ8	-	-	-	-
Low-noise version for 2-pole motors with	K38	Mains-fed	1LA8	1			
Low-noise version for 2-pole motors with counter-clockwise direction of rotation			1LL8	1	0	0	0
		Converter-ted	1LA8	V			
			1DO9	✓	0	0	0
IP65 degree of protection	K50	Mains-fed	11 48	-	-		
	100	operation	111.8	-	-	-	-
		Converter-fed	1LA8	1	1	1	1
		operation	1118	_	_	-	_
			1PQ8	1	1	1	1
IP56 degree of protection (non-heavy-sea)	K52	Mains-fed	1LA8	1	1	1	1
		operation	1LL8	-	-	-	-
		Converter-fed	1LA8	1	1	1	✓
		operation	1LL8	-	-	-	-
			1PQ8	O. R.	0. R.	O. R.	0. R.
Rust-resistant screws (externally) 14)	M27	All	All	1	1	1	1

### SIMOTICS N-compact Non-Standard Motors Supplements to order numbers and special versions

10 working	20 working	On		Su	ppiements	5 10 0	ruer nur	nbers ar	ia speci	Options
days	days	request					С	ast-iron se	eries 1LA	8, 1LL8, 1PQ8
			A _1 _1:+:	al falanati	Materia anterioren e		Oto is also is all a	li		
Special version	fication	code	Motor category	Motor	Standard delivery time (colored area) Motor type – Frame size					
			-Z with c	order d		type	315	355	400	450
			plain tex	ct if	Mains-fed	1LA8	1LA8			
			roquiroc			1LL8	1LL8			
					operation	1LA8	1118			
						1PQ8	1PQ8			
		1PQ8	-z		Motor	Motor	Frame size			
		1L	-Z		version	type	315	355	400	450
Coolant tempe	erature and sit	e altitude	D02	<u> </u>	Maina fad	11 4 9	1	/	/	
Coolant temper	ature -50 to +4	40 °C	D02	New!	operation	1LA8	✓ _	✓ _	✓ _	✓ _
					Converter-fed	1LA8	1	✓	<i>✓</i>	✓
					operation	1LL8	-	-	-	-
						1PQ8	1	1	1	✓
Coolant temper	rature -40 to +4	40 °C	D03		Mains-fed	1LA8	✓	1	1	1
					Converter fed	1LL8	-	-	-	-
					operation	1118	✓ _	✓ _	-	✓
						1PQ8	1	1	1	1
Coolant temper	rature –30 to +4	40 °C	D04		Mains-fed	1LA8	1	1	1	1
					operation	1LL8	-	-	-	-
					Converter-fed	1LA8	1	1	1	1
						1EL8	-	-	-	-
Coolant temper	ature 45 °C. de	erating 4 % <sup>15)</sup>	D11		All	All	0	0	0	0
Coolant temper	ature 50 °C, de	erating 8 % <sup>15)</sup>	D12		All	All	0	0	0	0
Coolant temper	rature 55 °C, de	erating 13 % <sup>15)</sup>	D13		All	All	0	0	0	0
Coolant temper	rature 60 °C, de	erating 18 % <sup>15)</sup>	D14		All	All	0	0	0	0
Designs in acc	cordance with	standards and sp MG1-12 <sup>14</sup>		ns	All	All	1	1	1	/
Design accordi	ing to UL with "	Recognition Mark	D30		All	All	✓ ✓	<u> </u>	<u> </u>	 ✓
China Energy E	Efficiency Label	1 <sup>6)</sup>	D34	New!	Mains-fed	1LA8	0	0	-	-
					operation	1LL8	0	0	-	-
					Converter-fed	1LA8	-	-	-	-
					operation	1LL8	-	-	-	-
Ex certification	for Russia –		D35	Maml	Mains-fed	11 48	-			
only in combina	ation with order	codes		11000;	operation	1LL8	-	-	-	-
10135, 10139, 10172					Converter-fed	1LA8	<b>√</b>	1	1	1
					operation	1LL8	-	-	-	-
		al a cara a constala	Dac		Maina faal	1PQ8	1		<u> </u>	<i></i>
94/9/EC (ATEX)	ement in accor of an indepen	dance with dent body for	D36	New!	operation	1LA8	✓ _	✓ 	✓ 	✓
Zone 2 motors	(Ex nA)	-			Converter-fed	1LA8	-			
					operation	1LL8	-	-	_	-
						1PQ8	✓	1	1	1
IEC Ex certifica	ite – only in cor 72 and M73	mbination with	D37	New!	Mains-fed	1LA8	✓	1	1	1
order codes in					Converter fod	1LL8	-	-	-	-
					operation	1118	• -	-	-	-
						1PQ8	O. R.	0. R.	0. R.	O. R.
Canadian regul	lations (CSA)		D40		All	All	✓	1	1	✓
Pump drives for	or sea water d	esalination plants	S							
Commissioning Siemens 17)	of the classific	cation society by	E88	New!	All	All				
Commissioning third party 17)	of the classific	cation society by	E89	New!	All	All	1	1	1	1
Pump drive for certified accord	sea water desa ding to Lloyd's	alination plants Register <sup>17)</sup>	E90	New!	All	All	1	1	1	$\checkmark$

