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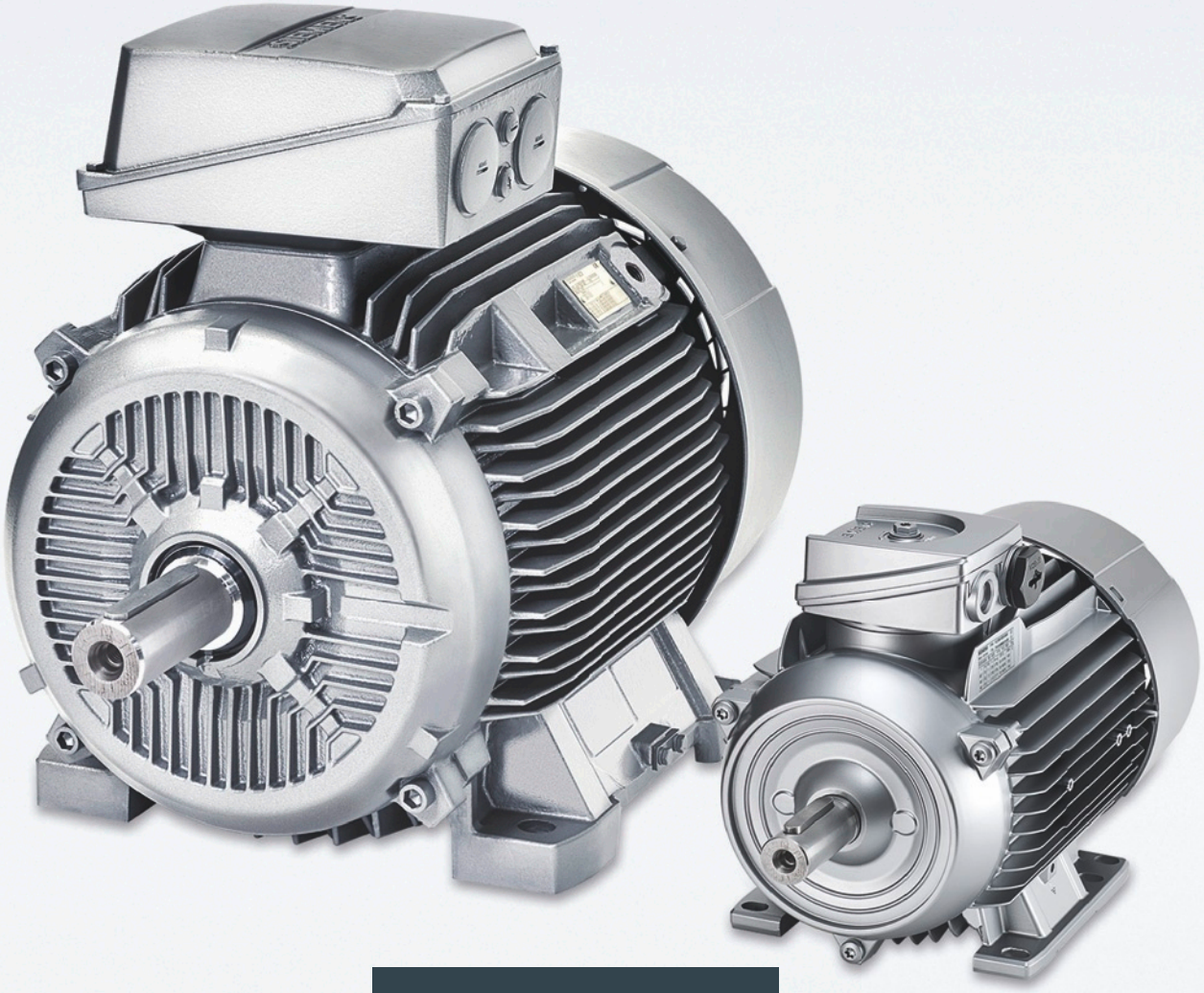

Motors

SIMOTICS GP, SD, XP, DP Low-Voltage Motors

Type series
1FP, 1LE, 1MB, 1PC

Frame sizes 63 to 450 · Power range 0.09 to 1000 kW

Price List
D 81.1 P

Edition
01/2021

siemens.com/drives

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Statutory minimum efficiencies in the European economic area

Please note that the minimum efficiencies IE3 are required by law for many low-voltage motors that are sold/installed in the European Economic Area.
The statutory EU REGULATION (EC) No. 640/2009 (of July 22, 2009) governs the minimum efficiencies for electrical drives in the European Economic Area. It is based on the directive 2005/32/EC of the European Parliament and of the Council of July 6, 2005. Please observe these statutory minimum efficiencies in the European Economic Area.
We as a manufacturer always recommend to use products with high efficiencies.

Note

All mentioned efficiency classes refer to 50 Hz data (if not otherwise specified).

When operating the motors on the converter, additional losses occur which may require a torque reduction depending on the permissible excessive winding temperature.
The permissible torques can be taken from the SIZER configuration tool. The lowest frequency provided there is 5 Hz. In case of stationary converter operation at lower frequencies, in particular with frame sizes < 100, a request to the Quotation Center is required.

Energy saving/Energy-saving program SinaSave

Further information regarding energy savings and the Energy-saving program SinaSave can be found at the following internet address:
www.siemens.com/energysaving

Selection tool DT Configurator

The DT Configurator covers the product range of low-voltage motors and MICROMASTER 4/SINAMICS inverters and converters as well as frequency converters for SIMATIC ET 200 distributed I/O. The range of available products is being continuously expanded.

The following information is provided for the individual products:

- 2D/3D-model generator for motors and converters
- Data sheet generator
- Start-up calculation for motors
- Comprehensive product-specific documentation

Online access in the Siemens Industry Mall

The DT Configurator is integrated in the Siemens Industry Mall and can be used on the Internet without installation.
German: www.siemens.de/dt-konfigurator
English: www.siemens.com/dt-configurator

Price Groups

Motors	Standard program according to catalog with standard delivery time						
Type	1LE10; 1LE15; 1FP10; 1FP15; 1PC1 (self ventilated)			1LE15; 1LE5	1LE5	1MB1;1 MB5	1PC13; 1PC14
Frame size	63 ... 90	100 ... 160	180 ... 225	250 ... 355	400 ... 450	all	all
Price group	**3F1**	**3F2**	**3F3**	**3F4**	**3ZB**	**3X1**	**3Z3**

Surcharges for Freight and Packaging

The following surcharges for freight and packaging will be calculated as standard. Further expenditure-dependent costs will be additionally charged for seaworthy packaging.

Order Value in EUR	Surcharge in %
up to 500.–	7.5
up to 2500.–	5
over 2500.–	3

Definition of Delivery Time – new Delivery Time concept

The delivery times provided in the price list may deviate from the actual delivery times. The currently valid delivery times can be found in the delivery time share points known as well as in PMD.

The total delivery time (motor + supplements) is determined by the longer delivery time of the associated components.

Delivery times apply to clarified orders from the supplying factory – especially for larger order quantities or with customer-specific documentations.

For the explanation of the new Delivery Time concept, see also Page 2.

Standard delivery times in working days:

2	5	10	15	20	25	30	> 30
40	50	60	70	80	On request		

CU surcharge

Up to the Cu DEL-notice EUR 225.– per 100 kg the printed prices apply. For quotations over EUR 225.– per 100 kg, the surcharges below are charged with regard to the relevant net price. The copper surcharge is based on the quotation (lower German electrolytic quotation +1 %) of the previous day of the order placed.

The copper surcharges for quotations of EUR 925.– and higher per 100 kg are additionally increased in steps of EUR 50.– by 1 %. For further information on “Metal surcharges”, see the Appendix.

Copper quotation	**Cu surcharge acc. to metal factor N - W - - - - -** (for 1FP1, 1LE, 1MB, 1PC1 motors)
EUR per 100 kg	%
225.– up to just below 275.–	1.2
275.– up to just below 325.–	2.5
325.– up to just below 375.–	3.5
375.– up to just below 425.–	4.5
425.– up to just below 475.–	5.5
475.– up to just below 525.–	6.5
525.– up to just below 575.–	7.5
575.– up to just below 625.–	8.5
625.– up to just below 675.–	9.5
675.– up to just below 725.–	10.5
725.– up to just below 775.–	11.5
775.– up to just below 825.–	12.5
825.– up to just below 875.–	13.5
875.– up to just below 925.–	14.5

Changes or Cancellation

Costs will be charged according to expenses occurred through changes or cancellation.

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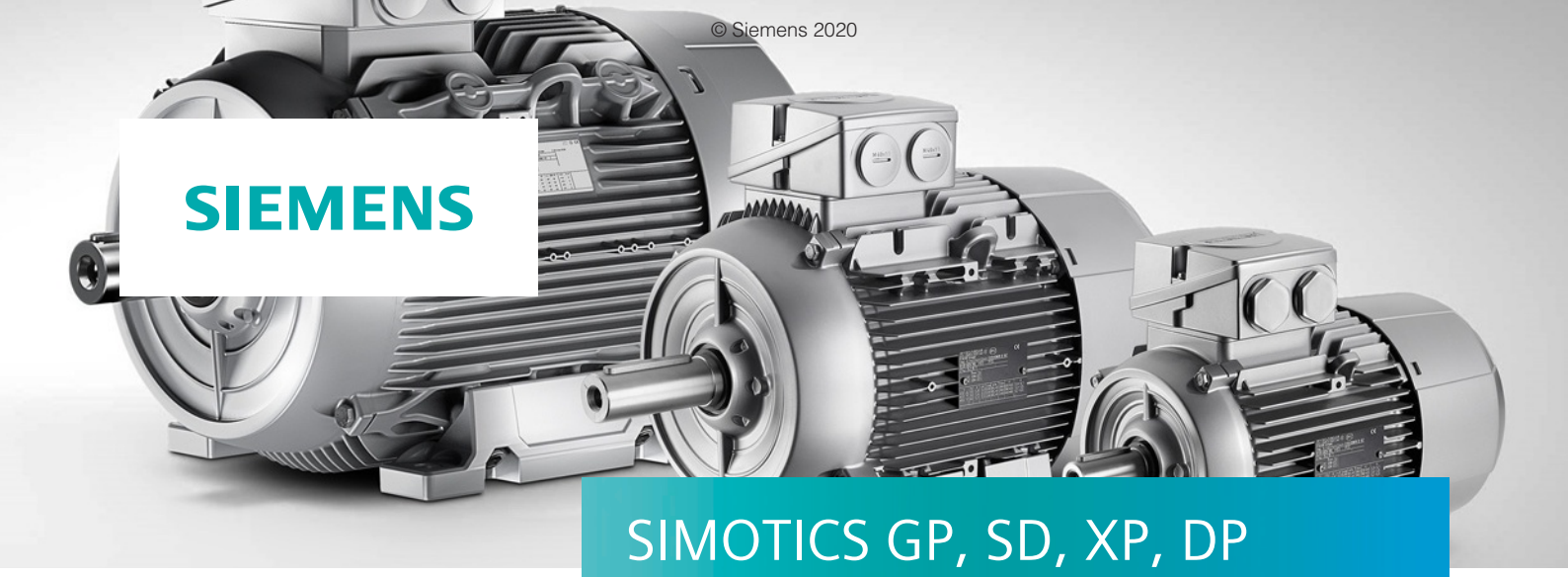

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SIMOTICS GP, SD, XP, DP Low-Voltage Motors

Type series
1FP, 1LE, 1MB, 1PC

Price List D 81.1 P · 01/2021

Dear Customer,

We are pleased to present you with the new Price List D 81.1 P · 01/2021.
The new price list replaces Price List D 81.1 P · 10/2019.

The following price changes and adaptations were made as of January 1, 2021:

- Price changes for SIMOTICS GP, SD, DP motors of the 1LE1 platform and derivatives: frame sizes 63 and 71: +2 % respectively +5 %
- Expansion of the SIMOTICS GP/SD motor series 1LE1083 frame size 100 bis 200 und 1LE1583 frame sizes 100 bis 315
- Expansion of the SIMOTICS XP motor series for zone 21, 22 and 2 Ex tb, Ex tc and Ex ec (1MB5514, 1MB5524, 1MB5534, 1MB5513, 1MB5523, 1MB5533) frame sizes 315 to 450;
  zone 21, 22 and 2 Ex tb, Ex tc and Ex ec (1MB5813, 1MB5823, 1MB5833) frame sizes 400 and 450;
  zone 1 Ex eb (1MB1553, 1MB5553, 1MB1556, 1MB5556, 1MB1557, 1MB5557, 1MB1853, 1MB5853) frame sizes 71 to 355;
  zone 1 Ex eb (1MB1563, 1MB1566, 1MB1567, 1MB1863) frame sizes 132 to 280
- Elimination of the “Smoke extraction motors”

The products listed in this price list are also part in the Industry Mall.
Please contact your local Siemens office for additional information.

You can access our Interactive Catalog and our Industry Mall on the Internet at:
www.siemens.com/industrymall

The Drive Technology Configurator is also available on the Internet at
www.siemens.com/dt-configurator, where it is updated daily.

Up-to-date information about low-voltage motors is available online at:
www.siemens.com/lowvoltagemotors

Your personal contact is keen to receive your suggestions and recommendations for improvement.
You can find your contact in our contact database at
www.siemens.com/automation-contact

We hope that you will often use our new Price List D 81.1 P · 01/2021 as a helpful ordering resource.

With kind regards,

Dagmar Eisinger
Head Sales Controlling
Siemens AG, Motion Control,
Low Voltage Motors, Finance, Europa

Christoph Nöth
Head of Product Portfolio Management
Siemens AG, Motion Control,
Low Voltage Motors, Europa

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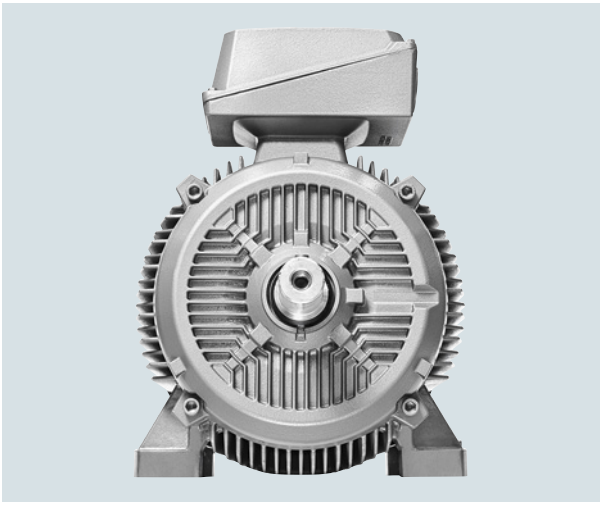
SIMOTICS Low-Voltage Motors

Frame sizes 63 to 450, power range 0.09 to 1000 kW

Motors



Price List D 81.1 P · 01/2021

Supersedes:
Price List D 81.1 P · 10/2019

Refer to the Industry Mall for current updates of this Price List:
www.siemens.com/industrymall

Please contact your local Siemens branch.

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Standard delivery times in working days: 2 | 5 | 10 | 15

Prime Delivery

Faster on the market due to shorter delivery times

To satisfy the requirements of our customers and to respond to the trend of shorter delivery times in numerous industry sectors, the delivery time concept of our portfolio for standard motors has been fundamentally revised.

With the ***Prime Delivery*** concept, we offer our costumers a remarkable time advantage.

According to this delivery time concept, we are able to deliver common IE1 and IE3 motors incl. a selected spectrum of options ex works within 2 or 5 days.

Unlike the express motors with the order code **B19**, which are not available anymore since 01.10.2015, the now offered motor types within the ***Prime Delivery*** concept, valid since 01.10.2015, are available for our clients without further additional costs.

The IE3 motor versions of our SIMOTICS GP and SD motor portfolio, which are available within 48 hours ex works, are shown in the following figure.
The corresponding IE2 motor variants see page 1/16.

Position of Article No.:	Motor type 1 to 6		Efficiency class 7	Frame size 8		Number of poles 9	Overall length 10	Voltage 11	12	13	Type of construction 14	Motor protection 15	Terminal box 16	Delivery time working days
	1LE1	■■		■ -	■	■	■	■	■	■	■	■	■	
SIMOTICS GP	**1LE1**	**0 0**	IE1	**2** 63	**0 B**	2-pole **A**	M	**2** or **3**	230 V/400 V	**2**	**2**	IM B3, IM B6, IM B7, IM B8, IM V5, IM V6, stamped IM B3,	**A** without	**A** without	**4** **2**
				71	**0 C**	4-pole **B**									
			IE3	**3** 80	**0 D**							**B** 3 PTC thermistors (tripping)			
				90	**0 E**		S	**0**							
							L	**4**			IM B5/IM 3001, IM V1, IM V3, stamped IM B5 flange	**F**			
				100	**1 A**		L	**4** or **5**							
											IM B35 / IM 2001 flange	**J**			
				112	**1 B**		M	**2** or **3**	230 V/400 V	**2**	**2**	IM B14/IM 3601,	**K**		
									400 V/690 V	**3**	**4**	IM V19/IM 363, IM V18/IM 3611 stamped IM B14; standard flange			
				132	**1 C**		S	**0**	400 V/690 V	**3**	**4**				
							M	**2** or **3**							
				160	**1 D**		M	**2** or **3**			IM B34/IM 2101 standard flange	**N**			
				180	**1 E**		L	**4** or **5**			IM B3, IM B6, IM B7, IM B8, IM V5, IM V6, stamped IM B3	**A**	**B** 3 PTC thermistors (tripping)		**5**
				200	**2 A**		L	**4** or **5**			IM B5/IM 3001, IM V1, IM V3, stamped IM B5 flange	**F**			
SIMOTICS SD	**1LE1**	**5 0**		180	**1 E**		M	**2** or **3**							
								4 or **5**							
							L								
				200	**2 A**		L	**4** or **5**							
				225	**2 B**	4-pole **B**	S	**0**			IM B3, IM B6, IM B7, IM B8, IM V5, IM V6, stamped IM B3	**A**			**2**
							M	**2** or **3**							
				250	**2 C**		M	**2** or **3**							
				280	**2 D**		S	**0**							

Basic versions of the SIMOTICS GP and SD motor range, deliverable within 2 or 5 days (ex works) [1)]

If an order can be delivered within 48 hours (ex works) depends on the ordered basic motor type and the ordered options. The exact delivery times can be found out via our ordering systems or the Siemens distributors. For projects with larger quantities, the delivery time must be requested separately at the factory.

Possible impacts of particular technical features on the overall delivery time of an order are explained in the ordering examples shown in the following overview.

Order	Delivery time of basic motor	Delivery time options		Overall delivery time
Example 1	SIMOTICS GP, IE2, 4-pole, FS112, 4 kW (50 Hz) 1LE1001-1BB22-2AA4 **2 working days ex works**	Order code **H04** (External grounding) **2 working days ex works**		**2 working days ex works**
Example 2	SIMOTICS GP, IE3, 4-pole, FS160, 15 kW (50 Hz) 1LE1003-1DB42-1AA4 **10 working days ex works**	Order code **H04** (External grounding) **2 working days ex works**	Order code **G11** (Mounting of rotary pulse encoder) **5 working days ex works**	**10 working days ex works**
Example 3	SIMOTICS SD, IE3, 4-pole, FS225, 37 kW (50 Hz) 1LE1503-2BB03-4AB5 **10 working days ex works**	Order code **S03** (Special finish sea air resistant C4) **15 working days ex works**		**15 working days ex works**

[1)] Article number code see Catalog D 81.1 · 2016 in chapter 2.

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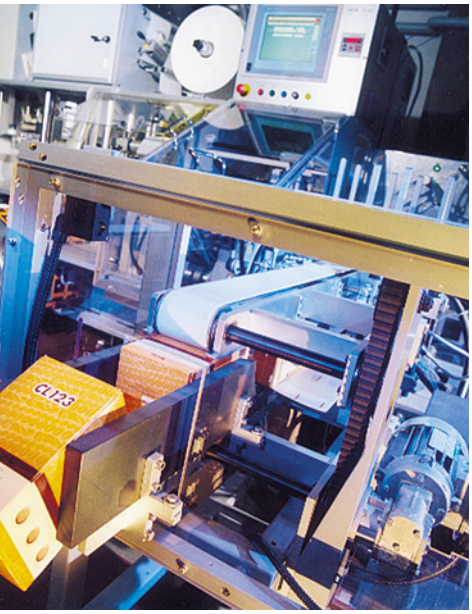

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Overview

Category	**Motors with IE4 Super Premium Efficiency**
Series version	**Aluminum series 1LE1004**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4
Frame sizes (FS)	100 L … 200 L
Rated power at 50 Hz	2.2 ... 37 kW
Synchronous speed at 50 Hz	1500 ... 3000 rpm
Rated torque at 50 Hz	9.8 ... 194 Nm
Efficiency	IE4 Super Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz				
3	**IE4**	**100 L**	**1LE1004-1AA4.-....**	**1430.–**
4	**IE4**	**112 M**	**1LE1004-1BA2.-....**	**1690.–**
5.5	**IE4**	**132 S**	**1LE1004-1CA0.-....**	**2130.–**
7.5	**IE4**	**132 S**	**1LE1004-1CA1.-....**	**2700.–**
11	**IE4**	**160 M**	**1LE1004-1DA2.-....**	**3760.–**
15	**IE4**	**160 M**	**1LE1004-1DA3.-....**	**4900.–**
18.5	**IE4**	**160 L**	**1LE1004-1DA4.-....**	**5850.–**
22	**IE4**	**180 M**	**1LE1004-1EA2.-....**	**6610.–**
30	**IE4**	**200 L**	**1LE1004-2AA4.-....**	**8450.–**
37	**IE4**	**200 L**	**1LE1004-2AA5.-....**	**10600.–**
4-pole: 1500 rpm at 50 Hz				
2.2	**IE4**	**100 L**	**1LE1004-1AB4.-....**	**1320.–**
3	**IE4**	**100 L**	**1LE1004-1AB5.-....**	**1510.–**
4	**IE4**	**112 M**	**1LE1004-1BB2.-....**	**1850.–**
5.5	**IE4**	**132 S**	**1LE1004-1CB0.-....**	**2310.–**
7.5	**IE4**	**132 M**	**1LE1004-1CB2.-....**	**2920.–**
11	**IE4**	**160 M**	**1LE1004-1DB2.-....**	**3840.–**
15	**IE4**	**160 L**	**1LE1004-1DB4.-....**	**4970.–**
18.5	**IE4**	**180 M**	**1LE1004-1EB2.-....**	**5540.–**
22	**IE4**	**180 L**	**1LE1004-1EB4.-....**	**6390.–**
30	**IE4**	**200 L**	**1LE1004-2AB5.-....**	**8270.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE4 Super Premium Efficiency**
Series version	**Cast-iron series 1LE1504/1LE1604 Basic/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4
Frame sizes (FS)	100 L ... 315 L
Rated power at 50 Hz	2.2 ... 200 kW
Synchronous speed at 50 Hz	1500 ... 3000 rpm
Rated torque at 50 Hz	9.8 ... 1281 Nm
Efficiency	IE4 Super Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
3	**IE4**	**100 L**	**1LE1504-1AA4.-....**	**1560.–**	**1LE1604-1AA4.-....**	**1750.–**
4	**IE4**	**112 M**	**1LE1504-1BA2.-....**	**1850.–**	**1LE1604-1BA2.-....**	**2090.–**
5.5	**IE4**	**132 S**	**1LE1504-1CA0.-....**	**2310.–**	**1LE1604-1CA0.-....**	**2610.–**
7.5	**IE4**	**132 M**	**1LE1504-1CA1.-....**	**2950.–**	**1LE1604-1CA1.-....**	**3340.–**
11	**IE4**	**160 M**	**1LE1504-1DA2.-....**	**4070.–**	**1LE1604-1DA2.-....**	**4590.–**
15	**IE4**	**160 M**	**1LE1504-1DA3.-....**	**5290.–**	**1LE1604-1DA3.-....**	**6010.–**
18.5	**IE4**	**160 L**	**1LE1504-1DA4.-....**	**6330.–**	**1LE1604-1DA4.-....**	**7150.–**
22	**IE4**	**180 L**	**1LE1504-1EA2.-....**	**6960.–**	**1LE1604-1EA2.-....**	**7660.–**
30	**IE4**	**200 L**	**1LE1504-2AA4.-....**	**8860.–**	**1LE1604-2AA4.-....**	**9770.–**
37	**IE4**	**200 L**	**1LE1504-2AA5.-....**	**11100.–**	**1LE1604-2AA5.-....**	**12100.–**
45	**IE4**	**225 M**	**1LE1504-2BA2.-....**	**12100.–**	**1LE1604-2BA2.-....**	**13500.–**
55	**IE4**	**250 M**	**1LE1504-2CA2.-....**	**14400.–**	**1LE1604-2CA2.-....**	**15900.–**
75	**IE4**	**280 S**	**1LE1504-2DA0.-....**	**19600.–**	**1LE1604-2DA0.-....**	**20200.–**
90	**IE4**	**280 M**	**1LE1504-2DA2.-....**	**23000.–**	**1LE1604-2DA2.-....**	**23700.–**
110	**IE4**	**315 S**	**1LE1504-3AA0.-....**	**27200.–**	**1LE1604-3AA0.-....**	**27900.–**
132	**IE4**	**315 M**	**1LE1504-3AA2.-....**	**32500.–**	**1LE1604-3AA2.-....**	**33600.–**
160	**IE4**	**315 L**	**1LE1504-3AA4.-....**	**40600.–**	**1LE1604-3AA4.-....**	**41700.–**
200	**IE4**	**315 L**	**1LE1504-3AA5.-....**	**50600.–**	**1LE1604-3AA5.-....**	**52100.–**
4-pole: 1500 rpm at 50 Hz						
2.2	**IE4**	**100 L**	**1LE1504-1AB4.-....**	**1420.–**	**1LE1604-1AB4.-....**	**1600.–**
3	**IE4**	**100 L**	**1LE1504-1AB5.-....**	**1640.–**	**1LE1604-1AB5.-....**	**1860.–**
4	**IE4**	**112 M**	**1LE1504-1BB2.-....**	**1990.–**	**1LE1604-1BB2.-....**	**2250.–**
5.5	**IE4**	**132 S**	**1LE1504-1CB0.-....**	**2500.–**	**1LE1604-1CB0.-....**	**2830.–**
7.5	**IE4**	**132 M**	**1LE1504-1CB2.-....**	**3180.–**	**1LE1604-1CB2.-....**	**3590.–**
11	**IE4**	**160 M**	**1LE1504-1DB2.-....**	**4170.–**	**1LE1604-1DB2.-....**	**4710.–**
15	**IE4**	**160 L**	**1LE1504-1DB4.-....**	**5400.–**	**1LE1604-1DB4.-....**	**6100.–**
18.5	**IE4**	**160 L**	**1LE1504-1EB2.-....**	**5900.–**	**1LE1604-1EB2.-....**	**6410.–**
22	**IE4**	**180 L**	**1LE1504-1EB4.-....**	**6800.–**	**1LE1604-1EB4.-....**	**7400.–**
30	**IE4**	**200 L**	**1LE1504-2AB5.-....**	**8760.–**	**1LE1604-2AB5.-....**	**9540.–**
37	**IE4**	**200 L**	**1LE1504-2BB0.-....**	**9780.–**	**1LE1604-2BB0.-....**	**10700.–**
45	**IE4**	**225 M**	**1LE1504-2BB2.-....**	**11400.–**	**1LE1604-2BB2.-....**	**12500.–**
55	**IE4**	**250 M**	**1LE1504-2CB2.-....**	**13800.–**	**1LE1604-2CB2.-....**	**15100.–**
75	**IE4**	**280 S**	**1LE1504-2DB0.-....**	**18500.–**	**1LE1604-2DB0.-....**	**18900.–**
90	**IE4**	**280 M**	**1LE1504-2DB2.-....**	**21400.–**	**1LE1604-2DB2.-....**	**22000.–**
110	**IE4**	**315 M**	**1LE1504-3AB0.-....**	**26600.–**	**1LE1604-3AB0.-....**	**27100.–**
132	**IE4**	**315 M**	**1LE1504-3AB2.-....**	**31200.–**	**1LE1604-3AB2.-....**	**32200.–**
160	**IE4**	**315 L**	**1LE1504-3AB4.-....**	**37800.–**	**1LE1604-3AB4.-....**	**38800.–**
200	**IE4**	**315 L**	**1LE1504-3AB5.-....**	**47000.–**	**1LE1604-3AB5.-....**	**48300.–**

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Overview

Category	**Motors with IE3 Premium Efficiency**	
Series version	**Aluminum series 1LE1003** (continued on next page)	**Aluminum series 1LE1003 with increased power** (continued on next page)
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)	Thermal class 155 (F)
Utilization	Thermal class 130 (B)	Thermal class 130 (B)
Number of poles	2, 4, 6, 8	2, 4, 6
Frame sizes (FS)	80 M ... 200 L	132 M ... 200 L
Rated power at 50 Hz	0.37 ... 37 kW	11 ... 45 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm	1000 ... 3000 rpm
Rated torque at 50 Hz	2.5 ... 215 Nm	36 ... 293 Nm
Efficiency	IE3 Premium Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -	N - W - - - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3	Frame sizes 132 ... 160: 3F2, Frame sizes 180 ... 200: 3F3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR	P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz									
0.75	**IE3**	**80 M**	**1LE1003-0DA2.-....**	**630.–**					
1.1	**IE3**	**80 M**	**1LE1003-0DA3.-....**	**721.–**					
1.5	**IE3**	**90 S**	**1LE1003-0EA0.-....**	**832.–**					
2.2	**IE3**	**90 L**	**1LE1003-0EA4.-....**	**1070.–**					
3	**IE3**	**100 L**	**1LE1003-1AA4.-....**	**1180.–**					
4	**IE3**	**112 M**	**1LE1003-1BA2.-....**	**1400.–**					
5.5	**IE3**	**132 S**	**1LE1003-1CA0.-....**	**1750.–**					
7.5	**IE3**	**132 S**	**1LE1003-1CA1.-....**	**2230.–**					
					11	**IE3**	**132 M**	**1LE1003-1CA6.-....**	**3100.–**
11	**IE3**	**160 M**	**1LE1003-1DA2.-....**	**3100.–**					
15	**IE3**	**160 M**	**1LE1003-1DA3.-....**	**4060.–**					
18.5	**IE3**	**160 L**	**1LE1003-1DA4.-....**	**4830.–**	**22**	**IE3**	**160 L**	**1LE1003-1DA6.-....**	**5500.–**
22	**IE3**	**180 M**	**1LE1003-1EA2.-....**	**5390.–**	**30**	**IE3**	**180 M**	**1LE1003-1EA6.-....**	**7000.–**
30	**IE3**	**200 L**	**1LE1003-2AA4.-....**	**7000.–**	**45**	**IE3**	**200 L**	**1LE1003-2AA6.-....**	**10200.–**
37	**IE3**	**200 L**	**1LE1003-2AA5.-....**	**8770.–**					
4-pole: 1500 rpm at 50 Hz									
0.55	**IE3**	**80 M**	**1LE1003-0DB2.-....**	**623.–**					
0.75	**IE3**	**80 M**	**1LE1003-0DB3.-....**	**681.–**					
1.1	**IE3**	**90 S**	**1LE1003-0EB0.-....**	**809.–**					
1.5	**IE3**	**90 L**	**1LE1003-0EB4.-....**	**957.–**					
2.2	**IE3**	**100 L**	**1LE1003-1AB4.-....**	**1080.–**					
3	**IE3**	**100 L**	**1LE1003-1AB5.-....**	**1250.–**					
4	**IE3**	**112 M**	**1LE1003-1BB2.-....**	**1520.–**					
5.5	**IE3**	**132 S**	**1LE1003-1CB0.-....**	**1910.–**					
7.5	**IE3**	**132 M**	**1LE1003-1CB2.-....**	**2420.–**	**11**	**IE3**	**132 M**	**1LE1003-1CB6.-....**	**3170.–**
11	**IE3**	**160 M**	**1LE1003-1DB2.-....**	**3170.–**					
15	**IE3**	**160 L**	**1LE1003-1DB4.-....**	**4120.–**	**18.5**	**IE3**	**160 L**	**1LE1003-1DB6.-....**	**4660.–**
18.5	**IE3**	**180 M**	**1LE1003-1EB2.-....**	**4580.–**					
22	**IE3**	**180 L**	**1LE1003-1EB4.-....**	**5290.–**	**30**	**IE3**	**180 L**	**1LE1003-1EB6.-....**	**6900.–**
30	**IE3**	**200 L**	**1LE1003-2AB5.-....**	**6900.–**	**37**	**IE3**	**200 L**	**1LE1003-2AB6.-....**	**8170.–**

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Overview

Category	**Motors with IE3 Premium Efficiency**	
Series version	**Aluminum series 1LE1003**	**Aluminum series 1LE1003 with increased power**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)	Thermal class 155 (F)
Utilization	Thermal class 130 (B)	Thermal class 130 (B)
Number of poles	2, 4, 6, 8	2, 4, 6
Frame sizes (FS)	80 M ... 200 L	132 M ... 200 L
Rated power at 50 Hz	0.37 ... 37 kW	11 ... 45 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm	1000 ... 3000 rpm
Rated torque at 50 Hz	2.5 ... 215 Nm	36 ... 293 Nm
Efficiency	IE3 Premium Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -	N - W - - - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3	Frame sizes 180 ... 200: 3F3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR	P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR
6-pole: 1000 rpm at 50 Hz									
0.37	**IE3**	**80 M**	**1LE1003-0DC2.-....**	**606.–**					
0.55	**IE3**	**80 M**	**1LE1003-0DC3.-....**	**700.–**					
0.75	**IE3**	**90 S**	**1LE1003-0EC0.-....**	**791.–**					
1.1	**IE3**	**90 L**	**1LE1003-0EC4.-....**	**980.–**					
1.5	**IE3**	**100 L**	**1LE1003-1AC4.-....**	**1070.–**					
2.2	**IE3**	**112 M**	**1LE1003-1BC2.-....**	**1360.–**					
3	**IE3**	**132 S**	**1LE1003-1CC0.-....**	**1690.–**					
4	**IE3**	**132 M**	**1LE1003-1CC2.-....**	**2090.–**					
5.5	**IE3**	**132 M**	**1LE1003-1CC3.-....**	**2630.–**					
7.5	**IE3**	**160 M**	**1LE1003-1DC2.-....**	**3340.–**					
11	**IE3**	**160 L**	**1LE1003-1DC4.-....**	**4600.–**					
15	**IE3**	**180 L**	**1LE1003-1EC4.-....**	**5680.–**	**18.5**	**IE3**	**180 L**	**1LE1003-1EC6.-....**	**6930.–**
18.5	**IE3**	**200 L**	**1LE1003-2AC4.-....**	**6930.–**	**30**	**IE3**	**200 L**	**1LE1003-2AC6.-....**	**10500.–**
22	**IE3**	**200 L**	**1LE1003-2AC5.-....**	**8040.–**					
8-pole: 750 rpm at 50 Hz									
2.2	**IE3**	**132 S**	**1LE1003-1CD0.-....**	**2610.–**					
3	**IE3**	**132 M**	**1LE1003-1CD2.-....**	**3130.–**					
4	**IE3**	**160 M**	**1LE1003-1DD2.-....**	**3860.–**					
5.5	**IE3**	**160 M**	**1LE1003-1DD3.-....**	**4650.–**					
7.5	**IE3**	**160 L**	**1LE1003-1DD4.-....**	**5530.–**					
11	**IE3**	**180 L**	**1LE1003-1ED4.-....**	**6710.–**					
15	**IE3**	**200 L**	**1LE1003-2AD5.-....**	**8800.–**					

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Overview

Category	**Motors with IE3 Premium Efficiency**
Series version	**Aluminum series 1LE1083**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 200 L
Rated power at 50 Hz	2.2 ... 37 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	10 ... 215 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No. ▲ New	Base price EUR
2-pole: 3000 rpm at 50 Hz				
3	**IE3**	**100 L**	**▲ 1LE1083-1AA4.-....**	**1900.–**
4	**IE3**	**112 M**	**▲ 1LE1083-1BA2.-....**	**2330.–**
5.5	**IE3**	**132 S**	**▲ 1LE1083-1CA0.-....**	**2910.–**
7.5	**IE3**	**132 S**	**▲ 1LE1083-1CA1.-....**	**3430.–**
11	**IE3**	**160 M**	**▲ 1LE1083-1DA2.-....**	**4310.–**
15	**IE3**	**160 M**	**▲ 1LE1083-1DA3.-....**	**5270.–**
18.5	**IE3**	**160 M**	**▲ 1LE1083-1DA4.-....**	**6170.–**
22	**IE3**	**180 M**	**▲ 1LE1083-1EA2.-....**	**7070.–**
30	**IE3**	**200 L**	**▲ 1LE1083-2AA4.-....**	**9060.–**
37	**IE3**	**200 L**	**▲ 1LE1083-2AA5.-....**	**10700.–**
4-pole: 1500 rpm at 50 Hz				
2.2	**IE3**	**100 L**	**▲ 1LE1083-1AB4.-....**	**2010.–**
3	**IE3**	**100 L**	**▲ 1LE1083-1AB5.-....**	**2570.–**
4	**IE3**	**112 M**	**▲ 1LE1083-1BB2.-....**	**2830.–**
5.5	**IE3**	**132 S**	**▲ 1LE1083-1CB0.-....**	**3240.–**
7.5	**IE3**	**132 M**	**▲ 1LE1083-1CB2.-....**	**3750.–**
11	**IE3**	**160 M**	**▲ 1LE1083-1DB2.-....**	**4650.–**
15	**IE3**	**160 M**	**▲ 1LE1083-1DB4.-....**	**5720.–**
18.5	**IE3**	**180 M**	**▲ 1LE1083-1EB2.-....**	**6690.–**
22	**IE3**	**180 L**	**▲ 1LE1083-1EB4.-....**	**7580.–**
30	**IE3**	**200 L**	**▲ 1LE1083-2AB5.-....**	**9710.–**
6-pole: 1000 rpm at 50 Hz				
15	**IE3**	**180 L**	**▲ 1LE1083-1EC4.-....**	**7290.–**
18.5	**IE3**	**200 L**	**▲ 1LE1083-2AC4.-....**	**8810.–**
22	**IE3**	**200 L**	**▲ 1LE1083-2AC5.-....**	**10200.–**
8-pole: 750 rpm at 50 Hz				
11	**IE3**	**180 L**	**▲ 1LE1083-1ED4.-....**	**9680.–**
15	**IE3**	**200 L**	**▲ 1LE1083-2AD5.-....**	**11500.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE3 Premium Efficiency**
Series version	**Cast-iron series 1LE1503/1LE1603** **Basic/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.18 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	1.2 ... 1284 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 71 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
0.37	**IE3**	**71 M**	**1LE1503-0CA2.-....**	**673.–**		
0.55	**IE3**	**71 M**	**1LE1503-0CA3.-....**	**789.–**		
0.75	**IE3**	**80 M**	**1LE1503-0DA2.-....**	**813.–**		
1.1	**IE3**	**80 M**	**1LE1503-0DA3.-....**	**927.–**		
1.5	**IE3**	**90 S**	**1LE1503-0EA0.-....**	**1070.–**		
2.2	**IE3**	**90 L**	**1LE1503-0EA4.-....**	**1320.–**		
3	**IE3**	**100 L**	**1LE1503-1AA4.-....**	**1300.–**	**1LE1603-1AA4.-....**	**1440.–**
4	**IE3**	**112 M**	**1LE1503-1BA2.-....**	**1530.–**	**1LE1603-1BA2.-....**	**1720.–**
5.5	**IE3**	**132 S**	**1LE1503-1CA0.-....**	**1910.–**	**1LE1603-1CA0.-....**	**2160.–**
7.5	**IE3**	**132 S**	**1LE1503-1CA1.-....**	**2450.–**	**1LE1603-1CA1.-....**	**2750.–**
11	**IE3**	**160 M**	**1LE1503-1DA2.-....**	**3360.–**	**1LE1603-1DA2.-....**	**3800.–**
15	**IE3**	**160 M**	**1LE1503-1DA3.-....**	**4400.–**	**1LE1603-1DA3.-....**	**4950.–**
18.5	**IE3**	**160 L**	**1LE1503-1DA4.-....**	**5230.–**	**1LE1603-1DA4.-....**	**5920.–**
22	**IE3**	**180 M**	**1LE1503-1EA2.-....**	**5730.–**	**1LE1603-1EA2.-....**	**6240.–**
30	**IE3**	**200 L**	**1LE1503-2AA4.-....**	**7440.–**	**1LE1603-2AA4.-....**	**8090.–**
37	**IE3**	**200 L**	**1LE1503-2AA5.-....**	**9340.–**	**1LE1603-2AA5.-....**	**10100.–**
45	**IE3**	**225 M**	**1LE1503-2BA2.-....**	**10500.–**	**1LE1603-2BA2.-....**	**11400.–**
55	**IE3**	**250 M**	**1LE1503-2CA2.-....**	**12600.–**	**1LE1603-2CA2.-....**	**13600.–**
75	**IE3**	**280 S**	**1LE1503-2DA0.-....**	**16900.–**	**1LE1603-2DA0.-....**	**17300.–**
90	**IE3**	**280 M**	**1LE1503-2DA2.-....**	**20000.–**	**1LE1603-2DA2.-....**	**20900.–**
110	**IE3**	**315 S**	**1LE1503-3AA0.-....**	**24000.–**	**1LE1603-3AA0.-....**	**25100.–**
132	**IE3**	**315 M**	**1LE1503-3AA2.-....**	**28800.–**	**1LE1603-3AA2.-....**	**30100.–**
160	**IE3**	**315 L**	**1LE1503-3AA4.-....**	**35700.–**	**1LE1603-3AA4.-....**	**37400.–**
200	**IE3**	**315 L**	**1LE1503-3AA5.-....**	**44600.–**	**1LE1603-3AA5.-....**	**46700.–**
4-pole: 1500 rpm at 50 Hz						
0.25	**IE3**	**71 M**	**1LE1503-0CB2.-....**	**668.–**		
0.37	**IE3**	**71 M**	**1LE1503-0CB3.-....**	**748.–**		
0.55	**IE3**	**80 M**	**1LE1503-0DB2.-....**	**805.–**		
0.75	**IE3**	**80 M**	**1LE1503-0DB3.-....**	**879.–**		
1.1	**IE3**	**90 S**	**1LE1503-0EB0.-....**	**1040.–**		
1.5	**IE3**	**90 L**	**1LE1503-0EB4.-....**	**1170.–**		
2.2	**IE3**	**100 L**	**1LE1503-1AB4.-....**	**1170.–**	**1LE1603-1AB4.-....**	**1330.–**
3	**IE3**	**100 L**	**1LE1503-1AB5.-....**	**1360.–**	**1LE1603-1AB5.-....**	**1530.–**
4	**IE3**	**112 M**	**1LE1503-1BB2.-....**	**1650.–**	**1LE1603-1BB2.-....**	**1870.–**
5.5	**IE3**	**132 S**	**1LE1503-1CB0.-....**	**2060.–**	**1LE1603-1CB0.-....**	**2350.–**
7.5	**IE3**	**132 M**	**1LE1503-1CB2.-....**	**2630.–**	**1LE1603-1CB2.-....**	**2970.–**
11	**IE3**	**160 M**	**1LE1503-1DB2.-....**	**3460.–**	**1LE1603-1DB2.-....**	**3890.–**
15	**IE3**	**160 L**	**1LE1503-1DB4.-....**	**4460.–**	**1LE1603-1DB4.-....**	**5040.–**
18.5	**IE3**	**180 M**	**1LE1503-1EB2.-....**	**4870.–**	**1LE1603-1EB2.-....**	**5270.–**
22	**IE3**	**180 L**	**1LE1503-1EB4.-....**	**5660.–**	**1LE1603-1EB4.-....**	**6160.–**
30	**IE3**	**200 L**	**1LE1503-2AB5.-....**	**7340.–**	**1LE1603-2AB5.-....**	**7980.–**
37	**IE3**	**225 S**	**1LE1503-2BB0.-....**	**8400.–**	**1LE1603-2BB0.-....**	**9180.–**
45	**IE3**	**225 M**	**1LE1503-2BB2.-....**	**9890.–**	**1LE1603-2BB2.-....**	**10800.–**
55	**IE3**	**250 M**	**1LE1503-2CB2.-....**	**11900.–**	**1LE1603-2CB2.-....**	**13300.–**
75	**IE3**	**280 S**	**1LE1503-2DB0.-....**	**16000.–**	**1LE1603-2DB0.-....**	**16400.–**
90	**IE3**	**280 M**	**1LE1503-2DB2.-....**	**18800.–**	**1LE1603-2DB2.-....**	**19400.–**
110	**IE3**	**315 S**	**1LE1503-3AB0.-....**	**23500.–**	**1LE1603-3AB0.-....**	**24000.–**
132	**IE3**	**315 M**	**1LE1503-3AB2.-....**	**27700.–**	**1LE1603-3AB2.-....**	**28600.–**
160	**IE3**	**315 L**	**1LE1503-3AB4.-....**	**33600.–**	**1LE1603-3AB4.-....**	**34500.–**
200	**IE3**	**315 L**	**1LE1503-3AB5.-....**	**41700.–**	**1LE1603-3AB5.-....**	**42900.–**

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Overview

Category	**Motors with IE3 Premium Efficiency**
Series version	**Cast-iron series 1LE1503/1LE1603 Basic/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.18 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	1.2 ... 1284 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 71 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz						
0.18	**IE3**	**71 M**	**1LE1503-0CC2.-....**	**648.–**		
0.25	**IE3**	**71 M**	**1LE1503-0CC3.-....**	**767.–**		
0.37	**IE3**	**80 M**	**1LE1503-0DC2.-....**	**781.–**		
0.55	**IE3**	**80 M**	**1LE1503-0DC3.-....**	**900.–**		
0.75	**IE3**	**90 S**	**1LE1503-0EC0.-....**	**1020.–**		
1.1	**IE3**	**90 L**	**1LE1503-0EC4.-....**	**1160.–**		
1.5	**IE3**	**100 L**	**1LE1503-1AC4.-....**	**1150.–**	**1LE1603-1AC4.-....**	**1320.–**
2.2	**IE3**	**112 M**	**1LE1503-1BC2.-....**	**1460.–**	**1LE1603-1BC2.-....**	**1660.–**
3	**IE3**	**132 S**	**1LE1503-1CC0.-....**	**1860.–**	**1LE1603-1CC0.-....**	**2090.–**
4	**IE3**	**132 M**	**1LE1503-1CC2.-....**	**2260.–**	**1LE1603-1CC2.-....**	**2550.–**
5.5	**IE3**	**132 M**	**1LE1503-1CC3.-....**	**2860.–**	**1LE1603-1CC3.-....**	**3220.–**
7.5	**IE3**	**160 M**	**1LE1503-1DC2.-....**	**3600.–**	**1LE1603-1DC2.-....**	**4090.–**
11	**IE3**	**160 L**	**1LE1503-1DC4.-....**	**4990.–**	**1LE1603-1DC4.-....**	**5660.–**
15	**IE3**	**180 L**	**1LE1503-1EC4.-....**	**6040.–**	**1LE1603-1EC4.-....**	**6560.–**
18.5	**IE3**	**200 L**	**1LE1503-2AC4.-....**	**7380.–**	**1LE1603-2AC4.-....**	**8030.–**
22	**IE3**	**200 L**	**1LE1503-2AC5.-....**	**8540.–**	**1LE1603-2AC5.-....**	**9300.–**
30	**IE3**	**225 M**	**1LE1503-2BC2.-....**	**10800.–**	**1LE1603-2BC2.-....**	**11700.–**
37	**IE3**	**250 M**	**1LE1503-2CC2.-....**	**13300.–**	**1LE1603-2CC2.-....**	**14300.–**
45	**IE3**	**280 S**	**1LE1503-2DC0.-....**	**16000.–**	**1LE1603-2DC0.-....**	**16300.–**
55	**IE3**	**280 M**	**1LE1503-2DC2.-....**	**18800.–**	**1LE1603-2DC2.-....**	**19400.–**
75	**IE3**	**315 S**	**1LE1503-3AC0.-....**	**25500.–**	**1LE1603-3AC0.-....**	**26300.–**
90	**IE3**	**315 M**	**1LE1503-3AC2.-....**	**28800.–**	**1LE1603-3AC2.-....**	**29600.–**
110	**IE3**	**315 L**	**1LE1503-3AC4.-....**	**34700.–**	**1LE1603-3AC4.-....**	**35600.–**
132	**IE3**	**315 L**	**1LE1503-3AC5.-....**	**41200.–**	**1LE1603-3AC5.-....**	**42400.–**
160	**IE3**	**315 L**	**1LE1503-3AC6.-....**	**50000.–**	**1LE1603-3AC6.-....**	**51400.–**
8-pole: 750 rpm at 50 Hz						
2.2	**IE3**	**132 S**			**1LE1603-1CD0.-....**	**2850.–**
3	**IE3**	**132 M**			**1LE1603-1CD2.-....**	**3480.–**
4	**IE3**	**160 M**			**1LE1603-1DD2.-....**	**4250.–**
5.5	**IE3**	**160 M**			**1LE1603-1DD3.-....**	**5230.–**
7.5	**IE3**	**160 L**			**1LE1603-1DD4.-....**	**6320.–**
11	**IE3**	**180 L**			**1LE1603-1ED4.-....**	**7250.–**
15	**IE3**	**200 L**			**1LE1603-2AD5.-....**	**9580.–**
18.5	**IE3**	**225 M**			**1LE1603-2BD0.-....**	**10900.–**
22	**IE3**	**225 M**			**1LE1603-2BD2.-....**	**12500.–**
30	**IE3**	**250 M**			**1LE1603-2CD2.-....**	**16100.–**
37	**IE3**	**280 S**			**1LE1603-2DD0.-....**	**18200.–**
45	**IE3**	**280 M**			**1LE1603-2DD2.-....**	**22000.–**
55	**IE3**	**315 S**			**1LE1603-3AD0.-....**	**26100.–**
75	**IE3**	**315 M**			**1LE1603-3AD2.-....**	**35000.–**
90	**IE3**	**315 L**			**1LE1603-3AD4.-....**	**39000.–**
110	**IE3**	**315 L**			**1LE1603-3AD5.-....**	**47000.–**
132	**IE3**	**315 L**			**1LE1603-3AD6.-....**	**56200.–**

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Overview

Category	**Motors with IE3 Premium Efficiency**
Series version	**Cast-iron series 1LE1503/1LE1603 Basic/Performance Line with increased power**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	132 M ... 280 M
Rated power at 50 Hz	11 ... 110 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	36 ... 725 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 132 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
11	**IE3**	**132 M**	**1LE1503-1CA6.-....**	**3360.–**	**1LE1603-1CA6.-....**	**3800.–**
22	**IE3**	**160 L**	**1LE1503-1DA6.-....**	**5840.–**	**1LE1603-1DA6.-....**	**6360.–**
30	**IE3**	**180 L**	**1LE1503-1EA6.-....**	**7440.–**	**1LE1603-1EA6.-....**	**8090.–**
45	**IE3**	**200 L**	**1LE1503-2AA6.-....**	**10800.–**	**1LE1603-2AA6.-....**	**11800.–**
55	**IE3**	**225 M**	**1LE1503-2BA6.-....**	**12600.–**	**1LE1603-2BA6.-....**	**13600.–**
75	**IE3**	**250 M**	**1LE1503-2CA6.-....**	**17100.–**	**1LE1603-2CA6.-....**	**17500.–**
110	**IE3**	**280 M**	**1LE1503-2DA6.-....**	**24000.–**	**1LE1603-2DA6.-....**	**25100.–**
4-pole: 1500 rpm at 50 Hz						
11	**IE3**	**132 M**	**1LE1503-1CB6.-....**	**3460.–**	**1LE1603-1CB6.-....**	**3890.–**
18.5	**IE3**	**160 L**	**1LE1503-1DB6.-....**	**4960.–**	**1LE1603-1DB6.-....**	**5400.–**
30	**IE3**	**180 L**	**1LE1503-1EB6.-....**	**7340.–**	**1LE1603-1EB6.-....**	**7980.–**
37	**IE3**	**200 L**	**1LE1503-2AB6.-....**	**8700.–**	**1LE1603-2AB6.-....**	**9500.–**
55	**IE3**	**225 M**	**1LE1503-2BB6.-....**	**11900.–**	**1LE1603-2BB6.-....**	**13300.–**
75	**IE3**	**250 M**	**1LE1503-2CB6.-....**	**16200.–**	**1LE1603-2CB6.-....**	**16600.–**
110	**IE3**	**280 M**	**1LE1503-2DB6.-....**	**23500.–**	**1LE1603-2DB6.-....**	**24000.–**
6-pole: 1000 rpm at 50 Hz						
18.5	**IE3**	**180 L**	**1LE1503-1EC6.-....**	**7380.–**	**1LE1603-1EC6.-....**	**8030.–**
30	**IE3**	**200 L**	**1LE1503-2AC6.-....**	**11100.–**	**1LE1603-2AC6.-....**	**12100.–**
37	**IE3**	**225 M**	**1LE1503-2BC6.-....**	**13300.–**	**1LE1603-2BC6.-....**	**14300.–**
45	**IE3**	**250 M**	**1LE1503-2CC6.-....**	**16100.–**	**1LE1603-2CC6.-....**	**16500.–**
75	**IE3**	**280 M**	**1LE1503-2DC6.-....**	**25500.–**	**1LE1603-2DC6.-....**	**26300.–**

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Overview

Category	**Motors with IE3 Premium Efficiency**
Series version	**Cast-iron serie 1LE1583** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 315 L
Rated power at 50 Hz	2.2... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	10 ... 1701 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No. ▲ New	Base price EUR
2-pole: 3000 rpm at 50 Hz				
3	**IE3**	**100 L**	▲ **1LE1583-1AA4.-....**	**2050.–**
4	**IE3**	**112 M**	▲ **1LE1583-1BA2.-....**	**2500.–**
5.5	**IE3**	**132 S**	▲ **1LE1583-1CA0.-....**	**3180.–**
7.5	**IE3**	**132 S**	▲ **1LE1583-1CA1.-....**	**3690.–**
11	**IE3**	**160 M**	▲ **1LE1583-1DA2.-....**	**4590.–**
15	**IE3**	**160 M**	▲ **1LE1583-1DA3.-....**	**5630.–**
18.5	**IE3**	**160 M**	▲ **1LE1583-1DA4.-....**	**6510.–**
22	**IE3**	**180 M**	▲ **1LE1583-1EA2.-....**	**7370.–**
30	**IE3**	**200 L**	▲ **1LE1583-2AA4.-....**	**9420.–**
37	**IE3**	**200 L**	▲ **1LE1583-2AA5.-....**	**11100.–**
45	**IE3**	**225 M**	▲ **1LE1583-2BA2.-....**	**13000.–**
55	**IE3**	**250 M**	▲ **1LE1583-2CA2.-....**	**15200.–**
75	**IE3**	**280 S**	▲ **1LE1583-2DA0.-....**	**19900.–**
90	**IE3**	**280 M**	▲ **1LE1583-2DA2.-....**	**23000.–**
110	**IE3**	**315 S**	▲ **1LE1583-3AA0.-....**	**27700.–**
132	**IE3**	**315 M**	▲ **1LE1583-3AA2.-....**	**32700.–**
160	**IE3**	**315 L**	▲ **1LE1583-3AA4.-....**	**39100.–**
200	**IE3**	**315 L**	▲ **1LE1583-3AA5.-....**	**48800.–**
4-pole: 1500 rpm at 50 Hz				
2.2	**IE3**	**100 L**	▲ **1LE1583-1AB4.-....**	**2140.–**
3	**IE3**	**100 L**	▲ **1LE1583-1AB5.-....**	**2740.–**
3.7	**IE3**	**112 M**	▲ **1LE1583-1BB2.-....**	**2990.–**
5.5	**IE3**	**132 S**	▲ **1LE1583-1CB0.-....**	**3470.–**
7.5	**IE3**	**132 M**	▲ **1LE1583-1CB2.-....**	**4030.–**
11	**IE3**	**160 M**	▲ **1LE1583-1DB2.-....**	**4970.–**
15	**IE3**	**160 M**	▲ **1LE1583-1DB4.-....**	**6040.–**
18.5	**IE3**	**180 M**	▲ **1LE1583-1EB2.-....**	**7040.–**
22	**IE3**	**180 L**	▲ **1LE1583-1EB4.-....**	**8000.–**
30	**IE3**	**200 L**	▲ **1LE1583-2AB5.-....**	**10200.–**
37	**IE3**	**225 S**	▲ **1LE1583-2BB0.-....**	**12200.–**
45	**IE3**	**225 M**	▲ **1LE1583-2BB2.-....**	**14200.–**
55	**IE3**	**250 M**	▲ **1LE1583-2CB2.-....**	**16500.–**
75	**IE3**	**280 S**	▲ **1LE1583-2DB0.-....**	**20500.–**
90	**IE3**	**280 M**	▲ **1LE1583-2DB2.-....**	**23400.–**
110	**IE3**	**315 S**	▲ **1LE1583-3AB0.-....**	**27400.–**
132	**IE3**	**315 M**	▲ **1LE1583-3AB2.-....**	**31800.–**
160	**IE3**	**315 L**	▲ **1LE1583-3AB4.-....**	**37700.–**
200	**IE3**	**315 L**	▲ **1LE1583-3AB5.-....**	**45600.–**

