

Selection and ordering data

The article number consists of a combination of digits and letters and is divided into three hyphenated blocks to provide a better overview, e.g.:

**1LE5504-3AA63-4AA2-Z
H00**

The first block (positions 1 to 7) identifies the motor type. The second block (positions 8 to 12) defines the motor frame size and length, the number of poles and power and in some cases the frequency/voltage. In the third block (positions 13 to 16), the frequency/voltage, type of construction and further design features are encoded.

For deviations in the second and third block from the catalog codes either **Z** or **90** should be used as appropriate.

Ordering data:

- Complete Article No. and order code(s) or plain text
- If a quotation has been requested, please specify the quotation number in addition to the Article No.
- When ordering a complete motor as a spare part, please specify the works serial No. for the previously supplied motor as well as the Article No.

Structure of the Article No.:	Position:	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	
1st to 4th position: Digit, letter, letter, digit	• Self-ventilated by fan mounted on and driven by the rotor • Forced-air cooled by air flow from the fan to be driven with option extension F90	1	L	E	5															
5th position: Digit	Cast-iron housing Basic Line Cast-iron housing Performance Line					5 6														
6th to 7th position: 2 digits	SIMOTICS SD motors with IE3 Premium Efficiency SIMOTICS SD Add motors with IE3 Premium Efficiency SIMOTICS SD motors with IE4 Super Premium Efficiency SIMOTICS SD Add motors with IE4 Super Premium Efficiency SIMOTICS SD Pro motors with IE3 Premium Efficiency						0 3 0 3 8	3 3 4 4 3												
8th, 9th and 11th position: Digit, letter, digit	Motor frame size (frame size as a combination of shaft height and overall length, encoded)									3 4	A B		3 8							
10th position: Letter	No. of poles A: 2-pole B: 4-pole C: 6-pole D: 8-pole										A B C D									
12th and 13th position: 2 digits	Voltage, circuit and frequency (encoded with two digits, 9-0 requires order code M.. (e.g. M1Y))													0 9	0 7					
14th position: Letter	Type of construction (encoded with A ... V)																A V			
15th position: Letter	Motor protection (encoded with A ... Z; Z requires order code Q.. (e.g. Q3A))																	A Z		
16th position: Digit	Terminal box position Terminal box base left with terminal box at the top Terminal box base right with terminal box at the top Terminal box base left with terminal box 45° Terminal box base right with terminal box 45° Terminal box on right-hand side Terminal box on left-hand side																		0 1 2 3 5 6	
	Special order versions: encoded – additional order code required not encoded – additional plain text required																			- Z

Ordering example

Selection criteria	Requirement	Structure of the Article No.
Motor type 1LE5	Standard motor with IE4 Super Premium Efficiency, self-ventilated, IP55 degree of protection, cast-iron version, Performance Line	1LE5604-■■■■■-■■■■■
Motor frame size/No. of poles/Speed	315 L/2-pole/3000 rpm	1LE5604-3AA6■■■■■
Rated power	250 kW	
Voltage and frequency	400 VΔ/690 VY, 50 Hz	1LE5604-3AA63-4■■■■■
Type of construction with special version	IM V5 with protective cover ¹⁾	1LE5604-3AA63-4C■■■■■-Z H00
Motor protection	1 or 3 PTC thermistors – for tripping (2 terminals)	1LE5604-3AA63-4CB■■■■■-Z H00
Terminal box position	Terminal box base left with terminal box 45°	1LE5604-3AA63-4CB2-■ H00

¹⁾ Standard without protective cover – the protective cover is defined with order code **H00** and must be ordered in addition to the Article No. with **-Z** and this order code.

Synchronous reluctance motors for SINAMICS converters – VSD4000 line

Orientation

Article number code

Selection and ordering data

Ordering example:

Selection criteria	Requirement	Structure of the Article No.
1FP10 motor type	Standard motor for converter operation SIMOTICS GP VSD4000 line, aluminum version, rated power at $P_{rated 50}$ with 15 kW, $P_{rated 60}$ with 17.3 kW or $P_{rated 87}$ with 23.5 kW	1FP1014-■■■■■-■■■■■
Motor frame size	160 L	1FP1014-1D■4■-■■■■■
No. of poles	4-pole	1FP1014-1DB4■-■■■■■
Motor voltage and frequency	380 V 3 AC, 50 Hz/440 V 3 AC, 60 Hz/380 V 3 AC, 87 Hz	1FP1014-1DB42-1■■■■■
Type of construction with special version	IM V5 with protective cover ¹⁾	1FP1014-1DB42-1C■■■-Z H00
Motor protection	Motor protection with PTC thermistors with 1 or 3 embedded temperature sensors for tripping	1FP1014-1DB42-1CB■-Z H00
Terminal box position	Terminal box right (viewed from DE)	1FP1014-1DB42-1CB5-Z H00

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¹⁾ Standard without protective cover – the protective cover is defined with order code **H00** and must be ordered in addition to the Article No. with **-Z** and this order code.