Standard delivery times:

10 20 On working days days

Ontions	
Cast_iron sories 11 A8 11 L8 1DO	0

Special versions	Additional identi-	Motor category		Standard delivery time (colored area)			
	fication code -Z with order	Motor version	Motor type	Motor type – 315	Frame size 355	400	450
	plain text if	Mains-fed	1LA8	1LA8			
	requirea	operation	1LL8	1LL8			
		Converter-fed	1LA8	1LA8			
		operation	1LL8	1LL8			
1009	7	Motor	1PQ8 Motor	1PQ8			
11 -	-2	version	type	315	355	400	450
Design for Zones according to ATEX <sup>18)</sup>	-				000	100	100
Design for Zone 2 for mains-fed operation	M72	Mains-fed	1LA8	1	1	1	1
Ex nA II T3 according to IEC/EN 60079-15 <sup>19) 20)</sup>		operation	1LL8	-	-	-	-
		Converter-fed operation	1LA8	-	-	-	-
			1LL8	-	-	-	-
Design for Zone 2 for convertor fod operation	M72	Maina fad	1PQ8	-	_	_	-
with derating Ex nA II T3 according to	W173	operation Converter-fed operation	111.8	_		_	_
IEC/EN 60079-15 19) 20) 21)			1L A8	O B	0 B	0 R	O B
			1LL8	-	-	-	-
			1PQ8	O. R.	0. R.	O. R.	O. R.
Design for Zone 22 for non-conductive dust	M35	Mains-fed	1LA8	1	1	1	1
(IP55) for mains-fed operation 20		operation	1LL8	-	-	-	-
		Converter-fed	1LA8	-	-	-	-
		oporation	1LL8	-	-	-	-
Design for Zone 22 for non-conductive dust	M39	Mains-fed	11 A8	-			
(IP55) for converter-fed operation,	MUU	operation	111.8	_	_	_	_
with derating <sup>19/20</sup>		Converter-fed	1LA8	1	1	1	1
		operation	1LL8	-	-	-	-
			1PQ8	-	-	_	-
VIK version (comprises Zone 2 for mains-fed	K30	Mains-fed	1LA8	1	1	-	-
plate) <sup>20) 22)</sup>		operation Converter-fed operation	1LL8	-	-	-	-
,			1LA8	O. R.	0. R.	_	_
				_		_	
Ex nA II on VIK rating plate	C27	Mains-fed operation Converter-fed operation	1LA8	- /		_	_
	02.		1LL8	-	_	_	_
			1LA8	O. R.	0. R.	-	-
			1LL8	-	-	-	-
			1PQ8	-	-	-	-
Bearings and lubrication	0	A 11					
Measuring nipple for SPM shock pulse measurement for bearing inspection	G50	All	All	<i>✓</i>	<i>✓</i>	1	<i>✓</i>
Shock pulse measurement, fixed sensor and distributor box	H05 New!	All	All	1	1	1	1
Shock pulse measurement, complete alarm box 23)	H07 New!	All	All	1	1	1	1
Automatic re-lubricating device EasyMatic <sup>24)</sup>	N30 New!	Mains-fed	1LA8	1	1	1	1
		Converter-fed operation	1LL8	-	-	_	-
			1LA8	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
			1PO8	-			
Automatic re-lubricating device STAB CONTROL	N31 Noul	Mains-fed	11 A8	v 	<u> </u>	<u> </u>	<u> </u>
TIME M120 $^{25)}$	iiii //ew;	Converter-fed operation	1LL8	-	_	_	_
			1LA8	1	1	1	1
			1LL8	-	-	-	-
			1PQ8	1	1	1	1
Automatic re-lubricating device STAR CONTROL IMPULSE I 250 <sup>26)</sup>	N32 New!	Mains-fed	1LA8	1	1	1	1
		Converter-fed operation	1LL8	-	-	-	-
			1LA8	-	-	-	-
			1PQ8	1	- -	- -	- -
Bearing design for increased cantilever forces	K20	Mains-fed operation Converter-fed	1LA8	1	✓	-	_
27)			1LL8	-	-	-	-
			1LA8	1	1	-	-
		operation	1LL8	-	-	-	-
			1PQ8	1	1	-	-