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Overview

Category	**Motors with IE3 Premium Efficiency**
Series version	**Cast-iron serie 1LE1583**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 315 L
Rated power at 50 Hz	2.2 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	10 ... 1701 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No.	Base price
kW		FS	▲ New	EUR
6-pole: 1000 rpm at 50 Hz				
15	**IE3**	**180 L**	**▲ 1LE1583-1EC4.-....**	**7680.–**
18.5	**IE3**	**200 L**	**▲ 1LE1583-2AC4.-....**	**9280.–**
22	**IE3**	**200 L**	**▲ 1LE1583-2AC5.-....**	**10700.–**
30	**IE3**	**225 M**	**▲ 1LE1583-2BC2.-....**	**14100.–**
37	**IE3**	**250 M**	**▲ 1LE1583-2CC2.-....**	**16500.–**
45	**IE3**	**280 S**	**▲ 1LE1583-2DC0.-....**	**19300.–**
55	**IE3**	**280 M**	**▲ 1LE1583-2DC2.-....**	**22800.–**
75	**IE3**	**315 S**	**▲ 1LE1583-3AC0.-....**	**29100.–**
90	**IE3**	**315 M**	**▲ 1LE1583-3AC2.-....**	**32700.–**
110	**IE3**	**315 L**	**▲ 1LE1583-3AC4.-....**	**38300.–**
132	**IE3**	**315 L**	**▲ 1LE1583-3AC5.-....**	**45500.–**
160	**IE3**	**315 L**	**▲ 1LE1583-3AC6.-....**	**54900.–**
8-pole: 750 rpm at 50 Hz				
11	**IE3**	**180 L**	**▲ 1LE1583-1ED4.-....**	**9380.–**
15	**IE3**	**200 L**	**▲ 1LE1583-2AD5.-....**	**11400.–**
18.5	**IE3**	**225 S**	**▲ 1LE1583-2BD0.-....**	**13000.–**
22	**IE3**	**225 M**	**▲ 1LE1583-2BD2.-....**	**14600.–**
30	**IE3**	**250 M**	**▲ 1LE1583-2CD2.-....**	**18400.–**
37	**IE3**	**280 S**	**▲ 1LE1583-2DD0.-....**	**21400.–**
45	**IE3**	**280 M**	**▲ 1LE1583-2DD2.-....**	**24600.–**
55	**IE3**	**315 S**	**▲ 1LE1583-3AD0.-....**	**28400.–**
75	**IE3**	**315 M**	**▲ 1LE1583-3AD2.-....**	**36200.–**
90	**IE3**	**315 L**	**▲ 1LE1583-3AD4.-....**	**41500.–**
110	**IE3**	**315 L**	**▲ 1LE1583-3AD5.-....**	**49300.–**
132	**IE3**	**315 L**	**▲ 1LE1583-3AD6.-....**	**58300.–**

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Overview

Category	Motors with IE3 Premium Efficiency	
Series version	Aluminum series 1LE1043	Aluminum series 1LE1043 with increased power
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)	Thermal class 155 (F)
Utilization	Thermal class 130 (B)	Thermal class 130 (B)
Number of poles	2, 4, 6	2, 4
Frame sizes (FS)	80 M ... 200 L	132 M ... 200 L
Rated power at 50 Hz	0.75 ... 37 kW	4 ... 45 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm	1500 ... 3000 rpm
Rated torque at 50 Hz	2.1 ... 178 Nm	12 ... 198 Nm
Efficiency	IE3 Premium Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -	N - W - - - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR	P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz									
0.75	**IE3**	**80 M**	**1LE1043-0DA2.-....**	**668.–**					
1.1	**IE3**	**80 M**	**1LE1043-0DA3.-....**	**761.–**					
1.5	**IE3**	**90 S**	**1LE1043-0EA0.-....**	**883.–**					
2.2	**IE3**	**90 L**	**1LE1043-0EA4.-....**	**1130.–**					
3	**IE3**	**100 L**	**1LE1043-1AA4.-....**	**1260.–**	**4**	**IE3**	**100 L**	**1LE1043-1AA6.-....**	**1480.–**
4	**IE3**	**112 M**	**1LE1043-1BA2.-....**	**1480.–**					
5.5	**IE3**	**132 S**	**1LE1043-1CA0.-....**	**1870.–**					
7.5	**IE3**	**132 S**	**1LE1043-1CA1.-....**	**2380.–**	**11**	**IE3**	**132 L**	**1LE1043-1CA6.-....**	**3270.–**
11	**IE3**	**160 M**	**1LE1043-1DA2.-....**	**3270.–**	**15**	**IE3**	**132 M**	**1LE1043-1CA7.-....**	**4280.–**
15	**IE3**	**160 M**	**1LE1043-1DA3.-....**	**4280.–**					
18.5	**IE3**	**160 L**	**1LE1043-1DA4.-....**	**5130.–**	**22**	**IE3**	**160 L**	**1LE1043-1DA6.-....**	**5820.–**
22	**IE3**	**180 M**	**1LE1043-1EA2.-....**	**5710.–**	**30**	**IE3**	**180 M**	**1LE1043-1EA6.-....**	**7410.–**
30	**IE3**	**200 L**	**1LE1043-2AA4.-....**	**7420.–**					
37	**IE3**	**200 L**	**1LE1043-2AA5.-....**	**9310.–**	**45**	**IE3**	**200 L**	**1LE1043-2AA6.-....**	**10800.–**
4-pole: 1500 rpm at 50 Hz									
0.75	**IE3**	**80 M**	**1LE1043-0DB3.-....**	**726.–**					
1.1	**IE3**	**90 S**	**1LE1043-0EB0.-....**	**854.–**					
1.5	**IE3**	**90 L**	**1LE1043-0EB4.-....**	**1010.–**					
2.2	**IE3**	**100 L**	**1LE1043-1AB4.-....**	**1140.–**					
3	**IE3**	**100 L**	**1LE1043-1AB5.-....**	**1330.–**					
4	**IE3**	**112 M**	**1LE1043-1BB2.-....**	**1610.–**					
5.5	**IE3**	**132 S**	**1LE1043-1CB0.-....**	**2020.–**					
7.5	**IE3**	**132 M**	**1LE1043-1CB2.-....**	**2560.–**	**11**	**IE3**	**132 M**	**1LE1043-1CB6.-....**	**3360.–**
11	**IE3**	**160 M**	**1LE1043-1DB2.-....**	**3360.–**					
15	**IE3**	**160 L**	**1LE1043-1DB4.-....**	**4370.–**	**18.5**	**IE3**	**160 L**	**1LE1043-1DB6.-....**	**4950.–**
18.5	**IE3**	**180 M**	**1LE1043-1EB2.-....**	**4860.–**					
22	**IE3**	**180 L**	**1LE1043-1EB4.-....**	**5630.–**	**30**	**IE3**	**180 L**	**1LE1043-1EB6.-....**	**7320.–**
30	**IE3**	**200 L**	**1LE1043-2AB5.-....**	**7310.–**	**37**	**IE3**	**200 L**	**1LE1043-2AB6.-....**	**8670.–**
6-pole: 1000 rpm at 50 Hz									
0.75	**IE3**	**90 S**	**1LE1043-0EC0.-....**	**843.–**					
1.1	**IE3**	**100 L**	**1LE1043-1AC3.-....**	**1130.–**					
1.5	**IE3**	**112 S**	**1LE1043-1BC1.-....**	**1470.–**					
2.2	**IE3**	**132 S**	**1LE1043-1CC1.-....**	**1470.–**					
3	**IE3**	**132 S**	**1LE1043-1CC0.-....**	**1810.–**					
4	**IE3**	**132 M**	**1LE1043-1CC2.-....**	**2210.–**					
5.5	**IE3**	**132 M**	**1LE1043-1CC3.-....**	**2780.–**					
7.5	**IE3**	**160 M**	**1LE1043-1DC2.-....**	**3540.–**					
11	**IE3**	**160 L**	**1LE1043-1DC4.-....**	**4880.–**					
15	**IE3**	**180 L**	**1LE1043-1EC4.-....**	**6020.–**					
18.5	**IE3**	**200 L**	**1LE1043-2AC4.-....**	**7360.–**					
22	**IE3**	**200 L**	**1LE1043-2AC5.-....**	**8520.–**					

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE3 Premium Efficiency**
Series version	**Cast-iron series 1LE1543/1LE1643** **Basic/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	80 M ... 315 L
Rated power at 50 Hz	0.75 ... 200 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	2.1 ... 1057 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
0.75	**IE3**	**80 M**	**1LE1543-0DA2.-....**	**865.–**		
1.1	**IE3**	**80 M**	**1LE1543-0DA3.-....**	**761.–**		
1.5	**IE3**	**90 S**	**1LE1543-0EA0.-....**	**1120.–**		
2.2	**IE3**	**90 L**	**1LE1543-0EA4.-....**	**1390.–**		
3	**IE3**	**100 L**	**1LE1543-1AA4.-....**	**1370.–**	**1LE1643-1AA4.-....**	**1540.–**
3.7	**IE3**	**112 M**	**1LE1543-1BA2.-....**	**1620.–**	**1LE1643-1BA2.-....**	**1840.–**
5.5	**IE3**	**132 S**	**1LE1543-1CA0.-....**	**2020.–**	**1LE1643-1CA0.-....**	**2280.–**
7.5	**IE3**	**132 S**	**1LE1543-1CA1.-....**	**2580.–**	**1LE1643-1CA1.-....**	**2920.–**
11	**IE3**	**160 M**	**1LE1543-1DA2.-....**	**3560.–**	**1LE1643-1DA2.-....**	**4020.–**
15	**IE3**	**160 M**	**1LE1543-1DA3.-....**	**4640.–**	**1LE1643-1DA3.-....**	**5240.–**
18.5	**IE3**	**160 L**	**1LE1543-1DA4.-....**	**5550.–**	**1LE1643-1DA4.-....**	**6260.–**
22	**IE3**	**180 M**	**1LE1543-1EA2.-....**	**6070.–**	**1LE1643-1EA2.-....**	**6610.–**
30	**IE3**	**200 L**	**1LE1543-2AA4.-....**	**7880.–**	**1LE1643-2AA4.-....**	**8570.–**
37	**IE3**	**200 L**	**1LE1543-2AA5.-....**	**9900.–**	**1LE1643-2AA5.-....**	**10700.–**
45	**IE3**	**225 M**	**1LE1543-2BA2.-....**	**11100.–**	**1LE1643-2BA2.-....**	**12000.–**
55	**IE3**	**250 M**	**1LE1543-2CA2.-....**	**13400.–**	**1LE1643-2CA2.-....**	**14400.–**
75	**IE3**	**280 S**	**1LE1543-2DA0.-....**	**18100.–**	**1LE1643-2DA0.-....**	**18500.–**
90	**IE3**	**280 M**	**1LE1543-2DA2.-....**	**21200.–**	**1LE1643-2DA2.-....**	**22100.–**
110	**IE3**	**315 S**	**1LE1543-3AA0.-....**	**25400.–**	**1LE1643-3AA0.-....**	**26600.–**
132	**IE3**	**315 M**	**1LE1543-3AA2.-....**	**30500.–**	**1LE1643-3AA2.-....**	**31800.–**
160	**IE3**	**315 L**	**1LE1543-3AA4.-....**	**37800.–**	**1LE1643-3AA4.-....**	**39700.–**
200	**IE3**	**315 L**	**1LE1543-3AA5.-....**	**47300.–**	**1LE1643-3AA5.-....**	**49500.–**
4-pole: 1500 rpm at 50 Hz						
0.75	**IE3**	**80 M**	**1LE1543-0DB3.-....**	**934.–**		
1.1	**IE3**	**90 S**	**1LE1543-0EB0.-....**	**854.–**		
1.5	**IE3**	**90 L**	**1LE1543-0EB4.-....**	**1230.–**		
2.2	**IE3**	**100 L**	**1LE1543-1AB4.-....**	**1250.–**	**1LE1643-1AB4.-....**	**1400.–**
3	**IE3**	**100 L**	**1LE1543-1AB5.-....**	**1430.–**	**1LE1643-1AB5.-....**	**1620.–**
3.7	**IE3**	**112 M**	**1LE1543-1BB2.-....**	**1740.–**	**1LE1643-1BB2.-....**	**1980.–**
5.5	**IE3**	**132 S**	**1LE1543-1CB0.-....**	**2180.–**	**1LE1643-1CB0.-....**	**2480.–**
7.5	**IE3**	**132 M**	**1LE1543-1CB2.-....**	**2780.–**	**1LE1643-1CB2.-....**	**3160.–**
11	**IE3**	**160 M**	**1LE1543-1DB2.-....**	**3640.–**	**1LE1643-1DB2.-....**	**4130.–**
15	**IE3**	**160 L**	**1LE1543-1DB4.-....**	**4730.–**	**1LE1643-1DB4.-....**	**5360.–**
18.5	**IE3**	**180 M**	**1LE1543-1EB2.-....**	**5160.–**	**1LE1643-1EB2.-....**	**5590.–**
22	**IE3**	**180 L**	**1LE1543-1EB4.-....**	**6000.–**	**1LE1643-1EB4.-....**	**6530.–**
30	**IE3**	**200 L**	**1LE1543-2AB5.-....**	**7770.–**	**1LE1643-2AB5.-....**	**8450.–**
37	**IE3**	**225 S**	**1LE1543-2BB0.-....**	**8900.–**	**1LE1643-2BB0.-....**	**9730.–**
45	**IE3**	**225 M**	**1LE1543-2BB2.-....**	**10500.–**	**1LE1643-2BB2.-....**	**11400.–**
55	**IE3**	**250 M**	**1LE1543-2CB2.-....**	**12800.–**	**1LE1643-2CB2.-....**	**14000.–**
75	**IE3**	**280 S**	**1LE1543-2DB0.-....**	**16900.–**	**1LE1643-2DB0.-....**	**17300.–**
90	**IE3**	**280 M**	**1LE1543-2DB2.-....**	**19900.–**	**1LE1643-2DB2.-....**	**20400.–**
110	**IE3**	**315 S**	**1LE1543-3AB0.-....**	**24800.–**	**1LE1643-3AB0.-....**	**25400.–**
132	**IE3**	**315 M**	**1LE1543-3AB2.-....**	**29500.–**	**1LE1643-3AB2.-....**	**30300.–**
160	**IE3**	**315 L**	**1LE1543-3AB4.-....**	**35600.–**	**1LE1643-3AB4.-....**	**36500.–**
200	**IE3**	**315 L**	**1LE1543-3AB5.-....**	**44300.–**	**1LE1643-3AB5.-....**	**45500.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE3 Premium Efficiency**
Series version	**Cast-iron series 1LE1543/1LE1643 Basic/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	80 M ... 315 L
Rated power at 50 Hz	0.75 ... 200 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	2.1 ... 1057 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame size 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz						
0.75	**IE3**	**90 S**	**1LE1543-0EC0.-....**	**1080.–**		
1.1	**IE3**	**100 L**	**1LE1543-1AC3.-....**	**O. R.**	**1LE1643-1AC3.-....**	**1390.–**
1.5	**IE3**	**112 M**	**1LE1543-1BC1.-....**	**1550.–**	**1LE1643-1BC1.-....**	**1750.–**
2.2	**IE3**	**132 S**	**1LE1543-1CC1.-....**	**1530.–**	**1LE1643-1CC1.-....**	**1740.–**
3	**IE3**	**132 S**	**1LE1543-1CC0.-....**	**1970.–**	**1LE1643-1CC0.-....**	**2210.–**
3.7	**IE3**	**132 M**	**1LE1543-1CC2.-....**	**2410.–**	**1LE1643-1CC2.-....**	**2710.–**
5.5	**IE3**	**132 M**	**1LE1543-1CC3.-....**	**3030.–**	**1LE1643-1CC3.-....**	**3430.–**
7.5	**IE3**	**160 M**	**1LE1543-1DC2.-....**	**3830.–**	**1LE1643-1DC2.-....**	**4320.–**
11	**IE3**	**160 L**	**1LE1543-1DC4.-....**	**5290.–**	**1LE1643-1DC4.-....**	**6000.–**
15	**IE3**	**180 L**	**1LE1543-1EC4.-....**	**6400.–**	**1LE1643-1EC4.-....**	**6960.–**
18.5	**IE3**	**200 L**	**1LE1543-2AC4.-....**	**7820.–**	**1LE1643-2AC4.-....**	**8510.–**
22	**IE3**	**200 L**	**1LE1543-2AC5.-....**	**9060.–**	**1LE1643-2AC5.-....**	**9840.–**
37	**IE3**	**250 M**	**1LE1543-2CC2.-....**	**14000.–**	**1LE1643-2CC2.-....**	**15100.–**
45	**IE3**	**280 S**	**1LE1543-2DC0.-....**	**16900.–**	**1LE1643-2DC0.-....**	**17200.–**
55	**IE3**	**280 M**	**1LE1543-2DC2.-....**	**19900.–**	**1LE1643-2DC2.-....**	**20400.–**
75	**IE3**	**315 S**	**1LE1543-3AC0.-....**	**27000.–**	**1LE1643-3AC0.-....**	**27700.–**
90	**IE3**	**315 M**	**1LE1543-3AC2.-....**	**30400.–**	**1LE1643-3AC2.-....**	**31300.–**
110	**IE3**	**315 L**	**1LE1543-3AC4.-....**	**36600.–**	**1LE1643-3AC4.-....**	**37700.–**
132	**IE3**	**315 L**	**1LE1543-3AC5.-....**	**43700.–**	**1LE1643-3AC5.-....**	**44900.–**
160	**IE3**	**315 L**	**1LE1543-3AC6.-....**	**52900.–**	**1LE1643-3AC6.-....**	**54600.–**

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Overview

Category	**Motors with IE3 Premium Efficiency**
Series version	**Cast-iron series 1LE1543/1LE1643 Basic/Performance Line with increased power**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	100 L ... 280 M
Rated power at 50 Hz	4 ... 110 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	12 ... 1057 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 280: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
4	**IE3**	**100 L**	**1LE1543-1AA6.-....**	**1590.–**	**1LE1643-1AA6.-....**	**1820.–**
11	**IE3**	**132 M**	**1LE1543-1CA6.-....**	**3560.–**	**1LE1643-1CA6.-....**	**4020.–**
15	**IE3**	**132 M**	**1LE1543-1CA7.-....**	**4640.–**	**1LE1643-1CA7.-....**	**5240.–**
22	**IE3**	**160 L**	**1LE1543-1DA6.-....**	**6200.–**	**1LE1643-1DA6.-....**	**6750.–**
30	**IE3**	**180 L**	**1LE1543-1EA6.-....**	**7880.–**	**1LE1643-1EA6.-....**	**8570.–**
45	**IE3**	**200 L**	**1LE1543-2AA6.-....**	**11400.–**	**1LE1643-2AA6.-....**	**12600.–**
55	**IE3**	**225 M**	**1LE1543-2BA6.-....**	**13400.–**	**1LE1643-2BA6.-....**	**14400.–**
4-pole: 1500 rpm at 50 Hz						
11	**IE3**	**132 M**	**1LE1543-1CB6.-....**	**3640.–**	**1LE1643-1CB6.-....**	**4130.–**
18.5	**IE3**	**160 L**	**1LE1543-1DB6.-....**	**5250.–**	**1LE1643-1DB6.-....**	**5720.–**
30	**IE3**	**180 L**	**1LE1543-1EB6.-....**	**7770.–**	**1LE1643-1EB6.-....**	**8450.–**
37	**IE3**	**200 L**	**1LE1543-2AB6.-....**	**9220.–**	**1LE1643-2AB6.-....**	**10100.–**
55	**IE3**	**225 M**	**1LE1543-2BB6.-....**	**12800.–**	**1LE1643-2BB6.-....**	**14000.–**
75	**IE3**	**250 M**	**1LE1543-2CB6.-....**	**17100.–**	**1LE1643-2CB6.-....**	**17600.–**
110	**IE3**	**280 M**	**1LE1543-2DB6.-....**	**24800.–**	**1LE1643-2DB6.-....**	**25300.–**
6-pole: 1000 rpm at 50 Hz						
18.5	**IE3**	**180 L**	**1LE1543-1EC6.-....**	**7820.–**	**1LE1643-1EC6.-....**	**8510.–**
30	**IE3**	**200 L**	**1LE1543-2AC6.-....**	**11800.–**	**1LE1643-2AC6.-....**	**13100.–**
37	**IE3**	**225 M**	**1LE1543-2BC6.-....**	**14000.–**	**1LE1643-2BC6.-....**	**15100.–**
45	**IE3**	**250 M**	**1LE1543-2CC6.-....**	**17000.–**	**1LE1643-2CC6.-....**	**17500.–**
75	**IE3**	**280 M**	**1LE1543-2DC6.-....**	**27100.–**	**1LE1643-2DC6.-....**	**27800.–**

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Overview

Category	**Motors with IE2 High Efficiency**	
Series version	**Aluminum series 1LE1001** (continued on next page)	**Aluminum series 1LE1001 with increased power** (continued on next page)
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)	Thermal class 155 (F)
Utilization	Thermal class 130 (B)	Thermal class 130 (B)
Number of poles	2, 4, 6, 8	2, 4, 6, 8
Frame sizes (FS)	63 M ... 200 L	80 M ... 200 L
Rated power at 50 Hz	0.12 ... 37 kW	1.1 ... 45 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm	750 ... 3000 rpm
Rated torque at 50 Hz	0.6 ... 215 Nm	1.3 ... 294 Nm
Efficiency	IE2 High Efficiency	IE2 High Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -	N - W - - - - -
Price group (PG)	Frame sizes 63 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3	Frame sizes 80 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR	P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz									
0.18	**IE2**	**63 M**	**1LE1001-0BA2.-....**	**419.–**					
0.25	**IE2**	**63 M**	**1LE1001-0BA3.-....**	**443.–**					
0.37	**IE2**	**71 M**	**1LE1001-0CA2.-....**	**450.–**					
0.55	**IE2**	**71 M**	**1LE1001-0CA3.-....**	**506.–**					
0.75	**IE2**	**80 M**	**1LE1001-0DA2.-....**	**525.–**					
1.1	**IE2**	**80 M**	**1LE1001-0DA3.-....**	**601.–**	**1.5**	**IE2**	**80 M**	**1LE1001-0DA6.-....**	**693.–**
1.5	**IE2**	**90 S**	**1LE1001-0EA0.-....**	**693.–**					
2.2	**IE2**	**90 L**	**1LE1001-0EA4.-....**	**894.–**	**3**	**IE2**	**90 L**	**1LE1001-0EA6.-....**	**1070.–**
3	**IE2**	**100 L**	**1LE1001-1AA4.-....**	**1050.–**	**4**	**IE2**	**100 L**	**1LE1001-1AA6.-....**	**1250.–**
4	**IE2**	**112 M**	**1LE1001-1BA2.-....**	**1250.–**	**5.5**	**IE2**	**112 M**	**1LE1001-1BA6.-....**	**1560.–**
5.5	**IE2**	**132 S**	**1LE1001-1CA0.-....**	**1560.–**					
7.5	**IE2**	**132 S**	**1LE1001-1CA1.-....**	**1980.–**					
					11	**IE2**	**132 M**	**1LE1001-1CA6.-....**	**2750.–**
11	**IE2**	**160 M**	**1LE1001-1DA2.-....**	**2750.–**					
15	**IE2**	**160 M**	**1LE1001-1DA3.-....**	**3590.–**					
18.5	**IE2**	**160 L**	**1LE1001-1DA4.-....**	**4280.–**	**22**	**IE2**	**160 L**	**1LE1001-1DA6.-....**	**5060.–**
22	**IE2**	**180 M**	**1LE1001-1EA2.-....**	**4890.–**	**30**	**IE2**	**180 M**	**1LE1001-1EA6.-....**	**6330.–**
30	**IE2**	**200 L**	**1LE1001-2AA4.-....**	**6330.–**	**45**	**IE2**	**200 L**	**1LE1001-2AA6.-....**	**9490.–**
37	**IE2**	**200 L**	**1LE1001-2AA5.-....**	**7960.–**					
4-pole: 1500 rpm at 50 Hz									
0.12	**IE2**	**63 M**	**1LE1001-0BB2.-....**	**426.–**					
0.18	**IE2**	**63 M**	**1LE1001-0BB3.-....**	**461.–**					
0.25	**IE2**	**71 M**	**1LE1001-0CB2.-....**	**458.–**					
0.37	**IE2**	**71 M**	**1LE1001-0CB3.-....**	**513.–**					
0.55	**IE2**	**80 M**	**1LE1001-0DB2.-....**	**522.–**					
0.75	**IE2**	**80 M**	**1LE1001-0DB3.-....**	**568.–**	**1.1**	**IE2**	**80 M**	**1LE1001-0DB6.-....**	**672.–**
1.1	**IE2**	**90 S**	**1LE1001-0EB0.-....**	**672.–**					
1.5	**IE2**	**90 L**	**1LE1001-0EB4.-....**	**798.–**	**2.2**	**IE2**	**90 L**	**1LE1001-0EB6.-....**	**978.–**
2.2	**IE2**	**100 L**	**1LE1001-1AB4.-....**	**959.–**	**4**	**IE2**	**100 L**	**1LE1001-1AB6.-....**	**1360.–**
3	**IE2**	**100 L**	**1LE1001-1AB5.-....**	**1100.–**					
4	**IE2**	**112 M**	**1LE1001-1BB2.-....**	**1360.–**	**5.5**	**IE2**	**112 M**	**1LE1001-1BB6.-....**	**1680.–**
5.5	**IE2**	**132 S**	**1LE1001-1CB0.-....**	**1680.–**					
7.5	**IE2**	**132 M**	**1LE1001-1CB2.-....**	**2140.–**	**11**	**IE2**	**132 M**	**1LE1001-1CB6.-....**	**2820.–**
11	**IE2**	**160 M**	**1LE1001-1DB2.-....**	**2820.–**					
15	**IE2**	**160 L**	**1LE1001-1DB4.-....**	**3630.–**	**18.5**	**IE2**	**160 L**	**1LE1001-1DB6.-....**	**4290.–**
18.5	**IE2**	**180 M**	**1LE1001-1EB2.-....**	**4140.–**					
22	**IE2**	**180 L**	**1LE1001-1EB4.-....**	**4820.–**	**30**	**IE2**	**180 L**	**1LE1001-1EB6.-....**	**6240.–**
30	**IE2**	**200 L**	**1LE1001-2AB5.-....**	**6240.–**	**37**	**IE2**	**200 L**	**1LE1001-2AB6.-....**	**7580.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE2 High Efficiency**	
Series version	**Aluminum series 1LE1001**	**Aluminum series 1LE1001 with increased power**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)	Thermal class 155 (F)
Utilization	Thermal class 130 (B)	Thermal class 130 (B)
Number of poles	2, 4, 6, 8	2, 4, 6, 8
Frame sizes (FS)	63 M ... 200 L	63 M ... 200 L
Rated power at 50 Hz	0.12 ... 37 kW	0.29 ... 45 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm	750 ... 3000 rpm
Rated torque at 50 Hz	0.6 ... 215 Nm	1.3 ... 294 Nm
Efficiency	IE2 High Efficiency	IE2 High Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -	N - W - - - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3

Please note minimum legal efficiencies in the European Economic Area!

Please note minimum legal efficiencies in the European Economic Area!

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR	P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR
6-pole: 1000 rpm at 50 Hz									
0.37	**IE2**	**80 M**	**1LE1001-0DC2.-....**	**504.–**					
0.55	**IE2**	**80 M**	**1LE1001-0DC3.-....**	**583.–**					
0.75	**IE2**	**90 S**	**1LE1001-0EC0.-....**	**660.–**					
1.1	**IE2**	**90 L**	**1LE1001-0EC4.-....**	**818.–**					
1.5	**IE2**	**100 L**	**1LE1001-1AC4.-....**	**948.–**	**2.2**	**IE2**	**100 L**	**1LE1001-1AC6.-....**	**1190.–**
2.2	**IE2**	**112 M**	**1LE1001-1BC2.-....**	**1190.–**	**3**	**IE2**	**112 M**	**1LE1001-1BC6.-....**	**1510.–**
3	**IE2**	**132 S**	**1LE1001-1CC0.-....**	**1510.–**					
4	**IE2**	**132 M**	**1LE1001-1CC2.-....**	**1860.–**	**7.5**	**IE2**	**132 M**	**1LE1001-1CC6.-....**	**2960.–**
5.5	**IE2**	**132 M**	**1LE1001-1CC3.-....**	**2350.–**					
7.5	**IE2**	**160 M**	**1LE1001-1DC2.-....**	**2960.–**					
11	**IE2**	**160 L**	**1LE1001-1DC4.-....**	**4090.–**	**15**	**IE2**	**160 L**	**1LE1001-1DC6.-....**	**5280.–**
15	**IE2**	**180 L**	**1LE1001-1EC4.-....**	**5140.–**	**18.5**	**IE2**	**180 L**	**1LE1001-1EC6.-....**	**6280.–**
18.5	**IE2**	**200 L**	**1LE1001-2AC4.-....**	**6280.–**	**30**	**IE2**	**200 L**	**1LE1001-2AC6.-....**	**9760.–**
22	**IE2**	**200 L**	**1LE1001-2AC5.-....**	**7290.–**					
8-pole: 750 rpm at 50 Hz									
0.75	**IE2**	**100 L**	**1LE1001-1AD4.-....**	**1060.–**					
1.1	**IE2**	**100 L**	**1LE1001-1AD5.-....**	**1350.–**					
1.5	**IE2**	**112 M**	**1LE1001-1BD2.-....**	**1600.–**					
2.2	**IE2**	**132 S**	**1LE1001-1CD0.-....**	**2060.–**					
3	**IE2**	**132 M**	**1LE1001-1CD2.-....**	**2510.–**					
4	**IE2**	**160 M**	**1LE1001-1DD2.-....**	**3080.–**					
5.5	**IE2**	**160 M**	**1LE1001-1DD3.-....**	**3780.–**					
7.5	**IE2**	**160 L**	**1LE1001-1DD4.-....**	**4560.–**					
11	**–**	**180 L**	**1LE1001-1ED4.-....**	**5490.–**	**15**	**–**	**180 L**	**1LE1001-1ED6.-....**	**7230.–**
15	**–**	**200 L**	**1LE1001-2AD5.-....**	**7230.–**	**18.5**	**–**	**200 L**	**1LE1001-2AD6.-....**	**8780.–**

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Overview

Category	**Motors with IE2 High Efficiency**
Series version	**Aluminum series 1PC1001** [1] (continued on next page)
Cooling	Self-cooled without external fan (IC 410)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 160 L
Rated power at 50 Hz	0.37 ... 9 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	On request [1]
Efficiency	On request [1]
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3F2

Please note minimum legal efficiencies in the European Economic Area!

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz				
1.4	**IE2**	**100 L**	**1PC1001-1AA4.-....**	**1340.–**
1.6	**IE2**	**112 M**	**1PC1001-1BA2.-....**	**1530.–**
3.1	**IE2**	**132 S**	**1PC1001-1CA0.-....**	**1860.–**
4.3	**IE2**	**132 S**	**1PC1001-1CA1.-....**	**2280.–**
6.3	**IE2**	**160 M**	**1PC1001-1DA2.-....**	**3060.–**
6.5	**IE2**	**160 M**	**1PC1001-1DA3.-....**	**3920.–**
9	**IE2**	**160 L**	**1PC1001-1DA4.-....**	**4620.–**
4-pole: 1500 rpm at 50 Hz				
1.1	**IE2**	**100 L**	**1PC1001-1AB4.-....**	**1240.–**
1.5	**IE2**	**100 L**	**1PC1001-1AB5.-....**	**1380.–**
2	**IE2**	**112 M**	**1PC1001-1BB2.-....**	**1640.–**
2.6	**IE2**	**132 S**	**1PC1001-1CB0.-....**	**1980.–**
4	**IE2**	**132 M**	**1PC1001-1CB2.-....**	**2450.–**
6	**IE2**	**160 M**	**1PC1001-1DB2.-....**	**3120.–**
6.2	**IE2**	**160 L**	**1PC1001-1DB4.-....**	**3980.–**

[1] The rated power and weights may slightly change after they have been checked. Further electrical data can be calculated and supplied on receipt of order.

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Overview

Category	**Motors with IE2 High Efficiency**
Series version	**Aluminum series 1PC1001** [1]
Cooling	Self-cooled without external fan (IC 410)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 160 L
Rated power at 50 Hz	0.37 ... 9 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	On request [1]
Efficiency	On request [1]
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3F2

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No.	Base price EUR
6-pole: 1000 rpm at 50 Hz				
0.85	**O. R.**	**100 L**	**1PC1001-1AC4.-....**	**1210.–**
1.2	**O. R.**	**112 M**	**1PC1001-1BC2.-....**	**1480.–**
1.5	**O. R.**	**132 S**	**1PC1001-1CC0.-....**	**1810.–**
2.5	**O. R.**	**132 M**	**1PC1001-1CC2.-....**	**2150.–**
2.7	**O. R.**	**132 M**	**1PC1001-1CC3.-....**	**2640.–**
5	**O. R.**	**160 M**	**1PC1001-1DC2.-....**	**3260.–**
6.5	**O. R.**	**160 L**	**1PC1001-1DC4.-....**	**4430.–**
8-pole: 750 rpm at 50 Hz				
0.37	**–**	**100 L**	**1PC1001-1AD4.-....**	**1340.–**
0.55	**–**	**100 L**	**1PC1001-1AD5.-....**	**1630.–**
0.75	**–**	**112 M**	**1PC1001-1BD2.-....**	**1880.–**
1.1	**–**	**132 S**	**1PC1001-1CD0.-....**	**2360.–**
1.5	**–**	**132 M**	**1PC1001-1CD2.-....**	**2820.–**
2.4	**–**	**160 M**	**1PC1001-1DD2.-....**	**3400.–**
3.3	**–**	**160 M**	**1PC1001-1DD3.-....**	**4120.–**
4.6	**–**	**160 L**	**1PC1001-1DD4.-....**	**4910.–**

[1] The rated power and weights may slightly change after they have been checked. Further electrical data can be calculated and supplied on receipt of order.

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Overview

Category	**Motors with IE2 High Efficiency**
Series version	**Cast-iron series 1LE1501/1LE1601** **Basic/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.09 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	1.3 ... 1703 Nm
Efficiency	IE2 High Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 71 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
0.37	**IE2**	**71 M**	**1LE1501-0CA2.-....**	**536.–**		
0.55	**IE2**	**71 M**	**1LE1501-0CA3.-....**	**630.–**		
0.75	**IE2**	**80 M**	**1LE1501-0DA2.-....**	**648.–**		
1.1	**IE2**	**80 M**	**1LE1501-0DA3.-....**	**741.–**		
1.5	**IE2**	**90 S**	**1LE1501-0EA0.-....**	**856.–**		
2.2	**IE2**	**90 L**	**1LE1501-0EA4.-....**	**1050.–**		
3	**IE2**	**100 L**	**1LE1501-1AA4.-....**	**1140.–**	**1LE1601-1AA4.-....**	**1260.–**
4	**IE2**	**112 M**	**1LE1501-1BA2.-....**	**1360.–**	**1LE1601-1BA2.-....**	**1480.–**
5.5	**IE2**	**132 S**	**1LE1501-1CA0.-....**	**1690.–**	**1LE1601-1CA0.-....**	**1880.–**
7.5	**IE2**	**132 S**	**1LE1501-1CA1.-....**	**2160.–**	**1LE1601-1CA1.-....**	**2380.–**
11	**IE2**	**160 M**	**1LE1501-1DA2.-....**	**2990.–**	**1LE1601-1DA2.-....**	**3450.–**
15	**IE2**	**160 M**	**1LE1501-1DA3.-....**	**3890.–**	**1LE1601-1DA3.-....**	**4480.–**
18.5	**IE2**	**160 L**	**1LE1501-1DA4.-....**	**4640.–**	**1LE1601-1DA4.-....**	**5340.–**
22	**IE2**	**180 M**	**1LE1501-1EA2.-....**	**5200.–**	**1LE1601-1EA2.-....**	**5720.–**
30	**IE2**	**200 L**	**1LE1501-2AA4.-....**	**6740.–**	**1LE1601-2AA4.-....**	**7410.–**
37	**IE2**	**200 L**	**1LE1501-2AA5.-....**	**8460.–**	**1LE1601-2AA5.-....**	**9310.–**
45	**IE2**	**225 M**	**1LE1501-2BA2.-....**	**9760.–**	**1LE1601-2BA2.-....**	**10700.–**
55	**IE2**	**250 M**	**1LE1501-2CA2.-....**	**11500.–**	**1LE1601-2CA2.-....**	**12900.–**
75	**IE2**	**280 S**	**1LE1501-2DA0.-....**	**15900.–**	**1LE1601-2DA0.-....**	**16300.–**
90	**IE2**	**280 M**	**1LE1501-2DA2.-....**	**18800.–**	**1LE1601-2DA2.-....**	**19700.–**
110	**IE2**	**315 S**	**1LE1501-3AA0.-....**	**22400.–**	**1LE1601-3AA0.-....**	**23800.–**
132	**IE2**	**315 M**	**1LE1501-3AA2.-....**	**27000.–**	**1LE1601-3AA2.-....**	**28300.–**
160	**IE2**	**315 L**	**1LE1501-3AA4.-....**	**33600.–**	**1LE1601-3AA4.-....**	**35200.–**
200	**IE2**	**315 L**	**1LE1501-3AA5.-....**	**41800.–**	**1LE1601-3AA5.-....**	**44000.–**
4-pole: 1500 rpm at 50 Hz						
0.25	**IE2**	**71 M**	**1LE1501-0CB2.-....**	**532.–**		
0.37	**IE2**	**71 M**	**1LE1501-0CB3.-....**	**597.–**		
0.55	**IE2**	**80 M**	**1LE1501-0DB2.-....**	**644.–**		
0.75	**IE2**	**80 M**	**1LE1501-0DB3.-....**	**703.–**		
1.1	**IE2**	**90 S**	**1LE1501-0EB0.-....**	**830.–**		
1.5	**IE2**	**90 L**	**1LE1501-0EB4.-....**	**935.–**		
2.2	**IE2**	**100 L**	**1LE1501-1AB4.-....**	**1040.–**	**1LE1601-1AB4.-....**	**1140.–**
3	**IE2**	**100 L**	**1LE1501-1AB5.-....**	**1190.–**	**1LE1601-1AB5.-....**	**1330.–**
4	**IE2**	**112 M**	**1LE1501-1BB2.-....**	**1460.–**	**1LE1601-1BB2.-....**	**1620.–**
5.5	**IE2**	**132 S**	**1LE1501-1CB0.-....**	**1840.–**	**1LE1601-1CB0.-....**	**2010.–**
7.5	**IE2**	**132 M**	**1LE1501-1CB2.-....**	**2340.–**	**1LE1601-1CB2.-....**	**2550.–**
11	**IE2**	**160 M**	**1LE1501-1DB2.-....**	**3050.–**	**1LE1601-1DB2.-....**	**3510.–**
15	**IE2**	**160 L**	**1LE1501-1DB4.-....**	**3950.–**	**1LE1601-1DB4.-....**	**4560.–**
18.5	**IE2**	**180 M**	**1LE1501-1EB2.-....**	**4410.–**	**1LE1601-1EB2.-....**	**4850.–**
22	**IE2**	**180 L**	**1LE1501-1EB4.-....**	**5130.–**	**1LE1601-1EB4.-....**	**5630.–**
30	**IE2**	**200 L**	**1LE1501-2AB5.-....**	**6640.–**	**1LE1601-2AB5.-....**	**7310.–**
37	**IE2**	**225 S**	**1LE1501-2BB0.-....**	**7790.–**	**1LE1601-2BB0.-....**	**8570.–**
45	**IE2**	**225 M**	**1LE1501-2BB2.-....**	**9180.–**	**1LE1601-2BB2.-....**	**10100.–**
55	**IE2**	**250 M**	**1LE1501-2CB2.-....**	**11100.–**	**1LE1601-2CB2.-....**	**12100.–**
75	**IE2**	**280 S**	**1LE1501-2DB0.-....**	**14900.–**	**1LE1601-2DB0.-....**	**15400.–**
90	**IE2**	**280 M**	**1LE1501-2DB2.-....**	**17500.–**	**1LE1601-2DB2.-....**	**18200.–**
110	**IE2**	**315 S**	**1LE1501-3AB0.-....**	**21900.–**	**1LE1601-3AB0.-....**	**22500.–**
132	**IE2**	**315 M**	**1LE1501-3AB2.-....**	**26000.–**	**1LE1601-3AB2.-....**	**26800.–**
160	**IE2**	**315 L**	**1LE1501-3AB4.-....**	**31300.–**	**1LE1601-3AB4.-....**	**32300.–**
200	**IE2**	**315 L**	**1LE1501-3AB5.-....**	**39200.–**	**1LE1601-3AB5.-....**	**40400.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE2 High Efficiency**
Series version	**Cast-iron series 1LE1501/1LE1601 Basic/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.09 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	1.3 ... 1703 Nm
Efficiency	IE2 High Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 71 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Please note minimum legal efficiencies in the European Economic Area!

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz						
0.18	**IE2**	**71 M**	**1LE1501-0CC2.-....**	**516.–**		
0.25	**IE2**	**71 M**	**1LE1501-0CC3.-....**	**614.–**		
0.37	**IE2**	**80 M**	**1LE1501-0DC2.-....**	**621.–**		
0.55	**IE2**	**80 M**	**1LE1501-0DC3.-....**	**721.–**		
0.75	**IE2**	**90 S**	**1LE1501-0EC0.-....**	**815.–**		
1.1	**IE2**	**90 L**	**1LE1501-0EC4.-....**	**950.–**		
1.5	**IE2**	**100 L**	**1LE1501-1AC4.-....**	**1030.–**	**1LE1601-1AC4.-....**	**1130.–**
2.2	**IE2**	**112 M**	**1LE1501-1BC2.-....**	**1310.–**	**1LE1601-1BC2.-....**	**1420.–**
3	**IE2**	**132 S**	**1LE1501-1CC0.-....**	**1640.–**	**1LE1601-1CC0.-....**	**1810.–**
4	**IE2**	**132 M**	**1LE1501-1CC2.-....**	**2010.–**	**1LE1601-1CC2.-....**	**2210.–**
5.5	**IE2**	**132 M**	**1LE1501-1CC3.-....**	**2530.–**	**1LE1601-1CC3.-....**	**2780.–**
7.5	**IE2**	**160 M**	**1LE1501-1DC2.-....**	**3200.–**	**1LE1601-1DC2.-....**	**3680.–**
11	**IE2**	**160 L**	**1LE1501-1DC4.-....**	**4440.–**	**1LE1601-1DC4.-....**	**5110.–**
15	**IE2**	**180 L**	**1LE1501-1EC4.-....**	**5470.–**	**1LE1601-1EC4.-....**	**6010.–**
18.5	**IE2**	**200 L**	**1LE1501-2AC4.-....**	**6680.–**	**1LE1601-2AC4.-....**	**7360.–**
22	**IE2**	**200 L**	**1LE1501-2AC5.-....**	**7740.–**	**1LE1601-2AC5.-....**	**8510.–**
30	**IE2**	**225 M**	**1LE1501-2BC2.-....**	**10000.–**	**1LE1601-2BC2.-....**	**11000.–**
37	**IE2**	**250 M**	**1LE1501-2CC2.-....**	**12100.–**	**1LE1601-2CC2.-....**	**13500.–**
45	**IE2**	**280 S**	**1LE1501-2DC0.-....**	**14800.–**	**1LE1601-2DC0.-....**	**15300.–**
55	**IE2**	**280 M**	**1LE1501-2DC2.-....**	**17500.–**	**1LE1601-2DC2.-....**	**18200.–**
75	**IE2**	**315 S**	**1LE1501-3AC0.-....**	**24000.–**	**1LE1601-3AC0.-....**	**24600.–**
90	**IE2**	**315 M**	**1LE1501-3AC2.-....**	**27000.–**	**1LE1601-3AC2.-....**	**27700.–**
110	**IE2**	**315 L**	**1LE1501-3AC4.-....**	**32400.–**	**1LE1601-3AC4.-....**	**33500.–**
132	**IE2**	**315 L**	**1LE1501-3AC5.-....**	**38700.–**	**1LE1601-3AC5.-....**	**39900.–**
160	**IE2**	**315 L**	**1LE1501-3AC6.-....**	**46800.–**	**1LE1601-3AC6.-....**	**48300.–**
8-pole: 750 rpm at 50 Hz						
0.09	**–**	**71 M**	**1LE1501-0CD2.-....**	**601.–**		
0.12	**IE2**	**71 M**	**1LE1501-0CD3.-....**	**669.–**		
0.18	**IE2**	**80 M**	**1LE1501-0DD2.-....**	**704.–**		
0.25	**IE2**	**80 M**	**1LE1501-0DD3.-....**	**865.–**		
0.37	**IE2**	**90 S**	**1LE1501-0ED0.-....**	**1010.–**		
0.55	**IE2**	**90 L**	**1LE1501-0ED4.-....**	**1160.–**		
0.75	**IE2**	**100 L**	**1LE1501-1AD4.-....**	**1150.–**	**1LE1601-1AD4.-....**	**1280.–**
1.1	**IE2**	**100 L**	**1LE1501-1AD5.-....**	**1440.–**	**1LE1601-1AD5.-....**	**1600.–**
1.5	**IE2**	**112 M**	**1LE1501-1BD2.-....**	**1710.–**	**1LE1601-1BD2.-....**	**1900.–**
2.2	**IE2**	**132 S**	**1LE1501-1CD0.-....**	**2220.–**	**1LE1601-1CD0.-....**	**2470.–**
3	**IE2**	**132 M**	**1LE1501-1CD2.-....**	**2720.–**	**1LE1601-1CD2.-....**	**3010.–**
4	**IE2**	**160 M**	**1LE1501-1DD2.-....**	**3340.–**	**1LE1601-1DD2.-....**	**3840.–**
5.5	**IE2**	**160 M**	**1LE1501-1DD3.-....**	**4110.–**	**1LE1601-1DD3.-....**	**4710.–**
7.5	**IE2**	**160 L**	**1LE1501-1DD4.-....**	**4950.–**	**1LE1601-1DD4.-....**	**5700.–**
11	**–**	**180 L**	**1LE1501-1ED4.-....**	**5830.–**	**1LE1601-1ED4.-....**	**6430.–**
15	**–**	**200 L**	**1LE1501-2AD5.-....**	**7700.–**	**1LE1601-2AD5.-....**	**8480.–**
18.5	**–**	**225 S**	**1LE1501-2BD0.-....**	**9040.–**	**1LE1601-2BD0.-....**	**9930.–**
22	**–**	**225 M**	**1LE1501-2BD2.-....**	**10300.–**	**1LE1601-2BD2.-....**	**11300.–**
30	**–**	**250 M**	**1LE1501-2CD2.-....**	**13400.–**	**1LE1601-2CD2.-....**	**14700.–**
37	**–**	**280 S**	**1LE1501-2DD0.-....**	**16000.–**	**1LE1601-2DD0.-....**	**16500.–**
45	**–**	**280 M**	**1LE1501-2DD2.-....**	**19500.–**	**1LE1601-2DD2.-....**	**20100.–**
55	**–**	**315 S**	**1LE1501-3AD0.-....**	**23100.–**	**1LE1601-3AD0.-....**	**23900.–**
75	**–**	**315 M**	**1LE1501-3AD2.-....**	**30900.–**	**1LE1601-3AD2.-....**	**31900.–**
90	**–**	**315 L**	**1LE1501-3AD4.-....**	**34500.–**	**1LE1601-3AD4.-....**	**35500.–**
110	**–**	**315 L**	**1LE1501-3AD5.-....**	**41500.–**	**1LE1601-3AD5.-....**	**42800.–**
132	**–**	**315 L**	**1LE1501-3AD6.-....**	**49600.–**	**1LE1601-3AD6.-....**	**51200.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE2 High Efficiency**
Series version	**Cast-iron series 1LE1501/1LE1601 Basic/Performance Line with increased power**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 280 M
Rated power at 50 Hz	2.2 ... 110 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	13 ... 726 Nm
Efficiency	IE2 High Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
4	**IE2**	**100 L**	**1LE1501-1AA6.-....**	**1360.–**	**1LE1601-1AA6.-....**	**1480.–**
5.5	**IE2**	**112 M**	**1LE1501-1BA6.-....**	**1690.–**	**1LE1601-1BA6.-....**	**1880.–**
11	**IE2**	**132 M**	**1LE1501-1CA6.-....**	**2990.–**	**1LE1601-1CA6.-....**	**3270.–**
22	**IE2**	**160 L**	**1LE1501-1DA6.-....**	**5490.–**	**1LE1601-1DA6.-....**	**6290.–**
30	**IE2**	**180 M**	**1LE1501-1EA6.-....**	**6870.–**	**1LE1601-1EA6.-....**	**7560.–**
45	**IE2**	**200 L**	**1LE1501-2AA6.-....**	**10300.–**	**1LE1601-2AA6.-....**	**11300.–**
55	**IE2**	**225 M**	**1LE1501-2BA6.-....**	**11700.–**	**1LE1601-2BA6.-....**	**13100.–**
75	**IE2**	**250 M**	**1LE1501-2CA6.-....**	**16200.–**	**1LE1601-2CA6.-....**	**16600.–**
110	**IE2**	**280 M**	**1LE1501-2DA6.-....**	**23000.–**	**1LE1601-2DA6.-....**	**24200.–**
4-pole: 1500 rpm at 50 Hz						
4	**IE2**	**100 L**	**1LE1501-1AB6.-....**	**1460.–**	**1LE1601-1AB6.-....**	**1620.–**
5.5	**IE2**	**112 M**	**1LE1501-1BB6.-....**	**1840.–**	**1LE1601-1BB6.-....**	**2010.–**
11	**IE2**	**132 M**	**1LE1501-1CB6.-....**	**3050.–**	**1LE1601-1CB6.-....**	**3360.–**
18.5	**IE2**	**160 L**	**1LE1501-1DB6.-....**	**4650.–**	**1LE1601-1DB6.-....**	**5370.–**
30	**IE2**	**180 M**	**1LE1501-1EB6.-....**	**6770.–**	**1LE1601-1EB6.-....**	**7450.–**
37	**IE2**	**200 L**	**1LE1501-2AB6.-....**	**8220.–**	**1LE1601-2AB6.-....**	**9060.–**
55	**IE2**	**225 M**	**1LE1501-2BB6.-....**	**11300.–**	**1LE1601-2BB6.-....**	**12500.–**
75	**IE2**	**250 M**	**1LE1501-2CB6.-....**	**15300.–**	**1LE1601-2CB6.-....**	**15800.–**
110	**IE2**	**280 M**	**1LE1501-2DB6.-....**	**22300.–**	**1LE1601-2DB6.-....**	**23100.–**
6-pole: 1000 rpm at 50 Hz						
2.2	**IE2**	**100 L**	**1LE1501-1AC6.-....**	**1310.–**	**1LE1601-1AC6.-....**	**1420.–**
3	**IE2**	**112 M**	**1LE1501-1BC6.-....**	**1640.–**	**1LE1601-1BC6.-....**	**1810.–**
7.5	**IE2**	**132 M**	**1LE1501-1CC6.-....**	**3200.–**	**1LE1601-1CC6.-....**	**3530.–**
15	**IE2**	**160 L**	**1LE1501-1DC6.-....**	**5750.–**	**1LE1601-1DC6.-....**	**6610.–**
18.5	**IE2**	**180 M**	**1LE1501-1EC6.-....**	**6810.–**	**1LE1601-1EC6.-....**	**7500.–**
30	**IE2**	**200 L**	**1LE1501-2AC6.-....**	**10600.–**	**1LE1601-2AC6.-....**	**11600.–**
37	**IE2**	**225 M**	**1LE1501-2BC6.-....**	**12500.–**	**1LE1601-2BC6.-....**	**13700.–**
45	**IE2**	**250 M**	**1LE1501-2CC6.-....**	**15200.–**	**1LE1601-2CC6.-....**	**15600.–**
75	**IE2**	**280 M**	**1LE1501-2DC6.-....**	**24400.–**	**1LE1601-2DC6.-....**	**25100.–**
8-pole: 750 rpm at 50 Hz						
15	**IE2**	**180 M**	**1LE1501-1ED6.-....**	**7700.–**	**1LE1601-1ED6.-....**	**8480.–**
18.5	**IE2**	**200 L**	**1LE1501-2AD6.-....**	**9350.–**	**1LE1601-2AD6.-....**	**10300.–**
30	**IE2**	**225 M**	**1LE1501-2BD6.-....**	**13400.–**	**1LE1601-2BD6.-....**	**14700.–**
37	**IE2**	**250 M**	**1LE1501-2CD6.-....**	**16000.–**	**1LE1601-2CD6.-....**	**16500.–**
55	**IE2**	**280 M**	**1LE1501-2DD6.-....**	**23100.–**	**1LE1601-2DD6.-....**	**23900.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE2 High Efficiency**	
Series version	**Aluminum series 1LE1041**	**Aluminum series 1LE1041 with increased power**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)	Thermal class 155 (F)
Utilization	Thermal class 130 (B)	Thermal class 130 (B)
Number of poles	2, 4, 6	2, 4, 6
Frame sizes (FS)	80 M ... 160 L	100 L ... 160 L
Rated power at 50 Hz	0.75 ... 18.5 kW	4 ... 22 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm	1000 ... 3000 rpm
Rated torque at 50 Hz	2.1 ... 89 Nm	10 ... 121 Nm
Efficiency	IE2 High Efficiency	IE2 High Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -	N - W - - - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1, Frame sizes 100 ... 160: 3F2	3F2

Please note minimum legal efficiencies in the European Economic Area!

Please note minimum legal efficiencies in the European Economic Area!