Standard induction motors optimized for converter operation – VSD10 line

Orientation

Article number code

Selection and ordering data

The article number consists of a combination of digits and letters and is divided into three hyphenated blocks to provide a better overview, e.g.:

**1LE1592-1DB42-1GF4-Z
H00**

The first block (positions 1 to 7) identifies the motor type. The second block (positions 8 to 12) defines the motor frame size and length, the number of poles and power and in some cases the frequency/voltage. In the third block (positions 13 to 16), the frequency/voltage, type of construction and further design features are encoded.

For deviations in the second and third block from the catalog codes either **Z** or **90** should be used as appropriate.

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Structure of the Article No.:		Position:	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16
1st to 4th position: Digit, letter, letter, digit	Self-ventilated by fan mounted on and driven by the rotor		1	L	E	1														
5th position: Digit	SIMOTICS GP – aluminum housing SIMOTICS SD – cast-iron housing						0 5													
6th position: Digit	VSD10 line motor (motor for converter operation)							9												
7th position: Digit	Standard efficiency class								2											
8th and 9th position: Digit, letter	Motor frame size (frame size as a combination of shaft height and overall length, encoded)										1 ... 3	A ... D								
10th position: Letter	No. of poles A: 2-pole B: 4-pole												A B							
11th position: Digit	Laminated core length												0 1 2 3 4 5							
12th and 13th position: 2 digits	Voltage and frequency ¹⁾ 380 V 3 AC, 50 Hz/440 V 3 AC, 60 Hz/380 V 3 AC, 87Hz 480 V 3 AC, 50 Hz/550 V 3 AC, 60 Hz/480 V 3 AC, 87Hz 660 V 3 AC, 50 Hz/660 V 3 AC, 87 Hz Non-standard winding, requires order code M.. (e.g. M1Y)												2 2 3 9		1 6 3 0					
14th position: Letter	Type of construction (encoded with A ... V)																	A ... V		
15th position: Letter	Motor protection (encoded with B ... Z; Z requires order code Q.. (e.g. Q3A); F = standard version with integrated KTY 84 temperature sensor)																	B ... Z		
16th position: Digit	Terminal box position 4: Terminal box top (normal version), 5: Terminal box right, 6: Terminal box left																		4 ... 6	
	Special order versions: encoded – additional order code required not encoded – additional plain text required																			- Z

¹⁾ Depending on slip, the rated frequency is above 50 Hz, 60 Hz, or 87 Hz (see Technical specifications).

Standard induction motors optimized for converter operation – VSD10 line

Orientation

Article number code

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Ordering example:

Selection criteria	Requirement	Structure of the Article No.
Motor type 1LE1	Standard motor for converter operation SIMOTICS GP VSD10 line, aluminum version	1LE1092-■■■■■-■■■■■
Motor frame size	160 L	1LE1092-1DB■■■-■■■■■
No. of poles	4-pole	1LE1092-1DB4■-■■■■■
Rated power	$P_{\text{rated } 50}$: 15 kW $P_{\text{rated } 60}$: 17.3 kW $P_{\text{rated } 87}$: 23.5 kW	
Voltage and frequency	380 V 3 AC, 50 Hz/440 V 3 AC, 60 Hz/380 V 3 AC, 87 Hz	1LE1092-1DB42-1■■■■■
Type of construction with special version	IM V5 with protective cover ¹⁾	1LE1092-1DB42-1C■■■-Z H00
Motor protection	Motor protection with PTC thermistors with 1 or 3 embedded temperature sensors for tripping	1LE1092-1DB42-1CB■-Z H00
Terminal box position	Terminal box right (viewed from DE)	1LE1092-1DB42-1CB5-Z H00

¹⁾ Standard without protective cover – the protective cover is defined with order code **H00** and must be ordered in addition to the Article No. with **-Z** and this order code.