On

10

# SIMOTICS N-compact Non-Standard Motors Supplements to order numbers and special versions

working days	working days	On request					Ca	st-iron ser	ies 1LA8, <sup>-</sup>	Options 1LL8, 1PQ8
Special versions		Additional identi- fication code - <b>Z</b> with order code and plain text if required	Motor category Motor version	Motor	Standard deli Motor type –	very time (colore Frame size	ed area)			
			Mains-fed operation	1LA8 1LL8	315 1LA8 1LL8	355	400	450		
			Converter-fed operation	1LA8 1LL8 1PQ8	1LA8 1LL8 1PQ8					
		1PQ8 1L	-Z -Z		Motor version	Motor type	Frame size 315	355	400	450
Balance and v	ibration sever	ity								
Vibration severi	ity level B		K02		All	All	1	1	1	✓
Full-key balanc	ing		L68		All	All	1	1	1	1
Shaft and roto	r									
Second standa	rd shaft extens	sion <sup>28)</sup>	K16		Mains-fed	1LA8	1	1	1	1
					operation	1LL8	1	1	1	1
					Converter-fed	1LA8	1	1	1	1
					operation	1LL8	1	1	1	1
						1PQ8	-	-	-	-
Shaft extension without feather	with standard keyway	dimensions,	K42		All	All	1	1	1	1
Non-standard c	cylindrical shaf	t extension	Y55 • ar identifica code	id ation	All	All	~	1	1	<i>✓</i>
Motol external f	fon		K25	-	Maina fad	11 / 0	1	/	1	/
Ivietal external i	Iall		K35	operation	111.0	V /	<u> </u>	<u> </u>	V 	
					Converter fed	1LLO 1L A 9	V (	<u> </u>	<u> </u>	V 
					operation	1110	v /	<u> </u>	V (	V /
						1009	<b>v</b>	V	V	<b>v</b>
Anti condoncat	ion hoating for	220.1/	K/15		All		-			_
Anti-condensat	ion heating for	115 V	K45		All		v /	<u> </u>	×	v 
Anti-condensat	ion heating for	115 V	1.09	<u> </u>	All		v /	<u> </u>	<u> </u>	V /
Anti-condensat	ion heating for	400 V	1.00	New			v /	<u> </u>	v /	v /
Sheet metal far		500 V	136	Ivew;	Mains-fed	11 48	• 	-	• _	• 
Separately driven fan with non-standard voltage and/or frequency <sup>29)</sup>			250		operation	111.8	-			_
				Converter-fed	11 48	_	_	_	-	
			Mains-fed	1118		•	•			
		<b>Y81</b> • and identification		1PO8	-		_	-		
				11 A8	_	_	_	_		
				1118	_	_	_	_		
			code		Converter-fed operation	1LA8	_	_	_	_
						1LL8	_	_	_	_
					1PQ8	1	1	1	1	
Rating plate a	nd extra rating	plates								
Second rating	plate, loose		K31		All	All	1	1	1	1
Extra rating pla rating plate dat	te or rating pla	te with deviating	Y80 • an identifica code	id ation	All	All	<b>√</b>	1	1	✓
Extra rating pla	te with identific	cation codes	<b>Y82 •</b> an identification code	id ation	All	All	✓	1	1	✓
Extension of li	iability for def	ects <sup>30)</sup> (percentage	e additior	ial charg	e refers to the basi	c machin	e)			
Extension of lia 24 months	bility for defect	ts by 12 to	Q80	New!	All	All	1	✓	1	1
Extension of lia 30 months <sup>31)</sup>	bility for defect	ts by 18 to	Q81	New!	All	All	1	1	1	1
Extension of lia 36 months <sup>31)</sup>	bility for defect	ts by 24 to	Q82	New!	All	All	1	1	1	1
Extension of lia 42 months 31)	bility for defect	ts by 30 to	Q83	New!	All	All	1	1	1	1
Extension of lia 48 months 32)	bility for defect	ts by 36 to	Q84	New!	All	All	1	✓	1	1
Extension of lia 60 months 32)	bility for defect	ts by 48 to	Q85	New!	All	All	1	1	1	1