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR	P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz									
0.75	**IE2**	**80 M**	**1LE1041-0DA2.-....**	**557.–**					
1.5	**IE2**	**90 S**	**1LE1041-0EA0.-....**	**734.–**					
2.2	**IE2**	**90 L**	**1LE1041-0EA4.-....**	**949.–**					
					4	**IE2**	**100 L**	**1LE1041-1AA6.-....**	**1330.–**
4	**IE2**	**112 M**	**1LE1041-1BA2.-....**	**1330.–**	**5.5**	**IE2**	**112 M**	**1LE1041-1BA6.-....**	**1650.–**
5.5	**IE2**	**132 S**	**1LE1041-1CA0.-....**	**1650.–**					
7.5	**IE2**	**132 S**	**1LE1041-1CA1.-....**	**2110.–**					
					11	**IE2**	**132 M**	**1LE1041-1CA6.-....**	**2920.–**
11	**IE2**	**160 M**	**1LE1041-1DA2.-....**	**2920.–**					
15	**IE2**	**160 M**	**1LE1041-1DA3.-....**	**3810.–**					
18.5	**IE2**	**160 L**	**1LE1041-1DA4.-....**	**4550.–**	**22**	**IE2**	**160 L**	**1LE1041-1DA6.-....**	**5370.–**
4-pole: 1500 rpm at 50 Hz									
0.75	**IE2**	**80 M**	**1LE1041-0DB3.-....**	**604.–**					
1.5	**IE2**	**90 L**	**1LE1041-0EB4.-....**	**847.–**					
2.2	**IE2**	**100 L**	**1LE1041-1AB4.-....**	**1020.–**	**4**	**IE2**	**100 L**	**1LE1041-1AB6.-....**	**1430.–**
4	**IE2**	**112 M**	**1LE1041-1BB2.-....**	**1430.–**	**5.5**	**IE2**	**112 M**	**1LE1041-1BB6.-....**	**1800.–**
5.5	**IE2**	**132 S**	**1LE1041-1CB0.-....**	**1800.–**					
7.5	**IE2**	**132 M**	**1LE1041-1CB2.-....**	**2250.–**	**11**	**IE2**	**132 M**	**1LE1041-1CB6.-....**	**2990.–**
11	**IE2**	**160 M**	**1LE1041-1DB2.-....**	**2990.–**					
15	**IE2**	**160 L**	**1LE1041-1DB4.-....**	**3860.–**	**18.5**	**IE2**	**160 L**	**1LE1041-1DB6.-....**	**4560.–**
6-pole: 1000 rpm at 50 Hz									
0.75	**IE2**	**90 S**	**1LE1041-0EC0.-....**	**699.–**					
1.5	**IE2**	**100 L**	**1LE1041-1AC4.-....**	**1000.–**					
2.2	**IE2**	**112 M**	**1LE1041-1BC2.-....**	**1280.–**					
4	**IE2**	**132 M**	**1LE1041-1CC2.-....**	**1970.–**					
5.5	**IE2**	**132 M**	**1LE1041-1CC3.-....**	**2480.–**	**7.5**	**IE2**	**132 M**	**1LE1041-1CC6.-....**	**3150.–**
7.5	**IE2**	**160 M**	**1LE1041-1DC2.-....**	**3150.–**					
11	**IE2**	**160 L**	**1LE1041-1DC4.-....**	**4320.–**	**15**	**IE2**	**160 L**	**1LE1041-1DC6.-....**	**5610.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	Motors with IE2 High Efficiency	
Series version	Cast-iron series 1LE1541 Basic Line	Cast-iron series 1LE1541 Basic Line with increased power
Cooling	Self-ventilated (IC 411)	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)	Thermal class 155 (F)
Utilization	Thermal class 130 (B)	Thermal class 130 (B)
Number of poles	2, 4, 6	2, 4, 6
Frame sizes (FS)	180 M ... 315 L	180 L ... 315 L
Rated power at 50 Hz	15 ... 200 kW	18.5 ... 160 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm	1000 ... 3000 rpm
Rated torque at 50 Hz	59 ... 1059 Nm	81 ... 1202 Nm
Efficiency	IE2 High Efficiency	IE2 High Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -	N - W - - - - -
Price group (PG)	Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4	Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Please note minimum legal efficiencies in the European Economic Area!

Please note minimum legal efficiencies in the European Economic Area!

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. Basic Line	Base price	P_{rated}, 50 Hz	IE class	Frame size	Article No. Basic Line	Base price
kW		FS		EUR	kW		FS		EUR
2-pole: 3000 rpm at 50 Hz									
22	IE2	180 M	1LE1541-1EA2.-....	5520.–					
30	IE2	200 L	1LE1541-2AA4.-....	7140.–	30	IE2	180 L	1LE1541-1EA6.-....	7290.–
37	IE2	200 L	1LE1541-2AA5.-....	8980.–	45	IE2	200 L	1LE1541-2AA6.-....	10900.–
45	IE2	225 M	1LE1541-2BA2.-....	10300.–	55	IE2	225 M	1LE1541-2BA6.-....	12500.–
55	IE2	250 M	1LE1541-2CA2.-....	12100.–	75	IE2	250 M	1LE1541-2CA6.-....	17100.–
75	IE2	280 S	1LE1541-2DA0.-....	16800.–					
90	IE2	280 M	1LE1541-2DA2.-....	19900.–	110	IE2	280 M	1LE1541-2DA6.-....	24400.–
110	IE2	315 S	1LE1541-3AA0.-....	23900.–					
132	IE2	315 M	1LE1541-3AA2.-....	28600.–					
160	IE2	315 L	1LE1541-3AA4.-....	35500.–					
200	IE2	315 L	1LE1541-3AA5.-....	44400.–					
4-pole: 1500 rpm at 50 Hz									
18.5	IE2	180 M	1LE1541-1EB2.-....	4650.–					
22	IE2	180 L	1LE1541-1EB4.-....	5440.–	30	IE2	180 L	1LE1541-1EB6.-....	7170.–
30	IE2	200 L	1LE1541-2AB5.-....	7040.–	37	IE2	200 L	1LE1541-2AB6.-....	8730.–
37	IE2	225 S	1LE1541-2BB0.-....	8260.–					
45	IE2	225 M	1LE1541-2BB2.-....	9730.–	55	IE2	225 M	1LE1541-2BB6.-....	11900.–
55	IE2	250 M	1LE1541-2CB2.-....	11700.–	75	IE2	250 M	1LE1541-2CB6.-....	16200.–
75	IE2	280 S	1LE1541-2DB0.-....	15900.–					
90	IE2	280 M	1LE1541-2DB2.-....	18700.–	110	IE2	280 M	1LE1541-2DB6.-....	23800.–
110	IE2	315 S	1LE1541-3AB0.-....	23400.–					
132	IE2	315 M	1LE1541-3AB2.-....	27500.–					
160	IE2	315 L	1LE1541-3AB4.-....	33200.–					
200	IE2	315 L	1LE1541-3AB5.-....	41600.–					
6-pole: 1000 rpm at 50 Hz									
15	IE2	180 L	1LE1541-1EC4.-....	5790.–	18,5	IE2	180 L	1LE1541-1EC6.-....	7220.–
18.5	IE2	200 L	1LE1541-2AC4.-....	7080.–					
22	IE2	200 L	1LE1541-2AC5.-....	8200.–	30	IE2	200 L	1LE1541-2AC6.-....	11200.–
30	IE2	225 M	1LE1541-2BC2.-....	10600.–	37	IE2	225 M	1LE1541-2BC6.-....	13300.–
37	IE2	250 M	1LE1541-2CC2.-....	13100.–	45	IE2	250 M	1LE1541-2CC6.-....	16100.–
45	IE2	280 S	1LE1541-2DC0.-....	15800.–					
55	IE2	280 M	1LE1541-2DC2.-....	18700.–	75	IE2	280 M	1LE1541-2DC6.-....	25700.–
75	IE2	315 S	1LE1541-3AC0.-....	25300.–					
90	IE2	315 M	1LE1541-3AC2.-....	28600.–					
110	IE2	315 L	1LE1541-3AC4.-....	34500.–					
132	IE2	315 L	1LE1541-3AC5.-....	41000.–	160	IE2	315 L	1LE1541-3AC6.-....	49700.–

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE1 Standard Efficiency**	
Series version	**Aluminum series 1LE1002** (continued on next page)	**Aluminum series 1LE1002 with increased power** (continued on next page)
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)	Thermal class 155 (F)
Utilization	Thermal class 130 (B)	Thermal class 130 (B)
Number of poles	2, 4, 6, 8	2, 4, 6
Frame sizes (FS)	63 M ... 200 L	63 M ... 160 L
Rated power at 50 Hz	0.09 ... 37 kW	0.25 ... 22 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm	1000 ... 3000 rpm
Rated torque at 50 Hz	2.5 ... 109 Nm	13 ... 148 Nm
Efficiency	IE1 Standard Efficiency	IE1 Standard Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -	N - W - - - - -
Price group (PG)	Frame sizes 63 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3	Frame sizes 63 ... 71: 3F1, Frame sizes 100 ... 160: 3F2

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR	P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz									
0.18	IE1	63 M	1LE1002-0BA2.-....	319.–					
0.25	IE1	63 M	1LE1002-0BA3.-....	338.–	0.37	IE1	63 M	1LE1002-0BA6.-....	342.–
0.37	IE1	71 M	1LE1002-0CA2.-....	342.–					
0.55	IE1	71 M	1LE1002-0CA3.-....	383.–	0.86	IE1	71 M	1LE1002-0CA6.-....	464.–
0.75	IE1	80 M	1LE1002-0DA2.-....	464.–					
1.1	IE1	80 M	1LE1002-0DA3.-....	528.–					
1.5	IE1	90 M	1LE1002-0EA0.-....	582.–					
2.2	IE1	90 M	1LE1002-0EA4.-....	742.–					
3	IE1	100 L	1LE1002-1AA4.-....	817.–	4	IE1	100 L	1LE1002-1AA6.-....	1010.–
4	IE1	112 M	1LE1002-1BA2.-....	1010.–	5.5	IE1	112 M	1LE1002-1BA6.-....	1300.–
5.5	IE1	132 S	1LE1002-1CA0.-....	1300.–					
7.5	IE1	132 S	1LE1002-1CA1.-....	1660.–					
					11	IE1	132 M	1LE1002-1CA6.-....	2320.–
11	IE1	160 M	1LE1002-1DA2.-....	2320.–					
15	IE1	160 M	1LE1002-1DA3.-....	3020.–					
18.5	IE1	160 L	1LE1002-1DA4.-....	3600.–	22	IE1	160 L	1LE1002-1DA6.-....	4250.–
22	IE1	180 M	1LE1002-1EA2.-....	4110.–					
30	IE1	200 L	1LE1002-2AA4.-....	5300.–					
37	IE1	200 L	1LE1002-2AA5.-....	6960.–					
4-pole: 1500 rpm at 50 Hz									
0.12	IE1	63 M	1LE1002-0BB2.-....	314.–					
0.18	IE1	63 M	1LE1002-0BB3.-....	338.–	0.25	IE1	63 M	1LE1002-0BB6.-....	339.–
0.25	IE1	71 M	1LE1002-0CB2.-....	339.–					
0.37	IE1	71 M	1LE1002-0CB3.-....	377.–	0.55	IE1	71 M	1LE1002-0CB6.-....	467.–
0.55	IE1	80 M	1LE1002-0DB2.-....	443.–					
0.75	IE1	80 M	1LE1002-0DB3.-....	483.–					
1.1	IE1	90 M	1LE1002-0EB0.-....	573.–					
1.5	IE1	90 M	1LE1002-0EB4.-....	645.–					
2.2	IE1	100 L	1LE1002-1AB4.-....	719.–	4	IE1	100 L	1LE1002-1AB6.-....	1050.–
3	IE1	100 L	1LE1002-1AB5.-....	828.–					
4	IE1	112 M	1LE1002-1BB2.-....	1050.–	5.5	IE1	112 M	1LE1002-1BB6.-....	1360.–
5.5	IE1	132 S	1LE1002-1CB0.-....	1360.–					
7.5	IE1	132 M	1LE1002-1CB2.-....	1720.–	11	IE1	132 M	1LE1002-1CB6.-....	2370.–
11	IE1	160 M	1LE1002-1DB2.-....	2370.–					
15	IE1	160 L	1LE1002-1DB4.-....	3080.–	18.5	IE1	160 L	1LE1002-1DB6.-....	3710.–
18	IE1	180 M	1LE1002-1EB2.-....	3560.–					
22	IE1	180 L	1LE1002-1EB4.-....	4210.–					
30	IE1	200 L	1LE1002-2AB5.-....	5590.–					

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Overview

Category	**Motors with IE1 Standard Efficiency**	
Series version	**Aluminum series 1LE1002**	**Aluminum series 1LE1002 with increased power**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)	Thermal class 155 (F)
Utilization	Thermal class 130 (B)	Thermal class 130 (B)
Number of poles	2, 4, 6, 8	2, 4, 6
Frame sizes (FS)	63 M ... 200 L	63 M ... 160 L
Rated power at 50 Hz	0.09 ... 37 kW	0.25 ... 22 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm	1000 ... 3000 rpm
Rated torque at 50 Hz	2.5 ... 109 Nm	13 ... 148 Nm
Efficiency	IE1 Standard Efficiency	IE1 Standard Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -	N - W - - - - -
Price group (PG)	Frame sizes 63 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3	Frame sizes 100 ... 160: 3F2

Please note minimum legal efficiencies in the European Economic Area!

Please note minimum legal efficiencies in the European Economic Area!

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR	P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No.	Base price EUR
6-pole: 1000 rpm at 50 Hz									
0.09	**IE1**	**63 M**	**1LE1002-0BC2.-....**	**339.–**					
0.18	**IE1**	**71 M**	**1LE1002-0CC2.-....**	**361.–**					
0.25	**IE1**	**71 M**	**1LE1002-0CC3.-....**	**402.–**					
0.37	**IE1**	**80 M**	**1LE1002-0DC2.-....**	**464.–**					
0.55	**IE1**	**80 M**	**1LE1002-0DC3.-....**	**537.–**					
0.75	**IE1**	**90 M**	**1LE1002-0EC0.-....**	**605.–**					
1.1	**IE1**	**90 M**	**1LE1002-0EC4.-....**	**747.–**					
1.5	**IE1**	**100 L**	**1LE1002-1AC4.-....**	**766.–**	**2.2**	**IE1**	**100 L**	**1LE1002-1AC6.-....**	**959.–**
2.2	**IE1**	**112 M**	**1LE1002-1BC2.-....**	**959.–**	**3**	**IE1**	**112 M**	**1LE1002-1BC6.-....**	**1200.–**
3	**IE1**	**132 S**	**1LE1002-1CC0.-....**	**1200.–**					
4	**IE1**	**132 M**	**1LE1002-1CC2.-....**	**1510.–**	**7.5**	**IE1**	**132 M**	**1LE1002-1CC6.-....**	**2480.–**
5.5	**IE1**	**132 M**	**1LE1002-1CC3.-....**	**1910.–**					
7.5	**IE1**	**160 M**	**1LE1002-1DC2.-....**	**2480.–**					
11	**IE1**	**160 L**	**1LE1002-1DC4.-....**	**3440.–**	**15**	**IE1**	**160 L**	**1LE1002-1DC6.-....**	**4460.–**
15	**IE1**	**180 L**	**1LE1002-1EC4.-....**	**4300.–**					
18.5	**IE1**	**200 L**	**1LE1002-2AC4.-....**	**5270.–**					
22	**IE1**	**200 L**	**1LE1002-2AC5.-....**	**6220.–**					
8-pole: 750 rpm at 50 Hz									
0.09	**IE1**	**71 M**	**1LE1002-0CD2.-....**	**378.–**					
0.12	**IE1**	**71 M**	**1LE1002-0CD3.-....**	**427.–**					
0.75	**IE1**	**100 L**	**1LE1002-1AD4.-....**	**797.–**					
1.1	**IE1**	**100 L**	**1LE1002-1AD5.-....**	**1010.–**					
1.5	**IE1**	**112 M**	**1LE1002-1BD2.-....**	**1190.–**					
2.2	**IE1**	**132 S**	**1LE1002-1CD0.-....**	**1550.–**					
3	**IE1**	**132 M**	**1LE1002-1CD2.-....**	**1890.–**					
4	**IE1**	**160 M**	**1LE1002-1DD2.-....**	**2320.–**					
5.5	**IE1**	**160 M**	**1LE1002-1DD3.-....**	**2880.–**					
7.5	**IE1**	**160 L**	**1LE1002-1DD4.-....**	**3550.–**					
13.2	**IE1**	**180 L**	**1LE1002-1ED4.-....**	**4540.–**					
15	**IE1**	**200 L**	**1LE1002-2AD5.-....**	**5970.–**					

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE1 Standard Efficiency**
Series version	**Aluminum series 1PC1002** [1]
Cooling	Self-cooled without external fan (IC 410)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 160 L
Rated power at 50 Hz	0.3 ... 7.4 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	On request [1]
Efficiency	On request [1]
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2

Please note minimum legal efficiencies in the European Economic Area!

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz				
1.2	**IE1**	**100 L**	**1PC1002-1AA4.-....**	**993.–**
1.6	**IE1**	**112 M**	**1PC1002-1BA2.-....**	**1170.–**
2.2	**IE1**	**132 S**	**1PC1002-1CA0.-....**	**1510.–**
3	**IE1**	**132 S**	**1PC1002-1CA1.-....**	**1850.–**
4.4	**IE1**	**160 M**	**1PC1002-1DA2.-....**	**2410.–**
6	**IE1**	**160 M**	**1PC1002-1DA3.-....**	**3010.–**
7.4	**IE1**	**160 L**	**1PC1002-1DA4.-....**	**3530.–**
4-pole: 1500 rpm at 50 Hz				
0.88	**IE1**	**100 L**	**1PC1002-1AB4.-....**	**890.–**
1.2	**IE1**	**100 L**	**1PC1002-1AB5.-....**	**1010.–**
1.6	**IE1**	**112 M**	**1PC1002-1BB2.-....**	**1240.–**
2.2	**IE1**	**132 S**	**1PC1002-1CB0.-....**	**1550.–**
3	**IE1**	**132 M**	**1PC1002-1CB2.-....**	**1880.–**
4.4	**IE1**	**160 M**	**1PC1002-1DB2.-....**	**2450.–**
6	**IE1**	**160 L**	**1PC1002-1DB4.-....**	**3120.–**
6-pole: 1000 rpm at 50 Hz				
0.6	**IE1**	**100 L**	**1PC1002-1AC4.-....**	**932.–**
0.88	**IE1**	**112 M**	**1PC1002-1BC2.-....**	**1120.–**
1.2	**IE1**	**132 S**	**1PC1002-1CC0.-....**	**1420.–**
1.6	**IE1**	**132 M**	**1PC1002-1CC2.-....**	**1710.–**
2.2	**IE1**	**132 M**	**1PC1002-1CC3.-....**	**2120.–**
3	**IE1**	**160 M**	**1PC1002-1DC2.-....**	**2600.–**
4.4	**IE1**	**160 L**	**1PC1002-1DC4.-....**	**3350.–**
8-pole: 750 rpm at 50 Hz				
0.3	**IE1**	**100 L**	**1PC1002-1AD4.-....**	**979.–**
0.44	**IE1**	**100 L**	**1PC1002-1AD5.-....**	**1170.–**
0.6	**IE1**	**112 M**	**1PC1002-1BD2.-....**	**1380.–**
0.88	**IE1**	**132 S**	**1PC1002-1CD0.-....**	**1750.–**
1.2	**IE1**	**132 M**	**1PC1002-1CD2.-....**	**2040.–**
1.6	**IE1**	**160 M**	**1PC1002-1DD2.-....**	**2390.–**
2.2	**IE1**	**160 M**	**1PC1002-1DD3.-....**	**2850.–**
3	**IE1**	**160 L**	**1PC1002-1DD4.-....**	**3410.–**

[1] The rated power and weights may slightly change after they have been checked. Further electrical data can be calculated and supplied on receipt of order.

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Overview

Category	**Motors with IE1 Standard Efficiency**
Series version	**Cast-iron series 1LE1502 Basic Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 315 L
Rated power at 50 Hz	0.75 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	10 ... 1703 Nm
Efficiency	IE1 Standard Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Please note minimum legal efficiencies in the European Economic Area!

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**
kW		FS		EUR	kW		FS		EUR
2-pole: 3000 rpm at 50 Hz					**6-pole: 1000 rpm at 50 Hz**				
3	**IE1**	**100 L**	**1LE1502-1AA4.-....**	**926.–**	**1.5**	**IE1**	**100 L**	**1LE1502-1AC4.-....**	**865.–**
4	**IE1**	**112 M**	**1LE1502-1BA2.-....**	**1140.–**	**2.2**	**IE1**	**112 M**	**1LE1502-1BC2.-....**	**1080.–**
5.5	**IE1**	**132 S**	**1LE1502-1CA0.-....**	**1410.–**	**3**	**IE1**	**132 S**	**1LE1502-1CC0.-....**	**1350.–**
7.5	**IE1**	**132 S**	**1LE1502-1CA1.-....**	**1840.–**	**4**	**IE1**	**132 M**	**1LE1502-1CC2.-....**	**1660.–**
11	**IE1**	**160 M**	**1LE1502-1DA2.-....**	**2450.–**	**5.5**	**IE1**	**132 M**	**1LE1502-1CC3.-....**	**2110.–**
15	**IE1**	**160 M**	**1LE1502-1DA3.-....**	**3230.–**	**7.5**	**IE1**	**160 M**	**1LE1502-1DC2.-....**	**2680.–**
18.5	**IE1**	**160 L**	**1LE1502-1DA4.-....**	**3880.–**	**11**	**IE1**	**160 L**	**1LE1502-1DC4.-....**	**3680.–**
22	**IE1**	**180 M**	**1LE1502-1EA2.-....**	**4220.–**	**15**	**IE1**	**180 L**	**1LE1502-1EC4.-....**	**4460.–**
30	**IE1**	**200 L**	**1LE1502-2AA4.-....**	**5500.–**	**18.5**	**IE1**	**200 L**	**1LE1502-2AC4.-....**	**5470.–**
37	**IE1**	**200 L**	**1LE1502-2AA5.-....**	**7190.–**	**22**	**IE1**	**200 L**	**1LE1502-2AC5.-....**	**6430.–**
45	**IE1**	**225 M**	**1LE1502-2BA2.-....**	**8440.–**	**30**	**IE1**	**225 M**	**1LE1502-2BC2.-....**	**8530.–**
55	**IE1**	**250 M**	**1LE1502-2CA2.-....**	**10300.–**	**37**	**IE1**	**250 M**	**1LE1502-2CC2.-....**	**10300.–**
75	**IE1**	**280 S**	**1LE1502-2DA0.-....**	**14100.–**	**45**	**IE1**	**280 S**	**1LE1502-2DC0.-....**	**12800.–**
90	**IE1**	**280 M**	**1LE1502-2DA2.-....**	**17100.–**	**55**	**IE1**	**280 M**	**1LE1502-2DC2.-....**	**15300.–**
110	**IE1**	**315 S**	**1LE1502-3AA0.-....**	**20900.–**	**75**	**IE1**	**315 S**	**1LE1502-3AC0.-....**	**20900.–**
132	**IE1**	**315 M**	**1LE1502-3AA2.-....**	**25000.–**	**90**	**IE1**	**315 M**	**1LE1502-3AC2.-....**	**25000.–**
160	**IE1**	**315 L**	**1LE1502-3AA4.-....**	**31000.–**	**110**	**IE1**	**315 L**	**1LE1502-3AC4.-....**	**30200.–**
200	**IE1**	**315 L**	**1LE1502-3AA5.-....**	**38800.–**	**132**	**IE1**	**315 L**	**1LE1502-3AC5.-....**	**35700.–**
					160	**IE1**	**315 L**	**1LE1502-3AC6.-....**	**43400.–**
4-pole: 1500 rpm at 50 Hz					**8-pole: 750 rpm at 50 Hz**				
2.2	**IE1**	**100 L**	**1LE1502-1AB4.-....**	**811.–**	**0.75**	**IE1**	**100 L**	**1LE1502-1AD4.-....**	**897.–**
3	**IE1**	**100 L**	**1LE1502-1AB5.-....**	**935.–**	**1.1**	**IE1**	**100 L**	**1LE1502-1AD5.-....**	**1140.–**
4	**IE1**	**112 M**	**1LE1502-1BB2.-....**	**1190.–**	**1.5**	**IE1**	**112 M**	**1LE1502-1BD2.-....**	**1360.–**
5.5	**IE1**	**132 S**	**1LE1502-1CB0.-....**	**1480.–**	**2.2**	**IE1**	**132 S**	**1LE1502-1CD0.-....**	**1710.–**
7.5	**IE1**	**132 M**	**1LE1502-1CB2.-....**	**1880.–**	**3**	**IE1**	**132 M**	**1LE1502-1CD2.-....**	**2070.–**
11	**IE1**	**160 M**	**1LE1502-1DB2.-....**	**2550.–**	**4**	**IE1**	**160 M**	**1LE1502-1DD2.-....**	**2450.–**
15	**IE1**	**160 L**	**1LE1502-1DB4.-....**	**3290.–**	**5.5**	**IE1**	**160 M**	**1LE1502-1DD3.-....**	**3090.–**
18.5	**IE1**	**180 M**	**1LE1502-1EB2.-....**	**3680.–**	**7.5**	**IE1**	**160 L**	**1LE1502-1DD4.-....**	**3860.–**
22	**IE1**	**180 L**	**1LE1502-1EB4.-....**	**4350.–**	**11**	**IE1**	**180 L**	**1LE1502-1ED4.-....**	**4660.–**
30	**IE1**	**200 L**	**1LE1502-2AB5.-....**	**5780.–**	**15**	**IE1**	**200 L**	**1LE1502-2AD5.-....**	**6170.–**
37	**IE1**	**225 S**	**1LE1502-2BB0.-....**	**6790.–**	**18.5**	**IE1**	**225 S**	**1LE1502-2BD0.-....**	**7220.–**
45	**IE1**	**225 M**	**1LE1502-2BB2.-....**	**8210.–**	**22**	**IE1**	**225 S**	**1LE1502-2BD2.-....**	**8380.–**
55	**IE1**	**250 M**	**1LE1502-2CB2.-....**	**9990.–**	**30**	**IE1**	**250 M**	**1LE1502-2CD2.-....**	**11000.–**
75	**IE1**	**280 S**	**1LE1502-2DB0.-....**	**13700.–**	**37**	**IE1**	**280 S**	**1LE1502-2DD0.-....**	**13400.–**
90	**IE1**	**280 M**	**1LE1502-2DB2.-....**	**16100.–**	**45**	**IE1**	**280 S**	**1LE1502-2DD2.-....**	**16200.–**
110	**IE1**	**315 S**	**1LE1502-3AB0.-....**	**20000.–**	**55**	**IE1**	**315 S**	**1LE1502-3AD0.-....**	**19800.–**
132	**IE1**	**315 M**	**1LE1502-3AB2.-....**	**23700.–**	**75**	**IE1**	**315 M**	**1LE1502-3AD2.-....**	**26500.–**
160	**IE1**	**315 L**	**1LE1502-3AB4.-....**	**29200.–**	**90**	**IE1**	**315 L**	**1LE1502-3AD4.-....**	**31200.–**
200	**IE1**	**315 L**	**1LE1502-3AB5.-....**	**36200.–**	**110**	**IE1**	**315 L**	**1LE1502-3AD5.-....**	**37700.–**
					132	**IE1**	**315 L**	**1LE1502-3AD6.-....**	**45200.–**

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Overview

Category	**Motors with IE1 Standard Efficiency**
Series version	**Cast-iron series 1LE1502 Basic Line with increased power**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 155 (F)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 280 M
Rated power at 50 Hz	2.2 ... 110 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	13 ... 727 Nm
Efficiency	IE1 Standard Efficiency
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 280: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**
kW		FS		EUR
2-pole: 3000 rpm at 50 Hz				
4	**IE1**	**100 L**	**1LE1502-1AA6.-....**	**1140.–**
5.5	**IE1**	**112 M**	**1LE1502-1BA6.-....**	**1410.–**
11	**IE1**	**132 M**	**1LE1502-1CA6.-....**	**2450.–**
22	**IE1**	**160 L**	**1LE1502-1DA6.-....**	**4220.–**
30	**IE1**	**180 L**	**1LE1502-1EA6.-....**	**5500.–**
45	**IE1**	**200 L**	**1LE1502-2AA6.-....**	**7980.–**
55	**IE1**	**225 M**	**1LE1502-2BA6.-....**	**9360.–**
75	**IE1**	**250 M**	**1LE1502-2CA6.-....**	**12100.–**
110	**IE1**	**280 M**	**1LE1502-2DA6.-....**	**18900.–**
4-pole: 1500 rpm at 50 Hz				
4	**IE1**	**100 L**	**1LE1502-1AB6.-....**	**1190.–**
5.5	**IE1**	**112 M**	**1LE1502-1BB6.-....**	**1480.–**
11	**IE1**	**132 M**	**1LE1502-1CB6.-....**	**2550.–**
18.5	**IE1**	**160 L**	**1LE1502-1DB6.-....**	**3680.–**
30	**IE1**	**180 L**	**1LE1502-1EB6.-....**	**5780.–**
37	**IE1**	**200 L**	**1LE1502-2AB6.-....**	**6790.–**
55	**IE1**	**225 M**	**1LE1502-2BB6.-....**	**9090.–**
75	**IE1**	**250 M**	**1LE1502-2CB6.-....**	**11700.–**
110	**IE1**	**280 M**	**1LE1502-2DB6.-....**	**18000.–**
6-pole: 1000 rpm at 50 Hz				
2.2	**IE1**	**100 L**	**1LE1502-1AC6.-....**	**1080.–**
3	**IE1**	**112 M**	**1LE1502-1BC6.-....**	**1350.–**
7.5	**IE1**	**132 M**	**1LE1502-1CC6.-....**	**2680.–**
15	**IE1**	**160 L**	**1LE1502-1DC6.-....**	**4460.–**
18.5	**IE1**	**180 S**	**1LE1502-1EC6.-....**	**5470.–**
30	**IE1**	**200 L**	**1LE1502-2AC6.-....**	**8530.–**
37	**IE1**	**225 M**	**1LE1502-2BC6.-....**	**9450.–**
45	**IE1**	**250 M**	**1LE1502-2CC6.-....**	**11500.–**
75	**IE1**	**280 M**	**1LE1502-2DC6.-....**	**18200.–**
8-pole: 750 rpm at 50 Hz				
15	**IE1**	**180 L**	**1LE1502-1ED6.-....**	**6170.–**
18.5	**IE1**	**200 L**	**1LE1502-2AD6.-....**	**7220.–**
30	**IE1**	**225 M**	**1LE1502-2BD6.-....**	**9750.–**
37	**IE1**	**250 M**	**1LE1502-2CD6.-....**	**12100.–**
55	**IE1**	**280 M**	**1LE1502-2DD6.-....**	**18000.–**

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Overview

Category	**Motors with Rendimento Premium IR3**
Series version	**Aluminum series 1LE1073** (continued on next page)
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	80 M ... 160 L
Rated power	0.25 ... 22 kW at 50 Hz 0.33 ... 30 kW at 60 Hz
Synchronous speed	750 ... 3000 rpm
Rated torque	3.0 ... 121 Nm at 50 Hz
Efficiency	Rendimento Premium IR3 to NBR 17094-1
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1, Frame sizes 100 ... 160: 3F2

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	P_{rated}, 60 Hz kW	Frame size BG	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz				
1.1	**1.5**	**80 M**	**1LE1073-0DA3.-....**	**970.–**
1.5	**2**	**80 M**	**1LE1073-0DA6.-....**	**1110.–**
2.2	**3**	**90 S**	**1LE1073-0EA4.-....**	**1410.–**
3	**4**	**100 L**	**1LE1073-1AA4.-....**	**1510.–**
3.7	**5**	**100 L**	**1LE1073-1AA6.-....**	**1620.–**
4.5	**6**	**112 M**	**1LE1073-1BA5.-....**	**1760.–**
5.5	**7.5**	**112 M**	**1LE1073-1BA6.-....**	**2110.–**
7.5	**10**	**132 S**	**1LE1073-1CA1.-....**	**2660.–**
9.2	**12.5**	**132 M**	**1LE1073-1CA5.-....**	**3040.–**
11	**15**	**132 M**	**1LE1073-1CA6.-....**	**3610.–**
15	**20**	**160 M**	**1LE1073-1DA3.-....**	**4900.–**
18.5	**25**	**160 M**	**1LE1073-1DA4.-....**	**5420.–**
22	**30**	**160 L**	**1LE1073-1DA6.-....**	**5980.–**
4-pole: 1500 rpm at 50 Hz				
0.75	**1**	**80 M**	**1LE1073-0DB3.-....**	**818.–**
1.1	**1.5**	**80 M**	**1LE1073-0DB6.-....**	**985.–**
1.5	**2**	**90 S**	**1LE1073-0EB4.-....**	**1150.–**
2.2	**3**	**90 L**	**1LE1073-0EB6.-....**	**1350.–**
3	**4**	**100 L**	**1LE1073-1AB5.-....**	**1500.–**
3.7	**5**	**100 L**	**1LE1073-1AB6.-....**	**1670.–**
4.5	**6**	**112 M**	**1LE1073-1BB5.-....**	**1820.–**
5.5	**7.5**	**112 M**	**1LE1073-1BB6.-....**	**2310.–**
7.5	**10**	**132 S**	**1LE1073-1CB2.-....**	**2910.–**
9.2	**12.5**	**132 M**	**1LE1073-1CB5.-....**	**3720.–**
11	**15**	**132 M**	**1LE1073-1CB6.-....**	**3800.–**
15	**20**	**160 M**	**1LE1073-1DB4.-....**	**4940.–**
18.5	**25**	**160 L**	**1LE1073-1DB6.-....**	**5580.–**

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Overview

Kategorie	**Motors with Rendimento Premium IR3**
Series version	**Aluminum series 1LE1073**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	80 M ... 160 L
Rated power	0.25 ... 22 kW at 50 Hz 0.33 ... 30 kW at 60 Hz
Synchronous speed	750 ... 3000 rpm
Rated torque	3.0 ... 121 Nm at 50 Hz
Efficiency	Rendimento Premium IR3 to NBR 17094-1
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1, Frame sizes 100 ... 160: 3F2

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	P_{rated}, 60 Hz kW	Frame size BG	Article No.	Base price EUR
6-pole: 1000 rpm at 50 Hz				
0.37	**0.5**	**80 M**	**1LE1073-0DC2.-....**	**660.–**
0.55	**0.75**	**80 M**	**1LE1073-0DC3.-....**	**706.–**
0.75	**1**	**90 S**	**1LE1073-0EC0.-....**	**997.–**
1.1	**1.5**	**100 L**	**1LE1073-1AC3.-....**	**1210.–**
1.5	**2**	**112 M**	**1LE1073-1BC1.-....**	**2110.–**
2.2	**3**	**132 S**	**1LE1073-1CC1.-....**	**2100.–**
3	**4**	**132 S**	**1LE1073-1CC0.-....**	**2390.–**
3.7	**5**	**132 S**	**1LE1073-1CC2.-....**	**2520.–**
4.5	**6**	**132 S**	**1LE1073-1CC4.-....**	**2970.–**
5.5	**7.5**	**132 M**	**1LE1073-1CC3.-....**	**3280.–**
7.5	**10**	**132 M**	**1LE1073-1CC6.-....**	**3880.–**
9.2	**12.5**	**160 M**	**1LE1073-1DC3.-....**	**4390.–**
11	**15**	**160 M**	**1LE1073-1DC4.-....**	**5870.–**
15	**20**	**160 L**	**1LE1073-1DC6.-....**	**6960.–**
8-pole: 750 rpm at 50 Hz				
0.25	**0.33**	**80 M**	**1LE1073-0DD3.-....**	**753.–**
0.37	**0.5**	**90 S**	**1LE1073-0ED0.-....**	**872.–**
0.55	**0.75**	**90 L**	**1LE1073-0ED4.-....**	**1060.–**
0.75	**1**	**100 L**	**1LE1073-1AD4.-....**	**1510.–**
2.2	**3**	**132 S**	**1LE1073-1CD0.-....**	**2750.–**
3.7	**5**	**132 M**	**1LE1073-1CD6.-....**	**3510.–**
4.5	**6**	**160 M**	**1LE1073-1DD1.-....**	**4230.–**
5.5	**7.5**	**160 M**	**1LE1073-1DD3.-....**	**4660.–**
7.5	**10**	**160 L**	**1LE1073-1DD4.-....**	**5230.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Kategorie	**Motors with Rendimento Premium IR3**
Series version	**Cast-iron series 1LE1573/1LE5773** (continued on next page)
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	180 M ... 315 L
Rated power	9.2 ... 300 kW at 50 Hz 12.5 ... 400 kW at 60 Hz
Synchronous speed	750 ... 3000 rpm
Rated torque	80 ... 1978 Nm at 50 Hz
Efficiency	Rendimento Premium IR3 to NBR 17094-1
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 200 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	P_{rated}, 60 Hz kW	Frame size BG	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz				
30	40	200 L	1LE1573-2AA4.-....	8350.–
37	50	200 L	1LE1573-2AA5.-....	10600.–
45	60	225 S	1LE1573-2BA2.-....	12600.–
55	75	225 M	1LE1573-2BA6.-....	14500.–
75	100	250 M	1LE1573-2CA6.-....	19200.–
90	125	280 S	1LE1573-2DA2.-....	21800.–
110	150	280 M	1LE1573-2DA6.-....	23600.–
132	175	315 S	1LE5773-3AA2.-....	40300.–
150	200	315 M	1LE5773-3AA4.-....	49000.–
185	250	315 M	1LE5773-3AA5.-....	58900.–
220	300	315 L	1LE5773-3AA6.-....	63300.–
4-pole: 1500 rpm at 50 Hz				
22	30	180 M	1LE1573-1EB4.-....	6790.–
30	40	200 L	1LE1573-2AB5.-....	8600.–
37	50	200 L	1LE1573-2AB6.-....	10200.–
45	60	225 S	1LE1573-2BB2.-....	11300.–
55	75	225 M	1LE1573-2BB6.-....	13800.–
75	100	250 M	1LE1573-2CB6.-....	18600.–
90	125	280 S	1LE1573-2DB2.-....	21300.–
110	150	280 M	1LE1573-2DB6.-....	21500.–
132	175	315 S	1LE5773-3AB2.-....	37000.–
150	200	315 M	1LE5773-3AB4.-....	41800.–
185	250	315 M	1LE5773-3AB5.-....	54800.–
220	300	315 L	1LE5773-3AB6.-....	63200.–
300	400	315 L	1LE5773-3AB7.-....	79900.–

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Overview

Kategorie	Motors with Rendimento Premium IR3
Series version	**Cast-iron series 1LE1573/1LE5773**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	180 M ... 315 L
Rated power	9.2 ... 300 kW at 50 Hz 12.5 ... 400 kW at 60 Hz
Synchronous speed	750 ... 3000 rpm
Rated torque	80 ... 1978 Nm at 50 Hz
Efficiency	Rendimento Premium IR3 to NBR 17094-1
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	P_{rated}, 60 Hz kW	Frame size BG	Article No.	Base price EUR
6-pole: 1000 rpm at 50 Hz				
18.5	**25**	**180 L**	**1LE1573-1EC6.-....**	**7920.–**
22	**30**	**200 L**	**1LE1573-2AC5.-....**	**9450.–**
30	**40**	**200 L**	**1LE1573-2AC6.-....**	**13000.–**
37	**50**	**225 M**	**1LE1573-2BC6.-....**	**14500.–**
45	**60**	**250 S**	**1LE1573-2CC6.-....**	**17600.–**
55	**75**	**280 S**	**1LE1573-2DC2.-....**	**26900.–**
75	**100**	**280 S**	**1LE1573-2DC6.-....**	**29300.–**
90	**125**	**280 M**	**1LE1573-2DC7.-....**	**37000.–**
110	**150**	**315 M**	**1LE5773-3AC4.-....**	**50400.–**
132	**175**	**315 M**	**1LE5773-3AC5.-....**	**58800.–**
150	**200**	**315 M**	**1LE5773-3AC6.-....**	**68300.–**
185	**250**	**315 L**	**1LE5773-3AC7.-....**	**89700.–**
8-pole: 750 rpm at 50 Hz				
9.2	**12.5**	**180 M**	**1LE1573-1ED3.-....**	**6860.–**
11	**15**	**180 L**	**1LE1573-1ED4.-....**	**8490.–**
15	**20**	**180 L**	**1LE1573-1ED6.-....**	**9930.–**
18.5	**25**	**200 L**	**1LE1573-2AD6.-....**	**12900.–**
22	**30**	**225 S**	**1LE1573-2BD2.-....**	**13400.–**
30	**40**	**225 M**	**1LE1573-2BD6.-....**	**16400.–**
37	**50**	**250 M**	**1LE1573-2CD6.-....**	**21100.–**
45	**60**	**250 M**	**1LE1573-2CD7.-....**	**19500.–**
55	**75**	**280 S**	**1LE1573-2DD6.-....**	**28500.–**
75	**100**	**280 M**	**1LE1573-2DD7.-....**	**36400.–**
90	**125**	**315 M**	**1LE5773-3AD4.-....**	**49700.–**
110	**150**	**315 M**	**1LE5773-3AD5.-....**	**57800.–**
132	**175**	**315 L**	**1LE5773-3AD6.-....**	**67300.–**
150	**200**	**315 L**	**1LE5773-3AD7.-....**	**75800.–**
185	**250**	**315 L**	**1LE5773-3AD8.-....**	**83200.–**

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Overview

Category	**NEMA Energy Efficient MG1 Motors Table 12-11**
Series version	**Aluminum series 1LE1021** [1]
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	4, 6
Frame sizes (FS)	80 M
Rated power	0.37 ... 0.55 kW at 50 Hz 0.5 … 0.75 hp at 60 Hz
Synchronous speed at 60 Hz	1200 ... 1800 rpm
Rated torque	3 ... 4.6 Nm at 60 Hz
Efficiency	NEMA Energy Efficient MG1 Table 12-11 [1]
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3F1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	P_{rated}, 60 Hz hp	Frame size FS	Article No.	Base price EUR
4-pole: 1500 rpm at 50 Hz, 1800 rpm at 60 Hz				
0.55	**0.75**	**80 M**	**1LE1021-0DB2.-....**	**645.–**
6-pole: 1000 rpm at 50 Hz, 1200 rpm at 60 Hz				
0.37	**0.5**	**80 M**	**1LE1021-0DC2.-....**	**500.–**
0.55	**0.75**	**80 M**	**1LE1021-0DC3.-....**	**578.–**

[1] Notes on the 1LE1021 NEMA Energy Efficient Motors:
- Comprises CSA, UL and CC No.
- Only valid for voltages ≤ 600 V
- For ≤ 200 hp only flange types are admissible

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Overview

Category	**NEMA Energy Efficient MG1 Motors Table 12-11**
Series version	**Cast-iron series 1LE1521 Basic Line** [1]
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 90 L
Rated power	0.09 ... 0.55 kW at 50 Hz 0.12 ... 0.75 hp at 60 Hz
Synchronous speed at 60 Hz	900 ... 3600 rpm
Rated torque	1.0 ... 6.3 Nm at 60 Hz
Efficiency	NEMA Energy Efficient MG1 Table 12-11 [1]
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3F1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	P_{rated}, 60 Hz	Frame size	Article No. **Basic Line**	**Base price**
kW	hp	FS		EUR
2-pole: 3000 rpm at 50 Hz, 3600 rpm at 60 Hz				
0.37	**0.5**	**71 M**	**1LE1521-0CA2.-....**	**620.–**
0.55	**0.75**	**71 M**	**1LE1521-0CA3.-....**	**715.–**
4-pole: 1500 rpm at 50 Hz, 1800 rpm at 60 Hz				
0.25	**0.33**	**71 M**	**1LE1521-0CB2.-....**	**617.–**
0.37	**0.5**	**71 M**	**1LE1521-0CB3.-....**	**681.–**
0.55	**0.75**	**80 M**	**1LE1521-0DB2.-....**	**770.–**
6-pole: 1000 rpm at 50 Hz, 1200 rpm at 60 Hz				
0.18	**0.25**	**71 M**	**1LE1521-0CC2.-....**	**601.–**
0.25	**0.33**	**71 M**	**1LE1521-0CC3.-....**	**698.–**
0.37	**0.5**	**80 M**	**1LE1521-0DC2.-....**	**713.–**
0.55	**0.75**	**80 M**	**1LE1521-0DC3.-....**	**812.–**
8-pole: 750 rpm at 50 Hz, 900 rpm at 60 Hz				
0.09	**0.12**	**71 M**	**1LE1521-0CD2.-....**	**684.–**
0.12	**0.16**	**71 M**	**1LE1521-0CD3.-....**	**753.–**
0.18	**0.25**	**80 M**	**1LE1521-0DD2.-....**	**793.–**
0.25	**0.33**	**80 M**	**1LE1521-0DD3.-....**	**955.–**
0.37	**0.5**	**90 S**	**1LE1521-0ED0.-....**	**1110.–**
0.55	**0.75**	**90 L**	**1LE1521-0ED4.-....**	**1280.–**

[1] Notes on the 1LE1521 NEMA Energy Efficient Motors:
- Comprises CSA, UL and CC No.
- Only valid for voltages ≤ 600 V
- For ≤ 200 hp only flange types are admissible

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Overview

Category	**NEMA Premium Efficient MG1 Motors Table 12-12**
Series version	**Aluminum series 1LE1023** [1]
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 418)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	80 M ... 200 L
Rated power	0.37 ... 37 kW at 50 Hz 0.5 … 50 hp at 60 Hz
Synchronous speed at 60 Hz	900 ... 3600 rpm
Rated torque	2.1 ... 178 Nm at 60 Hz
Efficiency	NEMA Premium Efficient MG1 Table 12-12 [1]
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	P_{rated}, 60 Hz hp	Frame size FS	Article No.	Base price EUR	P_{rated}, 50 Hz kW	P_{rated}, 60 Hz hp	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz, 3600 rpm at 60 Hz					**6-pole: 1000 rpm at 50 Hz, 1200 rpm at 60 Hz**				
0.75	**1**	**80 M**	**1LE1023-0DA2.-....**	**722.–**	**0.37**	**0.5**	**80 M**	**1LE1023-0DC2.-....**	**693.–**
1.1	**1.5**	**80 M**	**1LE1023-0DA3.-....**	**826.–**	**0.55**	**0.75**	**80 M**	**1LE1023-0DC3.-....**	**802.–**
1.5	**2**	**90 S**	**1LE1023-0EA0.-....**	**954.–**	**0.75**	**1**	**90 S**	**1LE1023-0EC0.-....**	**908.–**
2.2	**3**	**90 L**	**1LE1023-0EA4.-....**	**1220.–**	**1.1**	**1.5**	**100 L**	**1LE1023-1AC3.-....**	**1100.–**
3	**4**	**100 L**	**1LE1023-1AA4.-....**	**1340.–**	**3**	**4**	**132 S**	**1LE1023-1CC0.-....**	**1910.–**
4	**5**	**112 M**	**1LE1023-1BA2.-....**	**1580.–**	**4**	**5**	**132 M**	**1LE1023-1CC2.-....**	**2360.–**
5.5	**7.5**	**132 S**	**1LE1023-1CA0.-....**	**1980.–**	**5.5**	**7.5**	**132 M**	**1LE1023-1CC3.-....**	**2950.–**
7.5	**10**	**132 S**	**1LE1023-1CA1.-....**	**2510.–**	**7.5**	**10**	**160 M**	**1LE1023-1DC2.-....**	**3740.–**
11	**15**	**160 M**	**1LE1023-1DA2.-....**	**3490.–**	**11**	**15**	**160 L**	**1LE1023-1DC4.-....**	**5170.–**
15	**20**	**160 M**	**1LE1023-1DA3.-....**	**4550.–**	**15**	**20**	**180 L**	**1LE1023-1EC4.-....**	**6380.–**
18.5	**25**	**160 L**	**1LE1023-1DA4.-....**	**5420.–**	**18.5**	**25**	**200 L**	**1LE1023-2AC4.-....**	**7850.–**
22	**30**	**180 M**	**1LE1023-1EA2.-....**	**6090.–**	**22**	**30**	**200 L**	**1LE1023-2AC5.-....**	**8970.–**
30	**40**	**200 L**	**1LE1023-2AA4.-....**	**7930.–**					
37	**50**	**200 L**	**1LE1023-2AA5.-....**	**9710.–**					
4-pole: 1500 rpm at 50 Hz, 1800 rpm at 60 Hz					**8-pole: 750 rpm at 50 Hz, 900 rpm at 60 Hz**				
0.55	**0.75**	**80 M**	**1LE1023-0DB2.-....**	**717.–**	**2.2**	**3**	**132 S**	**1LE1023-1CD0.-....**	**2940.–**
0.75	**1**	**80 M**	**1LE1023-0DB3.-....**	**782.–**	**3**	**4**	**132 M**	**1LE1023-1CD2.-....**	**3530.–**
1.1	**1.5**	**90 S**	**1LE1023-0EB0.-....**	**925.–**	**3.7**	**5**	**160 M**	**1LE1023-1DD2.-....**	**4340.–**
1.5	**2**	**90 L**	**1LE1023-0EB4.-....**	**1090.–**	**5.5**	**7.5**	**160 M**	**1LE1023-1DD3.-....**	**5240.–**
2.2	**3**	**100 L**	**1LE1023-1AB4.-....**	**1200.–**	**7.5**	**10**	**160 L**	**1LE1023-1DD4.-....**	**6230.–**
3	**4**	**100 L**	**1LE1023-1AB5.-....**	**1390.–**	**11**	**15**	**180 L**	**1LE1023-1ED4.-....**	**7560.–**
4	**5**	**112 M**	**1LE1023-1BB2.-....**	**1700.–**	**15**	**20**	**200 L**	**1LE1023-2AD5.-....**	**9910.–**
5.5	**7.5**	**132 S**	**1LE1023-1CB0.-....**	**2140.–**					
7.5	**10**	**132 M**	**1LE1023-1CB2.-....**	**2710.–**					
11	**15**	**160 M**	**1LE1023-1DB2.-....**	**3560.–**					
15	**20**	**160 L**	**1LE1023-1DB4.-....**	**4620.–**					
18.5	**25**	**180 M**	**1LE1023-1EB2.-....**	**5270.–**					
22	**30**	**180 L**	**1LE1023-1EB4.-....**	**6020.–**					
30	**40**	**200 L**	**1LE1023-2AB5.-....**	**7810.–**					

[1] Notes on the 1LE1023 NEMA Premium Efficient Motors:
- Comprises CSA, UL and CC No.
- Only valid for voltages ≤ 600 V
- All types of construction are admissible

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**NEMA Premium Efficient MG1 Motors Table 12-12**
Series version	**Cast-iron series 1LE1523 Basic Line, 1LE1623 Performance Line** [1] (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power	0.18 ... 185 kW at 50 Hz 0.25 ... 250 hp at 60 Hz
Synchronous speed at 60 Hz	900 ... 3600 rpm
Rated torque	1.0 ... 1202 Nm at 60 Hz
Efficiency	NEMA Premium Efficient MG1 Table 12-12 [1]
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 71 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	P_{rated}, 60 Hz	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW	hp	FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz, 3600 rpm at 60 Hz						
0.37	**0.5**	**71 M**	**1LE1523-0CA2.-....**	**807.–**		
0.55	**0.75**	**71 M**	**1LE1523-0CA3.-....**	**928.–**		
0.75	**1**	**80 M**	**1LE1523-0DA2.-....**	**968.–**		
1.1	**1.5**	**80 M**	**1LE1523-0DA3.-....**	**1090.–**		
1.5	**2**	**90 S**	**1LE1523-0EA0.-....**	**1260.–**		
2.2	**3**	**90 L**	**1LE1523-0EA4.-....**	**1540.–**		
3	**4**	**100 L**	**1LE1523-1AA4.-....**	**1430.–**	**1LE1623-1AA4.-....**	**1560.–**
4	**5**	**112 M**	**1LE1523-1BA2.-....**	**1700.–**	**1LE1623-1BA2.-....**	**1850.–**
5.5	**7.5**	**132 S**	**1LE1523-1CA0.-....**	**2150.–**	**1LE1623-1CA0.-....**	**2340.–**
7.5	**10**	**132 S**	**1LE1523-1CA1.-....**	**2720.–**	**1LE1623-1CA1.-....**	**2940.–**
11	**15**	**160 M**	**1LE1523-1DA2.-....**	**3780.–**	**1LE1623-1DA2.-....**	**4210.–**
15	**20**	**160 M**	**1LE1523-1DA3.-....**	**4930.–**	**1LE1623-1DA3.-....**	**5510.–**
18.5	**25**	**160 L**	**1LE1523-1DA4.-....**	**5890.–**	**1LE1623-1DA4.-....**	**6570.–**
22	**30**	**180 M**	**1LE1523-1EA2.-....**	**6440.–**	**1LE1623-1EA2.-....**	**6940.–**
30	**40**	**200 L**	**1LE1523-2AA4.-....**	**8360.–**	**1LE1623-2AA4.-....**	**9020.–**
37	**50**	**200 L**	**1LE1523-2AA5.-....**	**10500.–**	**1LE1623-2AA5.-....**	**11300.–**
45	**60**	**225 M**	**1LE1523-2BA2.-....**	**11500.–**	**1LE1623-2BA2.-....**	**12600.–**
55	**75**	**250 M**	**1LE1523-2CA2.-....**	**13700.–**	**1LE1623-2CA2.-....**	**14800.–**
75	**100**	**280 S**	**1LE1523-2DA0.-....**	**18600.–**	**1LE1623-2DA0.-....**	**19000.–**
90	**125**	**280 M**	**1LE1523-2DA2.-....**	**22000.–**	**1LE1623-2DA2.-....**	**23000.–**
110	**150**	**315 S**	**1LE1523-3AA0.-....**	**26500.–**	**1LE1623-3AA0.-....**	**27500.–**
132	**175**	**315 M**	**1LE1523-3AA2.-....**	**31700.–**	**1LE1623-3AA2.-....**	**32900.–**
150	**200**	**315 L**	**1LE1523-3AA4.-....**	**39300.–**	**1LE1623-3AA4.-....**	**41000.–**
185	**250**	**315 L**	**1LE1523-3AA5.-....**	**46000.–**	**1LE1623-3AA5.-....**	**48000.–**
4-pole: 1500 rpm at 50 Hz, 1800 rpm at 60 Hz						
0.25	**0.33**	**71 M**	**1LE1523-0CB2.-....**	**802.–**		
0.37	**0.5**	**71 M**	**1LE1523-0CB3.-....**	**886.–**		
0.55	**0.75**	**80 M**	**1LE1523-0DB2.-....**	**960.–**		
0.75	**1**	**80 M**	**1LE1523-0DB3.-....**	**1040.–**		
1.1	**1.5**	**90 S**	**1LE1523-0EB0.-....**	**1210.–**		
1.5	**2**	**90 L**	**1LE1523-0EB4.-....**	**1380.–**		
2.2	**3**	**100 L**	**1LE1523-1AB4.-....**	**1320.–**	**1LE1623-1AB4.-....**	**1410.–**
3	**4**	**100 L**	**1LE1523-1AB5.-....**	**1520.–**	**1LE1623-1AB5.-....**	**1630.–**
4	**5**	**112 M**	**1LE1523-1BB2.-....**	**1870.–**	**1LE1623-1BB2.-....**	**2000.–**
5.5	**7.5**	**132 S**	**1LE1523-1CB0.-....**	**2320.–**	**1LE1623-1CB0.-....**	**2500.–**
7.5	**10**	**132 M**	**1LE1523-1CB2.-....**	**2940.–**	**1LE1623-1CB2.-....**	**3170.–**
11	**15**	**160 M**	**1LE1523-1DB2.-....**	**3860.–**	**1LE1623-1DB2.-....**	**4310.–**
15	**20**	**160 L**	**1LE1523-1DB4.-....**	**5010.–**	**1LE1623-1DB4.-....**	**5610.–**
18.5	**25**	**180 M**	**1LE1523-1EB2.-....**	**5470.–**	**1LE1623-1EB2.-....**	**5900.–**
22	**30**	**180 L**	**1LE1523-1EB4.-....**	**6350.–**	**1LE1623-1EB4.-....**	**6850.–**
30	**40**	**200 L**	**1LE1523-2AB5.-....**	**8220.–**	**1LE1623-2AB5.-....**	**8890.–**
37	**50**	**225 S**	**1LE1523-2BB0.-....**	**9240.–**	**1LE1623-2BB0.-....**	**10000.–**
45	**60**	**225 M**	**1LE1523-2BB2.-....**	**10900.–**	**1LE1623-2BB2.-....**	**11700.–**
55	**75**	**250 M**	**1LE1523-2CB2.-....**	**13300.–**	**1LE1623-2CB2.-....**	**14200.–**
75	**100**	**280 S**	**1LE1523-2DB0.-....**	**17600.–**	**1LE1623-2DB0.-....**	**18200.–**
90	**125**	**280 M**	**1LE1523-2DB2.-....**	**20700.–**	**1LE1623-2DB2.-....**	**21200.–**
110	**150**	**315 S**	**1LE1523-3AB0.-....**	**25700.–**	**1LE1623-3AB0.-....**	**26500.–**
132	**175**	**315 M**	**1LE1523-3AB2.-....**	**30500.–**	**1LE1623-3AB2.-....**	**31200.–**
150	**200**	**315 L**	**1LE1523-3AB4.-....**	**37000.–**	**1LE1623-3AB4.-....**	**37800.–**
185	**250**	**315 L**	**1LE1523-3AB5.-....**	**43000.–**	**1LE1623-3AB5.-....**	**44200.–**