Standard delivery times: 20

working

days

On

request

10

working

days

Options Cast-iron series 1LA8, 1LL8, 1PQ8

Special versions	Additional identi-	Motor category		Standard delivery time (colored area)			
	-Z with order	Motor version	Motor	Motor type – I	Frame size	100	450
	code and plain text if		11 4 0	315	355	400	450
	required	operation	1118	1118			
		Converter-fed operation	1LA8	1LA8			
			1LL8	1LL8			
			1PQ8	1PQ8			
1PQ8	-Z	Motor	Motor	Frame size			
1L	-Z	version	type	315	355	400	450
Packaging, safety notes, documentation and to	est certificates <sup>33)</sup>						
Document – Electrical data sheet	B31	All	All	1	1	1	1
Document – Order dimension drawing	B32	All	All	0	0	0	0
Document – Standard test schedule	B34 //ew/	All	All	✓ ○ □	<u> </u>	✓ ○ □	✓
Document - Load characteristics	B37	All	All	U. R.	U. R.	U. R.	U. R.
Generated once	D43 //ew!	All		v	×	<u> </u>	<u> </u>
Document – Production schedule: Updated every two weeks	B44 //ew!	All	All	<b>v</b>	<i>✓</i>	<i>✓</i>	<i>✓</i>
Document – Production schedule: Updated monthly	B45 <i>New!</i>	All	All	<i>✓</i>	1	<i>✓</i>	1
Standard test (routine test) with acceptance	F01	All	All	✓	1	1	1
Visual acceptance and report handover with acceptance	F03	All	All	✓	1	1	1
Temperature-rise test, without acceptance	F04	All	All	1	1	1	1
Temperature-rise test with acceptance	F05	All	All	1	1	1	1
Noise measurement in no-load operation, no noise analysis, without acceptance	F28	All	All	✓	1	1	1
Noise measurement in no-load operation, no noise analysis, with acceptance	F29	All	All	1	1	1	1
Noise measurement in no-load operation, with noise analysis, without acceptance	F62	All	All	✓	1	✓	1
Noise measurement in no-load operation, with noise analysis, with acceptance	F63	All	All	√	1	1	1
Recording of current and torque curves with torque metering shaft during starting, without accentance	F34	Mains-fed	1LA8	1	1	1	1
		operation	1LL8	1	1	1	1
		Converter-fed operation	1LA8	-	-	-	-
			1LL8	-	-	-	-
			1PQ8	-	-	-	-
Recording of current and torque curves with torque metering shaft during starting	F35	Mains-fed	1LA8	<i>√</i>	<u></u>	<i></i>	/
with acceptance			1LL8	<i>✓</i>	<i>✓</i>	<i>✓</i>	<b>√</b>
		Converter-ted operation	1LA8	-	-	-	-
			1DO9	-	-	-	-
Massurement of locked reter torque and ourrent	E50		11 / 9	-	-	-	-
without acceptance	1 52	operation	111.8	v /	V	v 	v /
		Converter-fed operation	11 A8	-	-	-	-
			1118	_	_	_	_
			1PQ8	_	_	_	_
Measurement of locked-rotor torque and current,	nt, F53	Mains-fed	1LA8	1	✓	1	1
with acceptance		operation	1LL8	1	1	1	1
		Converter-fed operation	1LA8	-	-	-	-
			1LL8	-	-	-	-
			1PQ8	-	-	-	-
Type test with heat run for horizontal motors, without acceptance	F82	All	All	<b>√</b>	1	1	<b>√</b>
Type test with heat run for horizontal motors, with acceptance	F83	All	All	1	1	/	1
Type test with heat run for vertical motors, without acceptance	F92	All	All	1	1	1	1
Type test with heat run for vertical motors, with acceptance	F93	All	All	✓	1	1	1

Standard version

Without additional charge 0

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

Options Cast-iron series 1LA8. 1LL8. 1PQ8

#### Ordering example:

Selection criteria	Requirement	Structure of the Order No.		
Motor type	Non-standard motor specially designed for mains-fed operation, self-ventilated, cast-iron version, IP55 degree of protection	1LA8		
Motor frame size/No. of poles/speed	315/6-pole/1000 rpm	1LA8315-6AB		
Rated output	200 kW			
Voltage and frequency	400 VΔ/690 VY, 50 Hz	1LA8315-6AB6		
Туре	IM V1 with protective cover	1LA8315-6AB64		
Special versions	Metal external fan	1LA8315-6AB64-Z K35		
	Extension of liability for defects by 12 to 24 months	1LA8315-6AB64-Z K35+Q10		

- <sup>1)</sup> Only for 1LA8 motors in 4-pole version, IM B3 type of construction, voltage 400 VΔ/690 VY or 500 VΔ (without special insulation). Only the following order codes can be ordered in combination with the Standardline: A23, A61, A72, G50, H70, H73, K09, K10, K45, K46, K57, K83, K84, K85, L00, L97, M58 (frame size 315 only), M88, Y53.
- <sup>2)</sup> Evaluation with appropriate tripping unit (see Catalog IC 10) is recommended.
- <sup>3)</sup> The standard thermistors are omitted. If PTC thermistors are required as well as KTYs or PT100s, this must be specified in the order in plain text. A combination of A12 and A23 or A12 and A61 is available on request for an additional charge.
- <sup>4)</sup> Only possible in combination with the stainless steel auxiliary terminal box (order code M51).
- <sup>5)</sup> Only possible in combination with the larger connection boxes 1XB1621 or 1XB1631 (order codes M58 or L00).
- <sup>6)</sup> For 1LA8 and 1PQ8 motors, only possible in combination with the larger connection boxes 1XB1621 or 1XB1631 (order codes M58 or L00).
- <sup>7)</sup> Combination with the order codes M88 and M50 is not possible. The 1XB1634 connection box is rotatable by 4 x 90°. Cable entry is from NDE or the delivery position. Dimension drawings available on request.
- <sup>8)</sup> For motors 1LA8357-2, 1LA8357-4, 1PQ8357-2 and 1PQ8357-4, connection box 1XB1631 is supplied in the standard version.
- <sup>9)</sup> For 1LA8357-2, 1PQ8357-2, 1LA8357-4, 1PQ8357-4, 1LA8 and 1PQ8 motors frame size 400 and 450, terminal box 1XB9600 can be ordered as the next largest connection box. For 1LA8353 to 1LA8355 and 1PQ8353 to 1PQ8355 as well as for 1LA8356-6, 1LA8357-6 and 1LA8357-8 and with 1PQ8356-6, 1PQ8357-6 and 1PQ8357-8, only terminal box 1XB1631 can be ordered as the next largest connection box.
- <sup>10)</sup> Only possible for 4-pole and 6-pole 1LA8 and 1PQ8 motors with frame size 315 or 355 in versions IM V1 or IM B35.
- <sup>11)</sup> VIK version is not possible for 1LA8 motors.