[1] Notes on the 1LE1523/1LE1623 NEMA Premium Efficient Motors:
- Comprises CSA, UL and CC No.
- Only valid for voltages ≤ 600 V
- All types of construction are admissible

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Overview

Category	**NEMA Premium Efficient MG1 Motors Table 12-12**
Series version	**Cast-iron series 1LE1523 Basic Line, 1LE1623 Performance Line** [1]
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power	0.18 ... 200 kW at 50 Hz 0.25 … 250 hp at 60 Hz
Synchronous speed at 60 Hz	900 ... 3600 rpm
Rated torque	1.0 ... 1202 Nm at 60 Hz
Efficiency	NEMA Premium Efficient MG1 Table 12-12 [1]
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	Frame sizes 71 ... 90: 3F1, Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	P_{rated}, 60 Hz	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW	hp	FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz, 1200 rpm at 60 Hz						
0.18	**0.25**	**71 M**	**1LE1523-0CC2.-....**	**780.–**		
0.25	**0.33**	**71 M**	**1LE1523-0CC3.-....**	**908.–**		
0.37	**0.5**	**80 M**	**1LE1523-0DC2.-....**	**932.–**		
0.55	**0.75**	**80 M**	**1LE1523-0DC3.-....**	**1060.–**		
0.75	**1**	**90 S**	**1LE1523-0EC0.-....**	**1190.–**		
3	**4**	**132 S**	**1LE1523-1CC0.-....**	**2060.–**	**1LE1623-1CC0.-....**	**2230.–**
4	**5**	**132 M**	**1LE1523-1CC2.-....**	**2540.–**	**1LE1623-1CC2.-....**	**2750.–**
5.5	**7.5**	**132 M**	**1LE1523-1CC3.-....**	**3200.–**	**1LE1623-1CC3.-....**	**3470.–**
7.5	**10**	**160 M**	**1LE1523-1DC2.-....**	**4070.–**	**1LE1623-1DC2.-....**	**4550.–**
11	**15**	**160 L**	**1LE1523-1DC4.-....**	**5610.–**	**1LE1623-1DC4.-....**	**6260.–**
15	**20**	**180 L**	**1LE1523-1EC4.-....**	**6770.–**	**1LE1623-1EC4.-....**	**7320.–**
18.5	**25**	**200 L**	**1LE1523-2AC4.-....**	**8290.–**	**1LE1623-2AC4.-....**	**8970.–**
22	**30**	**200 L**	**1LE1523-2AC5.-....**	**9600.–**	**1LE1623-2AC5.-....**	**10400.–**
30	**40**	**225 M**	**1LE1523-2BC2.-....**	**11800.–**	**1LE1623-2BC2.-....**	**13100.–**
37	**50**	**250 M**	**1LE1523-2CC2.-....**	**14400.–**	**1LE1623-2CC2.-....**	**15600.–**
45	**60**	**280 S**	**1LE1523-2DC0.-....**	**17400.–**	**1LE1623-2DC0.-....**	**18000.–**
55	**75**	**280 M**	**1LE1523-2DC2.-....**	**20700.–**	**1LE1623-2DC2.-....**	**21200.–**
75	**100**	**315 S**	**1LE1523-3AC0.-....**	**28100.–**	**1LE1623-3AC0.-....**	**28800.–**
90	**125**	**315 M**	**1LE1523-3AC2.-....**	**31700.–**	**1LE1623-3AC2.-....**	**32400.–**
110	**150**	**315 L**	**1LE1523-3AC4.-....**	**38100.–**	**1LE1623-3AC4.-....**	**39000.–**
132	**175**	**315 L**	**1LE1523-3AC5.-....**	**45400.–**	**1LE1623-3AC5.-....**	**46500.–**
160	**200**	**315 L**	**1LE1523-3AC6.-....**	**51500.–**	**1LE1623-3AC6.-....**	**52800.–**
8-pole: 750 rpm at 50 Hz, 900 rpm at 60 Hz						
2.2	**3**	**132 S**			**1LE1623-1CD0.-....**	**3220.–**
3	**4**	**132 M**			**1LE1623-1CD2.-....**	**3920.–**
3.7	**5**	**160 M**			**1LE1623-1DD2.-....**	**4810.–**
5.5	**7.5**	**160 M**			**1LE1623-1DD3.-....**	**5920.–**
7.5	**10**	**160 L**			**1LE1623-1DD4.-....**	**7140.–**
11	**15**	**180 L**			**1LE1623-1ED4.-....**	**7980.–**
15	**20**	**200 L**			**1LE1623-2AD5.-....**	**10500.–**
18.5	**25**	**225 M**			**1LE1623-2BD0.-....**	**11900.–**
22	**30**	**250 M**			**1LE1623-2BD2.-....**	**13700.–**
30	**40**	**250 M**			**1LE1623-2CD2.-....**	**17600.–**
37	**50**	**280 S**			**1LE1623-2DD0.-....**	**19900.–**
45	**60**	**280 M**			**1LE1623-2DD2.-....**	**24300.–**
55	**75**	**315 S**			**1LE1623-3AD0.-....**	**28800.–**
75	**100**	**315 M**			**1LE1623-3AD2.-....**	**38500.–**
90	**125**	**315 L**			**1LE1623-3AD4.-....**	**42900.–**
110	**150**	**315 L**			**1LE1623-3AD5.-....**	**51800.–**
132	**175**	**315 L**			**1LE1623-3AD6.-....**	**61800.–**

[1] Notes on the 1LE1523/1LE1623 NEMA Premium Efficient Motors:
- Comprises CSA, UL and CC No.
- Only valid for voltages ≤ 600 V
- All types of construction are admissible

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	Pole-changing motors	
Series version	**Aluminum series 1LE1011 for constant load torque**	**Aluminum series 1LE1011 and 1LE1012 for square-law load torque** (e.g. for driving fans)
Cooling	Self-ventilated (IC 411)	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)	Thermal class 155 (F)
Utilization	Thermal class 130 (B)	Thermal class 130 (B)
Number of poles	4/2, 8/4	4/2, 6/4, 8/4
Frame sizes (FS)	100 L ... 160 L	100 L ... 200 L
Rated power at 50 Hz	0.55 ... 16 kW	0.5 ... 28 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm	750 ... 3000 rpm
Rated torque at 50 Hz	7.3 ... 86 Nm	4.4 ... 97 Nm
Efficiency	–	–
Metal factor for metal surcharges (MS)	N - W - - - - -	N - W - - - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2	Frame sizes 100 ... 160: 3F2, Frame sizes 180 ... 200: 3F3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 1/40, for delivery times refer to colored background following the respective price)

$P_{rated\ 1}$, 50 Hz kW	$P_{rated\ 2}$, 50 Hz kW	Frame size FS	Article No.	Base price EUR	$P_{rated\ 1}$, 50 Hz kW	$P_{rated\ 2}$, 50 Hz kW	Frame size FS	Article No.	Base price EUR
4-/2-pole: 1500/3000 rpm at 50 Hz with one winding connected in Dahlander circuit									
1500 rpm	3000 rpm				1500 rpm	3000 rpm			
1.9	**2.4**	**100 L**	**1LE1011-1AJ4.-....**	**1010.–**	**0.65**	**2.4**	**100 L**	**1LE1011-1AP4.-....**	**1010.–**
2.5	**3.1**	**100 L**	**1LE1011-1AJ5.-....**	**1200.–**	**0.8**	**3.1**	**100 L**	**1LE1011-1AP5.-....**	**1200.–**
3.7	**4.4**	**112 M**	**1LE1011-1BJ2.-....**	**1510.–**	**1.1**	**4.4**	**112 M**	**1LE1011-1BP2.-....**	**1510.–**
4.7	**5.9**	**132 S**	**1LE1011-1CJ0.-....**	**1940.–**	**1.45**	**5.9**	**132 S**	**1LE1011-1CP0.-....**	**1940.–**
6.5	**8**	**132 M**	**1LE1011-1CJ2.-....**	**2520.–**	**2**	**8**	**132 M**	**1LE1011-1CP2.-....**	**2520.–**
9.3	**11.5**	**160 M**	**1LE1011-1DJ2.-....**	**3350.–**	**2.9**	**11.5**	**160 M**	**1LE1011-1DP2.-....**	**3350.–**
13	**16**	**160 L**	**1LE1011-1DJ6.-....**	**4850.–**	**4.3**	**16**	**160 L**	**1LE1011-1DP6.-....**	**4850.–**
6-/4-pole: 1000/1500 rpm at 50 Hz with two windings									
					1000 rpm	1500 rpm			
					0.6	**1.7**	**100 L**	**1LE1012-1AQ4.-....**	**1080.–**
					0.8	**2.1**	**100 L**	**1LE1012-1AQ5.-....**	**1200.–**
					0.9	**3**	**112 M**	**1LE1012-1BQ2.-....**	**1400.–**
					1.2	**3.9**	**132 S**	**1LE1012-1CQ0.-....**	**1730.–**
					1.7	**5.4**	**132 M**	**1LE1012-1CQ2.-....**	**2140.–**
					2.5	**7.2**	**160 M**	**1LE1012-1DQ2.-....**	**3120.–**
					3.7	**12**	**160 L**	**1LE1012-1DQ4.-....**	**4550.–**
					6.5	**19**	**180 L**	**1LE1012-1EQ4.-....**	**7210.–**
					9.5	**26**	**200 L**	**1LE1012-2AQ5.-....**	**10300.–**
8-/4-pole: 750/1500 rpm at 50 Hz with one winding connected in Dahlander circuit									
750 rpm	1500 rpm				750 rpm	1500 rpm			
0.55	**1.1**	**100 L**	**1LE1011-1AL4.-....**	**852.–**	**0.5**	**2**	**100 L**	**1LE1011-1AR4.-....**	**852.–**
0.9	**1.5**	**100 L**	**1LE1011-1AL5.-....**	**983.–**	**0.65**	**2.5**	**100 L**	**1LE1011-1AR5.-....**	**983.–**
1.1	**1.9**	**112 M**	**1LE1011-1BL2.-....**	**1140.–**	**0.9**	**3.6**	**112 M**	**1LE1011-1BR2.-....**	**1140.–**
1.6	**3.2**	**132 S**	**1LE1011-1CL0.-....**	**1600.–**	**1.1**	**4.7**	**132 S**	**1LE1011-1CR0.-....**	**1600.–**
2.2	**4.4**	**132 M**	**1LE1011-1CL2.-....**	**2060.–**	**1.4**	**6.4**	**132 M**	**1LE1011-1CR2.-....**	**2060.–**
3.5	**7**	**160 M**	**1LE1011-1DL2.-....**	**2840.–**	**2.2**	**9.5**	**160 M**	**1LE1011-1DR2.-....**	**2840.–**
5.6	**11**	**160 L**	**1LE1011-1DL4.-....**	**4200.–**	**3.3**	**14**	**160 L**	**1LE1011-1DR4.-....**	**4200.–**
					4.5	**16**	**180 M**	**1LE1011-1ER2.-....**	**4980.–**
					5	**18.5**	**180 L**	**1LE1011-1ER4.-....**	**6510.–**
					7.5	**28**	**200 L**	**1LE1011-2AR5.-....**	**9680.–**

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SIMOTICS GP 1LE1/1PC1 Standard Motors
Article No. supplements and special versions

Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size: 63	71	80	90	100	112	132	160	180	200	Motor version		
				1LE1004										IEC	IE4	①
						1LE1003									IE3	②
								1LE1083								③
				1LE1001											IE2	④
								1PC1001								⑤
				1LE1002											IE1	⑥
								1PC1002								⑦
						1LE1043								APAC Line	IE3	⑧
						1LE1041									IE2	⑨
1LE10 . . - . . . . ■ - ■ . . .						1LE1023								Eagle Line	NPE (NEMA)	⑩
1PC10 . . - . . . . ■ - ■ . . .			Order code			1LE1021									NEE (NEMA)	⑪
Voltage at 50 Hz or 60 Hz – Operating values at rated power for 60 Hz are stored in the Drive Technology Configurator (DTC)																
50 Hz 230 VΔ/400 VY, 60 Hz 460 VY	2	2	–	□	□	□	□	□	□	□	□	□	□			
50 Hz 400 VΔ/690 VY, 60 Hz 460 VΔ [1]	3	4	–	□	□	□	□	□	□	□	□	□	□	Not for:	APAC Line Eagle Line	⑧, ⑨ ⑩, ⑪
50 Hz 400 VΔ, 60 Hz 460 VΔ [1]				–	–	□	□	□	□	□	□	□	□	Only for:	APAC Line Eagle Line	⑧, ⑨ ⑩, ⑪
50 Hz 400 VY, 60 Hz 460 VY [2] [3]	0	2	–	–	–	□	□	□	□	□	□	□	□	Not for:	IEC IE3	③
50 Hz 400 VΔ, 60 Hz 460 VΔ [4]	0	4	–	–	–	□	□	□	□	□	□	□	□	Not for:	IEC IE3	③
50 Hz 500 VY 60 Hz 575 VY [7]	2	7	–	O	O	O	O	O	O	O	O	O	O	Not for:	IEC IE4	①
50 Hz 500 VΔ 60 Hz 575 VΔ	4	0	–	O	O	–	–	O	O	O	O	O	O	Not for:	IEC IE4	①
50 Hz 690 VY	0	6	–	–	–	–	–	O	O	O	O	O	O	Only for:	IEC IE3	③
50 Hz 690 VΔ	4	7	–	–	–	–	–	O	O	O	O	O	O	Only for:	IEC IE3	③
50 Hz 220 VΔ/380 VY 60 Hz 440 VY	2	1	–	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
50 Hz 380 VΔ/660 VY [1], 60 Hz 440 VΔ	3	3	–	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	APAC Line Eagle Line IEC IE3	⑧, ⑨ ⑩, ⑪ ③
50 Hz 380 VΔ [1]				–	–	–	–	54.–	65.30	83.70	103.–	139.–	139.–	Only for:	APAC Line Eagle Line IEC IE3	⑧, ⑨ ⑩, ⑪ ③
50 Hz 240 VΔ/415 VY, 60 Hz 480 VY	2	3	–	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
50 Hz 415 VΔ, 60 Hz 480 VΔ	3	5	–	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
60 Hz 220 VΔ/380 VY	1	7	–	–	–	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	Not for:	IEC IE1 IEC IE3	⑥, ⑦ ③
60 Hz 230 VΔ/400 VY	1	8	–	–	–	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	Not for:	IEC IE1 IEC IE3	⑥, ⑦ ③
60 Hz 380 VΔ/660 VY [1]	3	0	–	–	–	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE1 Eagle Line IEC IE3	⑥, ⑦ ⑩, ⑪ ③
60 Hz 380 VΔ [1]			–	–	–	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Only for:	Eagle Line	⑩, ⑪
60 Hz 400 VΔ/690 VY [1]	3	1	–	–	–	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE1 Eagle Line IEC IE3	⑥, ⑦ ⑩, ⑪ ③
60 Hz 400 VΔ [1]			–	–	–	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Only for:	Eagle Line	⑩, ⑪
Multi-voltage at 60 Hz and required power at 60 Hz																
60 Hz 230 VYY/460 VY; 50 Hz power, 9 main terminals and electrical design according to NEMA	6	0	–	–	–	–	–	–	–	–	–	136.–	156.–	Not for:	IEC IE1 APAC Line IE2 IEC IE3	⑥, ⑦ ⑨ ③
60 Hz 230 VYY/460 VY; 60 Hz power, 9 main terminals and electrical design according to NEMA	6	1	–	–	–	–	–	–	–	–	–	136.–	156.–	Not for:	IEC IE1 APAC Line IE2 IEC IE3	⑥, ⑦ ⑨ ③
60 Hz 230 VΔΔ/460 VΔ; 50 Hz power, 12 main terminals and electrical design according to NEMA	6	2	–	–	–	–	–	–	–	–	–	136.–	156.–	Not for:	IEC IE1 APAC Line IE2 IEC IE3	⑥, ⑦ ⑨ ③
60 Hz 230 VΔΔ/460 VΔ; 60 Hz power, 12 main terminals and electrical design according to NEMA	6	3	–	–	–	–	–	–	–	–	–	136.–	156.–	Not for:	IEC IE1 APAC Line IE2 IEC IE3	⑥, ⑦ ⑨ ③

For legends and footnotes, see Page 1/42.

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Voltages	Article No. supplement			Frame size										Motor version		
	Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	63	71	80	90	100	112	132	160	180	200			
								1LE1004						IEC	IE4	①
						1LE1003									IE3	②
								1LE1083								③
				1LE1001											IE2	④
								1PC1001								⑤
				1LE1002											IE1	⑥
								1PC1002								⑦
						1LE1043								APAC Line	IE3	⑧
						1LE1041									IE2	⑨
1LE10 . . - . . . . ■ - ■ . . .						1LE1023								Eagle Line	NPE (NEMA)	⑩
1PC10 . . - . . . . ■ - ■ . . .			Order code				1LE1021								NEE (NEMA)	⑪
Voltage at 60 Hz and required power at 60 Hz																
220 VΔ/380 VY; 50 Hz power	**9**	**0**	**M2A**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
220 VΔ/380 VY; 60 Hz power	**9**	**0**	**M1A**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	APAC Line Eagle Lin IEC IE3	⑧, ⑨ ⑩, ⑪ ③
380 VΔ/660 VY; 50 Hz power [1]	**9**	**0**	**M2B**	29.20	32.70	37.10	43.50	54.–	65.20	83.70	103.–	139.–	139.–	Not for:	APAC Line Eagle Lin IEC IE3	⑧, ⑨ ⑩, ⑪ ③
380 VΔ; 50 Hz power [1]				–	–	–	–	54.–	65.20	83.70	103.–	139.–	139.–	Only for:	APAC Line Eagle Lin IEC IE3	⑧, ⑨ ⑩, ⑪ ③
380 VΔ/660 VY; 60 Hz power [1] [5]	**9**	**0**	**M1B**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	APAC Line Eagle Lin IEC IE3	⑧, ⑨ ⑩, ⑪ ③
440 VY; 50 Hz power	**9**	**0**	**M2C**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
440 VY; 60 Hz power	**9**	**0**	**M1C**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	APAC Line Eagle Lin IEC IE3	⑧, ⑨ ⑩, ⑪ ③
440 VΔ; 50 Hz power	**9**	**0**	**M2D**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
440 VΔ; 60 Hz power	**9**	**0**	**M1D**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	APAC Line Eagle Lin IEC IE3	⑧, ⑨ ⑩, ⑪ ③
460 VY; 50 Hz power	**9**	**0**	**M2E**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
460 VY; 60 Hz power	**9**	**0**	**M1E**	O	O	O	O	O	O	O	O	O	O	Not for:	APAC Line Eagle Lin IEC IE3	⑧, ⑨ ⑩, ⑪ ③
460 VΔ; 50 Hz power	**9**	**0**	**M2F**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
460 VΔ; 60 Hz power	**9**	**0**	**M1F**	O	O	O	O	O	O	O	O	O	O	Not for:	APAC Line Eagle Lin IEC IE3	⑧, ⑨ ⑩, ⑪ ③
575 VY; 50 Hz power [7]	**9**	**0**	**M2G**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE4	①
575 VY; 60 Hz power [7]	**9**	**0**	**M1G**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	APAC Line Eagle Lin IEC IE3	⑧, ⑨ ⑩, ⑪ ③
575 VΔ; 50 Hz power [7]	**9**	**0**	**M2H**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE4	①
575 VΔ; 60 Hz power [7]	**9**	**0**	**M1H**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	APAC Line Eagle Lin IEC IE3	⑧, ⑨ ⑩, ⑪ ③
400 VΔ/690 VY; 50 Hz power [1]	**9**	**0**	**M2J**	29.20	32.70	37.10	43.50	54.–	65.20	83.70	103.–	139.–	139.–	Not for:	Eagle Line IEC IE3	⑩, ⑪ ③
400 VΔ; 50 Hz power				–	–	37.10	43.50	54.–	65.20	83.70	103.–	139.–	139.–	Only for:	Eagle Line IEC IE3	⑩, ⑪ ③
400 VΔ/690 VY; 60 Hz power	**9**	**0**	**M1J**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	Eagle Line IEC IE3	⑩, ⑪ ③
480 VY; 50 Hz power	**9**	**0**	**M2K**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
480 VY; 60 Hz power	**9**	**0**	**M1K**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	Eagle Line IEC IE3	⑩, ⑪ ③
480 VΔ; 50 Hz power	**9**	**0**	**M2L**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
480 VΔ; 60 Hz power	**9**	**0**	**M1L**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	Eagle Line IEC IE3	⑩, ⑪ ③
230 VΔ/400 VY; 50 Hz power	**9**	**0**	**M2M**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
230 VΔ/400 VY; 60 Hz power	**9**	**0**	**M1M**	29.20	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	Eagle Line IEC IE3	⑩, ⑪ ③

For legends and footnotes, see Page 1/42.

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SIMOTICS GP 1LE1/1PC1 Standard Motors
Article No. supplements and special versions

Voltages · Aluminum series 1LE10, 1PC10

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	Motor version		
								1LE1004						IEC	IE4	①
						1LE1003									IE3	②
								1LE1083								③
				1LE1001											IE2	④
								1PC1001								⑤
				1LE1002											IE1	⑥
								1PC1002								⑦
						1LE1043								APAC Line	IE3	⑧
						1LE1041									IE2	⑨
1LE10 . . - . . . . ■ - ■ . . .						1LE1023								Eagle Line	NPE (NEMA)	⑩
1PC10 . . - . . . . ■ - ■ . . .			Order code				1LE1021								NEE (NEMA)	⑪
Voltage at 87 Hz and 87 Hz power																
400 VΔ [5]	**9**	**0**	**M3A**	–	–	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	Not for:	IEC IE3	③
Non-standard voltage and/or frequencies																
Non-standard winding [6]	**9**	**0**	**M1Y** • and customer specifications	58.90	66.20	74.40	87.50	108.–	132.–	167.–	208.–	268.–	268.–			

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
– Not possible

1) For North America export versions Eagle Line 1LE1021 NEMA Energy Efficient, 1LE1023 NEMA Premium Efficient and 1LE1083, voltages above 600 V will not be stamped.

2) Frame sizes 80 and 90 with voltage code 02 are only available without motor protection (motor protection code A).

3) Delta connection is not possible.

4) Star connection is not possible.

5) Only possible for 4-pole, 6-pole and 8-pole motors. The operating data for converter operation is also provided in a table on the rating plate.

6) Plain text must be specified in the order: Voltage between 200 and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated power in kW.

7) Not possible for 2-pole and 4-pole motors with increased power (11th position of the Article No.: 6) of frame sizes 80 and 90.

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Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size 100	112	132	160	180	200	Motor version
				1LE1011						Pole-changing
				1LE1012						
1LE1 . . . - . . . . ■ - ■ . . .			Order code							
Voltage at 50 Hz and 50 Hz power										
230 V	**2**	**2**	**–**	□	□	□	□	□	□	
400 V	**3**	**4**	**–**	□	□	□	□	□	□	
500 V	**4**	**0**	**–**	O	O	O	O	O	O	
690 V	**4**	**7**	**–**	O	O	O	O	O	O	
Voltage at 60 Hz and required power										
220 V; 50 Hz power	**9**	**0**	**M5K**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
220 V; 60 Hz power	**9**	**0**	**M5C**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
380 V; 50 Hz power	**9**	**0**	**M5L**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
380 V; 60 Hz power	**9**	**0**	**M5D**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
440 V; 50 Hz power	**9**	**0**	**M5M**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
440 V; 60 Hz power	**9**	**0**	**M5E**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
460 V; 50 Hz power	**9**	**0**	**M5N**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
460 V; 60 Hz power	**9**	**0**	**M5F**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
575 V; 50 Hz power	**9**	**0**	**M5P**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
575 V; 60 Hz power	**9**	**0**	**M5G**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
Non-standard voltage and/or frequencies										
Non-standard winding [1]	**9**	**0**	**M1Y** • and customer specifications	108.–	132.–	167.–	208.–	268.–	268.–	

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
O. R. Possible on request

[1] Plain text must be specified in the order: Voltage between 200 and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated power in kW.

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Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version		
				1LE1504 Basic Line													IEC	IE4	①
				1LE1604 Performance Line															②
				1LE1503 Basic Line														IE3	③
				1LE1603 Performance Line															④
				1LE1583															⑤
				1LE1501 Basic Line														IE2	⑥
				1LE1601 Performance Line															⑦
				1LE1502 Basic Line														IE1	⑧
				1LE1543 Basic Line													APAC Line	IE3	⑨
				1LE1643 Performance Line															⑩
				1LE1541 Basic Line														IE2	⑪
				1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
				1LE1623 Performance Line															⑬
1LE1 . . . - . . . . ■ - ■ . . .			Order code	1LE1521 Basic Line														NEE (NEMA)	⑭
Voltage at 50 Hz or 60 Hz																			
50 Hz 230 VΔ/400 VY, 60 Hz 460 VY	**2**	**2**	–	□	□	□	□	□	□	□	□	□	□	□	□	□			
50 Hz 400 VΔ/690 VY, 60 Hz 460 VΔ [1]	**3**	**4**	–	□	□	□	□	□	□	□	□	□	□	□	□	□	Not for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭	
50 Hz 400 VΔ, 60 Hz 460 VΔ [1]				□	□	□	□	□	□	□	□	□	□	□	□	□	Only for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭	
50 Hz 400 VY, 60 Hz 460 VY [2] [3]	**0**	**2**	–	□	□	□	□	□	□	□	□	□	□	□	□	□	Not for:	IEC IE3 ⑤	
50 Hz 400 VΔ , 60 Hz 460 VΔ [4]	**0**	**4**	–	□	□	□	□	□	□	□	□	□	□	□	□	□	Not for:	IEC IE3 ⑤	
50 Hz 500 VY/575 VY	**2**	**7**	–	O	O	O	O	O	O	O	O	O	O	O	O	O	Not for:	IEC IE4 ①, ② frame sizes 100 … 160	
50 Hz 500 VΔ, 60 Hz 575 VΔ	**4**	**0**	–	–	–	–	O	O	O	O	O	O	O	O	O	O	Not for:	IEC IE4 ①, ② frame sizes 100 … 160	
50 Hz 690 VY	**0**	**6**	–														Only for:	IEC IE3 ⑤	
50 Hz 690 VΔ	**4**	**7**	–														Only for:	IEC IE3 ⑤	
50 Hz 220 VΔ/380 VY, 60 Hz 440 VY	**2**	**1**	–	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
50 Hz 380 VΔ/660 VY, 60 Hz 440 VΔ [1]	**3**	**3**	–	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭	
50 Hz 380 VΔ [1]				32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Only for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭	
50 Hz 240 VΔ/415 VY, 60 Hz 480 VY	**2**	**3**	–	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
50 Hz 415 VΔ, 60 Hz 480 VΔ	**3**	**5**	–	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
60 Hz 220 VΔ/380 VY	**1**	**7**	–	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
60 Hz 230 VΔ/400 VY	**1**	**8**	–	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
60 Hz 380 VΔ/660 VY [1]	**3**	**0**	–	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	139.–	139.–	139.–	139.–	Not for:	IEC IE3 ⑤ IEC IE1 ⑧ Eagle Line ⑫, ⑬	
60 Hz 380 VΔ [1]				32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	139.–	139.–	139.–	139.–	Only for:	IEC IE1 ⑧ Eagle Line ⑫, ⑬	
60 Hz 400 VΔ/690 VY [1]	**3**	**1**	–	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	139.–	139.–	139.–	139.–	Not for:	IEC IE3 ⑤ IEC IE1 ⑧ Eagle Line ⑫, ⑬	
60 Hz 400 VΔ [1]				32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	139.–	139.–	139.–	139.–	139.–	Only for:	IEC IE1 ⑧ Eagle Line ⑫, ⑬	
Voltage at 60 Hz and required power																			
220 VΔ/380 VY; 50 Hz power	**9**	**0**	**M2A**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
220 VΔ/380 VY; 60 Hz power [2]	**9**	**0**	**M1A**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭ IEC IE3 ⑤	
380 VΔ/660 VY; 50 Hz power [1]	**9**	**0**	**M2B**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭ IEC IE3 ⑤	
380 VΔ; 50 Hz power [1]				–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Only for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭	
380 VΔ/660 VY; 60 Hz power [1] [2]	**9**	**0**	**M1B**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭ IEC IE3 ⑤	
440 VY; 50 Hz power	**9**	**0**	**M2C**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	

For legends and footnotes, see Page 1/46.

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

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size												Motor version		
				71	80	90	100	112	132	160	180	200	225	250	280	315			
							1LE1504 Basic Line										IEC	IE4	①
							1LE1604 Performance Line												②
				1LE1503 Basic Line														IE3	③
							1LE1603 Performance Line												④
							1LE1583												⑤
				1LE1501 Basic Line														IE2	⑥
							1LE1601 Performance Line												⑦
							1LE1502 Basic Line											IE1	⑧
					1LE1543 Basic Line												APAC Line	IE3	⑨
							1LE1643 Performance Line												⑩
											1LE1541 Basic Line							IE2	⑪
				1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
							1LE1623 Performance Line												⑬
1LE1 . . . - . . . . ■ - ■ . . .			Order code				1LE1521 Basic Line											NEE (NEMA)	⑭
Voltage at 60 Hz and required power (continued)																			
440 VY; 60 Hz power [2]	**9**	**0**	**M1C**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭ IEC IE3 ⑤	
440 VΔ; 50 Hz power	**9**	**0**	**M2D**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
440 VΔ; 60 Hz power [2]	**9**	**0**	**M1D**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭ IEC IE3 ⑤	
460 VY; 50 Hz power	**9**	**0**	**M2E**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
460 VY; 60 Hz power [2]	**9**	**0**	**M1E**	–	–	–	O	O	O	O	O	O	O	O	O	O	Not for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭ IEC IE3 ⑤	
460 VΔ; 50 Hz power	**9**	**0**	**M2F**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
460 VΔ; 60 Hz power [2]	**9**	**0**	**M1F**	–	–	–	O	O	O	O	O	O	O	O	O	O	Not for:	APAC Line ⑨, ⑩, ⑪ Eagle Line ⑫, ⑬, ⑭ IEC IE3 ⑤	
575 VY; 50 Hz power	**9**	**0**	**M2G**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE4 ①, ② frame sizes 100 … 160 IEC IE3 ⑤	
575 VY; 60 Hz power [2]	**9**	**0**	**M1G**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	⑪, ⑫, ⑬, ⑭ and ①, ② frame sizes 100 … 160	
575 VΔ; 50 Hz power	**9**	**0**	**M2H**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE4 ①, ② frame sizes 100 … 160 IEC IE3 ⑤	
575 VΔ; 60 Hz power [2]	**9**	**0**	**M1H**	–	–	–	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	⑪, ⑫, ⑬, ⑭ and ①, ② frame sizes 100 … 160	
400 VΔ/690 VY; 50 Hz power [1]	**9**	**0**	**M2J**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE1 ⑧ Eagle Line ⑫, ⑬	
400 VΔ; 50 Hz power [1]				32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Only for:	IEC IE1 ⑧ Eagle Line ⑫, ⑬	
400 VΔ/690 VY; 60 Hz power	**9**	**0**	**M1J**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE1 ⑧ Eagle Line ⑫, ⑬	
480 VY; 50 Hz power	**9**	**0**	**M2K**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
480 VY; 60 Hz power	**9**	**0**	**M1K**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE1 ⑧ Eagle Line ⑫, ⑬	
480 VΔ; 50 Hz power	**9**	**0**	**M2L**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
480 VΔ; 60 Hz power	**9**	**0**	**M1L**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE1 ⑧ Eagle Line ⑫, ⑬	
230 VΔ/400 VY; 50 Hz power	**9**	**0**	**M2M**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
230 VΔ/400 VY; 60 Hz power	**9**	**0**	**M1M**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE1 ⑧ Eagle Line ⑫, ⑬	

For legends and footnotes, see Page 1/46.

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SIMOTICS SD 1LE1 Standard Motors
Article No. supplements and special versions

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

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version		
						1LE1504 Basic Line										IEC	IE4	①
						1LE1604 Performance Line												②
			1LE1503 Basic Line														IE3	③
						1LE1603 Performance Line												④
						1LE1583												⑤
			1LE1501 Basic Line														IE2	⑥
						1LE1601 Performance Line												⑦
						1LE1502 Basic Line											IE1	⑧
				1LE1543 Basic Line												APAC Line	IE3	⑨
						1LE1643 Performance Line												⑩
										1LE1541 Basic Line							IE2	⑪
			1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
						1LE1623 Performance Line												⑬
1LE1 . . . - . . . . ■ - ■ . . .		Order code				1LE1521 Basic Line											NEE (NEMA)	⑭
Voltage at 87 Hz and 87 Hz power																		
400 V Δ [5]	**9**	**0** **M3A**	32.70	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–	Not for:	IEC IE3 ⑤	
Non-standard voltage and/or frequencies																		
Non-standard winding [6]	**9**	**0** **M1Y** • and customer specifications	65.60	74.40	87.50	108.–	132.–	167.–	208.–	268.–	326.–	483.–	609.–	779.–	1010.–			

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.

1) For North America export versions Eagle Line 1LE1521 NEMA Energy Efficient, 1LE1523/1LE1623 NEMA Premium Efficient and 1LE1583, voltages above 600 V will not be stamped.

2) Not admissible for North America export versions Eagle Line 1LE1521 NEMA Energy Efficient and 1LE1523/1LE1623 NEMA Premium Efficient.

3) Delta connection is not possible.

4) Star connection is not possible.

5) Only possible for 4-pole, 6-pole and 8-pole motors. The operating data for converter operation is also provided in a table on the rating plate.

6) Plain text must be specified in the order: Voltage between 200 and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated power in kW.

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Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size 80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	IE3
				1LE1073 Basic Line													
										1LE1573							
													1LE5773				
1LE . . . . -	■	■ . . .	Order code														
Voltage at 60 Hz and 50 Hz power																	
220 VΔΔ/380 VYY, 440 VΔ	**6**	**4**	**–**	□	□	□	□	□	□	□	□	□	□	□	□		
220 VΔ/380 VY	**9**	**0**	**M2A**	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	–		
380 VΔ/660 VY	**9**	**0**	**M2B**	37.10	43.50	54.–	65.20	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–		
440 VY	**9**	**0**	**M2C**	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	–		
440 VΔ	**9**	**0**	**M2D**	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–		
460 VY	**9**	**0**	**M2E**	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	–		
460 VΔ	**9**	**0**	**M2F**	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–		
575 VY	**9**	**0**	**M2G**	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	–		
575 VΔ	**9**	**0**	**M2H**	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–		
400 VΔ/690 VY	**9**	**0**	**M2J**	37.10	43.50	54.–	65.20	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–		
480 VY	**9**	**0**	**M2K**	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	–		
480 VΔ	**9**	**0**	**M2L**	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	412.–		
230 VΔ/400 VY	**9**	**0**	**M2M**	37.10	43.50	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	317.–	–		
Non-standard voltage and/or frequencies																	
Non-standard winding[1)]	**9**	**0**	**M1Y** • and customer specifications	74.40	87.50	108.–	132.–	167.–	208.–	268.–	326.–	483.–	609.–	779.–	1010.–		

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
– Not possible

1) Plain text must be specified in the order: Voltage between 200 and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated power in kW.

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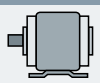
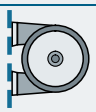
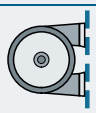
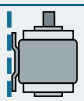
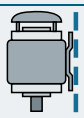
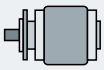
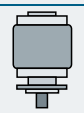
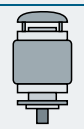
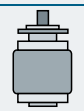
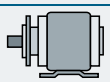
Selection and ordering data

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size 63	71	80	90	100	112	132	160	180	200	Motor version		
							1LE1004						IEC	IE4	①
					1LE1003									IE3	②
							1LE1083								③
			1LE1001											IE2	④
							1PC1001								⑤
			1LE1002											IE1	⑥
							1PC1002								⑦
					1LE1043								APAC Line	IE3	⑧
					1LE1041									IE2	⑨
					1LE1023								Eagle Line	NPE (NEMA)	⑩
						1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . ■ . . (-Z)							1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . ■ . . (-Z)		Order code					1LE1012								⑬
Without flange															
IM B3 [1) 2) 3)] 	A	–	□	□	□	□	□	□	□	□	□	□	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪	
IM B6 [2) 3)] 	T	–	□	□	□	□	□	□	□	□	□	□	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪	
IM B7 [2) 3) 9)] 	U	–	□	□	□	□	□	□	□	□	□	□	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪	
IM B8 [2) 3)] 	V	–	□	□	□	□	□	□	□	□	□	□	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪	
IM V6 [2) 3)] 	D	–	□	□	□	□	□	□	□	□	□	□	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪	
IM V5 without protective cover [2) 3)] 	C	–	□	□	□	□	□	□	□	□	□	□	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪	
IM V5 with protective cover [2) 3) 4) 5) 6)] 	C	H00	56.70	56.70	56.70	56.70	82.40	82.40	144.–	144.–	192.–	289.–	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪ Combination with order code F90	
With flange	EN 50347 DIN 42948		FF115 A 140	FF130 A 160	FF165 A 200	FF165 A 200	FF215 A 250	FF215 A 250	FF265 A 300	FF300 A 350	FF300 A 350	FF350 A 400			
IM B5 [2) 7)] 	F	–	43.50	48.20	54.80	65.70	81.30	101.–	132.–	170.–	269.–	326.–			
IM V1 without protective cover [2)] 	G	–	43.50	48.20	54.80	65.70	81.30	101.–	132.–	170.–	268.–	324.–			
IM V1 with protective cover [2) 4) 5) 6)] 	G	H00	100.20	104.90	111.50	122.40	163.70	183.40	276.–	314.–	460.–	613.–	Not for:	Combination with order code F90	
IM V3 [4)] 	H	–	43.50	48.20	54.80	65.70	81.30	101.–	132.–	170.–	269.–	326.–			
IM B35 [3)] 	J	–	49.40	52.50	58.10	68.30	89.80	110.–	137.–	189.–	315.–	420.–	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪	

For legends and footnotes, see Page 1/51.

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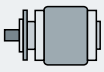
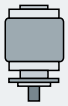
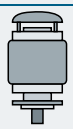
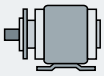
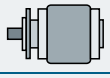
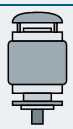
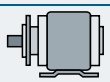
Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 63	71	80	90	100	112	132	160	180	200	Motor version		
							1LE1004						IEC	IE4	①
					1LE1003									IE3	②
							1LE1083								③
			1LE1001											IE2	④
							1PC1001								⑤
			1LE1002											IE1	⑥
							1PC1002								⑦
					1LE1043								APAC Line	IE3	⑧
					1LE1041									IE2	⑨
					1LE1023								Eagle Line	NPE (NEMA)	⑩
						1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . ■ . . (-Z)							1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . ■ . . (-Z)	Order code						1LE1012								⑬
With special flange next larger	**EN 50347**				–	FF215	FF265	FF265	FF300	–	–	–			
	DIN 42948				–	A 250	A 300	A 300	A 350	–	–	–			
IM B5 [2) 7)] 	**F**	**P01**	–	–	–	113.40	129.–	148.70	191.60	–	–	–			
IM V1 without protective cover [2)] 	**G**	**P01**	–	–	–	113.40	129.–	148.70	179.70	–	–	–			
IM V1 with protective cover [2) 4) 5) 6)] 	**G**	**P01+H00**	–	–	–	170.10	211.40	231.10	335.60	–	–	–	Not for:	Combination with order code F90	
IM V3 [4)] 	**H**	**P01**	–	–	–	113.40	129.–	148.70	191.60	–	–	–			
IM B35 [3)] 	**J**	**P01**	–	–	–	116.–	137.50	157.70	196.60	–	–	–	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪	
With special flange next smaller	**EN 50347**		FF100	FF115	FF130	–	FF165	FF165	FF215	FF265	FF265	FF300			
	DIN 42948		A 120	A 140	A 160	–	A 200	A 200	A 250	A 300	A 300	A 350			
IM B5 [2) 7)] 	**F**	**P02**	140.40	155.20	187.80	–	285.30	346.–	448.–	578.–	922.–	1122.–	Not for:	IEC IE3 ③	
IM V1 without protective cover [2)] 	**G**	**P02**	140.40	155.20	187.80	–	285.30	346.–	448.–	578.–	921.–	1120.–	Not for:	IEC IE3 ③	
IM V1 with protective cover [2) 4) 5) 6)] 	**G**	**P02+H00**	197.10	211.90	244.50	–	367.70	428.40	592.–	722.–	1113.–	1409.–	Not for:	Combination with order code F90 IEC IE3 ③	
IM V3 [4)] 	**H**	**P02**	140.40	155.20	187.80	–	285.30	346.–	448.–	578.–	922.–	1122.–	Not for:	IEC IE3 ③	
IM B35 [3)] 	**J**	**P02**	146.30	159.50	191.10	–	293.80	355.–	453.–	597.–	968.–	1216.–	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪	

For legends and footnotes, see Page 1/51.

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SIMOTICS GP 1LE1/1PC1 Standard Motors
Article No. supplements and special versions

Types of construction · Aluminum series 1LE10, 1PC10

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 63	71	80	90	100	112	132	160	180	200	Motor version		
							1LE1004						IEC	IE4	①
					1LE1003									IE3	②
							1LE1083								③
			1LE1001											IE2	④
							1PC1001								⑤
			1LE1002											IE1	⑥
							1PC1002								⑦
					1LE1043								APAC Line	IE3	⑧
					1LE1041									IE2	⑨
					1LE1023								Eagle Line	NPE (NEMA)	⑩
						1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - .	■ . . (-Z)						1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - .	■ . . (-Z)	Order code					1LE1012								⑬

With flange	EN 50347 / DIN 42948		FT75 C 90	FT85 C 105	FT100 C 120	FT115 C 140	FT130 C 160	FT130 C 160	FT165 C 200	FT215 C 250	– –	– –			
IM B14 [2) 8)]	K	–	43.50	48.20	54.80	65.70	81.30	101.–	132.–	170.–	–	–			
IM V19 [2)]	L	–	43.50	48.20	54.80	65.70	81.30	101.–	132.–	170.–	–	–			
IM V18 without protective cover [2)]	M	–	43.50	48.20	54.80	65.70	81.30	101.–	132.–	170.–	–	–			
IM V18 with protective cover [2) 4) 5) 6)]	M	H00	100.20	104.90	111.50	122.40	163.70	183.40	276.–	314.–	–	–	Not for:	Combination with order code F90	
IM B34 [3)]	N	–	43.50	48.20	57.80	68.30	89.40	110.–	137.–	189.–	–	–	Not for:	Eagle Line NEE	⑪
With special flange next larger [10)]	**EN 50347 / DIN 42948**		**FT100 C 120**	**FT115 C 140**	**FT130 C 160**	**FT130 C 160**	**FT165 C 200**	**FT165 C 200**	**FT215 C 250**	**– –**	**– –**	**– –**			
IM B14 [2) 8) 10)]	K	P01	91.20	95.90	102.50	113.40	129.–	148.70	191.60	–	–	–			
IM V19 [2)]	L	P01	91.20	95.90	102.50	113.40	129.–	148.70	191.60	–	–	–			
IM V18 without protective cover [2)]	M	P01	91.20	95.90	102.50	113.40	129.–	148.70	191.60	–	–	–			
IM V18 with protective cover [2) 4) 5) 6)]	M	P01+H00	147.90	152.60	159.20	170.10	211.40	231.10	335.60	–	–	–	Not for:	Combination with order code F90	
IM B34 [3)]	N	P01	91.20	95.90	105.50	116.–	137.10	157.70	196.60	–	–	–	Not for:	APAC Line IE2 ⑨ Eagle Line NEE ⑪	

For legends and footnotes, see Page 1/51.

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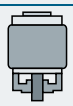
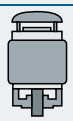
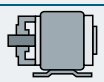
Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code **-Z**	Frame size: 63	71	80	90	100	112	132	160	180	200	Motor version		
							1LE1004						IEC	IE4	①
					1LE1003									IE3	②
							1LE1083								③
			1LE1001											IE2	④
							1PC1001								⑤
			1LE1002											IE1	⑥
							1PC1002								⑦
					1LE1043								APAC Line	IE3	⑧
					1LE1041									IE2	⑨
					1LE1023								Eagle Line	NPE (NEMA)	⑩
						1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . ■ **. . (-Z)**							1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . ■ **. . (-Z)**		Order code					1LE1012								⑬

With special flange next smaller	EN 50347 / DIN 42948		FT65 C 80	FT75 C 90	– –	– –	FT115 C 140	– –	– –	– –	– –	– –			
IM B14 [2) 8)] 	**K**	**P02**	140.40	155.20	–	–	285.30	–	–	–	–	–	Not for:	IEC IE4 IEC IE3	① ③
IM V19 [2)] 	**L**	**P02**	140.40	155.20	–	–	285.30	–	–	–	–	–	Not for:	IEC IE4 IEC IE3	① ③
IM V18 without protective cover [2)] 	**M**	**P02**	140.40	155.20	–	–	285.30	–	–	–	–	–	Not for:	IEC IE4 IEC IE3	① ③
IM V18 with protective cover [2) 4) 5) 6)] 	**M**	**P02+H00**	197.10	211.90	–	–	367.70	–	–	–	–	–	Not for:	IEC IE4 Combination with order code F90 IEC IE3	① ③
IM B34 [3)] 	**N**	**P02**	140.40	155.20	–	–	293.40	–	–	–	–	–	Not for:	IEC IE4 IEC IE3 APAC Line IE2 Eagle Line NEE	① ③ ⑨ ⑪

□ Standard version
– Not possible

1) The types of construction IM B6/7/8, IM V6 and IM V5 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B3 is then stamped on the rating plate. With type of construction IM V5 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

2) The type of construction is stamped on the rating plate. When ordering with condensation drainage holes (order code **H03**), if mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly.

3) For North America export version Eagle Line 1LE1021 NEMA Energy Efficient, types of construction with feet are not possible for 2-pole, 4-pole and 6-pole motors ≤ 200 hp in accordance with NEMA MG1 Table 12-11.

4) The "Standard cylindrical shaft extension (second shaft extension)" option (order code **L05**) is not possible.

5) In combination with an encoder it is not necessary to order the protective cover (order code **H00**), as this is delivered as a protection for the encoder as standard. In this case the protective cover is standard version (without additional charge).

6) Not possible for forced-air cooled 1LE1 motors with order code **F90** without external fan and fan cover.

7) The types of construction IM V3 and IM V1 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B5 is then stamped on the rating plate. With type of construction IM V1 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

8) The types of construction IM V19 and IM V18 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B14 is then stamped on the rating plate. With type of construction IM V18 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

9) When ordering the type of construction B7 and desired cable outlet downwards, the option **R12** needs to be ordered additionally.

10) With reference to the EN 50347 standard, flanges that are two sizes larger are used in the frame size 80 with option **P01**.

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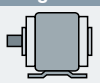
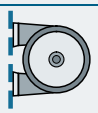
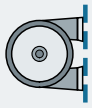
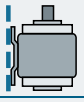
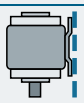
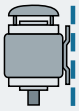
Selection and ordering data

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L 2-pole	315 L 4- ... 8-pole	Motor version		
						1LE1504 Basic Line												IEC	IE4	①
						1LE1604 Performance Line														②
			1LE1503 Basic Line																IE3	③
						1LE1603 Performance Line														④
						1LE1583														⑤
			1LE1501 Basic Line																IE2	⑥
						1LE1601 Performance Line														⑦
						1LE1502 Basic Line													IE1	⑧
				1LE1543 Basic Line														APAC Line	IE3	⑨
						1LE1643 Performance Line														⑩
										1LE1541 Basic Line									IE2	⑪
			1LE1523 Basic Line															Eagle Line	NPE (NEMA)	⑫
						1LE1623 Performance Line														⑬
1LE1 . . . - . . . . . - .	■ . . (-Z)	Order code				1LE1521 Basic Line													NEE (NEMA)	⑭
Without flange																				
IM B3 1) 2) 3) 	A	–	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	
IM B6 2) 3) 	T	–	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	
IM B7 2) 3) 9) 	U	–	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	
IM B8 2) 3) 	V	–	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	
IM V6 2) 3) 	D	–	□	□	□	□	□	□	□	□	□	□	□	□	□	460.–	□	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	
IM V5 without protective cover 2) 3) 	C	–	□	□	□	□	□	□	□	□	□	□	□	□	□	460.–	□	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	
IM V5 with protective cover 2) 3) 4) 5) 	C	H00	56.70	56.70	56.70	82.40	82.40	144.–	144.–	192.–	289.–	383.–	478.–	573.–	766.–	766.–	766.–	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	

For legends, see Page 1/55, for footnotes, see Page 1/56.

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

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size															Motor version		
			71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L 2-pole	315 L 4- ... 8-pole			
						1LE1504 Basic Line												IEC	IE4	①
						1LE1604 Performance Line														②
			1LE1503 Basic Line																IE3	③
						1LE1603 Performance Line														④
						1LE1583														⑤
			1LE1501 Basic Line																IE2	⑥
						1LE1601 Performance Line														⑦
						1LE1502 Basic Line													IE1	⑧
				1LE1543 Basic Line														APAC Line	IE3	⑨
						1LE1643 Performance Line														⑩
										1LE1541 Basic Line									IE2	⑪
			1LE1523 Basic Line															Eagle Line	NPE (NEMA)	⑫
						1LE1623 Performance Line														⑬
1LE1 . . . - . . . . . - . ■ . . (-Z)		Order code				1LE1521 Basic Line													NEE (NEMA)	⑭

With flange	EN 50347 / DIN 42948		FF130 A 160	FF165 A 200	FF165 A 200	FF215 A 250	FF215 A 250	FF265 A 300	FF300 A 350	FF300 A 350	FF350 A 400	FF400 A 450	FF500 A 550	FF500 A 550	FF600 A 660	FF600 A 660	FF600 A 660		
IM B5 2) 6)	F	–	48.20	54.80	65.70	81.30	101.–	132.–	170.–	269.–	326.–	422.–	507.–	738.–	1050.–	–	–		
IM V1 without protective cover 2)	G	–	48.20	54.80	65.70	81.30	101.–	132.–	170.–	268.–	324.–	424.–	517.–	742.–	1060.–	1060.–	1060.–		
IM V1 with protective cover 2) 4) 5)	G	H00	104.90	111.50	122.40	163.70	183.40	276.–	314.–	460.–	613.–	807.–	995.–	1315.–	1826.–	1826.–	1826.–		
IM V3 5)	H	–	48.20	54.80	65.70	81.30	101.–	132.–	170.–	269.–	326.–	422.–	507.–	738.–	1050.–	–	–		
IM B35 3)	J	–	52.50	57.80	68.–	89.40	110.–	137.–	189.–	315.–	420.–	525.–	735.–	946.–	1200.–	1200.–	1200.–	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	
With special flange next larger	**EN 50347 / DIN 42948**		– –	– –	FF215 A 250	FF265 A 300	FF265 A 300	FF300 A 350	– –	– –	– –	– –	– –	– –	– –	– –	– –			
IM B5 2) 6)	F	P01	–	–	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM V1 without protective cover 2)	G	P01	–	–	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM V1 with protective cover 2) 4) 5)	G	P01+ H00	–	–	122.40	211.40	231.10	335.60	–	–	–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM V3 5)	H	P01	–	–	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM B35 3)	J	P01	–	–	116.–	137.10	157.70	196.60	–	–	–	–	–	–	–	–	–	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp; ①, ② on request	
																			IEC IE3	⑤

For legends, see Page 1/55, for footnotes, see Page 1/56.

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SIMOTICS SD 1LE1 Standard Motors
Article No. supplements and special versions

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

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L 2-pole	315 L 4- ... 8-pole	Motor version		
						1LE1504 Basic Line												IEC	IE4	①
						1LE1604 Performance Line														②
			1LE1503 Basic Line																IE3	③
						1LE1603 Performance Line														④
						1LE1583														⑤
			1LE1501 Basic Line																IE2	⑥
						1LE1601 Performance Line														⑦
						1LE1502 Basic Line													IE1	⑧
				1LE1543 Basic Line														APAC Line	IE3	⑨
						1LE1643 Performance Line														⑩
										1LE1541 Basic Line									IE2	⑪
			1LE1523 Basic Line															Eagle Line	NPE (NEMA)	⑫
						1LE1623 Performance Line														⑬
1LE1 . . . - . . . . . - . ■ . . (-Z)		Order code				1LE1521 Basic Line													NEE (NEMA)	⑭
With special flange next smaller	**EN 50347**		–		–	FF165	FF165	FF215	FF265	FF265	FF300	–	–	–	–	–	–			
	DIN 42948		–	FF130 A 160	–	A 200	A 200	A 250	A 300	A 300	A 350	–	–	–	–	–	–			
IM B5 2) 6)	**F**	**P02**	–	187.80	–	285.30	346.–	448.–	578.–	922.–	1122.–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM V1 without protective cover 2)	**G**	**P02**	–	187.80	–	285.30	346.–	448.–	578.–	921.–	1120.–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM V1 with protective cover 2) 4) 5)	**G**	**P02+ H00**	–	244.50	–	367.70	428.40	592.–	722.–	1113.–	1409.–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM V3 5)	**H**	**P02**	–	187.80	–	285.30	346.–	448.–	578.–	922.–	1122.–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM B35 3)	**J**	**P02**	–	190.80	–	293.40	355.–	453.–	597.–	968.–	1216.–	–	–	–	–	–	–	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	
																			IEC IE3	⑤
With flange	**EN 50347**		FT85	FT100	FT115	FT130	FT130	FT165	FT215	–	–	–	–	–	–	–	–			
	DIN 42948		C 105	C 120	C 140	C 160	C 160	C 200	C 250	–	–	–	–	–	–	–	–			
IM B14 2) 7)	**K**	**–**	54.80	54.80	65.70	81.30	101.–	132.–	170.–	–	–	–	–	–	–	–	–			
IM V19 2)	**L**	**–**	54.80	54.80	65.70	81.30	101.–	132.–	170.–	–	–	–	–	–	–	–	–			
IM V18 without protective cover 2)	**M**	**–**	54.80	54.80	65.70	81.30	101.–	132.–	170.–	–	–	–	–	–	–	–	–			
IM V18 with protective cover 2) 4) 5)	**M**	**H00**	111.50	111.50	122.40	163.70	183.40	276.–	314.–	–	–	–	–	–	–	–	–			
IM B34 3)	**N**	**–**	52.50	57.80	68.30	89.40	110.–	137.–	189.–	–	–	–	–	–	–	–	–	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	

For legends, see Page 1/55, for footnotes, see Page 1/56.

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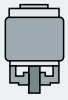
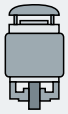
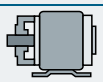
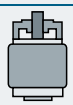
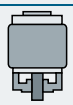
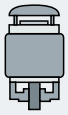
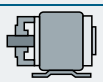
Types of construction · Cast-iron series 1LE15 Basic Line, 1LE16 Performance Line

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L 2-pole	315 L 4- ... 8-pole	Motor version		
						1LE1504 Basic Line												IEC	IE4	①
						1LE1604 Performance Line														②
			1LE1503 Basic Line																IE3	③
						1LE1603 Performance Line														④
						1LE1583														⑤
			1LE1501 Basic Line																IE2	⑥
						1LE1601 Performance Line														⑦
						1LE1502 Basic Line													IE1	⑧
				1LE1543 Basic Line														APAC Line	IE3	⑨
						1LE1643 Performance Line														⑩
										1LE1541 Basic Line									IE2	⑪
			1LE1523 Basic Line															Eagle Line	NPE (NEMA)	⑫
						1LE1623 Performance Line														⑬
1LE1 . . . - . . . . . - . ■ . . (-Z)		Order code				1LE1521 Basic Line													NEE (NEMA)	⑭
With special flange next larger	**EN 50347**		**FT115**	**FT130**	**FT130**	**FT165**	**FT165**	**FT215**	–	–	–	–	–	–	–	–	–			
	DIN 42948		**C 140**	**C 160**	**C 160**	**C 200**	**C 200**	**C 250**	–	–	–	–	–	–	–	–	–			
IM B14 2) 7) 8) 	**K**	**P01**	102.50	102.50	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–	–	–			
IM V19 2) 8) 	**L**	**P01**	102.50	102.50	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–	–	–			
IM V18 without protective cover 2) 8) 	**M**	**P01**	102.50	102.50	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–	–	–			
IM V18 with protective cover 2) 4) 5) 8) 	**M**	**P01+ H00**	159.20	159.20	170.10	211.40	231.10	335.60	–	–	–	–	–	–	–	–	–			
IM B34 3) 8) 	**N**	**P01**	100.20	105.50	116.–	137.10	157.70	196.60	–	–	–	–	–	–	–	–	–	Not for:	⑪, ⑭ 2-, 4-, 6-pole ≤ 200 hp; ⑫, ⑬ 8-pole ≤ 200 hp	
With special flange next smaller	**DIN EN 50347**		–	–	–	**FF215**	–	–	–	–	–	–	–	–	–	–	–			
	DIN 42948		–	–	–	**A 250**	–	–	–	–	–	–	–	–	–	–	–			
IM B14 2) 7) 	**K**	**P02**	–	–	–	285.30	–	–	–	–	–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM V19 2) 	**L**	**P02**	–	–	–	285.30	–	–	–	–	–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM V18 ohne Schutzdach 2) 	**M**	**P02**	–	–	–	285.30	–	–	–	–	–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM V18 mit Schutzdach 2) 4) 5) 	**M**	**P02+ H00**	–	–	–	367.70	–	–	–	–	–	–	–	–	–	–	–	Not for:	IEC IE3	⑤
IM B34 3) 	**N**	**P02**	–	–	–	293.40	–	–	–	–	–	–	–	–	–	–	–	Not for:	IEC IE3	⑤

□ Standard version
– Not possible

For footnotes, see Page 1/56.

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1) The types of construction IM B6/7/8, IM V6 and IM V5 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B3 is then stamped on the rating plate. With type of construction IM V5 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

2) The type of construction is stamped on the rating plate. If mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly.

3) For North America export version Eagle Line 1LE1521 NEMA Energy Efficient, types of construction with feet are not possible for 2-pole, 4-pole and 6-pole motors ≤ 200 hp in accordance with NEMA MG1 Table 12-11.

4) In combination with an encoder it is not necessary to order the protective cover (order code **H00**), as this is delivered as a protection for the encoder as standard. In this case the protective cover is standard version (without additional charge).

5) The “Standard cylindrical shaft extension (second shaft extension)” option (order code **L05**) is not possible.

6) The types of construction IM V3 and IM V1 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B5 is then stamped on the rating plate. With type of construction IM V1 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

7) The types of construction IM V19 and IM V18 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B14 is then stamped on the rating plate. With type of construction IM V18 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

8) With reference to the EN 50347 standard, flanges that are two sizes larger are used in the frame sizes 71 and 80 with option **P01**.

9) When ordering the type of construction B7 and desired cable outlet downwards, the option **R12** needs to be ordered additionally.

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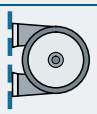
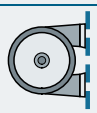
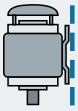
Selection and ordering data

Types of construction		Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code **-Z** Order code	Frame size: 80	90	100	112	132	160	180	200	225	250	280	315	Motor version: IEC	IE3
				1LE1073 Basic Line													
										1LE1573							
													1LE5773				
1LE . . . . - . . . . . - . ■ . . (-Z)																	
Without flange																	
IM B3 1) 2)		**A**	–	□	□	□	□	□	□	□	□	□	□	□	□		
IM B6 2)		**T**	–	□	□	□	□	□	□	□	□	□	□	□	□		
IM B7 2) 8)		**U**	–	□	□	□	□	□	□	□	□	□	□	□	□		
IM B8 2)		**V**	–	□	□	□	□	□	□	□	□	□	□	□	□		
IM V6 2)		**D**	–	□	□	□	□	□	□	□	□	□	□	□	□		
IM V5 without protective cover 2)		**C**	–	□	□	□	□	□	□	□	□	□	□	□	□		
IM V5 with protective cover 2) 3) 4) 5)		**C**	**H00**	56.70	56.70	82.40	82.40	144.–	144.–	192.–	289.–	383.–	478.–	573.–	766.–		

For legends, see Page 1/60, for footnotes, see Page 1/61.

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SIMOTICS GP/SD 1LE – ABNT Line Standard Motors

Article No. supplements and special versions

Types of condtruction · Aluminum series 1LE1073 and Cast-iron series 1LE1573/1LE5773

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z Order code	Frame size 80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	IE3
			1LE1073 Basic Line													
									1LE1573							
												1LE5773				
1LE . . . . - . . . . . - .	■ . . (-Z)															
With flange	**DIN EN 50347**		**FF165**	**FF165**	**FF215**	**FF215**	**FF265**	**FF300**	**FF300**	**FF350**	**FF400**	**FF500**	**FF500**	**FF600**		
	DIN 42948		**A 200**	**A 200**	**A 250**	**A 250**	**A 300**	**A 350**	**A 350**	**A 400**	**A 450**	**A 550**	**A 550**	**A 660**		
IM B5 2) 6)	**F**	**–**	54.80	65.70	81.30	101.–	132.–	170.–	269.–	326.–	422.–	507.–	738.–	1020.–		
IM V1 without protective cover 2)	**G**	**–**	54.80	65.70	81.30	101.–	132.–	170.–	268.–	324.–	424.–	517.–	742.–	1060.–		
IM V1 with protective cover 2) 3) 4) 5)	**G**	**H00**	–	–	163.70	183.40	276.–	314.–	460.–	613.–	807.–	995.–	1315.–	1826.–		
IM V3 3)	**H**	**–**	54.80	65.70	81.30	101.–	132.–	170.–	269.–	326.–	422.–	507.–	738.–	1020.–		
IM B35	**J**	**–**	58.10	68.30	89.80	110.–	137.–	189.–	315.–	420.–	525.–	735.–	946.–	1150.–		
With special flange next larger	**DIN EN 50347**		**–**	**FF215**	**FF265**	**FF265**	**FF300**	**–**	**–**	**–**	**–**	**–**	**–**	**–**		
	DIN 42948		**–**	**A 250**	**A 300**	**A 300**	**A 350**	**–**	**–**	**–**	**–**	**–**	**–**	**–**		
IM B5 2) 6)	**F**	**P01**	–	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–		
IM V1 without protective cover 2)	**G**	**P01**	–	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–		
IM V1 with protective cover 2) 3) 4) 5)	**G**	**P01+ H00**	–	170.10	211.40	231.10	335.60	–	–	–	–	–	–	–		
IM V3 3)	**H**	**P01**	–	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–		
IM B35	**J**	**P01**	–	116.–	137.50	157.70	196.60	–	–	–	–	–	–	–		

For legends, see Page 1/60, for footnotes, see Page 1/61.

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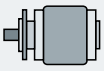
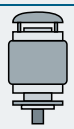
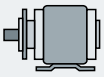
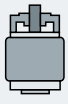
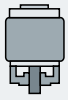
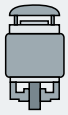
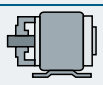
Types of condtruction · Aluminum series 1LE1073 and Cast-iron series 1LE1573/1LE5773

Types of construction		Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code **-Z** Order code	Frame size: 80	90	100	112	132	160	180	200	225	250	280	315	Motor version: IEC	IE3
				1LE1073 Basic Line													
										1LE1573							
													1LE5773				
1LE . . . . - . . . . . - . ■ . . (-Z)																	
With special flange next smaller		**DIN EN 50347**		**FF130**	–	**FF165**	**FF165**	**FF215**	**FF265**	**FF265**	**FF300**	–	–	–	–		
		DIN 42948		**A 160**	–	**A 200**	**A 200**	**A 250**	**A 300**	**A 300**	**A 350**	–	–	–	–		
IM B5 2) 6)		**F**	**P02**	187.80	–	285.30	346.–	448.–	578.–	922.–	1122.–	–	–	–	–		
IM V1 without protective cover 2)		**G**	**P02**	187.80	–	285.30	346.–	448.–	578.–	921.–	1120.–	–	–	–	–		
IM V1 with protective cover 2) 3) 4) 5)		**G**	**P02+ H00**	244.50	–	367.70	428.40	592.–	722.–	1113.–	1409.–	–	–	–	–		
IM V3 3)		**H**	**P02**	187.80	–	285.30	346.–	448.–	578.–	922.–	1122.–	–	–	–	–		
IM B35		**J**	**P02**	191.10	–	293.80	355.–	453.–	597.–	968.–	1216.–	–	–	–	–		
With flange		**DIN EN 50347**		**FT100**	**FT115**	**FT130**	**FT130**	**FT165**	**FT215**	–	–	–	–	–	–		
		DIN 42948		**C 120**	**C 140**	**C 160**	**C 160**	**C 200**	**C 250**	–	–	–	–	–	–		
IM B14 2) 7)		**K**	**–**	54.80	65.70	81.30	101.–	132.–	170.–	–	–	–	–	–	–		
IM V19 2)		**L**	**–**	54.80	65.70	81.30	101.–	132.–	170.–	–	–	–	–	–	–		
IM V18 without protective cover 2)		**M**	**–**	54.80	65.70	81.30	101.–	132.–	170.–	–	–	–	–	–	–		
IM V18 with protective cover 2) 3) 4) 5)		**M**	**H00**	111.50	122.40	163.70	183.40	276.–	314.–	–	–	–	–	–	–		
IM B34		**N**	**–**	57.80	68.30	89.40	110.–	137.–	189.–	–	–	–	–	–	–		

For legends, see Page 1/60, for footnotes, see Page 1/61.

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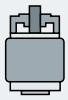
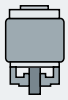
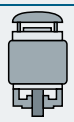
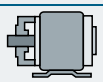
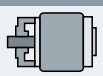
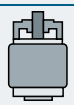
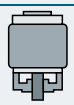
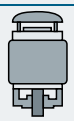
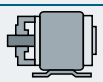
SIMOTICS GP/SD 1LE – ABNT Line Standard Motors

Article No. supplements and special versions

Types of condtruction · Aluminum series 1LE1073 and Cast-iron series 1LE5773/1LE5773

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z Order code	Frame size: 80	90	100	112	132	160	180	200	225	250	280	315	Motor version: IEC	IE3
			1LE1073 Basic Line						1LE1573							
													1LE5773			
1LE . . . . - . . . . . - . ■ . . (-Z)																
With special flange next larger	**DIN EN 50347**		**FT130**	**FT130**	**FT165**	**FT165**	**FT215**	–	–	–	–	–	–	–		
	DIN 42948		**C 160**	**C 160**	**C 200**	**C 200**	**C 250**	–	–	–	–	–	–	–		
IM B14 2) 7) 	**K**	**P01**	102.50	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–		
IM V19 2) 	**L**	**P01**	102.50	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–		
IM V18 without protective cover 2) 	**M**	**P01**	102.50	113.40	129.–	148.70	191.60	–	–	–	–	–	–	–		
IM V18 with protective cover 2) 3) 4) 5) 	**M**	**P01+ H00**	159.20	170.10	211.40	231.10	335.60	–	–	–	–	–	–	–		
IM B34 	**N**	**P01**	105.50	116.–	137.10	157.70	196.60	–	–	–	–	–	–	–		
With special flange next smaller	**DIN EN 50347**		–	–	**FF215**	**FF215**	**FF265**	**FF300**	–	–	–	–	–	–		
	DIN 42948		–	–	**A 250**	**A 250**	**A 300**	**A 350**	–	–	–	–	–	–		
IM B14 2) 7) 	**K**	**P02**	–	–	285.30	O. R.	O. R.	O. R.	–	–	–	–	–	–		
IM V19 2) 	**L**	**P02**	–	–	285.30	O. R.	O. R.	O. R.	–	–	–	–	–	–		
IM V18 without protective cover 2) 	**M**	**P02**	–	–	285.30	O. R.	O. R.	O. R.	–	–	–	–	–	–		
IM V18 with protective cover 2) 4) 5) 	**M**	**P02+ H00**	–	–	367.70	O. R.	O. R.	O. R.	–	–	–	–	–	–		
IM B34 3) 	**N**	**P02**	–	–	293.40	O. R.	O. R.	O. R.	–	–	–	–	–	–		

■ Standard version
O. R. Possible on request
– Not possible

For footnotes, see Page 1/61.

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[1] The types of construction IM B6/7/8, IM V6 and IM V5 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B3 is then stamped on the rating plate. With type of construction IM V5 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

[2] The type of construction is stamped on the rating plate. When ordering with condensation drainage holes (order code **H03**), if mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly.

[3] The "Standard cylindrical shaft extension (second shaft extension)" option (order code **L05**) is not possible.

[4] In combination with an encoder it is not necessary to order the protective cover (order code **H00**), as this is delivered as a protection for the encoder as standard. In this case the protective cover is standard version (without additional charge).

[5] Not possible for forced-air cooled 1LE1 motors with order code **F90** without external fan and fan cover.

[6] The types of construction IM V3 and IM V1 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B5 is then stamped on the rating plate. With type of construction IM V1 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

[7] The types of construction IM V19 and IM V18 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B14 is then stamped on the rating plate. With type of construction IM V18 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

[8] When ordering the type of construction IM B7 and desired cable outlet downwards, the option **R12** needs to be ordered additionally.

[9] With reference to the EN 50347 standard, flanges that are two sizes larger are used in the frame size 80 with option **P01**.

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Selection and ordering data

Motor protection	Article No. supplement		Frame size										Motor version		
	Motor protection code 15th position of the Article No.	Additional identification code with order code and plain text if required	63	71	80	90	100	112	132	160	180	200			
							1LE1004						IEC	IE4	①
					1LE1003									IE3	②
							1LE1083								③
			1LE1001											IE2	④
							1PC1001								⑤
			1LE1002											IE1	⑥
							1PC1002								⑦
					1LE1043								APAC Line	IE3	⑧
					1LE1041									IE2	⑨
					1LE1023								Eagle Line	NPE (NEMA)	⑩
						1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . . ■ .							1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . . ■ .		Order code					1LE1012								⑬
Motor protection															
Without (Standard)	**A**	–	□	□	□	□	□	□	□	□	□	□			
1 or 3 PTC thermistors – for tripping (2 terminals) [1]	**B**	–	37.80	39.20	37.10	43.50	119.–	119.–	180.–	180.–	239.–	239.–			
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [1]	**C**	–	176.–	176.–	176.–	176.–	205.–	205.–	274.–	274.–	421.–	421.–			
1 temperature sensor KTY84-130 (2 terminals) [1]	**F**	–	105.–	105.–	105.–	105.–	119.–	119.–	180.–	180.–	339.–	339.–			
2 temperature sensors KTY84-130 (4 terminals) [1]	**G**	–	211.–	211.–	211.–	211.–	241.–	241.–	359.–	359.–	550.–	550.–			
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals) [1]	**H**	–	–	–	–	–	1510.–	1510.–	1510.–	1510.–	1510.–	1510.–			
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals)	**J**	–	–	–	–	–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	Only for:	IEC IE3	③
1 Pt1000 resistance thermometer (2 terminals) [1] [2]	**K**	–	105.–	105.–	105.–	105.–	119.–	119.–	180.–	180.–	339.–	339.–			
2 Pt1000 resistance thermometers (4 terminals) [1] [2]	**L**	–	211.–	211.–	211.–	211.–	241.–	241.–	359.–	359.–	550.–	550.–			
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals) [1]	**P**	–	–	–	–	–	1040.–	1040.–	1040.–	1040.–	1340.–	1340.–			
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals) [1]	**Q**	–	–	–	–	–	1310.–	1310.–	1310.–	1310.–	2010.–	2010.–			
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals) [1]	**R**	–	–	–	–	–	2020.–	2020.–	2020.–	2020.–	2960.–	2960.–			
3 NTC resistors - for tripping (6 terminals) [1]	**Z**	**Q2A**	–	–	–	–	241.–	241.–	357.–	357.–	–	–			
3 bimetal sensors (NC contact) for tripping (2 terminals) [1]	**Z**	**Q3A**	117.–	117.–	117.–	117.–	134.–	134.–	196.–	196.–	270.–	270.–			

□ Standard version
– Not possible

[1] Evaluation with appropriate tripping unit (see Catalog IC 10) is recommended. For pole-changing motors with two separate windings, double the number of temperature sensors or temperature detectors is required. This also results in a double additional charge.

[2] Not UL-certified. Not possible in combination with the option **D31**.

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Selection and ordering data

Motor protection	Article No. supplement: Motor protection code 15th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version	
			1LE1504 Basic Line													IEC	IE4 ①
			1LE1604 Performance Line														②
			1LE1503 Basic Line														IE3 ③
			1LE1603 Performance Line														④
			1LE1583														⑤
			1LE1501 Basic Line														IE2 ⑥
			1LE1601 Performance Line														⑦
			1LE1502 Basic Line														IE1 ⑧
				1LE1543 Basic Line												APAC Line	IE3 ⑨
			1LE1643 Performance Line														⑩
										1LE1541 Basic Line							IE2 ⑪
			1LE1523 Basic Line													Eagle Line	NPE (NEMA) ⑫
			1LE1623 Performance Line														⑬
1LE1 . . . -. . . . . -. . ■ .		Order code				1LE1521 Basic Line											NEE (NEMA) ⑭
Motor protection																	
Without (Standard) [1]	**A**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	Only for:	Basic Line ①, ③, ⑥, ⑧, ⑨, ⑪, ⑫, ⑭
1 or 3 PTC thermistors – for tripping (2 terminals) [1] [2]	**B**	**–**	39.20	40.5	43.5	119.–	119.–	180.–	180.–	239.–	239.–	325.–	325.–	406.–	406.–	Only for:	Basic Line ①, ③, ⑥, ⑧, ⑨, ⑪, ⑫, ⑭
			□	□	□	□	□	□	□	□	□	□	□	□	□	Only for:	Performance Line ②, ④, ⑦, ⑩, ⑬
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [2]	**C**	**–**	176.–	176.–	176.–	205.–	205.–	274.–	274.–	421.–	421.–	548.–	548.–	679.–	679.–		
1 temperature sensor KTY84-130 (2 terminals) [2]	**F**	**–**	105.–	105.–	105.–	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–		
2 temperature sensors KTY84-130 (4 terminals) [2]	**G**	**–**	210.–	210.–	210.–	242.–	242.–	357.–	357.–	550.–	550.–	756.–	1020.–	1020.–	1500.–		
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals) [2]	**H**	**–**	1040.–	1040.–	1040.–	1240.–	1240.–	1240.–	1240.–	1510.–	1510.–	1510.–	1670.–	1670.–	1670.–		
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals) [2]	**J**	**–**	–	–	–	–	–	–	–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–		
1 Pt1000 resistance thermometer (2 terminals) [2] [3]	**K**	**–**	105.–	105.–	105.–	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–		
2 Pt1000 resistance thermometers (4 terminals) [2] [3]	**L**	**–**	210.–	210.–	210.–	242.–	242.–	357.–	357.–	550.–	550.–	756.–	1020.–	1020.–	1500.–		
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals) [2]	**P**	**–**	–	–	–	1040.–	1040.–	1040.–	1040.–	1340.–	1340.–	1340.–	1340.–	1340.–	1340.–		
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals) [2]	**Q**	**–**	–	–	–	1310.–	1310.–	1310.–	1310.–	2010.–	2010.–	2010.–	2010.–	2010.–	2010.–		
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals) [2]	**R**	**–**	–	–	–	2020.–	2020.–	2020.–	2020.–	2960.–	2960.–	2960.–	2960.–	2960.–	2960.–		
3 NTC resistors – for tripping (6 terminals) [2]	**Z**	**Q2A**	210.–	210.–	210.–	241.–	241.–	357.–	357.–	–	–	–	–	–	–		
3 bimetal sensors (NC contact) for tripping (2 terminals) [2]	**Z**	**Q3A**	117.–	117.–	117.–	134.–	134.–	196.–	196.–	270.–	270.–	339.–	339.–	419.–	419.–		
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals) [2]	**Z**	**Q9A**	–	–	–	241.–	241.–	352.–	352.–	477.–	477.–	647.–	647.–	801.–	801.–		

□ Standard version
– Not possible

Note:

Options are available specifically for bearing protection –
For order codes and descriptions, see from Page 1/76.

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

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

[3] Not UL-certified. Not possible in combination with the option **D31**.

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Selection and ordering data

Motor protection	Article No. supplement: Motor protection code 15th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size: 80	90	100	112	132	160	180	200	225	250	280	315	Motor version: IEC	IE3
			1LE1073 Basic Line													
									1LE1573							
														1LE5773		
1LE . . . . - . . . . . - . . ■ .		Order code														
Motor protection																
Without (Standard)	**A**	**–**	□	□	□	□	□	□	□	□	□	□	□	□		
1 or 3 PTC thermistors – for tripping (2 terminals) [1]	**B**	**–**	37.10	43.50	119.–	119.–	180.–	180.–	239.–	239.–	325.–	325.–	406.–	406.–		
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [1]	**C**	**–**	176.–	176.–	205.–	205.–	274.–	274.–	421.–	421.–	548.–	548.–	679.–	679.–		
1 temperature sensor KTY84-130 (2 terminals) [1]	**F**	**–**	105.–	105.–	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	601.–		
2 temperature sensors KTY84-130 (4 terminals) [1]	**G**	**–**	211.–	211.–	241.–	241.–	359.–	359.–	550.–	550.–	756.–	1020.–	1020.–	1500.–		
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**H**	**–**	–	–	1510.–	1510.–	1510.–	1510.–	1510.–	1510.–	1510.–	1670.–	1670.–	1670.–		
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals)	**J**	**–**	–	–	–	–	–	–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–		
1 Pt1000 resistance thermometer (2 terminals) [2]	**K**	**–**	105.–	105.–	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–		
2 Pt1000 resistance thermometers (4 terminals) [2]	**L**	**–**	211.–	211.–	241.–	241.–	359.–	359.–	550.–	550.–	756.–	1020.–	1020.–	1500.–		
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals) [2]	**P**	**–**	–	–	1040.–	1040.–	1040.–	1040.–	1340.–	1340.–	1340.–	1340.–	1340.–	1340.–		
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals)	**Q**	**–**	–	–	1310.–	1310.–	1310.–	1310.–	2010.–	2010.–	2010.–	2010.–	2010.–	2010.–		
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals)	**R**	**–**	–	–	2020.–	2020.–	2020.–	2020.–	2960.–	2960.–	2960.–	2960.–	2960.–	2960.–		
3 NTC resistors – for tripping (6 terminals)	**Z**	**Q2A**	–	–	241.–	241.–	357.–	357.–	–	–	–	–	–	–		
3 bimetal sensors (NC contact) for tripping (2 terminals) [1]	**Z**	**Q3A**	117.–	117.–	134.–	134.–	196.–	196.–	270.–	270.–	339.–	339.–	419.–	419.–		
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals) [1]	**Z**	**Q9A**	–	–	241.–	241.–	352.–	352.–	477.–	477.–	647.–	647.–	801.–	801.–		

□ Standard version
– Not possible

Note:

Options are available specifically for bearing protection –
For order codes and descriptions, see from Page 1/87.

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

[2] Not UL-certified. Not possible in combination with the option **D31**.

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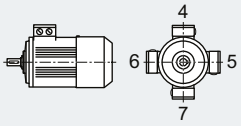
Selection and ordering data



1LE10 . . - . . . . . - . . . ■
1PC10 . . - . . . . . - . . . ■

Terminal box position	Article No. supplement: Terminal box position code 16th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	63	71	80	90	100	112	132	160	180	200
Terminal box top [1]	4	–	□	□	□	□	□	□	□	□	□	□
Terminal box on RHS [2]	5	–	–	–	35.90	40.60	104.–	113.–	123.–	132.–	186.–	218.–
Terminal box on LHS [2]	6	–	–	–	35.90	40.60	104.–	113.–	123.–	132.–	186.–	218.–
Terminal box bottom [2] [3]	7	–	–	–	–	–	104.–	113.–	123.–	132.–	–	–

Frame size											Motor version		
63	71	80	90	100	112	132	160	180	200				
				1LE1004							IEC	IE4	①
		1LE1003										IE3	②
				1LE1083									③
1LE1001												IE2	④
				1PC1001									⑤
1LE1002												IE1	⑥
				1PC1002									⑦
		1LE1043									APAC Line	IE3	⑧
		1LE1041										IE2	⑨
		1LE1023									Eagle Line	NPE (NEMA)	⑩
			1LE1021									NEE (NEMA)	⑪
				1LE1011							Pole-changing		⑫
				1LE1012									⑬

□ Standard version
– Not possible

[1] For types of construction with feet up to and including frame size 160, cast feet are standard. Screwed-on feet are available with order code **H01**. Frame sizes 180 and 200 are fitted as standard with screwed-on feet.

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

[3] Not generally possible for motors with feet.

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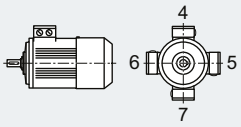
Selection and ordering data

Terminal box position	Article No. supplement: Terminal box position code 16th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size													Motor version		
			71	80	90	100	112	132	160	180	200	225	250	280	315			
						1LE1504 Basic Line										IEC	IE4	①
						1LE1604 Performance Line												②
			1LE1503 Basic Line														IE3	③
						1LE1603 Performance Line												④
						1LE1583												⑤
			1LE1501 Basic Line														IE2	⑥
						1LE1601 Performance Line												⑦
						1LE1502 Basic Line											IE1	⑧
				1LE1543 Basic Line												APAC Line	IE3	⑨
						1LE1643 Performance Line												⑩
										1LE1541 Basic Line							IE2	⑪
			1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
						1LE1623 Performance Line												⑬
1LE1 . . . - . . . . . - . . . ■		Order code				1LE1521 Basic Line											NEE (NEMA)	⑭
Terminal box position																		
Terminal box top [1]	**4**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□			
Terminal box on RHS [2]	**5**	**–**	–	52.50	73.50	104.–	113.–	123.–	132.–	371.–	437.–	517.–	768.–	863.–	993.–			
Terminal box on LHS [2]	**6**	**–**	–	52.50	73.50	104.–	113.–	123.–	132.–	371.–	437.–	517.–	768.–	863.–	993.–			
Terminal box bottom [3]	**7**	**–**	–	–	–	104.–	113.–	123.–	132.–	–	–	–	–	–	–			

□ Standard version
– Not possible

[1] For types of construction with feet and flange-mounted with feet, cast feet are standard. Screwed-on feet are available with order code **H01**.

[2] For types of construction with feet and flange-mounted with feet, screwed-on feet are standard. Except for frame sizes 225, 250, 280 and 315: in which case for types of construction with feet and flange-mounted with feet, cast feet are standard. Screwed-on feet are available with order code **H01**.

[3] Not generally possible for motors with feet.

For legends and footnotes, see Page 1/75.

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Selection and ordering data

Terminal box position	Article No. supplement: Terminal box position code 16th position of the Article No.	Additional identification code with order code and plain text if required	Frame size 80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	IE3
			1LE1073 Basic Line													
									1LE1573							
														1LE5773		
1LE . . . . - . . . . . - . . . ■		Order code														
Terminal box position																
Terminal box base on LHS with terminal box on top	**0**	**–**	–	–	–	–	–	–	–	–	–	–	–	630.–		
Terminal box base on RHS with terminal box on top	**1**	**–**	–	–	–	–	–	–	–	–	–	–	–	630.–		
Terminal box base on LHS with tilted terminal box 45°	**2**	**–**	–	–	–	–	–	–	–	–	–	–	–	O		
Terminal box base on RHS with tilted terminal box 45°	**3**	**–**	–	–	–	–	–	–	–	–	–	–	–	□		
Terminal box top	**4**	**–**	□	□	□	□	□	□	□	□	□	□	□	–		
Terminal box on RHS	**5**	**–**	35.90	40.60	104.–	113.–	123.–	132.–	371.–	437.–	517.–	768.–	863.–	630.–		
Terminal box on LHS	**6**	**–**	35.90	40.60	104.–	113.–	123.–	132.–	371.–	437.–	517.–	768.–	863.–	630.–		
Terminal box bottom [1]	**7**	**–**	–	–	104.–	113.–	123.–	132.–	–	–	–	–	–	–		
Terminal box on LHS (base at the bottom) [1]	**9**	**R5L**	–	–	–	–	–	–	–	–	–	–	–	630.–		
Terminal box on RHS (base at the bottom) [1]	**9**	**R6R**	–	–	–	–	–	–	–	–	–	–	–	630.–		
Terminal box at the bottom on LHS [1]	**9**	**R7L**	–	–	–	–	–	–	–	–	–	–	–	630.–		
Terminal box at the bottom on RHS [1]	**9**	**R7R**	–	–	–	–	–	–	–	–	–	–	–	630.–		

□ Standard version
○ Without additional charge
– Not possible

[1] For legends and footnotes, see Page 1/75.

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	Motor version		
						1LE1004						IEC	IE4	①
				1LE1003									IE3	②
						1LE1083								③
		1LE1001											IE2	④
						1PC1001								⑤
		1LE1002											IE1	⑥
						1PC1002								⑦
				1LE1043								APAC Line	IE3	⑧
				1LE1041									IE2	⑨
				1LE1023								Eagle Line	NPE (NEMA)	⑩
					1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . . . . -Z						1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . . . . -Z	Order code					1LE1012								⑬

Motor protection												
1 or 3 PTC thermistors – for tripping (2 terminals)	**Q11**	34.70	34.70	37.10	43.50	119.–	119.–	180.–	180.–	239.–	239.–	
2 or 6 PTC thermistors – for alarm and tripping (4 terminals)	**Q12**	176.–	176.–	176.–	176.–	205.–	205.–	274.–	274.–	421.–	421.–	
1 temperature sensor KTY84-130 (2 terminals)	**Q23**	105.–	105.–	105.–	105.–	119.–	119.–	180.–	180.–	339.–	339.–	
2 temperature sensors KTY84-130 (2 terminals)	**Q25**	211.–	211.–	211.–	211.–	241.–	241.–	359.–	359.–	550.–	550.–	
3 bimetal sensors (NC contact) for tripping (2 terminals)	**Q31**	–	–	117.–	117.–	134.–	134.–	196.–	196.–	270.–	270.–	
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals)	**Q32**	–	–	210.–	210.–	241.–	241.–	352.–	352.–	477.–	477.–	
3 bimetal sensors (NC contact) for tripping (6 terminals)	**Q33**	–	–	–	–	–	–	–	–	281.–	281.–	
6 bimetal sensors (NC contact) for alarm and tripping (12 terminals)	**Q34**	–	–	–	–	–	–	–	–	488.–	488.–	
1 Pt1000 resistance thermometer (2 terminals) [40]	**Q35**	105.–	105.–	105.–	105.–	119.–	119.–	180.–	180.–	339.–	339.–	
2 Pt1000 resistance thermometers (4 terminals) [40]	**Q36**	211.–	211.–	211.–	211.–	241.–	241.–	359.–	359.–	550.–	550.–	
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**Q60**	–	–	–	–	1240.–	1240.–	1240.–	1240.–	1510.–	1510.–	
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals)	**Q61**	–	–	–	–	1920.–	1920.–	1920.–	1920.–	2470.–	2470.–	
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**Q62**	–	–	–	–	1040.–	1040.–	1040.–	1040.–	1340.–	1340.–	
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals)	**Q63**	–	–	–	–	1310.–	1310.–	1310.–	1310.–	2010.–	2010.–	
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals)	**Q64**	–	–	–	–	2020.–	2020.–	2020.–	2020.–	2960.–	2960.–	
2 Pt100 screw-in thermometers in basic circuit for bearings (2 terminals)	**Q72**	–	–	–	–	O. R.	O. R.	O. R.	O. R.	4300.–	4300.–	
2 Pt100 screw-in thermometers in 3-wire circuit for bearings (6 terminals)	**Q78**	–	–	–	–	O. R.	O. R.	O. R.	O. R.	4730.–	4730.–	
2 double Pt100 screw-in thermometers in 3-wire circuit for bearings (12 terminals)	**Q79**	–	–	–	–	O. R.	O. R.	O. R.	O. R.	5670.–	5670.–	
Motor connection and terminal box												
External grounding	**H04**	24.–	24.–	24.–	24.–	28.90	28.90	28.90	28.90	37.10	37.10	
Terminal box on NDE [3]	**H08**	63.–	73.50	84.–	96.70	119.–	147.–	190.–	258.–	967.–	999.–	
Rotation of the terminal box through 90°, entry from DE [1]	**R10**	O	O	O	O	O	O	O	O	45.10	58.40	
Rotation of the terminal box through 90°, entry from NDE	**R11**	O	O	O	O	O	O	O	O	45.10	58.40	
Rotation of the terminal box through 180°	**R12**	O	O	O	O	O	O	O	O	45.10	58.40	
Terminal box in position 0°; connection from right [41]	**R13**	O	O	O	O	O	O	O	–	–	–	Not for: ③
One metal cable gland	**R15**	59.80	59.80	59.80	59.80	112.–	112.–	112.–	143.–	143.–	165.–	
One metal cable gland, maximum configuration	**R18**	86.20	86.20	86.20	86.20	159.–	159.–	159.–	209.–	209.–	241.–	
3 cables protruding, 0.5 m long [4] [5]	**R20**	57.60	57.60	57.30	57.30	68.70	82.40	101.–	118.–	–	–	Not for: ⑫, ⑬

For legends and footnotes, see Page 1/75.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size										Motor version		
		63	71	80	90	100	112	132	160	180	200			
						1LE1004						IEC	IE4	①
				1LE1003									IE3	②
						1LE1083								③
		1LE1001											IE2	④
						1PC1001								⑤
		1LE1002											IE1	⑥
						1PC1002								⑦
				1LE1043								APAC Line	IE3	⑧
				1LE1041									IE2	⑨
				1LE1023								Eagle Line	NPE (NEMA)	⑩
					1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . . . . -Z						1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . . . . -Z	Order code					1LE1012								⑬

Motor connection and terminal box (continued)												
3 cables protruding, 1.5 m long [4) 5)]	**R21**	69.40	69.40	69.40	69.40	82.90	99.70	121.–	144.–	O. R.	O. R.	Not for: ⑫, ⑬
6 cables protruding, 0.5 m long [4)]	**R22**	88.80	88.80	88.80	88.80	106.–	128.–	158.–	186.–	O. R.	O. R.	
6 cables protruding, 1.5 m long [4)]	**R23**	113.–	113.–	113.–	113.–	136.–	164.–	199.–	237.–	O. R.	O. R.	
6 cables protruding, 3 m long [4)]	**R24**	181.–	181.–	181.–	181.–	218.–	257.–	322.–	386.–	O. R.	O. R.	
Reduction piece for M cable gland in accordance with British Standard, both cable entries mounted [2)]	**R30**	–	–	–	–	194.–0	218.–0	218.–0	244.–0	–	–	
Larger terminal box	**R50**	49.50	49.50	103.–	103.–	214.–	214.–	274.–	313.–	475.–	523.–	Not for: ⑩, ⑪ < frame size 100
	–	–	–	□	□	□	□	□	□	□	□	Only for: ⑩, ⑪ < frame size 100
Auxiliary terminal box, aluminum	**R60**	–	–	–	–	–	–	–	–	284.–	284.–	
Motor connector Han-Drive 10e for 230 VΔ/400 VY [30)]	**R70**	146.–	146.–	146.–	146.–	388.–	388.–	444.–	–	–	–	
Motor connector Han-Drive 10e with EMC for 230 VΔ/400 VY [30)]	**R71**	270.–	270.–	270.–	270.–	527.–	527.–	605.–	–	–	–	
Small motor connector CQ12 with EMC	**R72**	–	–	220.–	220.–	–	–	–	–	–	–	Not for: ③
Small motor connector CQ12 without EMC	**R73**	–	–	96.20	96.20	–	–	–	–	–	–	Not for: ③
Windings and insulation												
Temperature class 155 (F), utilized acc. to 155 (F), with service factor (SF)	**N01**	–	–	–	–	48.30	48.30	64.30	64.30	82.–	82.–	Not for: ③
Temperature class 155 (F), utilized acc. to 155 (F), with increased power	**N02**	–	–	–	–	48.30	48.30	64.30	64.30	82.–	82.–	Not for: ③
Temperature class 155 (F), utilized acc. to 155 (F), with increased coolant temperature	**N03**	42.–	42.–	41.50	41.50	48.30	48.30	64.30	64.30	82.–	82.–	Not for: ③
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 %	**N05**	42.–	42.–	41.50	41.50	48.30	48.30	64.30	64.30	82.–	82.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 %	**N06**	42.–	42.–	41.50	41.50	48.30	48.30	64.30	64.30	82.–	82.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 %	**N07**	63.–	65.70	74.40	87.50	108.–	132.–	167.–	208.–	268.–	326.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 %	**N08**	63.–	65.70	74.40	87.50	108.–	132.–	167.–	208.–	268.–	326.–	
Temperature class 180 (H) [31)]	**N10**	158.–	158.–	158.–	158.–	–	–	–	–	–	–	Not for: ①, ③, ⑧, ⑨, ⑪, ⑬
Temperature class 180 (H) at rated power and max. CT 60 °C [6) 31)]	**N11**	220.–	220.–	220.–	220.–	257.–	305.–	405.–	494.–	702.–	982.–	Not for: ①, ③
Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N30**	137.–	137.–	137.–	137.–	137.–	137.–	137.–	210.–	305.–	420.–	
Increased air humidity/temperature with 60 to 100 g water per m^3 of air	**N31**	200.–	200.–	220.–	220.–	220.–	252.–	284.–	399.–	515.–	662.–	

For legends and footnotes, see Page 1/75.

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SIMOTICS GP 1LE1/1PC1 Standard Motors
Article No. supplements and special versions

Options · Aluminum series 1LE10, 1PC1

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	Motor version		
						1LE1004						IEC	IE4	①
				1LE1003									IE3	②
						1LE1083								③
		1LE1001											IE2	④
						1PC1001								⑤
		1LE1002											IE1	⑥
						1PC1002								⑦
				1LE1043								APAC Line	IE3	⑧
				1LE1041									IE2	⑨
				1LE1023								Eagle Line	NPE (NEMA)	⑩
					1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . . . . -Z						1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . . . . -Z	Order code					1LE1012								⑬

		63	71	80	90	100	112	132	160	180	200	
Windings and insulation (continued)												
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude	**Y50** • and spec. power, CT .. °C or IA …. m above sea level	94.60	103.–	111.–	132.–	162.–	196.–	252.–	310.–	401.–	493.–	
Temperature class 155 (F), utilized acc. to 155 (F), other requirements	**Y52** • and spec. power CT .. °C or IA …. m above sea level	41.50	41.50	41.50	41.50	48.30	48.30	64.30	64.30	81.90	81.90	Not for: ③
Temperature class 180 (H), utilized acc. to 155 (F), other requirements	**Y75** • and spec. power CT .. °C or IA …. m above sea level	–	–	–	–	O. R.	O. R.	O. R.	O. R.	–	–	Not for: ①, ③
Colors and paint finish												
Standard finish C2 in RAL 7030 stone gray		□	□	□	□	□	□	□	□	□	□	
Unpainted (only cast-iron parts primed)	**S00**	O	O	O	O	O	O	O	O	O	O	
Unpainted, only primed	**S01**	20.90	20.90	20.90	27.80	27.80	27.80	44.40	44.40	83.30	83.30	
Special finish C3	**S02**	36.80	36.80	36.80	36.80	63.–	63.–	84.–	84.–	115.–	126.–	
Special finish sea air resistant C4	**S03**	504.–	504.–	504.–	504.–	536.–	536.–	589.–	589.–	630.–	672.–	
Internal coating	**S05**	89.40	89.40	89.40	89.40	89.40	89.40	89.40	89.40	89.40	89.40	
Top coat polyurethane [34]	**S06**	31.50	31.50	31.50	51.50	73.50	101.–	150.–	210.–	252.–	309.–	
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53** • and finish RAL….	26.30	26.30	26.30	26.30	42.–	42.–	57.80	57.80	84.–	115.–	
Finish in special RAL colors: RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56** • and finish RAL….	620.–	620.–	620.–	620.–	662.–	662.–	694.–	694.–	704.–	714.–	
Modular technology – Basic versions [7]												
Mounting of holding brake (standard assignment) [8] [28]	**F01**	315.–	389.–	468.–	562.–	657.–	799.–	1030.–	2040.–	4510.–	6300.–	Not for: ⑤, ⑦
Mounting of brake for higher switching frequency (operating brake)	**F02**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	–	–	
Mounting of separately driven fan [29]	**F70**	840.–	840.–	840.–	840.–	840.–	987.–	1070.–	1240.–	1370.–	2050.–	Not for: ⑤, ⑦
Mounting of rotary pulse encoder Kübler Sendix 5020 HTL, 1024 I	**G11**	658.–	703.–	748.–	793.–	838.–	895.–	941.–	986.–	1030.–	1080.–	
Mounting of rotary pulse encoder Kübler Sendix 5020 TTL, 1024 I	**G12**	922.–	952.–	1030.–	1100.–	1180.–	1250.–	1330.–	1410.–	1480.–	1550.–	

For legends and footnotes, see Page 1/75.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	Motor version		
						1LE1004						IEC	IE4	①
				1LE1003									IE3	②
						1LE1083								③
		1LE1001											IE2	④
						1PC1001								⑤
		1LE1002											IE1	⑥
						1PC1002								⑦
				1LE1043								APAC Line	IE3	⑧
				1LE1041									IE2	⑨
				1LE1023								Eagle Line	NPE (NEMA)	⑩
					1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . . . . -Z						1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . . . . -Z	Order code					1LE1012								⑬
Modular technology – Additional versions														
Brake supply voltage 24 V DC	**F10**	35.20	35.20	35.20	35.20	52.90	52.90	52.90	52.90	70.60	70.60	Not for:		⑤, ⑦
Brake supply voltage 230 V AC, 50/60 Hz	**F11**	35.20	35.20	35.20	35.20	O	O	O	O	O	O	Not for:		⑤, ⑦
Brake supply voltage 400 V AC, 50/60 Hz	**F12**	35.20	35.20	35.20	35.20	52.90	52.90	52.90	52.90	70.60	70.60	Not for:		⑤, ⑦
Brake supply voltage 180 V DC	**F17**	35.20	35.20	35.20	35.20	52.90	52.90	52.90	52.90	70.60	70.60	Not for: Only for:		⑤, ⑦ Motors in combination with order code F01
Brake supply voltage 205 V DC	**F18**	35.20	35.20	35.20	35.20	52.90	52.90	52.90	52.90	70.60	70.60	Not for: Only for:		⑤, ⑦ Motors in combination with order code F01
Mechanical manual brake release with lever (no locking)	**F50**	250.–	250.–	250.–	250.–	264.–	264.–	294.–	426.–	620.–	723.–	Not for:		⑤, ⑦
Special technology [7]														
Mounting of LL 861 900 220 rotary pulse encoder [9]	**G04**	–	–	–	–	3000.–	3000.–	3000.–	3000.–	3000.–	3000.–	Not for:		⑤, ⑦
Mounting of HOG 9 DN 1024 I rotary pulse encoder [9]	**G05**	–	–	–	–	3540.–	3540.–	3540.–	3540.–	4570.–	4570.–	Not for:		⑤, ⑦
Mounting of HOG 10 D 1024 I rotary pulse encoder [9]	**G06**	–	–	–	–	4570.–	4570.–	4570.–	4570.–	4570.–	4570.–	Not for:		⑤, ⑦
Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	**G21**					2540.–	2680.–	2830.–	3050.–	3210.–	3330.–	Only for:		③
Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	**G22**					2940.–	3120.–	3300.–	3520.–	3630.–	3750.–	Only for:		③
Mounting of HOGS100S-B76.626.01024.1, SIL-2 rotary pulse encoder	**G25**					–	–	–	–	14000.–	14000.–	Only for:		③
Mounting of LL FSI 862-184560-1024, SIL-2 rotary pulse encoder	**G27**					–	–	–	–	15500.–	15500.–	Only for:		③
Mechanical design and degrees of protection														
Low-noise version for 2-pole motors with clockwise direction of rotation	**F77**	–	–	–	–	–	–	625.–	887.–	1150.–	1420.–	Not for:		⑤, ⑦
Low-noise version for 2-pole motors with counter-clockwise direction of rotation	**F78**	–	–	–	–	–	–	625.–	887.–	1150.–	1420.–	Not for:		⑤, ⑦
Prepared for mountings, center hole only [10]	**G40**	–	–	70.10	70.10	70.10	70.10	93.–	107.–	□	□	Not for:		⑤, ⑦
Prepared for mountings with D12 shaft [15]	**G41**	143.–	143.–	143.–	152.–	152.–	168.–	189.–	225.–	462.–	462.–	Not for:		⑤, ⑦
Prepared for mountings with D16 shaft [15]	**G42**	–	–	O. R.	O. R.	152.–	168.–	189.–	225.–	462.–	462.–	Not for:		⑤, ⑦
Mechanical protection for encoders	**G43**	O. R.	O. R.	72.30	72.30	80.70	80.70	141.–	141.–	212.–	212.–	Not for:		⑤, ⑦
Protective cover [9] [11]	**H00**	56.70	56.70	56.70	56.70	82.40	82.40	144.–	144.–	192.–	289.–	Not for:		⑤, ⑦
Screwed-on (instead of cast) feet	**H01**	–	–	90.80	90.80	104.–	113.–	123.–	132.–	□	□			
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994 [39]	**H02**	115.–	130.–	148.–	168.–	189.–	209.–	226.–	263.–	315.–	378.–			
Condensation drainage holes [14]	**H03**	63.–	65.20	67.60	75.50	82.70	90.30	97.80	105.–	112.–	119.–			
Rust-resistant screws (externally)	**H07**	56.70	56.70	155.–	155.–	82.70	82.70	97.80	97.80	112.–	128.–			
Enclosure with screw mounting [32]	**H10**	–	–	49.30	49.30	–	–	–	–	52.50	52.50	Only for:		②, ④, ⑧, ⑨ (frame sizes 80, 90), ⑩, ⑪
IP66 degree of protection [13]	**H19**	316.–	316.–	316.–	316.–	316.–	316.–	316.–	471.–	630.–	787.–			
IP65 degree of protection [13]	**H20**	150.–	150.–	150.–	150.–	150.–	150.–	150.–	224.–	302.–	374.–			
IP56 degree of protection [12]	**H22**	166.–	166.–	166.–	166.–	166.–	166.–	166.–	247.–	328.–	413.–			
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar [16]	**H23**	42.–	45.80	48.30	51.70	57.50	62.90	76.80	112.–	145.–	180.–			

For legends and footnotes, see Page 1/75.

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SIMOTICS GP 1LE1/1PC1 Standard Motors
Article No. supplements and special versions

Options · Aluminum series 1LE10, 1PC1

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	Motor version		
						1LE1004						IEC	IE4	①
				1LE1003									IE3	②
						1LE1083								③
		1LE1001											IE2	④
						1PC1001								⑤
		1LE1002											IE1	⑥
						1PC1002								⑦
				1LE1043								APAC Line	IE3	⑧
				1LE1041									IE2	⑨
				1LE1023								Eagle Line	NPE (NEMA)	⑩
					1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . . . . -Z						1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . . . . -Z	Order code					1LE1012								⑬

Coolant temperature and installation altitude												
Coolant temperature –40 to +40 °C [16) 28)]	**D03**	232.–	232.–	257.–	322.–	386.–	489.–	566.–	650.–	721.–	836.–	
Coolant temperature –30 to +40 °C [16) 28)]	**D04**	43.–	43.–	56.70	56.70	70.80	70.80	85.–	85.–	113.–	142.–	
Designs in accordance with standards and specifications												
VIK version	**C02**	–	–	171.–	194.–	218.–	253.–	323.–	409.–	–	–	Only for: ②
CCC China Compulsory Certification [17)]	**D01**	43.–	43.–	43.–	43.–	–	–	–	–	–	–	
Motor without CE marking for export outside EEA (see EU Directive 640/2009)	**D22**	–	O	O	O	O	O	O	O	O	O	Only for: ④, ⑤, ⑥, ⑦, ⑪
Electrical according to NEMA MG1-12 [18)]	**D30**	40.60	40.60	40.60	40.60	40.60	40.60	40.60	40.60	69.40	69.40	Not for: ⑩, ⑪
	–	–	–	◘	◘	◘	◘	◘	◘	◘	◘	Only for: ⑩, ⑪
Design according to UL with "Recognition Mark" [19)]	**D31**	72.–	76.60	81.60	91.–	101.–	119.–	153.–	187.–	300.–	411.–	Not for: ⑩, ⑪
	–	–	–	◘	◘	◘	◘	◘	◘	◘	◘	Only for: ⑩, ⑪
KEMCO Korea Energy Efficiency Label	**D33**	–	–	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	Only for: ⑧, ⑨
		–	–	–	–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	Only for: ③ (2- to 6-pole)
China Energy Efficiency Label [38)]	**D34**	–	–	O	O	O	O	O	O	O	O	Not for: ①, ⑥, ⑫, ⑬
		–	–	–	–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	Only for: ③
Canadian regulations (CSA) [33) 37)]	**D40**	72.–	76.60	81.60	91.–	101.–	119.–	153.–	187.–	253.–	338.–	Not for: ⑥, ⑩, ⑪, ⑫, ⑬
	–	–	–	◘	◘	◘	◘	◘	◘	◘	◘	Only for: ⑩, ⑪
NEMA Premium Efficient, North America version acc. to NEMA MG1, Table 12-11, incl. UL and CSA	**D41**	–	–	–	–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	Only for: ③
TR CU product safety certificate EAC for Eurasian customs union [35)]	**D47**	15.80	21.–	26.30	31.50	42.–	52.50	84.–	137.–	179.–	252.–	
MEPS Australia	**D70**	–	–	619.–	641.–	664.–	693.–	743.–	819.–	878.–	941.–	Only for: ⑧, ⑩; ③ Frame sizes 100 to 200 on request
Train-compatible version IC 411, EN IEC 60349, without EN 45545, with external fan and plastic fan cover	**L90**	–	–	161.–	170.–	182.–	187.–	300.–	357.–	391.–	462.–	Not for: ①, ③
Train-compatible version IC 411, EN IEC 60349, with EN 45545, with external fan and metal fan cover	**L91**	368.–	368.–	368.–	383.–	439.–	486.–	641.–	744.–	814.–	940.–	Not for: ①, ③
Train-compatible version IC 418, EN IEC 60349, acc. to EN 45545, without external fan and without fan cover	**L92**	279.–	279.–	279.–	289.–	301.–	306.–	418.–	476.–	510.–	581.–	Not for: ①, ③
Bearings and lubrication												
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A	**L19**	–	–	–	–	–	–	–	–	383.–	220.–	
Located bearing DE	**L20**	39.80	39.80	39.80	42.20	72.80	86.30	106.–	145.–	306.–	424.–	
Located bearing NDE	**L21**	39.80	39.80	39.80	42.20	44.20	46.50	49.30	◘	◘	◘	
Bearing design for increased cantilever forces [36)]	**L22**	–	–	80.90	89.40	101.–	117.–	133.–	175.–	278.–	322.–	Not for: Frame sizes 80 and 90 in combination with order code F01
Regreasing device [20)]	**L23**	–	–	–	–	317.–	325.–	336.–	363.–	383.–	430.–	
Reinforced bearings at both ends for DE and NDE, bearing size 63	**L25**	–	–	168.–	203.–	203.–	237.–	265.–	353.–	468.–	576.–	Not for: Frame sizes 80 and 90 in combination with order code F01
Bearing insulation NDE	**L51**	–	–	–	–	530.–	550.–	1230.–	1270.–	1320.–	1340.–	
Measuring nipple for SPM shock pulse measurement for bearing inspection [20)]	**Q01**	–	–	–	–	257.–	288.–	317.–	350.–	377.–	408.–	

For legends and footnotes, see Page 1/75.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	Motor version		
						1LE1004						IEC	IE4	①
				1LE1003									IE3	②
						1LE1083								③
		1LE1001											IE2	④
						1PC1001								⑤
		1LE1002											IE1	⑥
						1PC1002								⑦
				1LE1043								APAC Line	IE3	⑧
				1LE1041									IE2	⑨
				1LE1023								Eagle Line	NPE (NEMA)	⑩
					1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . . . . -Z						1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . . . . -Z	Order code					1LE1012								⑬
Balance and vibration quantity														
Vibration quantity level A		□	□	□	□	□	□	□	□	□	□			
Vibration quantity level B	**L00**	232.–	242.–	255.–	270.–	284.–	327.–	419.–	519.–	814.–	819.–			
Half-key balancing (standard)		□	□	□	□	□	□	□	□	□	□			
Balancing without key	**L01**	21.80	21.80	21.80	21.80	28.40	28.40	33.60	33.60	43.70	43.70			
Full-key balancing	**L02**	–	–	96.10	111.–	111.–	111.–	129.–	129.–	162.–	162.–			
Shaft and rotor														
Shaft extension with standard dimensions, without feather keyway	**L04**	–	–	–	–	525.–	553.–	580.–	610.–	708.–	779.–			
Standard cylindrical shaft extension (second shaft extension) NDE in acc. with EN 50347	**L05**	84.90	84.90	97.80	97.80	143.–	143.–	189.–	217.–	328.–	364.–	Not for:		⑤, ⑦
Standard shaft made of stainless steel (e.g. 1.4021)	**L06**	819.–	819.–	838.–	838.–	962.–	962.–	1110.–	1390.–	2470.–	2860.–			
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	**L07**	244.–	244.–	244.–	244.–	268.–	268.–	408.–	408.–	211.–	238.–			
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors	**L08**	120.–	151.–	180.–	211.–	241.–	270.–	302.–	374.–	452.–	527.–			
Non-standard shaft extension, DE [21]	**Y58** • and customer specifications	399.–	439.–	468.–	496.–	525.–	553.–	580.–	610.–	708.–	779.–			
Non-standard shaft extension, NDE [21]	**Y59** • and customer specifications	399.–	439.–	468.–	496.–	525.–	553.–	580.–	610.–	708.–	779.–			
Heating and ventilation														
Sheet metal fan cover	**F74**	–	–	56.70	62.40	67.90	73.70	79.40	85.–	85.–	104.–	Not for:		⑤, ⑦
Fan cover for textile industry [22]	**F75**	105.–	105.–	119.–	196.–	316.–	452.–	572.–	676.–	676.–	944.–	Not for:		⑤, ⑦
Metal external fan [23] [29]	**F76**	150.–	150.–	150.–	150.–	189.–	224.–	261.–	302.–	339.–	374.–	Not for:		⑤, ⑦
Without external fan and without fan cover	**F90**	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	Not for:		⑤, ⑦, ⑫, ⑬
Anti-condensation heating for 230 V (2 terminals)	**Q02**	414.–	414.–	414.–	414.–	430.–	459.–	519.–	576.–	639.–	734.–			
Anti-condensation heating for 115 V (2 terminals)	**Q03**	414.–	414.–	414.–	414.–	430.–	459.–	519.–	576.–	639.–	734.–			
Rating plate and extra rating plates														
Extra rating plate for voltage tolerance [24]	**B07**	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	69.40	69.40	Not for:		⑤, ⑦, ⑫, ⑬, 8-pole motors
Second rating plate, loose [25]	**M10**	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	67.60	67.60			
Rating plate, stainless steel	**M11**	42.20	42.20	42.20	42.20	42.20	42.20	42.20	42.20	51.60	51.60			
Extra rating plate with deviating rating plate data	**Y80** • and customer specifications	73.50	73.50	73.50	73.50	105.–	105.–	105.–	105.–	158.–	158.–			
Extra rating plate with customer specifications	**Y82** • and customer specifications	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	69.40	69.40			
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	69.40	69.40			
Adhesive label, supplied loose (contents: Article No., Serial No.; 2 lines of text)	**Y85** • and customer specifications	–	–	–	–	41.50	41.50	41.50	41.50	67.60	67.60			

For legends and footnotes, see Page 1/75.