- <sup>12)</sup> Utilization according to temperature class 180 (H) is not possible. All 400 V versions are available upon request only. Due to the rated current, for frame size 400 (2-pole and 4-pole) and 450 (all numbers of poles), a larger connection box with the type designation 1XB9600 is provided in some cases which is part of the order code C14.
- <sup>13)</sup> Only possible for horizontal version IM B3 other versions (such as type, rated voltage, mounting position) on request.
- <sup>14)</sup> For 1PQ8 motors, only possible for the main motor not for the separately driven fan motor.

- <sup>15)</sup> Site altitude 1000 m above sea level.
- <sup>16)</sup> For 1LA8 motors in mains-fed operation up to 315 kW.
- <sup>17)</sup> Sector solution for pump drives certified according to Lloyds Register LR-T-3600 (Rev. 9 of August 2008), (Electric Motors higher than 100 hp) and LR-T-3601 (Rev. 8 of August 2008), (Vertical Electric Motors higher than 100 hp). Only combination of order codes E88 + E90 or E89 + E90 can be ordered.
- <sup>18)</sup> Explosion-proof encoders are available on request.
- <sup>19)</sup> These motors do not have a rated voltage range stamped on the rating plate.
- <sup>20)</sup> For 1LA8 motors, with options K30, M35, M39, M72 and M73, the metal external fan order code K35 must also be ordered.
- <sup>21)</sup> In the order, the "Speed range and torque characteristic" must be specified in plain text. A system test is necessary for *M* = constant.
- <sup>22)</sup> For 2-pole 1LA8 motors of frame size 315, the low-noise version is also required. Order code K37 or K38 and, in addition, the metal external fan order code K35. Note the specified output and dimensions. For 1LA8353 to 1LA8357 motors, the connection box cannot be rotated by 4 x 90°.
- 23) Does not apply to explosion-proof motors.
- <sup>24)</sup> Only approved for 1LA8 and 1PQ8 motors of the IM V1 type of construction, maintenance interval 2 years.
- <sup>25)</sup> Only approved for 1LA8 and 1PQ8 motors of the IM B3 type of construction, maintenance interval 1 year.
- <sup>26)</sup> Only approved for 1LA8 and 1PQ8 motors of the IM B3 type of construction, maintenance interval 2 years.
- 27) Not possible for 2-pole motors and motors of vertical type of construction.
- <sup>28)</sup> Please inquire in the case of 2-pole motors and motors in vertical type of construction.
- $^{29)}$  When ordering, specify in plain text: Voltage, frequency and circuit.
- <sup>30)</sup> Extension is only valid in the case of proper use. For long-term storage > 6 months, a special agreement is necessary.
- <sup>31)</sup> Registration and declaration of the installation site.
- <sup>32)</sup> Additional condition: Simultaneous completion of a maintenance contract subject to charge, with regular inspection.
- <sup>33)</sup> Type testing is also performed for converter-fed operation.