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SIMOTICS GP 1LE1/1PC1 Standard Motors
Article No. supplements and special versions

Options · Aluminum series 1LE10, 1PC1

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	Motor version		
						1LE1004						IEC	IE4	①
				1LE1003									IE3	②
						1LE1083								③
		1LE1001											IE2	④
						1PC1001								⑤
		1LE1002											IE1	⑥
						1PC1002								⑦
				1LE1043								APAC Line	IE3	⑧
				1LE1041									IE2	⑨
				1LE1023								Eagle Line	NPE (NEMA)	⑩
					1LE1021								NEE (NEMA)	⑪
1LE10 . . - . . . . . - . . . . -Z						1LE1011						Pole-changing		⑫
1PC10 . . - . . . . . - . . . . -Z	Order code					1LE1012								⑬

Packaging, safety notes, documentation and test certificates												
With a safety and commissioning instruction enclosed in each wire-lattice pallet [27]	**B01**	O	O	O	O	O	O	O	O	O	O	
Acceptance test certificate 3.1 according to EN 10204 [26]	**B02**	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	
Document – Electrical data sheet	**B60**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	
Document – Order dimensional drawing	**B61**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	
Type test with heat run for horizontal motors, with acceptance	**B83**	4180.–	4960.–	5730.–	6520.–	7290.–	8070.–	8840.–	9620.–	10400.–	11200.–	
Documentation package “Basic”	**B90**	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	
Documentation package “Advanced”	**B91**	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	
Documentation package “Projects”	**B92**	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	
Wire-lattice pallet packaging	**B99**	O. R.	O. R.	O	O	O	O	O	O	O	O	
Connected in star for dispatch	**M01**	24.–	24.–	24.–	24.–	28.90	28.90	28.90	28.90	37.90	37.90	
Connected in delta for dispatch	**M02**	24.–	24.–	24.–	24.–	28.90	28.90	28.90	28.90	37.90	37.90	

For legends and footnotes, see Page 1/75.

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◘ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
O. R. Possible on request
– Not possible

1) With IM B5 flange, only possible in combination with the option **H08**.

2) Not possible in combination with order code **R15** "One metal cable gland".

3) With **H08**, feet dimensions C and CA differ from EN 50347! Further information is available in DT Configurator (see Appendix, "Tools and Configuring").

4) In combination 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 Section 1 "Introduction" refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease service lifetime or relubrication interval is halved.

7) A second shaft extension is not possible. Please inquire for mounted brakes.

8) For order codes **F10**, **F11** and **F12**, the brake supply voltage must be specified or ordered.

9) 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) Motors that are prepared for additional mountings (order codes **G40**, **G41**, **G42**) are supplied without a protective cover as standard. 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 quantity level B. 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 XP8012-20.

11) Order code **H00** provides mechanical protection for encoders.

12) Not possible in combination with brake 2LM8 – order code **F01**.

13) Not possible in combination with HOG 9 DN 1024 I rotary pulse encoder (order code **G05**) and/or brake 2LM8 (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) Motors that are prepared for additional mountings (order codes **G40**, **G41**, **G42**) are supplied without a protective cover as standard. 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 quantity level B.

16) In connection with mountings, the respective technical data must be observed, please inquire before ordering.

17) CCC certification is required, see chapter 1 in Catalog D 81.1.

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 data 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 permitted to be 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**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under "Dimensions")
– Dimensions E and EA ≤ 2 × length E (normal) 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 enclosure. 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 VD/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 factory test certificate may differ from the delivery time for the motor and it will be dispatched by email.

27) The Operating Instructions are available in PDF format for all official EU languages at http://support.automation.siemens.com/WW/view/en/40761976.

28) Not possible in combination with order code **N05**, **N06**, **N07**, **N08** and **N11**.

29) Order codes **F70** and **F76** cannot be combined.

30) 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) of frame sizes 80 and 90.

32) Possible with frame sizes 180 and 200 with screw-mounted fan cover.

33) Possible with frame sizes 180 and 200 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_{min} of 0.5 · F_{max} is required for NU bearings (cylindrical roller bearings) in contrast to ball bearings. Cylindrical roller bearings are not suitable for coupling power 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.

38) Not possible in combination with voltage codes (12th or 13th position of the Article No.) 17, 18, 30, 31, 60, 61, 62, 63 and 90 with additional identification 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) Not UL-certified. Not possible in combination with the option **D31**.

41) Only possible in combination with order codes **R70**, **R71**, **R72** and **R73**.

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SIMOTICS SD 1LE1 Standard Motors
Article No. supplements and special versions

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

Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size													Motor version		
		71	80	90	100	112	132	160	180	200	225	250	280	315			
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
					1LE1583												⑤
		1LE1501 Basic Line														IE2	⑥
					1LE1601 Performance Line												⑦
					1LE1502 Basic Line											IE1	⑧
			1LE1543 Basic Line												APAC Line	IE3	⑨
					1LE1643 Performance Line												⑩
									1LE1541 Basic Line							IE2	⑪
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
					1LE1623 Performance Line												⑬
1LE1 . . . -. . . . . -. . . . -Z	Order code				1LE1521 Basic Line											NEE (NEMA)	⑭
Motor protection																	
1 or 3 PTC thermistors – for tripping (2 terminals)	**Q11**	–	–	–	119.–	119.–	180.–	180.–	239.–	239.–	325.–	325.–	406.–	406.–			
2 or 6 PTC thermistors – for alarm and tripping (4 terminals)	**Q12**	–	–	–	205.–	205.–	274.–	274.–	421.–	421.–	548.–	548.–	679.–	679.–			
1 temperature sensor KTY84-130 (2 terminals)	**Q23**	–	–	–	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–			
2 temperature sensors KTY84-130 (4 terminals)	**Q25**	–	–	–	241.–	241.–	359.–	359.–	550.–	550.–	756.–	1020.–	1020.–	1500.–			
3 bimetal sensors (NC contact) for tripping (2 terminals)	**Q31**	–	–	–	134.–	134.–	196.–	196.–	270.–	270.–	365.–	365.–	453.–	453.–			
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals)	**Q32**	–	–	–	241.–	241.–	352.–	352.–	477.–	477.–	647.–	647.–	801.–	801.–			
3 bimetal sensors (NC contact) for tripping (6 terminals)	**Q33**	–	–	–	144.–	144.–	206.–	206.–	281.–	281.–	376.–	376.–	463.–	463.–			
6 bimetal sensors (NC contact) for alarm and tripping (12 terminals)	**Q34**	–	–	–	251.–	251.–	362.–	362.–	488.–	488.–	658.–	658.–	811.–	811.–			
1 Pt1000 resistance thermometer (2 terminals) [40]	**Q35**	–	–	–	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–			
2 Pt1000 resistance thermometers (4 terminals) [40]	**Q36**	–	–	–	241.–	241.–	359.–	359.–	550.–	550.–	756.–	1020.–	1020.–	1500.–			
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**Q60**	–	–	–	1240.–	1240.–	1240.–	1240.–	1510.–	1510.–	1510.–	1670.–	1670.–	1670.–			
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals) [27]	**Q61**	–	–	–	1920.–	1920.–	1920.–	1920.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–			
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**Q62**	–	–	–	1040.–	1040.–	1040.–	1040.–	1340.–	1340.–	1340.–	1340.–	1340.–	1340.–			
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals) [30]	**Q63**	–	–	–	1310.–	1310.–	1310.–	1310.–	2010.–	2010.–	2010.–	2010.–	2010.–	2010.–			
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals) [30]	**Q64**	–	–	–	2020.–	2020.–	2020.–	2020.–	2960.–	2960.–	2960.–	2960.–	2960.–	2960.–			
2 Pt100 screw-in thermometers in basic circuit for bearings (2 terminals) [2]	**Q72**	–	–	–	–	–	–	–	4300.–	4300.–	4300.–	4300.–	4300.–	4300.–			
2 Pt100 screw-in thermometers in 3-wire circuit for bearings (6 terminals)	**Q78**	–	–	–	–	–	–	–	4730.–	4730.–	4730.–	4730.–	4730.–	4730.–			
2 double Pt100 screw-in thermometers in 3-wire circuit for bearings (12 terminals)	**Q79**	–	–	–	–	–	–	–	5670.–	5670.–	5670.–	5670.–	5670.–	5670.–			
Motor connection and terminal box																	
External grounding	**H04**	24.–	24.–	24.–	28.90	28.90	28.90	28.90	□	□	□	□	□	□			
Terminal box on NDE [27]	**H08**	126.–	126.–	145.–	180.–	220.–	286.–	388.–	967.–	999.–	1050.–	1100.–	1150.–	1200.–			
Second external grounding	**H70**	–	–	–	15.80	15.80	15.80	15.80	15.80	15.80	15.80	15.80	15.80	15.80			
Rotation of the terminal box through 90°, entry from [41]	**R10**	O	O	O	O	O	O	O	45.10	58.40	72.10	86.60	103.–	124.–			
Rotation of the terminal box through 90°, entry from NDE	**R11**	O	O	O	O	O	O	O	45.100	58.400	72.10	86.60	103.–	124.–			

For legends and footnotes, see Page 1/86.

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

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size													Motor version		
		71	80	90	100	112	132	160	180	200	225	250	280	315			
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
					1LE1583												⑤
		1LE1501 Basic Line														IE2	⑥
					1LE1601 Performance Line												⑦
					1LE1502 Basic Line											IE1	⑧
			1LE1543 Basic Line												APAC Line	IE3	⑨
					1LE1643 Performance Line												⑩
									1LE1541 Basic Line							IE2	⑪
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
					1LE1623 Performance Line												⑬
1LE1 . . . - . . . . . - . . . . -Z	Order code				1LE1521 Basic Line											NEE (NEMA)	⑭
Motor connection and terminal box (continued)																	
Rotation of the terminal box through 180°	**R12**	O	O	O	O	O	O	O	45.100	58.400	72.10	86.60	103.–	124.–			
One EMC cable gland	**R14**	68.30	68.30	68.30	125.–	125.–	125.–	174.–	174.–	299.–	299.–	529.–	529.–	529.–			
One metal cable gland	**R15**	59.90	59.90	59.90	112.–	112.–	112.–	143.–	143.–	165.–	165.–	236.–	236.–	236.–			
EMC cable gland, maximum configuration	**R16**	137.–	137.–	137.–	250.–	250.–	250.–	362.–	362.–	610.–	610.–	1090.–	1090.–	1090.–			
Stud terminal for cable connection, accessories pack (3 items)	**R17**	–	–	–	–	–	–	–	–	–	–	150.–	150.–	189.–			
One metal cable gland, maximum configuration	**R18**	86.20	86.20	86.20	159.–	159.–	159.–	209.–	209.–	241.–	241.–	417.–	417.–	417.–			
Saddle terminal for connection without cable lug, accessories pack	**R19**	–	–	–	–	–	–	–	–	–	–	735.–	735.–	735.–			
3 cables protruding, 0.5 m long	**R20**	57.30	57.30	57.30	68.70	82.40	101.–	118.–	143.–	–	–	–	–	–			
3 cables protruding, 1.5 m long	**R21**	69.40	69.40	69.40	82.90	99.70	121.–	144.–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.			
6 cables protruding, 0.5 m long	**R22**	88.80	88.80	88.80	106.–	128.–	158.–	186.–	222.–	–	–	–	–	–			
6 cables protruding, 1.5 m long	**R23**	113.–	113.–	113.–	136.–	164.–	199.–	237.–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.			
6 cables protruding, 3 m long	**R24**	181.–	181.–	181.–	218.–	257.–	322.–	386.–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.			
Reduction piece for M cable gland in accordance with British Standard, mounted on both cable entries	**R30**	–	–	–	194.–	218.–	218.–	244.–	–	–	–	–	–	–			
Larger terminal box	**R50**	49.50	103.–	103.–	214.–	214.–	274.–	313.–	475.–	523.–	1660.–	1900.–	1900.–	2230.–			
Terminal box without cable entry opening	**R51**	–	–	–	O	O	O	O	O	O	O	O	O	O			
Drilled removable entry plate	**R52**	–	–	–	–	–	–	–	273.–	294.–	294.–	489.–	489.–	510.–			
Undrilled removable entry plate	**R53**	–	–	–	–	–	–	–	273.–	294.–	294.–	489.–	489.–	510.–			
Cast-iron auxiliary terminal box (small) [30]	**R62**	–	–	–	284.–	284.–	284.–	284.–	284.–	284.–	284.–	284.–	284.–	284.–			
		–	–	–	270.–	270.–	270.–	–	–	–	–	–	–	–	Only for:	Motors with order code R50	
Silicon-free version	**R74**	–	–	–	□	□	□	□	□	□	□	357.–	357.–	357.–			
Non-standard threaded through hole (NPT or G thread)	**Y61** • and customer specifications	–	–	–	155.–	155.–	155.–	155.–	203.–	270.–	338.–	402.–	541.–	670.–			
Windings and insulation																	
Temperature class 155 (F), utilized acc. to 155 (F), with service factor	**N01**	42.–	42.–	42.–	48.30	48.30	64.30	64.30	81.90	81.90	93.10	93.10	109.–	109.–	Not for:	⑤	
Temperature class 155 (F), utilized acc. to 155 (F), with increased power	**N02**	42.–	42.–	42.–	48.30	48.30	64.30	64.30	81.90	81.90	93.10	93.10	109.–	109.–	Not for:	⑤	
Temperature class 155 (F), utilized acc. to 155 (F), with increased coolant temperature	**N03**	42.–	42.–	42.–	48.30	48.30	64.30	64.30	81.90	81.90	93.10	93.10	109.–	109.–	Not for:	⑤	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 %	**N05**	42.–	42.–	42.–	48.30	48.30	64.30	64.30	81.90	81.90	93.10	93.10	109.–	109.–			

For legends and footnotes, see Page 1/86.

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SIMOTICS SD 1LE1 Standard Motors
Article No. supplements and special versions

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

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version		
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
					1LE1583												⑤
		1LE1501 Basic Line														IE2	⑥
					1LE1601 Performance Line												⑦
					1LE1502 Basic Line											IE1	⑧
			1LE1543 Basic Line												APAC Line	IE3	⑨
					1LE1643 Performance Line												⑩
									1LE1541 Basic Line							IE2	⑪
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
					1LE1623 Performance Line												⑬
1LE1 . . . - . . . . . - . . . . -Z	Order code				1LE1521 Basic Line											NEE (NEMA)	⑭
Windings and insulation (continued)																	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 %	**N06**		42.–	42.–	42.–	48.30	48.30	64.30	64.30	81.90	81.90	93.10	93.10	109.–	109.–		
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 %	**N07**		65.70	74.40	87.50	108.–	132.–	167.–	208.–	268.–	326.–	483.–	609.–	779.–	1010.–		
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 %	**N08**		65.70	74.40	87.50	108.–	132.–	167.–	208.–	268.–	326.–	483.–	609.–	779.–	1010.–		
Temperature class 180 (H)	**N10**		158.–	158.–	158.–	184.–	217.–	289.–	353.–	494.–	702.–	967.–	1260.–	1520.–	1790.–	Not for: ①, ②, ⑤, ⑨, ⑩, ⑪, ⑫, ⑬, ⑭	
Temperature class 180 (H) at rated power and max. CT 60 °C [4) 5)]	**N11**		220.–	220.–	220.–	257.–	305.–	405.–	494.–	702.–	982.–	1200.–	1470.–	1790.–	2200.–	Not for: ①, ②, ⑤	
Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N30**		137.–	137.–	137.–	137.–	137.–	137.–	210.–	305.–	420.–	652.–	872.–	1100.–	1350.–		
Increased air humidity/temperature with 60 to 100 g water per m^3 of air	**N31**		200.–	220.–	220.–	220.–	252.–	284.–	399.–	515.–	662.–	935.–	1200.–	1520.–	1820.–		
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude	**Y50** • and spec. power, CT .. °C or IA .... m above sea level		103.–	111.–	132.–	162.–	196.–	252.–	310.–	401.–	493.–	725.–	912.–	1160.–	1510.–		
Temperature class 155 (F), utilized according to 155 (F), other requirements [5)]	**Y52** • and spec. power, CT .. °C or IA .... m above sea level		41.50	41.50	41.50	48.30	48.30	64.30	64.30	81.90	81.90	93.50	93.50	109.–	109.–	Not for: ⑤	
Temperature class 180 (H), utilized according to 155 (F)	**Y75** • and spec. power, CT .. °C or IA .... m above sea level		–	–	–	257.–	305.–	405.–	494.–	909.–	982.–	1430.–	1640.–	2280.–	2460.–	Not for: ①, ②, ⑤	
Colors and paint finish																	
Standard finish C2 in RAL 7030 stone gray			□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: ①, ③, ⑤, ⑥, ⑧, ⑨, ⑪, ⑫, ⑭	
Unpainted (only cast-iron parts primed)	**S00**		O	O	O	O	O	O	O	O	O	O	O	O	O		
Unpainted, only primed	**S01**		20.90	20.90	27.80	27.80	27.80	44.40	44.40	83.30	83.30	83.30	83.30	83.30	83.30		
Special finish C3	**S02**		36.80	36.80	36.80	63.–	63.–	84.–	84.–	115.–	126.–	189.–	232.–	273.–	305.–	Not for: ②, ④, ⑦, ⑩, ⑬	
	–		□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: ②, ④, ⑦, ⑩, ⑬	
Special finish sea air resistant C4	**S03**		504.–	504.–	504.–	536.–	536.–	589.–	589.–	630.–	672.–	714.–	757.–	799.–	830.–		

For legends and footnotes, see Page 1/86.

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

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version		
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
					1LE1583												⑤
		1LE1501 Basic Line														IE2	⑥
					1LE1601 Performance Line												⑦
					1LE1502 Basic Line											IE1	⑧
			1LE1543 Basic Line												APAC Line	IE3	⑨
					1LE1643 Performance Line												⑩
									1LE1541 Basic Line							IE2	⑪
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
					1LE1623 Performance Line												⑬
1LE1 . . . - . . . . . - . . . . -Z	Order code				1LE1521 Basic Line											NEE (NEMA)	⑭

Colors and paint finish (continued)																	
Special paint for use offshore C5	**S04**	2050.–	2050.–	2050.–	2150.–	2260.–	2390.–	2510.–	2640.–	2770.–	3200.–	4170.–	5220.–	8070.–			
Internal coating	**S05**	–	–	–	89.40	89.40	89.40	89.40	89.40	89.40	89.40	110.–0	126.–0	137.–0			
Top coat polyurethane [33]	**S06**	31.50	31.50	51.50	73.50	101.–	150.–	210.–	252.–	309.–	397.–	495.–	625.–	795.–			
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53 •** and finish RAL....	26.30	26.30	26.30	42.–	42.–	57.80	57.80	84.–	115.–	126.–	158.–	189.–	263.–	Only for:	①, ③, ⑤, ⑥, ⑧, ⑨, ⑪, ⑫, ⑭	
Finish in special RAL colors: RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56 •** and finish RAL....	620.–	620.–	620.–	662.–	662.–	694.–	694.–	704.–	714.–	725.–	735.–	746.–	757.–			
Modular technology – Basic versions [6]																	
Mounting of holding brake (standard assignment) [7] [31] [32]	**F01**	–	–	–	657.–	799.–	1030.–	2040.–	4510.–	6300.–	8010.–	25600.–	31600.–	37900.–	Not for:	Motors in combination with order code F90	
Mounting of PRECIMA brake	**F04**	–	–	–	–	–	–	–	–	–	14600.–	17600.–	24800.–	28900.–			
Mounting of separately driven fan [28] [34]	**F70**	840.–	840.–	840.–	840.–	987.–	1070.–	1240.–	1370.–	2050.–	2550.–	3180.–	3790.–	4270.–	Not for:	Motors in combination with order code F90	
Mounting of rotary pulse encoder Kübler Sendix 5020 HTL, 1024 I	**G11**	703.–	748.–	793.–	838.–	895.–	941.–	986.–	1030.–	1080.–	1140.–	1190.–	1230.–	1280.–			
Mounting of rotary pulse encoder Kübler Sendix 5020 TTL, 1024 I	**G12**	951.–	1030.–	1100.–	1180.–	1250.–	1330.–	1410.–	1480.–	1550.–	1640.–	1710.–	1790.–	1860.–			
Modular technology – Additional versions																	
Brake supply voltage 24 V DC	**F10**	–	–	–	52.90	52.90	52.90	52.90	70.60	70.60	70.60	70.60	70.60	70.60	Not for:	Motors in combination with order code F90	
Brake supply voltage 230 V AC, 50/60 Hz	**F11**	–	–	–	O	O	O	O	O	O	O	O	O	O	Not for:	Motors in combination with order code F90	
Brake supply voltage 400 V AC, 50/60 Hz [32]	**F12**	–	–	–	52.90	52.90	52.90	52.90	70.60	70.60	70.60	70.60	70.60	70.60	Not for:	Motors in combination with order code F90	
Brake supply voltage 180 V DC	**F17**	–	–	–	52.90	52.90	52.90	52.90	70.60	70.60	70.60	–	–	–	Only for:	Motors in combination with order code F01	
Brake supply voltage 205 V DC	**F18**	–	–	–	52.90	52.90	52.90	52.90	70.60	70.60	70.60	–	–	–	Only for:	Motors in combination with order code F01	

For legends and footnotes, see Page 1/86.

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SIMOTICS SD 1LE1 Standard Motors
Article No. supplements and special versions

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

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version		
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
					1LE1583												⑤
		1LE1501 Basic Line														IE2	⑥
					1LE1601 Performance Line												⑦
					1LE1502 Basic Line											IE1	⑧
			1LE1543 Basic Line												APAC Line	IE3	⑨
					1LE1643 Performance Line												⑩
									1LE1541 Basic Line							IE2	⑪
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
					1LE1623 Performance Line												⑬
1LE1 . . . - . . . . . - . . . . -Z	Order code				1LE1521 Basic Line											NEE (NEMA)	⑭

Modular technology – Additional versions (continued)																
Reverse running stop, reverse movement left locked, rotating direction right	**F40**	–	–	–	–	–	5470.–	5780.–	6080.–	6080.–	6300.–	6940.–	8040.–	9560.–	Not for:	Motors in combination with order code Q79
Reverse running stop, reverse movement right locked, rotating direction left	**F41**	–	–	–	–	–	5470.–	5780.–	6080.–	6080.–	6300.–	6940.–	8040.–	9560.–	Not for:	Motors in combination with order code Q79
Mechanical manual brake release with lever (no locking)	**F50**	–	–	–	264.–	264.–	294.–	426.–	620.–	723.–	868.–	987.–	1090.–	1390.–	Not for:	Motors in combination with order code F90
Special technology [6]																
Mounting of LL 861 900 220 rotary pulse encoder [10]	**G04**	–	–	–	3000.–	3000.–	3000.–	3000.–	3000.–	3000.–	4180.–	4180.–	4180.–	4180.–	Not for:	Motors in combination with order code F90
Mounting of HOG 9 DN 1024 I rotary pulse encoder [10]	**G05**	–	–	–	3540.–	3540.–	3540.–	3540.–	4570.–	4570.–	4950.–	4950.–	4950.–	4950.–	Not for:	Motors in combination with order code F90
Mounting of HOG 10 D 1024 I rotary pulse encoder [10]	**G06**	–	–	–	4570.–	4570.–	4570.–	4570.–	4570.–	4570.–	6000.–	6000.–	6000.–	6000.–	Not for:	Motors in combination with order code F90
Mounting of POG 10 D rotary pulse encoder (only in combination with separately driven fan or brake) [11]	**G07**	–	–	–	–	–	–	–	6380.–	6410.–	6440.–	6490.–	6530.–	6590.–	Not for:	Motors in combination with order code F90
Mounting of POG 9 rotary pulse encoder (only in combination with separately driven fan or brake) [11]	**G08**	–	–	–	–	–	–	–	14700.–	14900.–	18000.–	18000.–	18000.–	18000.–	Not for:	Motors in combination with order code F90
Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal box moisture protection	**G15**	–	–	–	5580.–	5630.–	5660.–	5690.–	5730.–	5760.–	5800.–	5840.–	5900.–	5940.–	Not for:	Motors in combination with order code F90
Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal box dust protection	**G16**	–	–	–	5580.–	5630.–	5660.–	5690.–	5730.–	5760.–	5800.–	5840.–	5900.–	5940.–	Not for:	Motors in combination with order code F90
Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	**G21**	2230.–	2230.–	2230.–	2540.–	2680.–	2830.–	3050.–	3210.–	3330.–	3430.–	3430.–	3430.–	3430.–	Only for:	⑤
Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	**G22**	2560.–	2560.–	2560.–	2940.–	3120.–	3300.–	3520.–	3630.–	3750.–	3880.–	3880.–	3880.–	3880.–	Only for:	⑤
Mounting of HOGS100S-B76.626.01024.1, SIL-2 rotary pulse encoder	**G25**	–	–	–	–	–	–	–	14000.–	14000.–	17400.–	17400.–	17400.–	17400.–	Only for:	⑤
Mounting of LL FSI 862-184560-1024, SIL-2 rotary pulse encoder	**G27**	–	–	–	–	–	–	–	15500.–	15500.–	20200.–	20200.–	20200.–	20200.–	Only for:	⑤

For legends and footnotes, see Page 1/86.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version		
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
					1LE1583												⑤
		1LE1501 Basic Line														IE2	⑥
					1LE1601 Performance Line												⑦
					1LE1502 Basic Line											IE1	⑧
			1LE1543 Basic Line												APAC Line	IE3	⑨
					1LE1643 Performance Line												⑩
									1LE1541 Basic Line							IE2	⑪
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
					1LE1623 Performance Line												⑬
1LE1 . . . - . . . . . - . . . . -Z	Order code				1LE1521 Basic Line											NEE (NEMA)	⑭
Special technology [6] (continued)																	
Mounting a special type of rotary pulse encoder	**Y70** • and customer specifications	–	–	–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.			
Mounting of HOG 10 DN 1024 I + FSL rotary pulse encoder, (integrated centrifugal switch, speed .... rpm), terminal box moisture protection	**Y74** • and spec. speed .... rpm	–	–	–	–	–	–	–	8810.–	8830.–	8870.–	8900.–	8970.–	9020.–			
Mounting of HOG 10 DN 1024 II + FSL rotary pulse encoder, (integrated centrifugal switch, speed .... rpm), terminal box dust protection	**Y76** • and spec. speed .... rpm	–	–	–	–	–	–	–	8810.–	8830.–	8870.–	8900.–	8970.–	9020.–			
Mounting of HOG 10 DN 1024 I + ESL 93 rotary pulse encoder, (integrated electronic speed switch, speed .... rpm), terminal box dust protection	**Y79** • and spec. speed (max. 3) .... rpm	–	–	–	–	–	–	–	15000.–	15100.–	15300.–	15500.–	15600.–	15800.–			
Mechanical design and degrees of protection																	
Low-noise version for 2-pole motors with clockwise direction of rotation	**F77**	–	–	–	–	–	625.–	887.–	1150.–	1420.–	1670.–	1940.–	2200.–	2470.–	Not for:		Motors in combination with order code F90
Low-noise version for 2-pole motors with counter-clockwise direction of rotation	**F78**	–	–	–	–	–	625.–	887.–	1150.–	1420.–	1670.–	1940.–	2200.–	2470.–	Not for:		Motors in combination with order code F90
Prepared for mountings, center hole only	**G40**	–	70.10	70.10	70.10	70.10	93.–	107.–	□	□	□	□	□	□	Not for:		Motors in combination with order code F90
Prepared for mountings with D12 shaft	**G41**	143.–	143.–	152.–	152.–	168.–	189.–	225.–	462.–	462.–	589.–	924.–	924.–	924.–	Not for:		Motors in combination with order code F90
Prepared for mountings with D16 shaft	**G42**	–	143.–	143.–	152.–	168.–	189.–	225.–	462.–	462.–	589.–	924.–	924.–	924.–	Not for:		Motors in combination with order code F90
Mechanical protection for encoders	**G43**	72.30	72.30	72.30	80.70	80.70	141.–	141.–	212.–	212.–	212.–	212.–	212.–	212.–	Not for:		Motors in combination with order code F90
Protective cover [8) 10) 12)]	**H00**	56.70	56.70	56.70	82.40	82.40	144.–	144.–	192.–	289.–	383.–	478.–	573.–	766.–	Not for:		Motors in combination with order code F90
Screwed-on (instead of cast) feet	**H01**	–	–	–	104.–	113.–	123.–	132.–	371.–	437.–	517.–	768.–	863.–	993.–			
Vibration-proof version; vibration resistance to Class 3M4 acc. to IEC 60721-3-3:1994 [39)]	**H02**	130.–	148.–	168.–	189.–	209.–	226.–	263.–	315.–	378.–	442.–	525.–	609.–	694.–			
Condensation drainage holes [38)]	**H03**	65.20	67.60	75.50	□	□	□	□	□	□	□	□	□	□			

For legends and footnotes, see Page 1/86.

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SIMOTICS SD 1LE1 Standard Motors
Article No. supplements and special versions

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

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version		
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
					1LE1583												⑤
		1LE1501 Basic Line														IE2	⑥
					1LE1601 Performance Line												⑦
					1LE1502 Basic Line											IE1	⑧
			1LE1543 Basic Line												APAC Line	IE3	⑨
					1LE1643 Performance Line												⑩
									1LE1541 Basic Line							IE2	⑪
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
					1LE1623 Performance Line												⑬
1LE1 . . . - . . . . . - . . . . -Z	Order code				1LE1521 Basic Line											NEE (NEMA)	⑭
Mechanical design and degrees of protection (continued)																	
Rust-resistant screws (externally)	**H07**	56.70	68.30	68.30	82.70	82.70	97.80	97.80	112.–	128.–	170.–	203.–	211.–	281.–			
IP66 degree of protection	**H19**	316.–	316.–	316.–	316.–	316.–	316.–	471.–	630.–	787.–	949.–	1106.–	1264.–	1419.–			
IP65 degree of protection [14]	**H20**	150.–	150.–	150.–	150.–	150.–	150.–	224.–	302.–	374.–	452.–	527.–	601.–	676.–			
IP54 degree of protection	**H21**	–	–	–	–	–	–	–	840.–	840.–	840.–	840.–	840.–	840.–			
IP56 degree of protection [15]	**H22**	166.–	166.–	166.–	166.–	166.–	166.–	247.–	328.–	413.–	497.–	579.–	663.–	743.–			
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar [13] [29]	**H23**	45.80	48.30	51.70	57.50	62.90	76.80	112.–	145.–	180.–	239.–	317.–	398.–	478.–			
Grounding brush for converter operation	**L52**	–	–	–	–	–	–	–	–	–	–	–	2630.–	2630.–			
Coolant temperature and installation altitude																	
Coolant temperature –50 to +40 °C (IP54 degree of protection)	**D02**	–	–	–	735.–	788.–	946.–	1100.–	2590.–	2770.–	4000.–	4460.–	5400.–	6400.–			
Coolant temperature –40 to +40 °C [16]	**D03**	232.–	257.–	322.–	386.–	489.–	566.–	650.–	721.–	836.–	1070.–	1330.–	1890.–	2440.–			
Coolant temperature –30 to +40 °C [17]	**D04**	43.–	56.70	56.70	70.80	70.80	85.–	85.–	113.–	142.–	567.–	1330.–	1890.–	2440.–			
Designs in accordance with standards and specifications																	
VIK version	**C02**	–	–	–	218.–	253.–	323.–	409.–	584.–	733.–	883.–	1130.–	1530.–	2040.–	Only for: ③, ④ Not for: ⑤		
China Compulsory Certification	**D01**	43.–	43.–	43.–	–	–	–	–	–	–	–	–	–	–	Only for: Voltage code 21st or 22nd Not for: ⑤		
Motor without CE marking for export outside EEA (see EU Directive 640/2009)	**D22**	O	O	O	O	O	O	O	O	O	O	O	O	O	Not for: ①, ②		
Electrical according to NEMA MG1-12 [18]	**D30**	–	–	–	40.60	40.60	40.60	40.60	69.40	69.40	69.40	86.60	86.60	104.–	Not for: ⑫, ⑬, ⑭		
	–	□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: ⑫, ⑬, ⑭		
Design according to UL with "Recognition Mark" [18]	**D31**	–	81.60	91.–	101.–	119.–	153.–	187.–	300.–	411.–	517.–	610.–	756.–	986.–	Not for: ⑫, ⑬, ⑭		
	–	□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: ⑫, ⑬, ⑭		
KEMCO Korea Energy Efficiency Label	**D33**	–	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	Only for: ⑨, ⑩		
		–	–	–	O. R.	O. R.	O. R.	O. R.	42.70	42.70	42.70	O. R.	O. R.	O. R.	Only for: ⑤		
China Energy Efficiency Label	**D34**	O	O	O	O	O	O	O	O	O	O	O	O	O	Not for: ①, ②, ⑧ and motors with increased power		
		–	–	–	O	O	O	O	O	O	–	–	–	–	Only for: ⑤		
Canadian regulations (CSA) [17]	**D40**	76.60	81.60	91.–	101.–	119.–	153.–	187.–	253.–	338.–	422.–	507.–	675.–	837.–	Not for: ⑫, ⑬, ⑭		
	–	□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: ⑫, ⑬, ⑭		
NEMA Premium Efficient, North America version acc. to NEMA MG1, Table 12-11, incl. UL and CSA	**D41**	–	–	–	245.–	275.–	357.–	561.–	714.–	867.–	1120.–	1430.–	1940.–	2650.–	Only for: ⑤		
TR CU product safety certificate EAC for Eurasian customs union [35]	**D47**	21.–	26.30	31.50	42.–	52.50	84.–	137.–	179.–	252.–	325.–	430.–	630.–	735.–			
MEPS Australia	**D70**	–	–	–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	Only for: ⑤		

For legends and footnotes, see Page 1/86.

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

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size													Motor version		
		71	80	90	100	112	132	160	180	200	225	250	280	315			
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
					1LE1583												⑤
		1LE1501 Basic Line														IE2	⑥
					1LE1601 Performance Line												⑦
					1LE1502 Basic Line											IE1	⑧
			1LE1543 Basic Line												APAC Line	IE3	⑨
					1LE1643 Performance Line												⑩
									1LE1541 Basic Line							IE2	⑪
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
					1LE1623 Performance Line												⑬
1LE1 . . . - . . . . . - . . . . -Z	Order code				1LE1521 Basic Line											NEE (NEMA)	⑭
Bearings and lubrication																	
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A	**L19**	–	–	–	–	–	–	–	383.–	430.–	478.–	573.–	O	O	Only for: ①, ③, ⑤, ⑥, ⑧, ⑨, ⑪, ⑫, ⑭		
		–	–	–	–	–	–	–	O	O	O	O	O	O	Only for: ②, ④, ⑦, ⑩, ⑬		
Located bearing DE	**L20**	39.80	39.80	42.20	72.80	86.30	106.–	145.–	306.–	424.–	597.–	768.–	993.–	1070.–			
Located bearing NDE	**L21**	39.80	39.80	42.20	44.20	46.50	49.30	□	□	□	□	□	□	□			
Bearing design for increased cantilever forces [36]	**L22**	73.50	80.90	89.40	101.–	117.–	133.–	175.–	278.–	322.–	363.–	420.–	470.–	525.–	Not for: ②, ④, ⑦, ⑩, ⑬		
		73.50	80.90	89.40	□	□	□	□	□	322.–	363.–	420.–	470.–	525.–	Only for: ②, ④, ⑦, ⑩, ⑬		
Regreasing device [1]	**L23**	–	–	–	317.–	325.–	336.–	363.–	383.–	430.–	478.–	573.–	□	□	Not for: ②, ④, ⑦, ⑩, ⑬		
		–	–	–	317.–	325.–	336.–	□	□	□	□	□	□	□	Only for: ②, ④, ⑦, ⑩, ⑬		
Reinforced bearings at both ends for DE and NDE, bearing size 63 [19]	**L25**	137.–	168.–	203.–	203.–	237.–	265.–	353.–	468.–	576.–	819.–	1130.–	□	□	Not for: ②, ④, ⑦, ⑩, ⑬		
	–	□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: ②, ④, ⑦, ⑩, ⑬		
Reinforced bearings at both DE and NDE, DE bearing for increased cantilever forces	**L28**	–	–	–	–	–	–	–	747.–	900.–	1170.–	1550.–	–	–			
Bearing insulation DE	**L50**	–	–	–	–	–	–	–	–	–	1760.–	1890.–	1960.–	2050.–			
Bearing insulation NDE	**L51**	–	–	–	541.–	561.–	1250.–	1300.–	1350.–	1370.–	1760.–	1890.–	1960.–	2050.–			
Measuring nipple for SPM shock pulse measurement for bearing inspection [1]	**Q01**	–	–	–	257.–	288.–	317.–	350.–	377.–	408.–	439.–	468.–	498.–	528.–			
Balance and vibration quantity																	
Vibration quantity level A		□	□	□	□	□	□	□	□	□	□	□	□	□			
Vibration quantity level B [20]	**L00**	242.–	255.–	270.–	284.–	327.–	419.–	519.–	814.–	819.–	900.–	1140.–	1340.–	1710.–			
Half-key balancing (standard)		□	□	□	□	□	□	□	□	□	□	□	□	□			
Balancing without key	**L01**	21.80	21.80	21.80	28.40	28.40	33.60	33.60	43.70	43.70	59.30	59.30	72.10	83.60			
Full-key balancing	**L02**	96.10	96.10	111.–	111.–	111.–	129.–	129.–	162.–	162.–	209.–	209.–	209.–	209.–			
Shaft and rotor																	
Shaft extension with standard dimensions, without feather keyway	**L04**	439.–	468.–	496.–	525.–	553.–	580.–	610.–	708.–	779.–	850.–	921.–	991.–	1060.–			
Standard cylindrical shaft extension (second shaft extension) NDE in acc. with EN 50347	**L05**	84.90	97.80	97.80	143.–	143.–	189.–	217.–	328.–	364.–	384.–	400.–	473.–	519.–			
Standard shaft made of stainless steel (e.g. 1.4021)	**L06**	126.–	126.–	147.–	168.–	232.–	357.–	567.–	675.–	1010.–	1390.–	1650.–	2750.–	3360.–			
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	**L07**	244.–	244.–	244.–	268.–	268.–	408.–	408.–	211.–	238.–	283.–	370.–	370.–	565.–			
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors	**L08**	151.–	180.–	211.–	241.–	270.–	302.–	374.–	452.–	527.–	601.–	676.–	754.–	827.–			
Non-standard shaft extension, DE [21]	**Y58** • and customer specifications	439.–	468.–	496.–	525.–	553.–	580.–	610.–	708.–	779.–	850.–	921.–	991.–	1060.–			
Non-standard shaft extension, NDE [21]	**Y59** • and customer specifications	439.–	468.–	496.–	525.–	553.–	580.–	610.–	708.–	779.–	850.–	921.–	991.–	1060.–			
Special shaft steel as requested by customer	**Y60** • and customer specifications	–	–	–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.			

For legends and footnotes, see Page 1/86.

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SIMOTICS SD 1LE1 Standard Motors
Article No. supplements and special versions

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

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version		
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
					1LE1583												⑤
		1LE1501 Basic Line														IE2	⑥
					1LE1601 Performance Line												⑦
					1LE1502 Basic Line											IE1	⑧
			1LE1543 Basic Line												APAC Line	IE3	⑨
					1LE1643 Performance Line												⑩
									1LE1541 Basic Line							IE2	⑪
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
					1LE1623 Performance Line												⑬
1LE1 . . . - . . . . . - . . . . -Z	Order code				1LE1521 Basic Line											NEE (NEMA)	⑭
Heating and ventilation																	
Sheet metal fan cover	**F74**	□	□	□	67.90	73.70	79.40	85.–	85.–	104.–	116.–	167.–	214.–	236.–	Only for:	①, ③, ⑤, ⑥, ⑧, ⑨, ⑪, ⑫, ⑭	
	–	□	□	□	□	□	□	□	□	□	□	□	□	□	Only for:	②, ④, ⑦, ⑩, ⑬	
Metal external fan [22) 28)]	**F76**	150.–	150.–	150.–	189.–	224.–	261.–	302.–	339.–	374.–	413.–	452.–	489.–	527.–			
Without external fan and without fan cover	**F90**	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–			
Anti-condensation heating for 230 V (2 terminals)	**Q02**	414.–	414.–	414.–	430.–	459.–	519.–	576.–	639.–	734.–	881.–	910.–	910.–	948.–			
Anti-condensation heating for 115 V (2 terminals)	**Q03**	414.–	414.–	414.–	430.–	459.–	519.–	576.–	639.–	734.–	881.–	910.–	910.–	948.–			
Separately driven fan with non-standard voltage and/or frequency	**Y81** • and customer specifications	–	–	–	–	–	–	–	–	–	483.–	609.–	779.–	1010.–			
Rating plate and extra rating plates																	
Extra rating plate for voltage tolerance [23)]	**B07**	41.50	41.50	41.50	41.50	41.50	41.50	41.50	69.40	69.40	69.40	86.60	86.60	109.–	Not for:	8-pole motors	
Second rating plate, loose	**M10**	21.10	21.10	21.10	21.10	21.10	21.10	21.10	67.60	67.60	67.60	67.60	67.60	67.60			
Rating plate, stainless steel	**M11**	42.20	42.20	42.20	42.20	42.20	42.20	42.20	51.60	51.60	69.40	69.40	69.40	69.40	Only for:	①, ③, ⑤, ⑥, ⑧, ⑨, ⑪, ⑫, ⑭	
		–	–	–	O	O	O	O	O	O	O	O	O	O	Only for:	④, ⑦, ⑩, ⑬	
	–	–	–	–	□	□	□	□	□	□	□	□	□	□	Only for:	②	
Extra rating plate with deviating rating plate data	**Y80** • and customer specifications	73.50	73.50	73.50	105.–	105.–	105.–	105.–	158.–	158.–	210.–	210.–	210.–	210.–			
Extra rating plate with customer specifications	**Y82** • and customer specifications	41.50	41.50	41.50	41.50	41.50	41.50	41.50	69.40	69.40	69.40	86.30	86.30	109.–			
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	41.50	41.50	41.50	41.50	41.50	41.50	41.50	69.40	69.40	69.40	86.60	86.60	109.–			
Adhesive label, supplied loose (contents: Article No., Serial No.; 2 lines of text)	**Y85** • and customer specifications	–	–	–	41.50	41.50	41.50	41.50	67.60	67.60	67.60	67.60	67.60	67.60			
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**	–	–	–	–	–	–	–	2.3 %	2.3 %	2.3 %	2.3 %	2.3 %	2.3 %	Only for:	①, ③, ⑤, ⑥, ⑧, ⑨, ⑪, ⑫, ⑭	
Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery [24)]	**Q82**	–	–	–	–	–	–	–	4.6 %	4.6 %	4.6 %	4.6 %	4.6 %	4.6 %	Only for:	①, ③, ⑤, ⑥, ⑧, ⑨, ⑪, ⑫, ⑭	
	–	–	–	–	□	□	□	□	□	□	□	□	□	□	Only for:	②, ④, ⑦, ⑩, ⑬ 36 months	

For legends and footnotes, see Page 1/86.

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

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size													Motor version		
		71	80	90	100	112	132	160	180	200	225	250	280	315			
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
					1LE1583												⑤
		1LE1501 Basic Line														IE2	⑥
					1LE1601 Performance Line												⑦
					1LE1502 Basic Line											IE1	⑧
			1LE1543 Basic Line												APAC Line	IE3	⑨
					1LE1643 Performance Line												⑩
									1LE1541 Basic Line							IE2	⑪
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑫
					1LE1623 Performance Line												⑬
1LE1 . . . - . . . . . - . . . . -Z	Order code				1LE1521 Basic Line											NEE (NEMA)	⑭

Packaging, safety notes, documentation and test certificates																
Acceptance test certificate 3.1 in accordance with EN 10204 [25]	**B02**	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70		
Document – Electrical data sheet	**B60**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–		
Document – Order dimensional drawing	**B61**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–		
Standard test (routine test) with acceptance	**B65**	–	–	–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–		
Type test with heat run for horizontal motors, without acceptance	**B82**	3390.–	4160.–	4940.–	5710.–	6500.–	7270.–	8050.–	8820.–	9600.–	10400.–	11100.–	11900.–	12800.–		
Type test with heat run for horizontal motors, with acceptance	**B83**	4960.–	5730.–	6520.–	7290.–	8070.–	8840.–	9620.–	10400.–	11200.–	11900.–	12800.–	13500.–	14300.–		
Documentation package “Basic”	**B90**	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–		
Documentation package “Advanced”	**B91**	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–		
Documentation package “Projects”	**B92**	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–		
Connected in star for dispatch	**M01**	24.–	24.–	24.–	28.90	28.90	28.90	28.90	37.90	37.90	37.90	46.90	46.90	46.90		
Connected in delta for dispatch	**M02**	24.–	24.–	24.–	28.90	28.90	28.90	28.90	37.90	37.90	37.90	46.90	46.90	46.90		

For legends and footnotes, see Page 1/86.

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

- □ Standard version
- ○ Without additional charge
- • This order code only determines the price of the version – additional plain text is required.
- O. R. Possible on request
- – Not possible

1) Up to frame size 160 not possible when brake is mounted.

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

3) Parallel Whitworth pipe thread DIN ISO 228 (DIN 259) BSPP (British Standard Pipe Parallel) Pipe thread for connections not sealed in the thread (cylindrical), external = G.

4) Cannot be used for motors in UL version (order code **D31**). The grease lifetime specified in Section 1 "Introduction" refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease service lifetime or relubrication interval is halved.

5) Not possible for 1LE15 and 1LE16 motors with increased power.

6) A second shaft extension is not possible. Please inquire for mounted brakes.

7) For order codes **F10**, **F11** and **F12**, the brake supply voltage must be specified or ordered.

8) 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.

9) 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) The LL and HOG rotary pulse encoders up to frame size 160 are fitted with a protective cover as standard. The protective cover is omitted at the factory when a rotary pulse encoder is combined with a separately driven fan, because in this case the rotary pulse encoder is installed under the fan cover.

11) Option (encoder mounting) is only possible for motors with a mounted separately driven fan or for naturally cooled motors (without a separately driven 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.

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 2LM8 (order code **F01**).

15) Not possible in combination with brake 2LM8 – order code **F01**.

16) In connection with mountings, the respective technical data 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 permitted to be 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**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under "Dimensions")
– Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension.

22) Converter operation is permitted for 1LE1 motors with metal external fans.

23) Can be ordered for 230 VΔ/400 VY or 400 VD/690 VY (voltage code "**22**" or "**34**"). Not possible for 8-pole motors and in combination with order code **D34**.

24) Wear parts (bearings) are excluded from the warranty extension.

25) The delivery time for the factory test certificate may differ from the delivery time for the motor.

26) The Operating Instructions 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 DT Configurator (see Appendix, "Tools and Configuring").

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 code **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_{min} of 0.5 · F_{max} is required for NU bearings (cylindrical roller bearings) in contrast to ball bearings. Cylindrical roller bearings are not suitable for coupling power or for brief periods of no-load operation without cantilever force.

37) Order code **R62** is only possible in combination with **R50**.

38) 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.

39) Not possible in combination with order code **R50**.

40) Not UL-certified. Not possible in combination with the option **D31**.

41) With IM B5 flange, only possible in combination with the option **H08**.

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Selection and ordering data

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	IE3
		1LE1073 Basic Line													
								1LE1573							
												1LE5773			
1LE ... . - . . . . . - . . . . -Z	Order code														
Motor protection															
1 or 3 PTC thermistors – for tripping (2 terminals)	**Q11**	37.10	43.50	119.–	119.–	180.–	180.–	239.–	239.–	325.–	325.–	406.–	406.–		
2 or 6 PTC thermistors – for alarm and tripping (4 terminals)	**Q12**	176.–	176.–	205.–	205.–	274.–	274.–	421.–	421.–	548.–	548.–	679.–	679.–		
1 temperature sensor KTY84-130 (2 terminals)	**Q23**	105.–	105.–	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–		
2 temperature sensors KTY84-130 (4 terminals)	**Q25**	211.–	211.–	241.–	241.–	359.–	359.–	550.–	550.–	756.–	1020.–	1020.–	1500.–		
3 bimetal sensors (NC contact) for tripping (2 terminals)	**Q31**	117.–	117.–	134.–	134.–	196.–	196.–	270.–	270.–	365.–	365.–	453.–	453.–		
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals)	**Q32**	210.–	210.–	241.–	241.–	352.–	352.–	477.–	477.–	647.–	647.–	801.–	801.–		
3 bimetal sensors (NC contact) for tripping (6 terminals)	**Q33**	–	–	–	–	–	–	281.–	281.–	376.–	376.–	463.–	463.–		
6 bimetal sensors (NC contact) for alarm and tripping (12 terminals)	**Q34**	–	–	–	–	–	–	488.–	488.–	658.–	658.–	811.–	811.–		
1 Pt1000 resistance thermometer (2 terminals)	**Q35**	105.–	105.–	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–		
2 Pt1000 resistance thermometers (4 terminals)	**Q36**	211.–	211.–	241.–	241.–	359.–	359.–	550.–	550.–	756.–	1020.–	1020.–	1500.–		
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**Q60**	–	–	–	–	–	–	1510.–	1510.–	1510.–	1670.–	1670.–	1670.–		
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals) [19]	**Q61**	–	–	–	–	–	–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–		
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**Q62**	–	–	–	–	–	–	1340.–	1340.–	1340.–	1340.–	1340.–	1340.–		
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals) [22]	**Q63**	–	–	–	–	–	–	2010.–	2010.–	2010.–	2010.–	2010.–	2010.–		
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals) [22]	**Q64**	–	–	–	–	–	–	2960.–	2960.–	2960.–	2960.–	2960.–	2960.–		
2 Pt100 screw-in thermometers in basic circuit for bearings (2 terminals) [2]	**Q72**	–	–	–	–	–	–	4300.–	4300.–	4300.–	4300.–	4300.–	4300.–		
2 Pt100 screw-in thermometers in 3-wire circuit for bearings (6 terminals)	**Q78**	–	–	–	–	–	–	4730.–	4730.–	4730.–	4730.–	4730.–	4730.–		
2 double Pt100 screw-in thermometers in 3-wire circuit for bearings (12 terminals)	**Q79**	–	–	–	–	–	–	5670.–	5670.–	5670.–	5670.–	5670.–	5670.–	Not for:	Motors in combination with order codes F40 and F41 (frame sizes 225 to 315)
Motor connection and terminal box															
External grounding	**H04**	24.–	24.–	28.90	28.90	28.90	28.90	□	□	□	□	□	□		
Terminal box on NDE [19]	**H08**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	1050.–	1100.–	1150.–	1200.–		
Second external grounding	**H70**	–	–	–	–	–	–	15.80	15.80	15.80	15.80	15.80	15.80		
Rotation of the terminal box through 90°, entry from DE [30]	**R10**	O	O	O	O	O	O	45.10	58.40	72.10	86.60	103.–	124.–		
Rotation of the terminal box through 90°, entry from NDE	**R11**	O	O	O	O	O	O	45.10	58.40	72.10	86.60	103.–	124.–		
Rotation of the terminal box through 180°	**R12**	O	O	O	O	O	O	45.10	58.40	72.10	86.60	103.–	124.–		
One EMC cable gland	**R14**	68.30	68.30	125.–	125.–	125.–	174.–	174.–	299.–	299.–	529.–	529.–	529.–		
One metal cable gland	**R15**	59.80	59.80	112.–	112.–	112.–	143.–	143.–	165.–	165.–	236.–	236.–	236.–		
EMC cable gland, maximum configuration	**R16**	137.–	137.–	250.–	250.–	250.–	362.–	362.–	610.–	610.–	1090.–	1090.–	1090.–		
Stud terminal for cable connection, accessories pack (3 items)	**R17**	–	–	–	–	–	–	–	–	–	150.–	150.–	189.–		
One metal cable gland, maximum configuration	**R18**	86.20	86.20	159.–	159.–	159.–	209.–	209.–	241.–	241.–	417.–	417.–	417.–		
Saddle terminal for connection without cable lug, accessories pack	**R19**	–	–	–	–	–	–	–	–	–	735.–	735.–	735.–		

For legends, see Page 1/92, for footnotes, see Page 1/93.

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SIMOTICS GP/SD 1LE – ABNT Line Standard Motors
Article No. supplements and special versions

Options · Aluminum series 1LE1073 and Cast-iron series 1LE1573/1LE5773

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC IE3
		1LE1073 Basic Line												
								1LE1573						
													1LE5773	
1LE … . . - . . . . . - . . . . -Z	Order code													
Motor connection and terminal box (continued)														
3 cables protruding, 0.5 m long	**R20**	57.30	57.30	68.70	82.40	101.–	118.–	143.–	–	–	–	–	–	
3 cables protruding, 1.5 m long	**R21**	69.40	69.40	82.90	99.70	121.–	144.–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
6 cables protruding, 0.5 m long	**R22**	88.80	88.80	106.–	128.–	158.–	186.–	222.–	–	–	–	–	–	
6 cables protruding, 1.5 m long	**R23**	113.–	113.–	136.–	164.–	199.–	237.–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
6 cables protruding, 3 m long	**R24**	181.–	181.–	218.–	257.–	322.–	386.–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
12 cables freely brought out with cable lugs	**R31**	□	□	□	□	□	□	□	□	□	□	□	□	
Larger terminal box	**R50**	103.–	103.–	214.–	214.–	274.–	313.–	475.–	523.–	1660.–	1900.–	1900.–	2230.–	
Terminal box without cable entry opening	**R51**	–	–	–	–	–	–	O	O	O	O	O	O	
Drilled removable entry plate	**R52**	–	–	–	–	–	–	273.–	294.–	294.–	489.–	489.–	510.–	
Undrilled removable entry plate	**R53**	–	–	–	–	–	–	273.–	294.–	294.–	489.–	489.–	510.–	
Cast-iron auxiliary terminal box (small) [22]	**R62**	–	–	–	–	–	284.–	284.–	284.–	284.–	284.–	284.–	284.–	
Cast-iron auxiliary terminal box (large)	**R63**	–	–	–	–	–	–	–	–	–	–	–	630.–	
Silicon-free version	**R74**	–	–	□	□	□	□	□	□	□	357.–	357.–	357.–	
Non-standard threaded through hole (NPT or G thread)	**Y61 •** and customer specifications	–	–	–	–	–	–	203.–	270.–	338.–	402.–	541.–	670.–	
Windings and insulation														
Temperature class 155 (F), utilized acc. to 155 (F), with service factor	**N01**	42.–	42.–	48.30	48.30	64.30	64.30	81.90	81.90	93.10	93.10	109.–	109.–	
Temperature class 155 (F), utilized acc. to 155 (F), with increased power	**N02**	42.–	42.–	48.30	48.30	64.30	64.30	81.90	81.90	93.10	93.10	109.–	109.–	
Temperature class 155 (F), utilized acc. to 155 (F), with increased coolant temperature	**N03**	41.50	41.50	48.30	48.30	64.30	64.30	81.90	81.90	93.10	93.10	109.–	109.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 %	**N05**	41.50	41.50	48.30	48.30	64.30	64.30	81.90	81.90	93.10	93.10	109.–	109.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 %	**N06**	41.50	41.50	48.30	48.30	64.30	64.30	81.90	81.90	93.10	93.10	109.–	109.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 %	**N07**	74.40	87.50	108.–	132.–	167.–	208.–	268.–	326.–	483.–	609.–	779.–	1010.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 %	**N08**	74.40	87.50	108.–	132.–	167.–	208.–	268.–	326.–	483.–	609.–	779.–	1010.–	
Temperature class 180 (H)	**N10**	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R..	O. R.	967.–	1260.–	1520.–	1790.–	
Temperature class 180 (H) at rated power and max. CT 60 °C [4]	**N11**	220.–	220.–	257.–	305.–	405.–	494.–	702.–	982.–	1200.–	1470.–	1790.–	2200.–	
Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N30**	137.–	137.–	137.–	137.–	137.–	210.–	305.–	420.–	652.–	872.–	1100.–	1350.–	
Increased air humidity/temperature with 60 to 100 g water per m^3 of air	**N31**	220.–	220.–	220.–	252.–	284.–	399.–	515.–	662.–	935.–	1200.–	1520.–	1820.–	
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude	**Y50 •** and spec. power, CT .. °C or IA …. m above sea level	–	–	162.–	196.–	252.–	310.–	401.–	493.–	725.–	912.–	1160.–	1510.–	

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Options · Aluminum series 1LE1073 and Cast-iron series 1LE1573/1LE5773

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	IE3
		1LE1073 Basic Line													
								1LE1573							
													1LE5773		
1LE … . . . - . . . . . - . . . . -Z	Order code														
Windings and insulation (continued)															
Temperature class 155 (F), utilized according to 155 (F), other requirements	**Y52** • and spec. power, CT .. °C or IA …. m above sea level	41.50	41.50	48.30	48.30	64.30	64.30	81.90	81.90	93.50	93.50	109.–	109.–		
Temperature class 180 (H), utilized according to 155 (F)	**Y75** • and spec. power, CT .. °C or IA …. m above sea level	–	–	O. R.	O. R.	O. R.	O. R.	909.–	982.–	1430.–	1640.–	2280.–	2460.–		
Colors and paint finish															
Unpainted (only cast-iron parts primed)	**S00**	O	O	O	O	O	O	O	O	O	O	O	O		
Unpainted, only primed	**S01**	20.90	27.80	27.80	27.80	44.40	44.40	83.30	83.30	83.30	83.30	83.30	83.30		
Special finish C3		□	□	□	□	□	□	□	□	□	□	□	□		
Special finish sea air resistant C4	**S03**	504.–	504.–	536.–	536.–	589.–	589.–	630.–	672.–	714.–	757.–	799.–	830.–		
Special paint for use offshore C5	**S04**	–	–	–	–	–	–	2640.–	2770.–	3200.–	4170.–	5220.–	8070.–		
Internal coating	**S05**	89.40	89.40	89.40	89.40	89.40	89.40	89.40	89.40	89.40	110.–	126.–	137.–		
Top coat polyurethane [25]	**S06**	31.50	51.50	73.50	101.–	150.–	210.–	252.–	309.–	397.–	495.–	625.–	795.–		
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53** • and finish RAL….	26.30	26.30	42.–	42.–	57.80	57.80	84.–	115.–	126.–	158.–	189.–	263.–		
Finish in special RAL colors: RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56** • and finish RAL….	620.–	620.–	662.–	662.–	694.–	694.–	704.–	714.–	725.–	735.–	746.–	757.–		
Modular technology – Basic versions [5]															
Mounting of holding brake (standard assignment) [6] [23] [24]	**F01**	468.–	562.–	657.–	799.–	1030.–	2040.–	4510.–	6300.–	8010.–	25600.–	31600.–	37900.–		
Mounting of PRECIMA brake	**F04**	–	–	–	–	–	–	–	–	14600.–	17600.–	24800.–	–		
Mounting of separately driven fan [20] [26]	**F70**	840.–	840.–	840.–	987.–	1070.–	1240.–	1370.–	2050.–	2550.–	3180.–	3790.–	4270.–		
Mounting of rotary pulse encoder Kübler Sendix 5020 HTL, 1024 I	**G11**	748.–	793.–	838.–	895.–	941.–	986.–	1030.–	1080.–	1140.–	1190.–	1230.–	1280.–		
Mounting of rotary pulse encoder Kübler Sendix 5020 TTL, 1024 I	**G12**	1030.–	1100.–	1180.–	1250.–	1330.–	1410.–	1480.–	1550.–	1640.–	1710.–	1790.–	1860.–		
Modular technology – Additional versions															
Brake supply voltage 24 V DC	**F10**	35.20	35.20	52.90	52.90	52.90	52.90	70.60	70.60	70.60	70.60	70.60	70.60		
Brake supply voltage 230 V AC, 50/60 Hz	**F11**	35.20	35.20	O	O	O	O	O	O	O	O	O	O		
Brake supply voltage 400 V AC, 50/60 Hz [24]	**F12**	35.20	35.20	52.90	52.90	52.90	52.90	70.60	70.60	70.60	70.60	70.60	70.60		
Brake supply voltage DC 180 V	**F17**	35.20	35.20	52.90	52.90	52.90	52.90	70.60	70.60	70.60	–	–	–		
Brake supply voltage DC 205 V	**F18**	35.20	35.20	52.90	52.90	52.90	52.90	70.60	70.60	70.60	–	–	–		
Reverse running stop, reverse movement left locked, rotating direction right	**F40**	–	–	–	–	5470.–	5780.–	6080.–	6080.–	6300.–	6940.–	8040.–	9560.–		
Reverse running stop, reverse movement right locked, rotating direction left	**F41**	–	–	–	–	–	–	6080.–	6080.–	6300.–	6940.–	8040.–	9560.–		
Mechanical manual brake release with lever (no locking)	**F50**	250.–	250.–	264.–	264.–	294.–	426.–	620.–	723.–	868.–	987.–	1090.–	–		

For legends, see Page 1/92, for footnotes, see Page 1/93.

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SIMOTICS GP/SD 1LE – ABNT Line Standard Motors

Article No. supplements and special versions

Options · Aluminum series 1LE1073 and Cast-iron series 1LE1573/1LE5773

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	IE3
		1LE1073 Basic Line						1LE1573							
													1LE5773		
1LE … . . . - . . . . . - . . . . -Z	Order code														
Special technology [5]															
Mounting of LL 861 900 220 rotary pulse encoder [7]	**G04**	–	–	3000.–	3000.–	3000.–	3000.–	3000.–	3000.–	4180.–	4180.–	4180.–	4180.–		
Mounting of HOG 9 DN 1024 I rotary pulse encoder [7]	**G05**	–	–	3540.–	3540.–	3540.–	3540.–	4570.–	4570.–	4950.–	4950.–	4950.–	4950.–		
Mounting of HOG 10 D 1024 I rotary pulse encoder [7]	**G06**	–	–	4570.–	4570.–	4570.–	4570.–	4570.–	4570.–	6000.–	6000.–	6000.–	6000.–		
Mounting of POG 10 D rotary pulse encoder (only in combination with separately driven fan or brake) [8]	**G07**	–	–	–	–	–	–	6380.–	6410.–	6440.–	6490.–	6530.–	6590.–		
Mounting of POG 9 rotary pulse encoder (only in combination with separately driven fan or brake) [8]	**G08**	–	–	–	–	–	–	14700.–	14900.–	18000.–	18000.–	18000.–	18000.–		
Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal box moisture protection	**G15**	–	–	–	–	–	–	5730.–	5760.–	5800.–	5840.–	5900.–	5940.–		
Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal box dust protection	**G16**	–	–	–	–	–	–	5730.–	5760.–	5800.–	5840.–	5900.–	5940.–		
Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	**G21**	2360.–	2480.–	2540.–	2680.–	2830.–	3050.–	3210.–	3330.–	3430.–	3430.–	3430.–	3430.–		
Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	**G22**	2710.–	2860.–	2940.–	3120.–	3300.–	3520.–	3630.–	3750.–	3880.–	3880.–	3880.–	3880.–		
Mounting of HOGS100S-B76.626. 01024.1 rotary pulse encoder	**G25**	–	–	–	–	–	–	14000.–	14000.–	17400.–	17400.–	17400.–	17400.–		
Mounting of LL FSI 862-184560-1024, SIL-2 rotary pulse encoder	**G27**	–	–	–	–	–	–	15500.–	15500.–	20200.–	20200.–	20200.–	20200.–		
Mounting of XSI 850 Overspeed rotary pulse encoder	**G93**	–	–	–	–	–	–	6010.–	6030.–	6070.–	6100.–	6170.–	6220.–		
Mounting of XHI 861 Overspeed rotary pulse encoder	**G94**	–	–	–	–	–	–	6010.–	6030.–	6070.–	6100.–	6170.–	6220.–		
Mounting of HOG 10 DN 1024 I + FSL rotary pulse encoder, (integrated centrifugal switch, speed .... rpm), terminal box moisture protection	**Y74** • and spec. speed .... rpm	–	–	–	–	–	–	8810.–	8830.–	8870.–	8900.–	8970.–	9020.–		
Mounting of HOG 10 DN 1024 II + FSL rotary pulse encoder, (integrated centrifugal switch, speed .... rpm), terminal box dust protection	**Y76** • and spec. speed .... rpm	–	–	–	–	–	–	8810.–	8830.–	8870.–	8900.–	8970.–	9020.–		
Mounting of HOG 10 DN 1024 I + ESL 93 rotary pulse encoder, (integrated electronic speed switch, speed .... rpm), terminal box dust protection	**Y79** • and spec. speed (max. 3) .... rpm	–	–	–	–	–	–	15000.–	15100.–	15300.–	15500.–	15600.–	15800.–		
Mechanical design and degrees of protection															
Low-noise version for 2-pole motors with clockwise direction of rotation	**F77**	–	–	–	–	625.–	887.–	1150.–	1420.–	1670.–	1940.–	2200.–	2470.–		
Low-noise version for 2-pole motors with counter-clockwise direction of rotation	**F78**	–	–	–	–	625.–	887.–	1150.–	1420.–	1670.–	1940.–	2200.–	2470.–		
Prepared for mountings, center hole only	**G40**	70.10	70.10	70.10	70.10	93.–	107.–	□	□	□	□	□	□		
Prepared for mountings with D12 shaft	**G41**	143.–	152.–	152.–	168.–	189.–	225.–	462.–	462.–	589.–	924.–	924.–	924.–		
Prepared for mountings with D16 shaft	**G42**	143.–	152.–	152.–	168.–	189.–	225.–	462.–	462.–	589.–	924.–	924.–	924.–		
Mechanical protection for encoders	**G43**	72.30	72.30	80.70	80.70	141.–	141.–	212.–	212.–	212.–	212.–	212.–	212.–		
Protective cover [7] [9]	**H00**	56.70	56.70	82.40	82.40	144.–	144.–	192.–	289.–	383.–	478.–	573.–	766.–		
Screwed-on (instead of cast) feet	**H01**	□	□	□	□	□	□	□	□	□	□	□	–		
Vibration-proof version; vibration resistance to Class 3M4 acc. to IEC 60721-3-3:1994 [29]	**H02**	148.–	168.–	189.–	209.–	226.–	263.–	315.–	378.–	442.–	525.–	609.–	694.–		
Condensation drainage holes [28]	**H03**	67.60	75.50	82.70	90.30	97.80	105.–	□	□	□	□	□	□		
Rust-resistant screws (externally)	**H07**	155.–	155.–	82.70	82.70	97.80	97.80	112.–	128.–	170.–	203.–	211.–	281.–		
IP66 degree of protection	**H19**	316.–	316.–	316.–	316.–	316.–	471.–	630.–	787.–	949.–	1106.–	1264.–	1419.–		
IP56 degree of protection [12]	**H22**	166.–	166.–	166.–	166.–	166.–	247.–	328.–	413.–	497.–	579.–	663.–	743.–		
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar [10] [21]	**H23**	48.30	51.70	57.50	62.90	76.80	112.–	145.–	180.–	239.–	317.–	398.–	478.–		
Grounding brush for converter operation	**L52**	–	–	–	–	–	–	–	–	–	–	2630.–	2630.–		

For legends, see Page 1/92, for footnotes, see Page 1/93.

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Options · Aluminum series 1LE1073 and Cast-iron series 1LE1573/1LE5773

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	IE3
		1LE1073 Basic Line													
								1LE1573							
													1LE5773		
1LE … . . . - . . . . . - . . . . -Z	Order code														
Coolant temperature and installation altitude															
Coolant temperature –50 to +40 °C (IP54 degree of protection)	**D02**	–	–	–	–	–	–	2590.–	2770.–	4000.–	4460.–	5400.–	6400.–		
Coolant temperature –40 to +40 °C [14]	**D03**	257.–	322.–	386.–	489.–	566.–	650.–	721.–	836.–	1070.–	1330.–	1890.–	2440.–		
Coolant temperature –30 to +40 °C	**D04**	56.70	56.70	70.80	70.80	85.–	85.–	113.–	142.–	567.–	1330.–	1890.–	2440.–		
Designs in accordance with standards and specifications															
Motor without CE marking for export outside EEA (see EU Directive 640/2009)	**D22**	56.70	56.70	70.80	70.80	85.–	85.–	113.–	142.–	567.–	1330.–	1890.–	2440.–		
Bearings and lubrication															
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A	**L19**	–	–	–	–	–	–	383.–	430.–	478.–	573.–	O	O		
Located bearing DE	**L20**	39.80	42.20	72.80	86.30	106.–	145.–	306.–	424.–	597.–	768.–	993.–	1070.–		
Located bearing NDE	**L21**	39.80	42.20	44.20	46.50	49.30	□	□	□	□	□	□	□		
Bearing design for increased cantilever forces [27]	**L22**	80.90	89.40	101.–	117.–	133.–	175.–	278.–	322.–	363.–	420.–	470.–	525.–		
Regreasing device [1]	**L23**	–	–	317.–	325.–	336.–	363.–	383.–	430.–	478.–	573.–	□	□		
Reinforced bearings at both ends for DE and NDE, bearing size 63 [14]	**L25**	168.–	203.–	203.–	237.–	265.–	353.–	468.–	576.–	819.–	1130.–	□	□		
Reinforced bearings at both DE and NDE, DE bearing for increased cantilever forces	**L28**	–	–	–	–	–	–	747.–	900.–	1170.–	1550.–	–	–		
Bearing insulation DE	**L50**	–	–	–	–	–	–	–	–	1760.–	1890.–	1960.–	2050.–		
Bearing insulation NDE	**L51**	–	–	540.–	560.–	1250.–	1300.–	1350.–	1370.–	1760.–	1890.–	1960.–	2050.–		
Measuring nipple for SPM shock pulse measurement for bearing inspection [1]	**Q01**	–	–	257.–	288.–	317.–	350.–	377.–	408.–	439.–	468.–	498.–	528.–		
Balance and vibration quantity															
Vibration quantity level A		□	□	□	□	□	□	□	□	□	□	□	□		
Vibration quantity level B [15]	**L00**	255.–	270.–	284.–	327.–	419.–	519.–	814.–	819.–	900.–	1140.–	1340.–	1710.–		
Half-key balancing (standard)		□	□	□	□	□	□	□	□	□	□	□	□		
Balancing without key	**L01**	21.80	21.80	28.40	28.40	33.60	33.60	43.70	43.70	59.30	59.30	72.10	83.60		
Full-key balancing	**L02**	96.10	111.–	111.–	111.–	129.–	129.–	162.–	162.–	209.–	209.–	209.–	209.–		
Shaft and rotor															
Shaft extension with standard dimensions, without feather keyway	**L04**	468.–	496.–	525.–	553.–	580.–	610.–	708.–	779.–	850.–	921.–	991.–	1060.–		
Standard cylindrical shaft extension (second shaft extension) NDE in acc. with EN 50347	**L05**	97.80	97.80	143.–	143.–	189.–	217.–	328.–	364.–	384.–	400.–	473.–	519.–		
Standard shaft made of stainless steel (e.g. 1.4021)	**L06**	838.–	838.–	962.–	962.–	1110.–	1390.–	675.–	1010.–	1390.–	1650.–	2750.–	3360.–		
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	**L07**	244.–	244.–	268.–	268.–	408.–	408.–	211.–	238.–	283.–	370.–	370.–	565.–		
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors	**L08**	180.–	180.–	241.–	270.–	302.–	374.–	452.–	527.–	601.–	676.–	754.–	827.–		
Non-standard shaft extension, DE [16]	**Y58** • and customer specifications	468.–	468.–	525.–	553.–	580.–	610.–	708.–	779.–	850.–	921.–	991.–	1060.–		
Non-standard shaft extension, NDE [16]	**Y59** • and customer specifications	468.–	468.–	525.–	553.–	580.–	610.–	708.–	779.–	850.–	921.–	991.–	1060.–		
Special shaft steel as requested by customer	**Y60** • and customer specifications	–	–	–	–	–	–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.		

For legends, see Page 1/92, for footnotes, see Page 1/93.

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SIMOTICS GP/SD 1LE – ABNT Line Standard Motors
Article No. supplements and special versions

Options · Aluminum series 1LE1073 and Cast-iron series 1LE1573/1LE5773

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	IE3
		1LE1073 Basic Line													
								1LE1573							
													1LE5773		
1LE … . . . - . . . . . - . . . . -Z	Order code														
Heating and ventilation															
Sheet metal fan cover	**F74**	56.70	62.40	67.90	73.70	79.40	85.–	85.–	104.–	116.–	167.–	214.–	236.–		
Metal external fan [17) 20)]	**F76**	150.–	150.–	189.–	224.–	261.–	302.–	339.–	374.–	413.–	452.–	489.–	–		
Ohne Außenlüfter und ohne Lüfterhaube	**F90**	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–	118.–		
Anti-condensation heating for 230 V (2 terminals)	**Q02**	414.–	414.–	430.–	459.–	519.–	576.–	639.–	734.–	881.–	910.–	910.–	948.–		
Anti-condensation heating for 115 V (2 terminals)	**Q03**	414.–	414.–	430.–	459.–	519.–	576.–	639.–	734.–	881.–	910.–	910.–	948.–		
Separately driven fan with non-standard voltage and/or frequency	**Y81** • and customer specifications	–	–	–	–	–	–	–	–	483.–	609.–	779.–	1010.–		
Rating plate and extra rating plates															
Second rating plate, loose	**M10**	21.10	21.10	21.10	21.10	21.10	21.10	67.60	67.60	67.60	67.60	67.60	67.60		
Rating plate, stainless steel	**M11**	□	□	□	□	□	□	□	□	□	□	□	□		
Extra rating plate with deviating rating plate data	**Y80** • and customer specifications	73.50	73.50	105.–	105.–	105.–	105.–	158.–	158.–	210.–	210.–	210.–	210.–		
Extra rating plate with customer specifications	**Y82** • and customer specifications	41.50	41.50	41.50	41.50	41.50	41.50	69.40	69.40	69.40	86.30	86.30	109.–		
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	41.50	41.50	41.50	41.50	41.50	41.50	69.40	69.40	69.40	86.60	86.60	109.–		
Adhesive label, supplied loose (contents: Article No., Serial No.; 2 lines of text)	**Y85** • and customer specifications	–	–	41.50	41.50	41.50	41.50	67.60	67.60	67.60	67.60	67.60	67.60		
Packaging, safety notes, documentation and test certificates															
Acceptance test certificate 3.1 in accordance with EN 10204 [18)]	**B02**	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70		
Document – Electrical data sheet	**B60**	315.–	315.–	´315	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–		
Document – Order dimensional drawing	**B61**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–		
Standard test (routine test) with acceptance	**B65**	3810.–	3810.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–		
Type test with heat run for horizontal motors, without acceptance	**B82**	4080.–	4840.–	5600.–	6370.–	7270.–	7890.–	8820.–	9600.–	10400.–	11100.–	11900.–	12800.–		
Type test with heat run for horizontal motors, with acceptance	**B83**	5730.–	6520.–	7290.–	8070.–	8840.–	9620.–	10400.–	11200.–	11900.–	12800.–	13500.–	14300.–		
Connected in star for dispatch	**M01**	–	–	28.90	28.90	28.90	28.90	37.90	37.90	37.90	46.90	46.90	46.90		
Connected in delta for dispatch	**M02**	–	–	28.90	28.90	28.90	28.90	37.90	37.90	37.90	46.90	46.90	46.90		

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
O. R. Possible on request
– Not possible

For footnotes, see Page 1/93.

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1) Up to frame size 160 not possible when brake is mounted.

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

3) Parallel Whitworth pipe thread DIN ISO 228 (DIN 259) BSPP (British Standard Pipe Parallel) Pipe thread for connections not sealed in the thread (cylindrical), external = G.

4) Cannot be used for motors in UL version (order code **D31**). The grease lifetime specified in Section 1 "Introduction" refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease service lifetime or relubrication interval is halved.

5) A second shaft extension is not possible. Please inquire for mounted brakes.

6) For order codes **F10**, **F11** and **F12**, the brake supply voltage must be specified or ordered.

7) The LL and HOG rotary pulse encoders up to frame size 160 are fitted with a protective cover as standard. The protective cover is omitted at the factory when a rotary pulse encoder is combined with a separately driven fan, because in this case the rotary pulse encoder is installed under the fan cover.

8) Option (encoder mounting) is only possible for motors with a mounted separately driven fan or for naturally cooled motors (without a separately driven 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 brake 2LM8 – order code **F01**.

13) In connection with mountings, the respective technical data must be observed, please inquire before ordering.

14) From frame size 280 in the 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 permitted to be 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**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under "Dimensions")
– Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension.

17) Converter operation is permitted for 1LE1 motors with metal external fans.

18) The delivery time for the factory 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 DT Configurator (see Appendix, "Tools and Configuring").

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 **S06** cannot be combined with order code **S00**, **S01** 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_{min} of 0.5 · F_{max} is required for NU bearings (cylindrical roller bearings) in contrast to ball bearings. Cylindrical roller bearings are not suitable for coupling power or for brief periods of no-load operation without cantilever force.

28) 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 the option **H08**.

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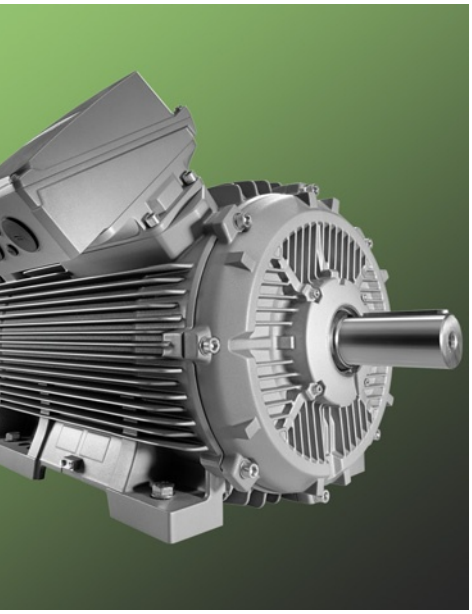

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE4 Super Premium Efficiency**
Series version	**Cast-iron series 1LE5504/1LE5604 Basic/Performance Line**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	315 L ... 355 L
Rated power at 50 Hz	160 ... 500 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	800 ... 4048 Nm
Efficiency	IE4 Super Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 2/10, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
250	**IE4**	**315 L**	**1LE5504-3AA6.-....**	**59800.–**	**1LE5604-3AA6.-....**	**61700.–**
315	**IE4**	**315 L**	**1LE5504-3AA7.-....**	**75400.–**	**1LE5604-3AA7.-....**	**77800.–**
355	**IE4**	**355 L**			**1LE5604-3BA3.-....**	**87800.–**
400	**IE4**	**355 L**			**1LE5604-3BA4.-....**	**100000.–**
500	**IE4**	**355 L**			**1LE5604-3BA5.-....**	**132000.–**
4-pole: 1500 rpm at 50 Hz						
250	**IE4**	**315 L**	**1LE5504-3AB6.-....**	**56100.–**	**1LE5604-3AB6.-....**	**57900.–**
315	**IE4**	**315 L**	**1LE5504-3AB7.-....**	**70700.–**	**1LE5604-3AB7.-....**	**72900.–**
355	**IE4**	**355 L**			**1LE5604-3BB3.-....**	**82500.–**
400	**IE4**	**355 L**			**1LE5604-3BB4.-....**	**93400.–**
500	**IE4**	**355 L**			**1LE5604-3BB5.-....**	**121000.–**
6-pole: 1000 rpm at 50 Hz						
200	**IE4**	**315 L**	**1LE5504-3AC7.-....**	**66200.–**	**1LE5604-3AC7.-....**	**68100.–**
250	**IE4**	**315 L**	**1LE5504-3AC8.-....**	**83300.–**	**1LE5604-3AC8.-....**	**85900.–**
315	**IE4**	**355 L**			**1LE5604-3BC2.-....**	**110000.–**
355	**IE4**	**355 L**			**1LE5604-3BC3.-....**	**118000.–**
400	**IE4**	**355 L**			**1LE5604-3BC4.-....**	**127000.–**
8-pole: 750 rpm at 50 Hz						
160	**IE4**	**315 L**	**1LE5504-3AD7.-....**	**66200.–**	**1LE5604-3AD7.-....**	**68100.–**
200	**IE4**	**315 L**	**1LE5504-3AD8.-....**	**81400.–**	**1LE5604-3AD8.-....**	**83900.–**
250	**IE4**	**355 S**			**1LE5604-3BD1.-....**	**109000.–**
315	**IE4**	**355 M**			**1LE5604-3BD2.-....**	**134000.–**

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Overview

Category	**Motors with IE3 Super Premium Efficiency**
Series version	**Cast-iron series 1LE5503/1LE5603 Basic/Performance Line**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	315 L ... 355 L
Rated power at 50 Hz	160 ... 500 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	800 ... 4048 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 2/10, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
250	**IE3**	**315 L**	**1LE5503-3AA6.-....**	**53200.–**	**1LE5603-3AA6.-....**	**55000.–**
315	**IE3**	**315 L**	**1LE5503-3AA7.-....**	**67200.–**	**1LE5603-3AA7.-....**	**69200.–**
355	**IE3**	**355 L**			**1LE5603-3BA3.-....**	**78300.–**
400	**IE3**	**355 L**			**1LE5603-3BA4.-....**	**89500.–**
500	**IE3**	**355 L**			**1LE5603-3BA5.-....**	**117000.–**
4-pole: 1500 rpm at 50 Hz						
250	**IE3**	**315 L**	**1LE5503-3AB6.-....**	**49900.–**	**1LE5603-3AB6.-....**	**51500.–**
315	**IE3**	**315 L**	**1LE5503-3AB7.-....**	**63200.–**	**1LE5603-3AB7.-....**	**65000.–**
355	**IE3**	**355 L**			**1LE5603-3BB3.-....**	**73500.–**
400	**IE3**	**355 L**			**1LE5603-3BB4.-....**	**83300.–**
500	**IE3**	**355 L**			**1LE5603-3BB5.-....**	**108000.–**
6-pole: 1000 rpm at 50 Hz						
200	**IE3**	**315 L**	**1LE5503-3AC7.-....**	**59000.–**	**1LE5603-3AC7.-....**	**60700.–**
250	**IE3**	**315 L**	**1LE5503-3AC8.-....**	**74300.–**	**1LE5603-3AC8.-....**	**76500.–**
315	**IE3**	**355 L**			**1LE5603-3BC2.-....**	**98600.–**
355	**IE3**	**355 L**			**1LE5603-3BC3.-....**	**105000.–**
400	**IE3**	**355 L**			**1LE5603-3BC4.-....**	**114000.–**
8-pole: 750 rpm at 50 Hz						
160	**IE3**	**315 L**	**1LE5503-3AD7.-....**	**59000.–**	**1LE5603-3AD7.-....**	**60700.–**
200	**IE3**	**315 L**	**1LE5503-3AD8.-....**	**72700.–**	**1LE5603-3AD8.-....**	**74800.–**
250	**IE3**	**355 S**			**1LE5603-3BD1.-....**	**96800.–**
315	**IE3**	**355 M**			**1LE5603-3BD2.-....**	**119000.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE4 Super Premium Efficiency**
Series version	**Cast-iron series 1LE5534/1LE5634 Basic/Performance Line**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	315 L ... 355 L
Rated power at 50 Hz	160 ... 500 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	801 ... 2574 Nm
Efficiency	IE4 Super Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 2/10, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
250	**IE4**	**315 L**	**1LE5534-3AA6.-....**	**65900.–**	**1LE5634-3AA6.-....**	**67700.–**
315	**IE4**	**315 L**	**1LE5534-3AA7.-....**	**82900.–**	**1LE5634-3AA7.-....**	**85500.–**
355	**IE4**	**355 L**			**1LE5634-3BA3.-....**	**96600.–**
400	**IE4**	**355 L**			**1LE5634-3BA4.-....**	**110000.–**
500	**IE4**	**355 L**			**1LE5634-3BA5.-....**	**138000.–**
4-pole: 1500 rpm at 50 Hz						
250	**IE4**	**315 L**	**1LE5534-3AB6.-....**	**61800.–**	**1LE5634-3AB6.-....**	**63600.–**
315	**IE4**	**315 L**	**1LE5534-3AB7.-....**	**77900.–**	**1LE5634-3AB7.-....**	**80200.–**
355	**IE4**	**355 L**			**1LE5634-3BB3.-....**	**90600.–**
400	**IE4**	**355 L**			**1LE5634-3BB4.-....**	**103000.–**
500	**IE4**	**355 L**			**1LE5634-3BB5.-....**	**127000.–**
6-pole: 1000 rpm at 50 Hz						
200	**IE4**	**315 L**	**1LE5534-3AC7.-....**	**72800.–**	**1LE5634-3AC7.-....**	**75000.–**
250	**IE4**	**315 L**	**1LE5534-3AC8.-....**	**91700.–**	**1LE5634-3AC8.-....**	**94400.–**
315	**IE4**	**355 L**			**1LE5634-3BC2.-....**	**121000.–**
355	**IE4**	**355 L**			**1LE5634-3BC3.-....**	**129000.–**
400	**IE4**	**355 L**			**1LE5634-3BC4.-....**	**143000.–**
8-pole: 750 rpm at 50 Hz						
160	**IE4**	**315 L**	**1LE5534-3AD7.-....**	**72800.–**	**1LE5634-3AD7.-....**	**75000.–**
200	**IE4**	**315 L**	**1LE5534-3AD8.-....**	**89500.–**	**1LE5634-3AD8.-....**	**92200.–**
250	**IE4**	**355 S**			**1LE5634-3BD1.-....**	**119000.–**
315	**IE4**	**355 M**			**1LE5634-3BD2.-....**	**147000.–**

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Overview

Category	**Motors with IE4 Super Premium Efficiency** (continued)
Series version	**Cast-iron series 1LE5534**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	400 ... 450
Rated power at 50 Hz	355 ... 1000 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	1790 ... 8100 Nm
Efficiency	IE4 Super Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3ZB

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 2/10, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No.	Base price
kW		FS		EUR
2-pole: 3000 rpm at 50 Hz				
560	**IE4**	**400**	**1LE5534-4AA3.-....**	**145000.–**
630	**IE4**	**400**	**1LE5534-4AA5.-....**	**162000.–**
710	**IE4**	**400**	**1LE5534-4AA7.-....**	**184000.–**
800	**IE4**	**450**	**1LE5534-4BA3.-....**	**213000.–**
900	**IE4**	**450**	**1LE5534-4BA5.-....**	**234000.–**
1000	**IE4**	**450**	**1LE5534-4BA7.-....**	**267000.–**
4-pole: 1500 rpm at 50 Hz				
560	**IE4**	**400**	**1LE5534-4AB3.-....**	**135000.–**
630	**IE4**	**400**	**1LE5534-4AB5.-....**	**152000.–**
710	**IE4**	**400**	**1LE5534-4AB7.-....**	**172000.–**
800	**IE4**	**450**	**1LE5534-4BB3.-....**	**194000.–**
900	**IE4**	**450**	**1LE5534-4BB5.-....**	**220000.–**
1000	**IE4**	**450**	**1LE5534-4BB7.-....**	**247000.–**
6-pole: 1000 rpm at 50 Hz				
450	**IE4**	**400**	**1LE5534-4AC3.-....**	**149000.–**
500	**IE4**	**400**	**1LE5534-4AC5.-....**	**162000.–**
560	**IE4**	**400**	**1LE5534-4AC7.-....**	**185000.–**
630	**IE4**	**450**	**1LE5534-4BC3.-....**	**208000.–**
710	**IE4**	**450**	**1LE5534-4BC5.-....**	**231000.–**
800	**IE4**	**450**	**1LE5534-4BC7.-....**	**259000.–**
8-pole: 750 rpm at 50 Hz				
355	**IE4**	**400**	**1LE5534-4AD3.-....**	**149000.–**
400	**IE4**	**400**	**1LE5534-4AD5.-....**	**162000.–**
450	**IE4**	**400**	**1LE5534-4AD7.-....**	**194000.–**
500	**IE4**	**450**	**1LE5534-4BD3.-....**	**219000.–**
560	**IE4**	**450**	**1LE5534-4BD5.-....**	**240000.–**
630	**IE4**	**450**	**1LE5534-4BD7.-....**	**276000.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE3 Super Premium Efficiency**
Series version	**Cast-iron series 1LE5533/1LE5633 Basic/Performance Line**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	315 L ... 355 L
Rated power at 50 Hz	160 ... 500 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	800 ... 4048 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 2/10, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
250	**IE3**	**315 L**	**1LE5533-3AA6.-....**	**58600.–**	**1LE5633-3AA6.-....**	**60400.–**
315	**IE3**	**315 L**	**1LE5533-3AA7.-....**	**74000.–**	**1LE5633-3AA7.-....**	**76100.–**
355	**IE3**	**355 L**			**1LE5633-3BA3.-....**	**86200.–**
400	**IE3**	**355 L**			**1LE5633-3BA4.-....**	**98500.–**
500	**IE3**	**355 L**			**1LE5633-3BA5.-....**	**122000.–**
4-pole: 1500 rpm at 50 Hz						
250	**IE3**	**315 L**	**1LE5533-3AB6.-....**	**55000.–**	**1LE5633-3AB6.-....**	**56600.–**
315	**IE3**	**315 L**	**1LE5533-3AB7.-....**	**69600.–**	**1LE5633-3AB7.-....**	**71600.–**
355	**IE3**	**355 L**			**1LE5633-3BB3.-....**	**80900.–**
400	**IE3**	**355 L**			**1LE5633-3BB4.-....**	**91700.–**
500	**IE3**	**355 L**			**1LE5604-3BB5.-....**	**114000.–**
6-pole: 1000 rpm at 50 Hz						
200	**IE3**	**315 L**	**1LE5533-3AC7.-....**	**64800.–**	**1LE5633-3AC7.-....**	**66900.–**
250	**IE3**	**315 L**	**1LE5533-3AC8.-....**	**81600.–**	**1LE5633-3AC8.-....**	**84100.–**
315	**IE3**	**355 L**			**1LE5633-3BC2.-....**	**108000.–**
355	**IE3**	**355 L**			**1LE5633-3BC3.-....**	**116000.–**
400	**IE3**	**355 L**			**1LE5633-3BC4.-....**	**124000.–**
8-pole: 750 rpm at 50 Hz						
160	**IE3**	**315 L**	**1LE5533-3AD7.-....**	**64800.–**	**1LE5633-3AD7.-....**	**66900.–**
200	**IE3**	**315 L**	**1LE5533-3AD8.-....**	**80000.–**	**1LE5633-3AD8.-....**	**82300.–**
250	**IE3**	**355 S**			**1LE5633-3BD1.-....**	**107000.–**
315	**IE3**	**355 M**			**1LE5633-3BD2.-....**	**132000.–**

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Overview

Category	**Motors with IE3 Premium Efficiency** (continued)
Series version	**Cast-iron series 1LE5533**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	400 ... 450
Rated power at 50 Hz	355 ... 1000 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	1790 ... 8100 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3ZB

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 2/10, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No.	Base price
kW		FS		EUR
2-pole: 3000 rpm at 50 Hz				
560	**IE3**	**400**	**1LE5533-4AA3.-....**	**129000.–**
630	**IE3**	**400**	**1LE5533-4AA5.-....**	**145000.–**
710	**IE3**	**400**	**1LE5533-4AA7.-....**	**164000.–**
800	**IE3**	**450**	**1LE5533-4BA3.-....**	**190000.–**
900	**IE3**	**450**	**1LE5533-4BA5.-....**	**210000.–**
1000	**IE3**	**450**	**1LE5533-4BA7.-....**	**238000.–**
4-pole: 1500 rpm at 50 Hz				
560	**IE3**	**400**	**1LE5533-4AB3.-....**	**120000.–**
630	**IE3**	**400**	**1LE5533-4AB5.-....**	**137000.–**
710	**IE3**	**400**	**1LE5533-4AB7.-....**	**152000.–**
800	**IE3**	**450**	**1LE5533-4BB3.-....**	**174000.–**
900	**IE3**	**450**	**1LE5533-4BB5.-....**	**197000.–**
1000	**IE3**	**450**	**1LE5533-4BB7.-....**	**220000.–**
6-pole: 1000 rpm at 50 Hz				
450	**IE3**	**400**	**1LE5533-4AC3.-....**	**134000.–**
500	**IE3**	**400**	**1LE5533-4AC5.-....**	**145000.–**
560	**IE3**	**400**	**1LE5533-4AC7.-....**	**165000.–**
630	**IE3**	**450**	**1LE5533-4BC3.-....**	**186000.–**
710	**IE3**	**450**	**1LE5533-4BC5.-....**	**207000.–**
800	**IE3**	**450**	**1LE5533-4BC7.-....**	**231000.–**
8-pole: 750 rpm at 50 Hz				
355	**IE3**	**400**	**1LE5533-4AD3.-....**	**134000.–**
400	**IE3**	**400**	**1LE5533-4AD5.-....**	**145000.–**
450	**IE3**	**400**	**1LE5533-4AD7.-....**	**174000.–**
500	**IE3**	**450**	**1LE5533-4BD3.-....**	**195000.–**
560	**IE3**	**450**	**1LE5533-4BD5.-....**	**215000.–**
630	**IE3**	**450**	**1LE5533-4BD7.-....**	**247000.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE3 Super Premium Efficiency**
Series version	**Cast-iron series 1LE5583/1LE5683 Basic/Performance Line**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	315 L ... 355 L
Rated power at 50 Hz	200 ... 500 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	800 ... 3847 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 2/10, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
250	**IE3**	**315 L**	**1LE5583-3AA6.-....**	**64500.–**	**1LE5683-3AA6.-....**	**66500.–**
315	**IE3**	**315 L**	**1LE5583-3AA7.-....**	**81300.–**	**1LE5683-3AA7.-....**	**83800.–**
355	**IE3**	**355 L**			**1LE5683-3BA3.-....**	**94800.–**
400	**IE3**	**355 L**			**1LE5683-3BA4.-....**	**108000.–**
500	**IE3**	**355 L**			**1LE5683-3BA5.-....**	**135000.–**
4-pole: 1500 rpm at 50 Hz						
250	**IE3**	**315 L**	**1LE5583-3AB6.-....**	**60500.–**	**1LE5683-3AB6.-....**	**62400.–**
315	**IE3**	**315 L**	**1LE5583-3AB7.-....**	**76500.–**	**1LE5683-3AB7.-....**	**78700.–**
355	**IE3**	**355 L**			**1LE5683-3BB3.-....**	**89000.–**
400	**IE3**	**355 L**			**1LE5683-3BB4.-....**	**101000.–**
500	**IE3**	**355 L**			**1LE5683-3BB5.-....**	**124000.–**
6-pole: 1000 rpm at 50 Hz						
200	**IE3**	**315 L**	**1LE5583-3AC7.-....**	**71400.–**	**1LE5683-3AC7.-....**	**72900.–**
250	**IE3**	**315 L**	**1LE5583-3AC8.-....**	**89900.–**	**1LE5683-3AC8.-....**	**91800.–**
315	**IE3**	**355 L**			**1LE5683-3BC2.-....**	**119000.–**
355	**IE3**	**355 L**			**1LE5683-3BC3.-....**	**126000.–**
400	**IE3**	**355 L**			**1LE5683-3BC4.-....**	**138000.–**

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Overview

Category	**Motors with IE3 Premium Efficiency** (continued)
Series version	**Cast-iron series 1LE5583**
Cooling	Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	400 ... 450
Rated power at 50 Hz	355 ... 1000 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	1740 ... 7700 Nm
Efficiency	IE3 Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3ZB

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 2/10, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No.	Base price
kW		FS		EUR
2-pole: 3000 rpm at 50 Hz				
560	**IE3**	**400**	**1LE5583-4AA3.-....**	**150000.–**
630	**IE3**	**400**	**1LE5583-4AA5.-....**	**168000.–**
710	**IE3**	**400**	**1LE5583-4AA7.-....**	**191000.–**
800	**IE3**	**450**	**1LE5583-4BA3.-....**	**215000.–**
900	**IE3**	**450**	**1LE5583-4BA5.-....**	**235000.–**
1000	**IE3**	**450**	**1LE5583-4BA7.-....**	**269000.–**
4-pole: 1500 rpm at 50 Hz				
560	**IE3**	**400**	**1LE5583-4AB3.-....**	**140000.–**
630	**IE3**	**400**	**1LE5583-4AB5.-....**	**157000.–**
710	**IE3**	**400**	**1LE5583-4AB7.-....**	**177000.–**
800	**IE3**	**450**	**1LE5583-4BB3.-....**	**195000.–**
900	**IE3**	**450**	**1LE5583-4BB5.-....**	**222000.–**
1000	**IE3**	**450**	**1LE5583-4BB7.-....**	**248000.–**
6-pole: 1000 rpm at 50 Hz				
450	**IE3**	**400**	**1LE5583-4AC3.-....**	**150000.–**
500	**IE3**	**400**	**1LE5583-4AC5.-....**	**162000.–**
560	**IE3**	**400**	**1LE5583-4AC7.-....**	**185000.–**
630	**IE3**	**450**	**1LE5583-4BC3.-....**	**211000.–**
710	**IE3**	**450**	**1LE5583-4BC5.-....**	**233000.–**
800	**IE3**	**450**	**1LE5583-4BC7.-....**	**261000.–**
8-pole: 750 rpm at 50 Hz				
355	**IE3**	**400**	**1LE5583-4AD3.-....**	**154000.–**
400	**IE3**	**400**	**1LE5583-4AD5.-....**	**168000.–**
450	**IE3**	**400**	**1LE5583-4AD7.-....**	**201000.–**
500	**IE3**	**450**	**1LE5583-4BD3.-....**	**221000.–**
560	**IE3**	**450**	**1LE5583-4BD5.-....**	**244000.–**
630	**IE3**	**450**	**1LE5583-4BD7.-....**	**280000.–**

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SSIMOTICS SD Standard Motors next generation
Article No. supplements and special versions

Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text, if required	Frame size								Motor version
				315	355	400		450				
				1LE55.4 Basic Line		1LE5534						IEC IE4
						-4AA3 -4AA5	-4AB3 -4AB5 -4AC3 -4AC5 -4AC7 -4AD3 -4AD5 -4AD7	-4AA7	-4AB7	-4BA3 -4BA5 -4BA7	-4BB3 -4BB5 -4BB7 -4BC5 -4BC7	-4BC3 -4BD3 -4BD5 -4BD7
				1LE56.4 Performance Line								
				1LE55.3 Basic Line		1LE55.3						IE3
						-4AA3 -4AA5	-4AB3 -4AB5 -4AC3 -4AC5 -4AC7 -4AD3 -4AD5 -4AD7	-4AA7	-4AB7	-4BA3 -4BA5 -4BA7	-4BB3 -4BB5 -4BB7 -4BC5 -4BC7	-4BC3 -4BD3 -4BD5 -4BD7
1LE5 . . . - . . . . ■ - ■ . . .			Order code	1LE56.3 Performance Line								
Voltage at 50 Hz or 60 Hz												
50 Hz 400 VΔ/690 VY, 60 Hz 460 VΔ [1]	3	4	–	□	□	□	□	O. R.	O. R.	O. R.	O	□
50 Hz 500 VΔ	4	0	–	O	O	O	O	O	O	O	O	O
60 Hz 575 VΔ				–	–	O	O	□	□	O. R.	□	O
50 Hz 690 VΔ	4	7	–	210.–	210.–	O	O	□	□	□	□	O
50 Hz 380 VΔ/660 VY, 60 Hz 440 VΔ [1]	3	3	–	412.–	630.–	O. R.	894.–	O. R.	O. R.	O. R.	O. R.	999.–
50 Hz 415 VΔ, 60 Hz 480 VΔ	3	5	–	412.–	630.–	O. R.	894.–	O. R.	O. R.	O. R.	O. R.	999.–
60 Hz 380 VΔ/660 VY [1]	3	0	–	412.–	630.–	–	–	–	–	–	–	–
60 Hz 400 VΔ/690 VY [1]	3	1	–	412.–	630.–	–	–	–	–	–	–	–
50 Hz 600 VΔ, 60 Hz 690 VΔ	4	4	–	–	–	O. R.	894.–	O. R.	894.–	O. R.	999.–	999.–
50 Hz 660 VΔ	4	6	–	–	–	894.–	894.–	894.–	894.–	999.–	999.–	999.–
Voltage at 60 Hz and required power												
380 VΔ/660 VY; 50 Hz power	9	0	M2B	412.–	630.–	–	–	–	–	–	–	–
380 VΔ; 50 Hz power				412.–	630.–	–	–	–	–	–	–	–
440 VΔ; 50 Hz power	9	0	M2D	412.–	630.–	894.–	894.–	O. R.	O. R.	O. R.	O. R.	999.–
440 VΔ; 60 Hz power	9	0	M1D	–	–	894.–	894.–	O. R.	O. R.	O. R.	O. R.	969.–
460 VΔ; 50 Hz power	9	0	M2F	412.–	630.–	894.–	894.–	O. R.	O. R.	O. R.	999.–	999.–
460 VΔ; 60 Hz power	9	0	M1F	–	–	894.–	894.–	O. R.	O. R.	O. R.	999.–	999.–
575 VΔ; 50 Hz power	9	0	M2H	412.–	630.–	894.–	894.–	894.–	894.–	999.–	999.–	999.–
575 VΔ; 60 Hz power	9	0	M1H	–	–	894.–	894.–	894.–	894.–	O. R.	999.–	999.–
400 VΔ/690 VY; 50 Hz power	9	0	M2J	630.–	630.–	O. R.	894.–	O. R.	O. R.	O. R.	999.–	999.–
400 VΔ; 50 Hz power				630.–	630.–	–	–	–	–	–	–	–
400 VΔ/690 VY; 60 Hz power	9	0	M1J	–	–	O. R.	894.–	O. R.	O. R.	O. R.	999.–	999.–
480 VΔ; 50 Hz power	9	0	M2L	412.–	630.–	894.–	894.–	O. R.	O. R.	O. R.	O. R.	999.–
480 VΔ; 60 Hz power	9	0	M1L	–	–	894.–	894.–	O. R.	O. R.	O. R.	O. R.	999.–
Non-standard voltage and/or frequencies												
Non-standard winding [2] [3]	9	0	M1Y • and customer specifications	1010.–	1150.–	4930.–	4930.–	4930.–	4930.–	5790.–	5790.–	5790.–

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – Additional plain text is required.
O. R. Possible on request

[1] Without additional measures not possible for converter operation at 690 VY and 660 VΔ (valid for 1LE5504, 1LE5604, 1LE5534, 1LE5634, 1LE5503, 1LE5603, 1LE5533 and 1LE5633).

[2] Plain text must be specified in the order: Voltage between 200 and 690 V (voltages outside the range are available on request), frequency, circuit, rated power.

[3] 2-pole version, frame size 450 for 60 Hz operation on request.

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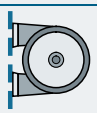
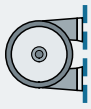
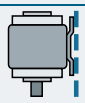
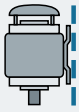
Selection and ordering data

Types of construction		Article No. supplement		Frame size				Motor version	
		Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**315**	**355**	**400**	**450**		
				1LE55.4 Basic Line		**1LE5534**		IEC	IE4
				1LE56.4 Performance Line					
				1LE55.3 Basic Line		**1LE55.3**			IE3
				1LE56.3 Performance Line					
1LE5 . . . - . . . . . - .		■ **. . (-Z)**	Order code						
Without flange									
IM B3 [1) 2)]		**A**	**–**	□	□	□	□		
IM B6 [2)]		**T**	**–**	O	O	–	–		
IM B7 [2)]		**U**	**–**	O	O	–	–		
IM B8 [2)]		**V**	**–**	O	O	–	–		
IM V6 [2) 7)]		**D**	**–**	O	O	O. R.	O. R.		
IM V5 without protective cover [2) 7)]		**C**	**–**	O	O	O. R.	O. R.		
IM V5 with protective cover [2) 3) 4) 7)]		**C**	**H00**	766.–	894.–	O. R.	O. R.		

For legends and footnotes, see Page 2/12.

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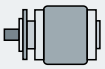
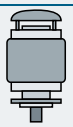
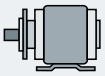
SIMOTICS SD Standard Motors next generation
Article No. supplements and special versions

Types of construction · Cast-iron series 1LE55 Basic Line, 1LE56 Performance Line, 1LE55 Add and 1LE55 Pro

Types of construction		Article No. supplement		Frame size				Motor version	
		Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**315**	**355**	**400**	**450**		
				1LE55.4 Basic Line		**1LE5534**		IEC	IE4
				1LE56.4 Performance Line					
				1LE55.3 Basic Line		**1LE55.3**			IE3
				1LE56.3 Performance Line					
1LE5 . . . - . . . . . - .		■ **. . (-Z)**	Order code						
With flange		**DIN EN 50347 DIN 42948**		**FF740 A 800**	**FF840 A 900**	**FF940 A 1000**	**FF1080 A 1150**		
IM B5 [2) 5) 6)]		**F**	**–**	1050.–	4200.–	4300.–	5780.–		
IM V1 without protective cover [2) 7)]		**G**	**–**	1060.–	4200.–	4300.–	5780.–		
IM V1 with protective cover [2) 3) 4) 7)]		**G**	**H00**	1826.–	5094.–	O. R.	O. R.		
IM V3 [4)]		**H**	**–**	1050.–	4200.–	–	–		
IM B35 [3)]		**J**	**–**	1200.–	4420.–	4520.–	5620.–		

□ Standard version
○ Without additional charge
O. R. Possible on request
– Not possible

1) The types of construction IM B6/7/8, IM V6 and IM V5 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B3 is then stamped on the rating plate. With type of construction IM V5 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

2) The type of construction is stamped on the rating plate. If mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly.

3) In combination with an encoder it is not necessary to order the protective cover (order code **H00**), as this is delivered as a protection for the encoder as standard. In this case the protective cover is standard version (without additional charge).

4) The "Standard cylindrical shaft extension (second shaft extension)" option (order code **L05**) is not possible.

5) The types of construction IM V3 and IM V1 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B5 is then stamped on the rating plate. With type of construction IM V1 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

6) For machines, type of construction IM B5, provide an additional support foot at the NDE. The support foot is not included in the scope of supply. Use an appropriately sized support foot with the appropriate rigidity. The support foot must be able to support the total weight of the machine.

7) Not possible for 2-pole 1LE55..-4BA motors.

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Selection and ordering data

Motor protection	Article No. supplement		Frame size				Motor version	
	Motor protection code 15th position of the Article No.	Additional identification code with order code and plain text if required	**315**	**355**	**400**	**450**		
			1LE55.4 Basic Line		**1LE5534**		IEC	IE4
			1LE56.4 Performance Line					
			1LE55.3 Basic Line		**1LE55.3**			IE3
			1LE56.3 Performance Line					
1LE5 . . . - . . . . . - . . .	■ .	Order code						
Motor protection								
Without (Standard) [1]	**A**	**–**	□	□	□	□	Only for:	1LE55.4, 1LE55.3
1 or 3 PTC thermistors – for tripping (2 terminals) [1] [2]	**B**	**–**	406.–	406.–	935.–	935.–	Only for:	1LE55.4, 1LE55.3
			□	□			Only for:	1LE56.4, 1LE56.3
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [2]	**C**	**–**	679.–	679.–	1040.–	1040.–		
1 temperature sensor KTY84-130 (2 terminals) [2]	**F**	**–**	885.–	885.–	1250.–	1250.–		
2 temperature sensors KTY84-130 (4 terminals) [2]	**G**	**–**	1500.–	1500.–	1960.–	1960.–		
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**H**	**–**	1670.–	1670.–	1670.–	1670.–		
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals)	**J**	**–**	2470.–	2470.–	2470.–	2470.–		
1 Pt1000 resistance thermometer (2 terminals)	**K**	**–**	885.–	885.–	1250.–	1250.–		
2 Pt1000 resistance thermometers (4 terminals)	**L**	**–**	1500.–	1500.–	1960.–	1960.–		
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**P**	**–**	1340.–	1340.–	1340.–	1340.–		
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals)	**Q**	**–**	2010.–	2010.–	2010.–	2010.–		
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals)	**R**	**–**	2960.–	2960.–	2960.–	2960.–		
3 bimetal sensors (NC contact) for tripping (2 terminals) [2]	**Z**	**Q3A**	419.–	419.–	1250.–	1250.–		
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals) [2]	**Z**	**Q9A**	683.–	683.–	2830.–	2830.–		

□ Standard version
– Not possible

Note:

Options are available specifically for bearing protection –
For order codes and descriptions, see from Page 2/15.

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

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

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Selection and ordering data

Terminal box position	Article No. supplement: Terminal box position code 16th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size: 315	355	400	450	Motor version: IEC	IE4	IE3
			1LE55.4 Basic Line		1LE5534				
			1LE56.4 Performance Line						
			1LE55.3 Basic Line		1LE55.3				
			1LE56.3 Performance Line						
1LE5 . . . - . . . . . - . . . ■		Order code							
Terminal box position									
Terminal box base left with terminal box at the top	**0**	**–**	630.–	630.–	840.–	840.–			
Terminal box base right with terminal box at the top	**1**	**–**	630.–	630.–	840.–	840.–			
Terminal box base left with oblique terminal box 45°	**2**	**–**	O	O	O	O			
Terminal box base right with oblique terminal box 45°	**3**	**–**	□	□	□	□			
Terminal box right-hand side [1]	**5**	**–**	630.–	630.–	840.–	840.–			
Terminal box left-hand side [1]	**6**	**–**	630.–	630.–	840.–	840.–			
Terminal box left-hand side (base below) [2]	**9**	**R5L**	630.–	630.–	840.–	840.–			
Terminal box right-hand side (base below) [2]	**9**	**R6R**	630.–	630.–	840.–	840.–			
Terminal box bottom left [2] [3]	**9**	**R7L**	630.–	630.–	840.–	840.–			
Terminal box bottom right [2] [3]	**9**	**R7R**	630.–	630.–	840.–	840.–			

□ Standard version
O Without additional charge

Note:
On the motors
1LE5583-4AA3,
1LE5583-4AA5,
1LE5583-4BA3,
1LE5583-4BA5,
1LE5583-4BA7,
1LE5583-4AC7,
1LE5583-4BC3,
1LE5583-4BD7,
terminal box type 1XB1631 is mounted.

[1] For types of construction with feet and flange-mounted with feet, cast feet are standard. Screwed-on feet are available on request.

[2] Only possible in combination with IM B5 type of construction.

[3] Only possible for Frame sizes 400 and 450 in combination with IM V1 type of construction.

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 315	355	400	450	Motor version IEC	IE4 / IE3
		1LE55.4 Basic Line		**1LE5534**		IEC	IE4
		1LE56.4 Performance Line					
		1LE55.3 Basic Line		**1LE55.3**			IE3
		1LE56.3 Performance Line					
1LE5 . . . - . . . . . - . . . . -Z	Order code						
Motor protection							
1 or 3 PTC thermistors – for tripping (2 terminals) [1]	**Q11**	406.–	406.–	935.–	935.–	Not for:	Combination with motor protection code B (15th position of the Article No.)
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [1]	**Q12**	679.–	679.–	1040.–	1040.–	Not for:	Combination with motor protection code C (15th position of the Article No.)
1 temperature sensor KTY84-130 (2 terminals) [1]	**Q23**	885.–	885.–	1250.–	1250.–	Not for:	Combination with motor protection code F (15th position of the Article No.)
2 temperature sensors KTY84-130 (4 terminals) [1]	**Q25**	1500.–	1500.–	1960.–	1960.–	Not for:	Combination with motor protection code G (15th position of the Article No.)
3 bimetal sensors (NC contact) for tripping (2 terminals)	**Q31**	453.–	453.–	1250.–	1250.–		
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals)	**Q32**	801.–	801.–	2410.–	2410.–		
3 bimetal sensors (NC contact) for tripping (6 terminals)	**Q33**	463.–	463.–	1460.–	1460.–		
6 bimetal sensors (NC contact) for alarm and tripping (12 terminals)	**Q34**	811.–	811.–	2830.–	2830.–		
1 Pt1000 resistance thermometer (2 terminals)	**Q35**	885.–	885.–	1250.–	1250.–		
2 Pt1000 resistance thermometers (4 terminals)	**Q36**	1500.–	1500.–	1960.–	1960.–		
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals) [1]	**Q60**	1670.–	1670.–	1670.–	1670.–	Not for:	Combination with motor protection code H (15th position of the Article No.)
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals) [23]	**Q61**	2470.–	2470.–	2470.–	2470.–	Not for:	Combination with motor protection code J (15th position of the Article No.)
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**Q62**	1340.–	1340.–	1340.–	1340.–		
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals)	**Q63**	2010.–	2010.–	2010.–	2010.–		
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals)	**Q64**	2960.–	2960.–	2960.–	2960.–		
2 Pt100 screw-in thermometers in basic circuit for bearings (2 terminals)	**Q72**	1660.–	1660.–	1660.–	1660.–		
2 Pt100 screw-in thermometers in 3-wire circuit for bearings (6 terminals)	**Q78**	2100.–	2100.–	2100.–	2100.–		
2 double Pt100 screw-in thermometers in 3-wire circuit for bearings (12 terminals)	**Q79**	2420.–	2420.–	2950.–	2950.–	Not for:	Combination with order codes F40, F41
Motor connection and terminal box							
External grounding		–	–	□	□		
Terminal box on NDE	**H08**	1200.–	1260.–	2710.–	2710.–		
Second external grounding	**H70**	15.80	15.80	15.80	15.80		
Subsequently rotatable main terminal box	**R09**	–	–	691.–	806.–		
Rotation of the terminal box through 90°, entry from DE [38]	**R10**	124.–	124.–	124.–	124.–	Not for:	Combination with type of construction letters F, G, H, J (14th position of the Article No.)

For legends, see Page 2/22 and for footnotes, see Page 2/23.

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Article No. supplements and special versions

Options · Cast-iron series 1LE55 Basic Line, 1LE56 Performance Line, 1LE55 Add and 1LE55 Pro

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 315	355	400	450	Motor version	
		1LE55.4 Basic Line		**1LE5534**		IEC	IE4
		1LE56.4 Performance Line					
		1LE55.3 Basic Line		**1LE55.3**			IE3
		1LE56.3 Performance Line					
1LE5 . . . - . . . . . - . . . . -Z	Order code						
Motor connection and terminal box (continued)							
Rotation of the terminal box through 90°, entry from NDE	**R11**	124.–	124.–	124.–	124.–		
Rotation of the terminal box through 180°	**R12**	124.–	124.–	124.–	124.–		
One EMC cable gland	**R14**	529.–	1260.–	–	–	Not for:	Combination with order codes R51, R53
One metal cable gland	**R15**	236.–	525.–	–	–	Not for:	Combination with order codes R51, R53
EMC cable gland, maximum configuration	**R16**	1090.–	2100.–	4750.–	4750.–	Not for:	Combination with order codes R51, R53
Stud terminal for cable connection, accessories pack (3 items)	**R17**	189.–	232.–	–	–	Not for:	Combination with order codes R51, R53
One metal cable gland, maximum configuration	**R18**	417.–	630.–	3270.–	3270.–	Not for:	Combination with order codes R51, R53
Saddle terminal for connection without cable lug, accessories pack	**R19**	735.–	1580.–	1580.–	1580.–	Not for:	Combination with order codes R21, R23, R24
3 cables protruding, 1.5 m long	**R21**	O. R.	O. R.	O. R.	O. R.	Not for:	Combination with order codes R17, R19, R50
6 cables protruding, 1.5 m long	**R23**	O. R.	O. R.	O. R.	O. R.	Not for:	Combination with order codes R17, R19, R50
6 cables protruding, 3 m long	**R24**	O. R.	O. R.	O. R.	O. R.	Not for:	Combination with order codes R17, R19, R50
Larger terminal box [39]	**R50**	2230.–	–	10400.–	10400.–	Not for:	Combination with order codes R21, R23, R24
Terminal box without cable entry opening	**R51**	O	O	–	–	Not for:	Combination with order codes R14, R15, R16, R18
Drilled removable entry plate	**R52**	510.–	630.–	□	□		
Undrilled removable entry plate	**R53**	510.–	630.–	O	O	Not for:	Combination with order codes R14, R15, R16, R18 (frame sizes 315 and 355)
Cast-iron auxiliary terminal box (small)	**R62**	284.–	315.–	533.–	533.–		
Larger cast-iron terminal box	**R63**	630.–	630.–	2070.–	2070.–		
Stainless steel auxiliary terminal box (large)	**R65**	–	–	2030.–	2030.–		
Silicon-free version [30]	**R74**	357.–	357.–	3470.–	3470.–		
Non-standard threaded through hole (NPT or G thread) [2] [30]	**Y61** • and customer specifications	670.–	788.–	1580.–	1580.–		
Windings and insulation							
Temperature class 155 (F), utilized acc. to 155 (F), with service factor [33]	**N01**	109.–	109.–	□	□	Not for:	1LE5583, 1LE5683 (frame sizes 315 and 355)
Temperature class 155 (F), utilized acc. to 155 (F), with increased power [33]	**N02**	109.–	109.–	332.–	332.–	Not for:	1LE5583, 1LE5683 (frame sizes 315 and 355)
Temperature class 155 (F), utilized acc. to 155 (F), with increased coolant temperature [33]	**N03**	109.–	109.–	332.–	332.–	Not for:	1LE5583, 1LE5683 (frame sizes 315 and 355)
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 % [40] [43]	**N05**	109.–	109.–	109.–	109.–		
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 % [40] [43]	**N06**	109.–	109.–	109.–	109.–		
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 % [40] [43]	**N07**	109.–	109.–	109.–	109.–		

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Options · Cast-iron series 1LE55 Basic Line, 1LE56 Performance Line, 1LE55 Add and 1LE55 Pro

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 315	355	400	450	Motor version	
		1LE55.4 Basic Line		**1LE5534**		IEC	IE4
		1LE56.4 Performance Line					
		1LE55.3 Basic Line		**1LE55.3**			IE3
		1LE56.3 Performance Line					
1LE5 . . . - . . . . . - . . . . -Z	Order code						
Windings and insulation (continued)							
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 % [40) 43)]	**N08**	1010.–	109.–	109.–	109.–		
Temperature class 180 (H) [41)]	**N10**	1790.–	2320.–	4570.–	6220.–		
Temperature class 180 (H) at rated power and max. CT 60 °C [4)]	**N11**	2200.–	2730.–	O. R.	O. R.		
Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N30**	1350.–	1470.–	4780.–	5300.–		
Increased air humidity/temperature with 60 to 100 g water per m^3 of air	**N31**	1820.–	2000.–	5300.–	6040.–		
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude [33)]	**Y50** • and spec. power, CT .. °C or IA .... m above sea level	1510.–	2100.–	2630.–	3150.–	Not for:	1LE5583, 1LE5683 (frame sizes 315 and 355)
Temperature class 155 (F), utilized according to 155 (F), other requirements [33)]	**Y52** • and spec. power, CT .. °C or IA .... m above sea level	109.–	109.–	332.–	332.–		
Temperature class 180 (H), utilized according to 155 (F) [33)]	**Y75** • and spec. power, CT .. °C or IA .... m above sea level	2460.–	2940.–	O. R.	O. R.		
Colors and paint finish							
Standard finish C2 in RAL 7030 stone gray		□	□	□	□	Only for:	Basic Line, Add und Pro
Unpainted (only cast-iron parts primed)	**S00**	O	O	O	O		
Unpainted, only primed	**S01**	83.30	83.30	315.–	315.–		
Special finish C3		□	□	1360.–	1720.–	Only for:	Performance Line
	S02	305.–	–	1360.–	1720.–	Only for:	Basic Line, Add and Pro
Special finish sea air resistant C4 [42)]	**S03**	830.–	894.–	2610.–	2990.–		
Special paint for use offshore C5 [42)]	**S04**	8070.–	8510.–	12600.–	14200.–		
Internal coating	**S05**	137.–	158.–	1200.–	1420.–		
Top coat polyurethane [27)]	**S06**	795.–	840.–	□	□		
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53** • and finish RAL....	263.–	315.–	420.–	525.–		
Finish in special RAL colors: For RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56** • and finish RAL....	757.–	918.–	1840.–	2330.–		
Modular technology – Basic versions [5)]							
Mounting of holding brake (standard assignment) [5) 6) 25) 26) 30)]	**F01**	64100.–	99900.–	–	–	Only for:	4-pole motors
		–	–	63800.–	69400.–	Only for:	Combination with order codes D02, F40, F41, L05, L30, L52
Mounting of separately driven fan [34)]	**F70**	4270.–	5250.–	12300.–	14200.–	Not for:	Combination with order codes L05, Y59 (frame sizes 315 and 355)
Mounting of rotary pulse encoder Kübler Sendix 5020 HTL, 1024 I [5)]	**G11**	1280.–	1950.–	–	–	Not for:	Combination with order codes D02, L05
Mounting of rotary pulse encoder Kübler Sendix 5020 TTL, 1024 I [5)]	**G12**	1860.–	O. R.	–	–	Not for:	Combination with order codes D02, L05

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Options · Cast-iron series 1LE55 Basic Line, 1LE56 Performance Line, 1LE55 Add and 1LE55 Pro

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 315	355	400	450	Motor version	
		1LE55.4 Basic Line		**1LE5534**		IEC	IE4
		1LE56.4 Performance Line					
		1LE55.3 Basic Line		**1LE55.3**			IE3
		1LE56.3 Performance Line					
1LE5 . . . - . . . . . - . . . . -Z	Order code						
Modular technology – Additional versions							
Brake supply voltage 24 V DC	**F10**	70.60	70.60	–	–	Only for:	4-pole motors
Brake supply voltage 230 V AC, 50/60 Hz	**F11**	O	O	–	–	Only for:	4-pole motors
		–	–	O	O	Only for:	Combination with order codes D02, F40, F41, L05, L30, L52
Brake supply voltage 400 V AC, 50/60 Hz	**F12**	70.60	70.60	–	–	Only for:	4-pole motors
		–	–	9690.–	52000.–	Only for:	Combination with order codes D02, F40, F41, L05, L30, L52
Reverse running stop, reverse movement left locked, rotating direction right	**F40**	9560.–	11500.–	–	–	Not for:	Combination with order codes F01, F10, F11, F12
Reverse running stop, reverse movement right locked, rotating direction left	**F41**	9560.–	11500.–	–	–	Not for:	Combination with order codes F01, F10, F11, F12
Special technology [5]							
Mounting of LL 861 900 220 rotary pulse encoder [5] [9]	**G04**	4200.–	6200.–	6200.–	6200.–	Not for:	Combination with order codes D02, L05 (frame sizes 315 and 355)
Mounting of HOG 9 DN 1024 I rotary pulse encoder [5] [9]	**G05**	4940.–	6620.–	6620.–	6620.–	Not for:	Combination with order codes D02, L05 (frame sizes 315 and 355)
Mounting of HOG 10 D 1024 I rotary pulse encoder [5] [9]	**G06**	5990.–	6200.–	6200.–	6200.–	Not for:	Combination with order codes D02, L05 (frame sizes 315 and 355)
Mounting of POG 10 D rotary pulse encoder (only in combination with separately driven fan or brake) [5] [10]	**G07**	6620.–	7040.–	–	–	Not for:	Combination with order codes D02, L05
Mounting of POG 9 rotary pulse encoder (only in combination with separately driven fan or brake) [5] [10]	**G08**	18000.–	18000.–	–	–	Not for:	Combination with order codes D02, L05
Mounting of rotary pulse encoder HOG 10 DN 1024 I, terminal box moisture protection [5]	**G15**	5940.–	6300.–	9760.–	9760.–	Not for:	Combination with order codes D02, L05 (frame sizes 315 and 355)
Mounting of rotary pulse encoder HOG 10 DN 1024 I, terminal box dust protection [5]	**G16**	5940.–	6300.–	9760.–	9760.–	Not for:	Combination with order codes D02, L04, L05 (frame sizes 315 and 355)
Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	**G21**	3430.–	3770.–	–	–		
Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	**G22**	3880.–	4240.–	–	–		
Mounting of HOGS100S-B76.626.01024.1, SIL-2 rotary pulse encoder	**G25**	17400.–	18700.–	18300.–	18300.–		
Mounting of LL FSI 862-184560-1024, SIL-2 rotary pulse encoder	**G27**	20200.–	21600.–	21200.–	21200.–		
Mounting of XSI 850 Overspeed rotary pulse encoder	**G93**	6220.–	6250.–	6300.–	6350.–		
Mounting of XHI 861 Overspeed rotary pulse encoder	**G94**	6220.–	6250.–	6300.–	6350.–		
Mounting of a special type of rotary pulse encoder	**Y70** • and customer specifications	–	–	O. R.	O. R.		
Mounting of rotary pulse encoder HOG 10 DN 1024 I + FSL, (integrated centrifugal switch, speed .... rpm), terminal box moisture protection [5]	**Y74** • and spec. speed .... rpm	9020.–	11500.–	13900.–	13900.–	Not for:	Combination with order codes D02, L05 (frame sizes 315 and 355)
Mounting of rotary pulse encoder HOG 10 DN 1024 I + FSL, (integrated centrifugal switch, speed .... rpm), terminal box dust protection [5]	**Y76** • and spec. speed .... rpm	9020.–	11500.–	13900.–	13900.–	Not for:	Combination with order codes D02, L05 (frame sizes 315 and 355)
Mounting of rotary pulse encoder HOG 10 DN 1024 I + ESL 93, (integrated electronic speed switch, speed .... rpm), terminal box dust protection [5]	**Y79** • and spec. speed (max. 3) .... rpm	15800.–	18900.–	20000.–	20000.–	Not for:	Combination with order codes D02, L05 (frame sizes 315 and 355)

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Options · Cast-iron series 1LE55 Basic Line, 1LE56 Performance Line, 1LE55 Add and 1LE55 Pro

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 315	355	400	450	Motor version	
		1LE55.4 Basic Line		1LE5534		IEC	IE4
		1LE56.4 Performance Line					
		1LE55.3 Basic Line		1LE55.3			IE3
		1LE56.3 Performance Line					
1LE5 . . . - . . . . . - . . . . -Z	Order code						
Mechanical design and degrees of protection							
Low-noise version for 2-pole motors with clockwise direction of rotation	**F77**	2470.–	2730.–	–	–	Only for:	2-pole motors
		–	–	□	□	Only for:	Combination with order codes L05, F90
Low-noise version for 2-pole motors with counter-clockwise direction of rotation	**F78**	2470.–	2730.–	–	–	Only for:	2-pole motors
		–	–	O	O	Only for:	Combination with order codes L05, F90
Prepared for mounted components, centering hole only	**G40**	–	–	□	□		
Prepared for mountings with D12 shaft	**G41**	924.–	924.–	–	–	Not for:	Combination with order codes D02, L05
Prepared for mountings with D16 shaft	**G42**	924.–	924.–	4520.–	4520.–	Not for:	Combination with order codes D02, L05 (frame sizes 315 and 355)
Mechanical protection for encoders [7) 9)]	**G43**	212.–	212.–	2150.–	2570.–	Not for:	Combination with order codes D02, L05 (frame sizes 315 and 355)
Protective cover [7) 9) 11)]	**H00**	766.–	894.–	2150.–	2570.–	Not for:	Combination with order codes D02, L05 (frame sizes 315 and 355)
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994	**H02**	694.–	788.–	–	–		
Condensation drainage holes		□	□	□	□		
Rust-resistant screws (externally)	**H07**	281.–	315.–	1370.–	1370.–		
IP66 degree of protection	**H19**	1419.–	2164.–	–	–		
IP65 degree of protection [13)]	**H20**	676.–	694.–	9240.–	11100.–		
IP54 degree of protection [36)]	**H21**	840.–	840.–	–	–		
IP56 degree of protection [14)]	**H22**	735.–	1470.–	2020.–	2700.–		
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar [12) 24)]	**H23**	478.–	557.–	–	–	Not for:	Combination with type of construction letters T, U, V (14th position of the Article No.)
Viton sealing ring	**H25**	137.–	232.–	473.–	735.–	Not for:	Combination with order codes D02, D03, D04 (frame sizes 315 and 355)
Increased corrosion protection for external components [30)]	**H90**	–	–	12600.–	14200.–		
Grounding brush for converter operation [32) 46)]	**L52**	4730.–	4730.–	7350.–	7350.–	Not for:	Combination with order codes F01, F10, F11, F12 (frame sizes 315 and 355)
Coolant temperature and installation altitude							
Coolant temperature –50 to +40 °C (IP54 degree of protection) [15) 35)]	**D02**	6400.–	6830.–	71900.–	77600.–	Not for:	Combination with order codes F01, F10, F11, F12, G04, G05, G06, G07, G11, G12, G15, G16; H25, Y74, Y76, Y79 (frame sizes 315 and 355)
Coolant temperature –40 to +40 °C [15)]	**D03**	2630.–	2840.–	16700.–	18400.–	Not for:	Combination with order code H25 (frame sizes 315 and 355)
Coolant temperature –30 to +40 °C [15)]	**D04**	2440.–	2630.–	11200.–	13600.–	Not for:	Combination with order code H25 (frame sizes 315 and 355)
Designs in accordance with standards and specifications							
VIK version [46)]	**C02**	–	–	O. R.	O. R.		
Motor without CE marking for export outside EEA (see EU Directive 640/2009)	**D22**	O	O	–	–		
Motor exclusively according to the Energy-related Products Law, Article 1 dated 27.2.2008, motor to be used in means of transport for persons and goods	**D23**	O	O	–	–		

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 315	355	400	450	Motor version	
		1LE55.4 Basic Line		**1LE5534**		IEC	IE4
		1LE56.4 Performance Line					
		1LE55.3 Basic Line		**1LE55.3**			IE3
		1LE56.3 Performance Line					
1LE5 . . . - . . . . . - . . . . -Z	Order code						
Designs in accordance with standards and specifications (continued)							
Electrical according to NEMA MG1-12 [17]	**D30**	104.–	115.–	□	□	Only for:	1LE5504, 1LE5604, 1LE5503, 1LE5603 (frame sizes 315 and 355)
Design according to UL with "Recognition Mark" [17]	**D31**	996.–	1260.–	□	□	Only for:	1LE5504, 1LE5604, 1LE5503, 1LE5603 (frame sizes 315 and 355)
China Energy Efficiency Label	**D34**	O	O	–	–		
Canadian regulations (CSA) [16]	**D40**	837.–	999.–	□	□	Only for:	1LE5504, 1LE5604, 1LE5503, 1LE5603 (frame sizes 315 and 355)
TR CU product safety certificate EAC for Eurasian customs union	**D47**	735.–	1150.–	1580.–	2100.–		
MEPS Australia	**D70**	1410.–	–	–	–	Only for:	1LE5533, 1LE5633, 1LE5583, 1LE5683
Bearings and lubrication							
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A	**L19**	O	O	O	O		
Located bearing DE	**L20**	1070.–	1260.–	□	□		
Located bearing NDE [37]	**L21**	–	–	1370.–	1470.–		
Bearing design for increased cantilever forces [28] [29]	**L22**	630.–	1470.–	O. R.	O. R.		
Regreasing device		–	–	□	□		
High-temperature grease	**L24**	O. R.	O. R.	–	–		
Drain for used grease		□	□	–	–	Only for:	Performance Line
	L30	189.–	–	O. R.	O. R.	Only for:	Basic Line, Add and Pro
Special version with higher speeds	**L37**	O. R.	O. R.	O. R.	O. R.		
Bearing insulation DE [46]	**L50**	2050.–	2200.–	2630.–	3050.–		
Bearing insulation NDE [32] [46]	**L51**	2050.–	2200.–	2630.–	3050.–		
Measuring nipple for SPM shock pulse measurement for bearing inspection	**Q01**	528.–	564.–	564.–	564.–		
Balance and vibration quantity							
Vibration quantity level A		□	□	□	□		
Vibration quantity level B [18]	**L00**	1710.–	1890.–	4470.–	5300.–	Only for:	4-pole motors (frame sizes 315 and 355)
Half-key balancing (standard)		□	□	□	□		
Balancing without key [44]	**L01**	83.60	89.40	210.–	210.–	Not for:	Combination with order code L04 (frame sizes 315 and 355)
Full-key balancing [44]	**L02**	209.–	209.–	597.–	856.–	Not for:	Combination with order code L04 (frame sizes 315 and 355)
Shaft and rotor							
Shaft extension with standard dimensions, without feather keyway	**L04**	1060.–	1100.–	1150.–	1200.–	Not for:	Combination with order codes L01, L02 (frame sizes 315 and 355)
Standard cylindrical shaft extension (second shaft extension) NDE in accordance with EN 50347	**L05**	519.–	557.–	1580.–	1790.–	Not for:	Combination with order codes F01, F10, F11, F12, F70, F77, F78, G04, G05, G06, G07, G15, G16, G41, G42, G43, H00, Y74, Y76, Y79 (frame sizes 315 and 355)
Standard shaft made of stainless steel (e.g. 1.4021)	**L06**	5890.–	7040.–	–	–		
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	**L07**	565.–	565.–	1100.–	1100.–		
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors	**L08**	827.–	827.–	1370.–	1370.–	Not for:	Combination with type of construction letters A, T, U, V (14th position of the Article No.) (frame sizes 315 and 355)

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Options · Cast-iron series 1LE55 Basic Line, 1LE56 Performance Line, 1LE55 Add and 1LE55 Pro

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 315	355	400	450	Motor version	
		1LE55.4 Basic Line		**1LE5534**		IEC	IE4
		1LE56.4 Performance Line					
		1LE55.3 Basic Line		**1LE55.3**			IE3
		1LE56.3 Performance Line					
1LE5 . . . - . . . . . - . . . . -Z	Order code						
Shaft and rotor (continued)							
Non-standard shaft extension, DE [19]	**Y58 •** and customer specifications	1060.–	1370.–	5100.–	5100.–		
Non-standard shaft extension, NDE [19]	**Y59 •** and customer specifications	1060.–	1370.–	5100.–	5100.–	Not for:	Combination with order code F70 (frame sizes 315 and 355)
Special shaft steel as requested by customer	**Y60 •** and customer specifications	O. R.	O. R.	O. R.	O. R.		
Heating and ventilation							
Sheet metal fan cover		□	□	□	□	Only for:	Performance Line, Add and Pro
	F74	236.–	–	–	–	Only for:	Basic Line
Metal external fan	**F76**	–	–	6320.–	6320.–		
Without external fan and without fan cover	**F90**	118.–	118.–	210.–	210.–	Only for:	Combination with order codes F74, F77, F78 (frame sizes 315 and 355)
Anti-condensation heating for 230 V (2 terminals)	**Q02**	948.–	1200.–	1350.–	1500.–	Not for:	Combination with order codes Q03, Q06
Anti-condensation heating for 115 V (2 terminals)	**Q03**	948.–	1200.–	1350.–	1500.–	Not for:	Combination with order codes Q02, Q06
Anti-condensation heating for 400 V (2 terminals)	**Q06**	2760.–	3350.–	4020.–	4710.–	Not for:	Combination with order codes Q02, Q03
Separately driven fan with non-standard voltage and/or frequency	**Y81 •** and customer specifications	1010.–	1150.–	6170.–	6940.–		
Rating plate and extra rating plates							
Extra rating plate for voltage tolerance [20]	**B07**	109.–	109.–	204.–	204.–		
Second rating plate, loose	**M10**	67.60	67.60	204.–	204.–		
Rating plate, stainless steel	**M11**	69.40	–	–	–	Only for:	Basic Line
	–	□	□	□	□	Only for:	Performance Line, Add and Pro
Extra rating plate with deviating rating plate data [45]	**Y80 •** and customer specifications	210.–	210.–	349.–	349.–		
Extra rating plate with customer specifications	**Y82 •** and customer specifications	109.–	109.–	204.–	204.–		
Additional information on rating plate and on package label (max. 20 charaters)	**Y84 •** and customer specifications	109.–	109.–	204.–	204.–		
Adhesive label, supplied loose (contents: Article No., Serial No.; 2 lines of text)	**Y85 •** and customer specifications	67.60	67.60	–	–		
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 [21]	**Q80**	2.3%	2.3%	2.3%	2.3%		
Extension of the liability for defects by 18 months to a total of 30 months (2.5 years) from delivery [21]	**Q81**	3.4%	3.4%	3.4%	3.4%		
Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery [21]	**Q82**	4.4%	□	4.4%	4.4%		
Extension of the liability for defects by 30 months to a total of 42 months (3.5 years) from delivery [21]	**Q83**	6.2%	6.2%	6.2%	6.2%		
Extension of the liability for defects by 36 months to a total of 48 months (4 years) from delivery [21]	**Q84**	8.0%	8.0%	8.0%	8.0%		
Extension of the liability for defects by 42 months to a total of 60 months (5 years) from delivery [21]	**Q85**	11.2%	11.2%	11.2%	11.2%		

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Article No. supplements and special versions

Options · Cast-iron series 1LE55 Basic Line, 1LE56 Performance Line, 1LE55 Add and 1LE55 Pro

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 315	355	400	450	Motor version	
		1LE55.4 Basic Line		**1LE5534**		IEC	IE4
		1LE56.4 Performance Line					
		1LE55.3 Basic Line		**1LE55.3**			IE3
		1LE56.3 Performance Line					
1LE5 . . . - . . . . . - . . . . -Z	Order code						
Packaging, safety notes, documentation and test certificates							
Acceptance test certificate 3.1 in accordance with EN 10204 [21]	**B02**	28.70	28.70	28.70	28.70		
Printed German/English Operating Instructions enclosed [22]	**B04**	68.30	68.30	68.30	68.30		
Without marking "Made in country of origin"	**B13**	O	O	–	–		
Starting curves (torque-speed and current-speed)	**B50**	1580.–	1580.–	1580.–	1580.–		
Equivalent circuit diagram	**B51**	1100.–	1100.–	1100.–	1100.–		
Start-up diagram (torque-speed and current-speed)	**B52**	1580.–	1580.–	1580.–	1580.–		
Document – Electrical data sheet	**B60**	315.–	315.–	1190.–	1190.–		
Document – Order dimensional drawing	**B61**	315.–	315.–	315.–	315.–		
Standard test (routine test) with acceptance	**B65**	3890.–	7350.–	7350.–	8190.–		
Temperature test without acceptance	**B67**	16600.–	18200.–	18200.–	21400.–		
Temperature test with acceptance	**B68**	19800.–	21300.–	21300.–	24600.–		
Type test with heat run for vertical motors, without acceptance	**B80**	19700.–	19700.–	19700.–	19700.–		
Type test with heat run for vertical motors, with acceptance	**B81**	23100.–	23100.–	23100.–	23100.–		
Type test with heat run for horizontal motors, without acceptance	**B82**	12800.–	12800.–	27100.–	27100.–		
Type test with heat run for horizontal motors, with acceptance	**B83**	14300.–	14300.–	28700.–	28700.–		
Documentation package "Basic"	**B90**	609.–	609.–	609.–	609.–		
Documentation package "Advanced"	**B91**	924.–	924.–	924.–	924.–		
Documentation package "Projects"	**B92**	2520.–	2520.–	2520.–	2520.–		
Connected in star for dispatch	**M01**	46.90	52.50	94.60	O. R.		
Connected in delta for dispatch	**M02**	46.90	52.50	94.60	O. R.		

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
O. R. Possible on request
– Not possible

For footnotes, see Page 2/23.

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

2) Parallel Whitworth pipe thread DIN ISO 228 (DIN 259) BSPP (British Standard Pipe Parallel) Pipe thread for connections not sealed in the thread (cylindrical), external = G.

3) The grease lifetime specified in Section 1 "Introduction" refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease service lifetime or relubrication interval is halved.

4) Not possible for 1LE5 motors with increased power.

5) A second shaft extension is not possible. Please inquire for mounted brakes.

6) For order codes **F10**, **F11** and **F12**, the brake supply voltage must be specified or ordered.

7) 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.

8) 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.

9) The LL and HOG rotary pulse encoders in frame sizes 315 and 355 are fitted without 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. Protective cover (order code **G43**) is possible.

10) Option (encoder mounting) is only possible for motors with a mounted separately driven fan or for naturally cooled motors (without a separately driven fan). This option can be used in combination with brakes of type KFB and SFB. This option cannot be used in combination with brakes of type 2LM8!

11) Order code **H00** provides mechanical protection for encoders.

12) Not possible for type of construction IM V3.

13) Not possible in combination with HOG 9 D 1024 I rotary pulse encoder (order code **G05**) and/or brake 2LM8 (order code **F01**).

14) Not possible in combination with brake 2LM8 (order code **F01**).

15) In connection with mountings, the respective technical data must be observed, please inquire before ordering.

16) The rated voltage is indicated on the rating plate without voltage range.

17) Possible up to 600 V max. The rated voltage is indicated on the rating plate without voltage range. Order codes **D30** and **D31** does not authorize importing into USA and Mexico.

18) On request for 2-pole motors

19) 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 are permitted to be 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**:
–Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under "Dimensions")
–Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension.

20) Can be ordered for 400 VΔ/690VY (voltage code "**34**").

21) The delivery time for the factory test certificate may differ from the delivery time for the motor.

22) The Operating Instructions are available in PDF format for all official EU languages at
http://support.automation.siemens.com/WW/view/en/10803948/133300

23) With **H08**, feet dimensions C and CA differ from EN 50347! Further information is available in DT Configurator (see Appendix, "Tools and Configuring").

24) Not possible in combination with order code **Q72** and **Q78**.

25) Not possible in combination with order code **N05**, **N06**, **N07**, **N08** and **N11**.

26) When combining order codes **F01** and **F12**, the rectifier for the brake will be supplied separately as a single part.

27) Order code **S06** cannot be combined with order code **S00** and **S01**. It can be combined with **Y53** on request.

28) A minimum cantilever force F_{min} of 0.5 · F_{max} is required for NU bearings (cylindrical roller bearings) in contrast to ball bearings. Cylindrical roller bearings are not suitable for coupling power or for brief periods of no-load operation without cantilever force.

29) 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.

30) For frame sizes 400 and 450, permissible cantilever forces for motors with reinforced bearings are available on request. Please specify cantilever force and lever arm.

31) For frame sizes 400 and 450, UL/CSA approval is not required.

32) For insulated bearings at the DE, and non-insulated bearings at the NDE, the motor coupling must be insulated.

33) For insulated bearings at the DE and NDE, a grounding brush (**L52**) is essential if no grounding is provided in the drive train. Otherwise, it should be omitted.

34) Only possible for line operation.

35) The separately driven fan motor is implemented with voltage code **34** (400 V/50 Hz; 460 V/60 Hz).

36) For frame sizes 400 to 450, the degree of protection changes to IP54.

37) For frame size 450, not possible in the vertical type of construction.

38) For motors with flange (IM B5, IM B35, IM V1), only possible in conjunction with order code **H08**.

39) Restrictions can apply when mounting the terminal box.

40) Only possible in conjunction with SIMOTICS SD Add motors (6th position of the Article No.: **3**). Not available for 8-pole motors, frame size 450.

41) When compared to utilization, temperature class 155 (F), the power is increased by 5 %.

42) Only available for 1LE5 and 1MB551 (Ex tc for Zone 21) and 1MB552 (Ex tc for Zone 22). Not available for 1MB553 (Ex ec for Zone 2).

43) Not available for 8-pole motors, frame size 450.

44) Not possible in combination with order code **C02**.

45) Customer specifications: Voltage between 380 and 690 V (voltages outside this range are available on request), frequency, circuit, required rated power in kW.

46) For 1LE5, only available for line operation (DOL).
Not available for 1LE5 in combination with order code **L50** or **L51** (converter operation).

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with Super Premium Efficiency**
Series version	**Aluminum series 1FP1014**
Motor mode	Synchronous reluctance motors
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55
Insulation	Thermal class F (155)
Number of poles	4
Frame sizes (FS)	80 M ... 200 L
Rated power at 50 Hz	0.55 ... 30 kW
Synchronous speed at 50 Hz	1500 rpm
Rated torque at 50 Hz	3.5 ... 191 Nm
Efficiency	Super Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1 Frame sizes 100 ... 160: 3F2 Frame sizes 180 ... 200: 3F3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 3/28, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	Frame size FS	Article No.	Base price EUR
4-pole: 1500 rpm at 50 Hz			
0.55	**80 M**	**1FP1014-0DB2.-....**	**920.–**
0.75	**80 M**	**1FP1014-0DB3.-....**	**1000.–**
1.1	**90 S**	**1FP1014-0EB0.-....**	**1170.–**
1.5	**90 L**	**1FP1014-0EB4.-....**	**1390.–**
2.2	**112 M**	**1FP1014-1BB0.-....**	**1440.–**
3	**112 M**	**1FP1014-1BB1.-....**	**1710.–**
4	**112 M**	**1FP1014-1BB2.-....**	**1990.–**
5.5	**132 S**	**1FP1014-1CB0.-....**	**2300.–**
7.5	**132 M**	**1FP1014-1CB2.-....**	**2890.–**
11	**160 M**	**1FP1014-1DB2.-....**	**3770.–**
15	**160 L**	**1FP1014-1DB4.-....**	**4890.–**
18.5	**180 M**	**1FP1014-1EB2.-....**	**5010.–**
22	**180 L**	**1FP1014-1EB4.-....**	**5790.–**
30	**200 L**	**1FP1014-2AB5.-....**	**7480.–**

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Overview

Category	**Motors with Super Premium Efficiency** (continued)
Series version	**Cast-iron series 1FP1514**
Motor mode	Synchronous reluctance motors
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55
Insulation	Thermal class F (155)
Number of poles	4
Frame sizes (FS)	80 M ... 225 M
Rated power at 50/100 Hz	0.55/0.75 ... 45/45 kW
Synchronous speed at 50/100 Hz	1500/3000 rpm
Rated torque at 50 Hz	3.5 ... 286 Nm
Efficiency	Super Premium Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	Frame sizes 80 ... 90: 3F1 Frame sizes 100 ... 160: 3F2 Frame sizes 180 ... 225: 3F3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 3/28, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	Frame size FS	Article No.	Base price EUR
4-pole: 3000 rpm at 100 Hz			
0.75	**80 M**	**1FP1514-0DF2.-....**	**1280.–**
1.1	**80 M**	**1FP1514-0DF3.-....**	**1500.–**
1.5	**90 S**	**1FP1514-0EF0.-....**	**1600.–**
2.2	**90 L**	**1FP1514-0EF4.-....**	**1610.–**
3	**112 M**	**1FP1514-1BF1.-....**	**1750.–**
4	**112 M**	**1FP1514-1BF2.-....**	**2140.–**
5.5	**132 S**	**1FP1514-1CF0.-....**	**2470.–**
7.5	**132 S**	**1FP1514-1CF1.-....**	**3130.–**
11	**160 M**	**1FP1514-1DF2.-....**	**4110.–**
15	**160 M**	**1FP1514-1DF3.-....**	**5280.–**
18.5	**160 L**	**1FP1514-1DF4.-....**	**5760.–**
22	**180 M**	**1FP1514-1EF2.-....**	**5170.–**
30	**200 L**	**1FP1514-2AF4.-....**	**7710.–**
37	**200 L**	**1FP1514-2AF5.-....**	**8950.–**
45	**225 M**	**1FP1514-2BF2.-....**	**11500.–**
4-pole: 1500 rpm at 50 Hz			
0.55	**80 M**	**1FP1514-0DB2.-....**	**1170.–**
0.75	**80 M**	**1FP1514-0DB3.-....**	**1280.–**
1.1	**90 S**	**1FP1514-0EB0.-....**	**1500.–**
1.5	**90 L**	**1FP1514-0EB4.-....**	**1600.–**
2.2	**112 M**	**1FP1514-1BB0.-....**	**1580.–**
3	**112 M**	**1FP1514-1BB1.-....**	**1750.–**
4	**112 M**	**1FP1514-1BB2.-....**	**2140.–**
5.5	**132 S**	**1FP1514-1CB0.-....**	**2470.–**
7.5	**132 M**	**1FP1514-1CB2.-....**	**3130.–**
11	**160 M**	**1FP1514-1DB2.-....**	**4110.–**
15	**160 L**	**1FP1514-1DB4.-....**	**5280.–**
18.5	**180 M**	**1FP1514-1EB2.-....**	**5170.–**
22	**180 L**	**1FP1514-1EB4.-....**	**5980.–**
30	**200 L**	**1FP1514-2AB5.-....**	**7710.–**
37	**225 S**	**1FP1514-2BB0.-....**	**9740.–**
45	**225 M**	**1FP1514-2BB2.-....**	**11500.–**

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Selection and ordering data

Voltages	Article No. supplement		Frame size							Motor version
	Voltage code 12th and 13th position of the Article No.	Additional identification code with order code and plain text if required	80	90	112	132	160	180	200	
			1FP1014							Super Premium Efficiency
1FP1014-. . . . ■ - ■ . . .		Order code								
Voltage at 50 Hz or 60 Hz										
Line voltage/ converter input voltage: 50 Hz, 400 V 60 Hz, 480 V	**2 1**	**–**	□	□	□	□	□	□	□	

□ Standard version

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Selection and ordering data

Voltages	Article No. supplement		Frame size								Motor version
	Voltage code 12th and 13th position of the Article No.	Additional identification code with order code and plain text if required	**80**	**90**	**112**	**132**	**160**	**180**	**200**	**225**	
			1FP1514								Super Premium Efficiency
1FP1514- . . . . ■ - ■ . . .		Order code									
Voltage at 50 Hz or 60 Hz											
Line voltage/ converter input voltage:											
50 Hz, 400 V 60 Hz, 480 V	**2** **1**	–	□	□	□	□	□	□	□	□	

□ Standard version

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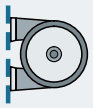
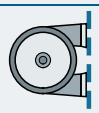
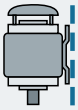
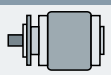
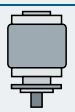
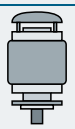
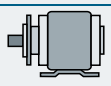
Synchronous reluctance motors for SINAMICS converters – VSD4000 line
Article No. supplements and special versions

Selection and ordering data

Types of construction		Article No. supplement		Frame size							Motor version
		Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z	80	90	112	132	160	180	200	
				1FP1014							Super Premium Efficiency
1FP1014- . . . . . - .		■	. . (-Z)	Order code							
Without flange											
IM B3 [1] [2]		A	–	□	□	□	□	□	□	□	
IM B6 [2]		T	–	□	□	□	□	□	□	□	
IM B7 [2]		U	–	□	□	□	□	□	□	□	
IM B8 [2]		V	–	□	□	□	□	□	□	□	
IM V6 [2]		D	–	□	□	□	□	□	□	□	
IM V5 without protective cover [2]		C	–	□	□	□	□	□	□	□	
IM V5 with protective cover [2] [3] [4]		C	H00	56.70	56.70	82.40	144.–	144.–	192.–	289.–	
With flange		acc. to EN 50347 acc. to DIN 42948		FF165 A 200	FF165 A 200	FF215 A 250	FF265 A 300	FF300 A 350	FF300 A 350	FF350 A 400	
IM B5 [2] [5]		F	–	54.80	65.70	101.–	132.–	170.–	269.–	326.–	
IM V1 without protective cover [2]		G	–	54.80	65.70	101.–	132.–	170.–	268.–	324.–	
IM V1 with protective cover [2] [4]		G	H00	111.50	122.40	183.40	276.–	314.–	460.–	613.–	
IM V3 [3]		H	–	54.80	65.70	101.–	132.–	170.–	269.–	326.–	
IM B35		J	–	57.80	68.30	110.–	137.–	189.–	315.–	420.–	

For legends and footnotes, see Page 3/9.

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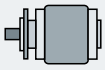
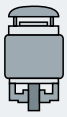
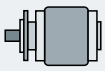
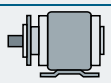
Types of construction		Article No. supplement		Frame size							Motor version
		Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**80**	**90**	**112**	**132**	**160**	**180**	**200**	
				1FP1014							Super Premium Efficiency
1FP1014-. . . . . - . ■ . . (-Z)			Order code								
With special flange next larger		**acc. to DIN EN 50347**		–	FF215	FF265	FF300	–	–	–	
		acc. to DIN 42948		–	A 250	A 300	A 350	–	–	–	
IM B5 [2) 5)]		**F**	**P01**	–	113.40	148.70	189.80	–	–	–	
IM V1 without protective cover [2)]		**G**	**P01**	–	113.40	148.70	189.80	–	–	–	
IM V1 with protective cover [2) 4) 5) 6)]		**G**	**P01+H00**	–	170.10	231.10	333.80	–	–	–	
IM V3 [4)]		**H**	**P01**	–	113.40	148.70	189.80	–	–	–	
IM V18 with protective cover [2) 3) 4) 5)]		**M**	**H00**	–	122.40	183.40	276.–	–	–	–	
With special flange next smaller		**acc. to DIN EN 50347**		**FF130**	–	**FF165**	**FF215**	**FF265**	**FF265**	**FF300**	
		acc. to DIN 42948		**A 160**	–	**A 200**	**A 250**	**A 300**	**A 300**	**A 350**	
IM B5 [2) 6)]		**F**	**P02**	187.80	–	346.–	448.–	578.–	922.–	1122.–	
IM V1 without protective cover [2)]		**G**	**P02**	187.80	–	346.–	448.–	578.–	921.–	1120.–	
IM V1 with protective cover [2) 4) 5) 6)]		**G**	**P02+H00**	244.50	–	428.40	592.–	722.–	1113.–	1409.–	
IM V3 [4)]		**H**	**P02**	187.80	–	346.–	448.–	578.–	922.–	1122.–	
IM B35 [3)]		**J**	**P02**	190.80	–	355.–	453.–	597.–	968.–	1216.–	

For legends and footnotes, see Page 3/9.

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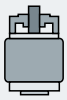
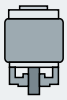
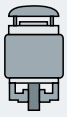
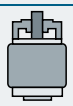
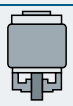
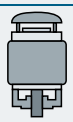
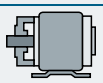
Synchronous reluctance motors for SINAMICS converters – VSD4000 line
Article No. supplements and special versions

Types of construction · Aluminum series 1FP1014

Types of construction		Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size 80	90	112	132	160	180	200	Motor version
				1FP1014							Super Premium Efficiency
1FP1014- . . . . . - . ■ . . (-Z)			Order code								
With flange		**acc. to EN 50347**		**FT100**	**FT115**	**FT130**	**FT165**	**FT215**	**–**	**–**	
		acc. to DIN 42948		**C 120**	**C 140**	**C 160**	**C 200**	**C 250**	**–**	**–**	
IM B14 [2) 6)]		**K**	**–**	54.80	64.40	101.–	132.–	170.–	–	–	
IM V19 [2)]		**L**	**–**	54.80	64.40	101.–	132.–	170.–	–	–	
IM V18 without protective cover [2)]		**M**	**–**	54.80	64.40	101.–	132.–	170.–	–	–	
IM V18 with protective cover [2) 4) 5) 6)]		**M**	**H00**	111.50	121.10	183.40	276.–	314.–	–	–	
IM B34 [3)]		**N**	**–**	57.80	67.–	110.–	137.–	189.–	–	–	
With special flange next larger		**acc. to EN 50347**		**FT130**	**FT130**	**FT165**	**FT215**	**–**	**–**	**–**	
		acc. to DIN 42948		**C 160**	**C 160**	**C 200**	**C 250**	**–**	**–**	**–**	
IM B14 [2) 6)]		**K**	**P01**	102.50	112.10	148.70	179.70	–	–	–	
IM V19 [2)]		**L**	**P01**	102.50	112.10	148.70	179.70	–	–	–	
IM V18 without protective cover [2)]		**M**	**P01**	102.50	112.10	148.70	179.70	–	–	–	
IM V18 with protective cover [2) 4) 5) 6)]		**M**	**P01+H00**	159.20	168.80	231.10	333.80	–	–	–	
IM B34 [3)]		**N**	**P01**	105.50	114.70	157.70	194.80	–	–	–	

For legends and footnotes, see Page 3/9.

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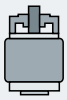
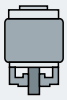
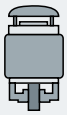
Types of construction		Article No. supplement		Frame size							Motor version
		Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**80**	**90**	**112**	**132**	**160**	**180**	**200**	
				1FP1014							Super Premium Efficiency
1FP1014-. . . . . - . ■ . . (-Z)			Order code								
With special flange next smaller		**acc. to EN 50347**		–	–	**FT165**	**FT215**	**FT265**	–	–	
		acc. to DIN 42948		–	–	**C 200**	**C 250**	**C 300**	–	–	
IM B14 [2) 7)]		**K**	**P02**	–	–	346.–	448.–	578.–	–	–	
IM V19 [2)]		**L**	**P02**	–	–	346.–	448.–	578.–	–	–	
IM V18 without protective cover [2)]		**M**	**P02**	–	–	346.–	448.–	578.–	–	–	
IM V18 with protective cover [2) 3) 4)]		**M**	**P02+H00**	–	–	428.40	592.–	722.–	–	–	
IM B34		**N**	**P02**	–	–	355.–	453.–	597.–	–	–	

□ Standard version
– Not possible

[1)] The types of construction IM B6/7/8, IM V6 and IM V5 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B3 is then stamped on the rating plate. With type of construction IM V5 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

[2)] The type of construction is stamped on the rating plate. When ordering with condensation drainage holes (order code **H03**), if mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly.

[3)] The "Second shaft extension" option (order code **L05**) is not possible.

[4)] In combination with an encoder it is not necessary to order the protective cover (order code **H00**), as this is delivered as a protection for the encoder as standard. In this case the protective cover is standard version (without additional charge).

[5)] The types of construction IM V3 and IM V1 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B5 is then stamped on the rating plate. With type of construction IM V1 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

[6)] The types of construction IM V19 and IM V18 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B14 is then stamped on the rating plate. With type of construction IM V18 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

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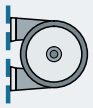
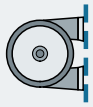
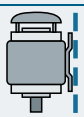
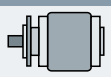
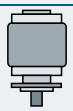
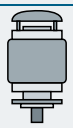
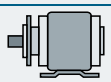
Synchronous reluctance motors for SINAMICS converters – VSD4000 line
Article No. supplements and special versions

Selection and ordering data

Types of construction		Article No. supplement		Frame size								Motor version
		Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z	80	90	112	132	160	180	200	225	
				1FP1514								Super Premium Efficiency
1FP1514- . . . . . - . ■ . . (-Z)			Order code									
Without flange												
IM B3 [1] [2]		A	–	□	□	□	□	□	□	□	□	
IM B6 [2]		T	–	□	□	□	□	□	□	□	□	
IM B7 [2]		U	–	□	□	□	□	□	□	□	□	
IM B8 [2]		V	–	□	□	□	□	□	□	□	□	
IM V6 [2]		D	–	□	□	□	□	□	□	□	□	
IM V5 without protective cover [2]		C	–	□	□	□	□	□	□	□	□	
IM V5 with protective cover [2] [3] [4]		C	H00	56.70	56.70	82.40	144.–	144.–	192.–	289.–	383.–	
With flange		acc. to EN 50347 acc. to DIN 42948		FF165 A 200	FF165 A 200	FF215 A 250	FF265 A 300	FF300 A 350	FF300 A 350	FF350 A 400	FF400 A 450	
IM B5 [2] [5]		F	–	54.80	65.70	101.–	132.–	170.–	269.–	326.–	422.–	
IM V1 without protective cover [2]		G	–	54.80	65.70	101.–	132.–	170.–	268.–	324.–	424.–	
IM V1 with protective cover [2] [3] [4]		G	H00	111.50	122.40	183.40	276.–	314.–	460.–	613.–	424.–	
IM V3 [4]		H	–	54.80	65.70	101.–	132.–	170.–	269.–	326.–	422.–	
IM B35		J	–	57.80	68.30	110.–	137.–	189.–	315.–	420.–	525.–	

For legends and footnotes, see Page 3/12.

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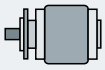
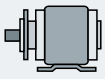
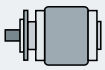
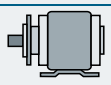
Types of construction		Article No. supplement		Frame size								Motor version
		Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**80**	**90**	**112**	**132**	**160**	**180**	**200**	**225**	
				1FP1514								Super Premium Efficiency
1FP1514-. . . . . - . ■ . . (-Z)			Order code									
With special flange next larger		**acc. to EN 50347**		–	FF215	FF265	FF300	–	–	–	–	
		acc. to DIN 42948		–	A 250	A 300	A 350	–	–	–	–	
IM B5 [2) 6)]		**F**	**P01**	–	113.40	148.70	191.60	–	–	–	–	
IM V1 without protective cover [2)]		**G**	**P01**	–	113.40	148.70	191.60	–	–	–	–	
IM V1 with protective cover [2) 4) 5)]		**G**	**P01+H00**	–	170.10	231.10	335.60	–	–	–	–	
IM V3 [3)]		**H**	**P01**	–	113.40	148.70	191.60	–	–	–	–	
IM B35 [3)]		**J**	**P01**	–	116.–	157.70	196.60	–	–	–	–	
With special flange next smaller		**acc. to EN 50347**		**FF130**	–	**FF165**	**FF215**	**FF265**	**FF265**	**FF300**	–	
		acc. to DIN 42948		**A 160**	–	**A 200**	**A 250**	**A 300**	**A 300**	**A 350**	–	
IM B5 [2) 6)]		**F**	**P02**	187.80	–	346.–	448.–	578.–	922.–	1122.–	–	
IM V1 without protective cover [2)]		**G**	**P02**	187.80	–	101.–	448.–	578.–	921.–	1120.–	–	
IM V1 with protective cover [2) 4) 5)]		**G**	**P02+H00**	244.50	–	183.40	592.–	722.–	1113.–	1409.–	–	
IM V3 [4)]		**H**	**P02**	187.80	–	101.–	132.–	170.–	922.–	1122.–	–	
IM B35 [3)]		**J**	**P02**	190.80	–	110.–	137.–	189.–	968.–	1216.–	–	

For legends and footnotes, see Page 3/12.

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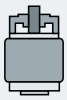
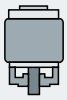
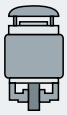
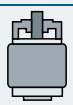
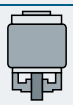
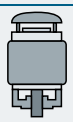
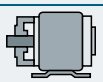
Synchronous reluctance motors for SINAMICS converters – VSD4000 line
Article No. supplements and special versions

Types of construction · Cast-iron series 1FP1514

Types of construction		Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size 80	90	112	132	160	180	200	225	Motor version
				1FP1514								Super Premium Efficiency
1FP1514- . . . . . - .		■ . . (-Z)	Order code									
With flange		**acc. to DIN EN 50347**		**FT100**	**FT115**	**FT130**	**FT165**	**FT215**	**–**	**–**	**–**	
		acc. to DIN 42948		**C 120**	**C 140**	**C 160**	**C 200**	**C 250**	**–**	**–**	**–**	
IM B14 [2) 6)]		**K**	**–**	–	–	101.–	132.–	170.–	–	–	–	
IM V19 [2)]		**L**	**–**	–	–	101.–	132.–	170.–	–	–	–	
IM V18 without protective cover [2)]		**M**	**–**	–	–	101.–	132.–	170.–	–	–	–	
IM V18 with protective cover [2) 3) 4)]		**M**	**H00**	–	–	183.–	276.–	314.–	–	–	–	
IM B34		**N**	**–**	57.80	68.30	110.–	137.–	189.–	–	–	–	
With special flange next larger		**acc. to DIN EN 50347**		**FT130**	**FT130**	**FT165**	**FT215**	**–**	**–**	**–**	**–**	
		acc. to DIN 42948		**C 160**	**C 160**	**C 200**	**C 250**	**–**	**–**	**–**	**–**	
IM B14 [2) 6)]		**K**	**P01**	102.50	113.40	202.–	264.–	–	–	–	–	
IM V19 [2)]		**L**	**P01**	102.50	113.40	202.–	264.–	–	–	–	–	
IM V18 without protective cover [2)]		**M**	**P01**	102.50	113.40	202.–	264.–	–	–	–	–	
IM V18 with protective cover [2) 3) 4)]		**M**	**P01+H00**	159.20	170.10	284.40	408.–	–	–	–	–	
IM B34		**N**	**P01**	105.50	116.–	211.–	269.–	–	–	–	–	

□ Standard version
– Not possible

1) The types of construction IM B6/7/8, IM V6 and IM V5 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B3 is then stamped on the rating plate. With type of construction IM V5 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

2) The type of construction is stamped on the rating plate. If mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly.

3) In combination with an encoder it is not necessary to order the protective cover (order code **H00**), as this is delivered as a protection for the encoder as standard. In this case the protective cover is standard version (without additional charge).

4) The "Second shaft extension" option (order code **L05**) is not possible.

5) The types of construction IM V3 and IM V1 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B5 is then stamped on the rating plate. With type of construction IM V1 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

6) The types of construction IM V19 and IM V18 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B14 is then stamped on the rating plate. With type of construction IM V18 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

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Selection and ordering data

Motor protection	Article No. supplement		Frame size							Motor version
	Motor protection code 15th position of the Article No.	Additional identification code with order code and plain text if required	80	90	112	132	160	180	200	
			1FP1014							Super Premium Efficiency
1FP1014- . . . . . - . .	■ .	Order code								
Motor protection										
1 or 3 PTC thermistors – for tripping (2 terminals) [1]	**B**	**–**	37.10	43.50	119.–	180.–	180.–	239.–	239.–	
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [1]	**C**	**–**	176.–	176.–	205.–	274.–	274.–	421.–	421.–	
1 temperature sensor KTY84-130 (2 terminals) [1]	**F**	**–**	105.–	105.–	119.–	180.–	180.–	339.–	339.–	
2 temperature sensors KTY84-130 (4 terminals) [1]	**G**	**–**	211.–	211.–	241.–	359.–	359.–	550.–	550.–	
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals) [1]	**H**	**–**	–	–	1240.–	359.–	359.–	1510.–	1510.–	
1 Pt1000 resistance thermometer (2 terminals) [1] [2]	**K**	**–**	105.–	105.–	119.–	180.–	180.–	339.–	339.–	
2 Pt1000 resistance thermometers (4 terminals) [1] [2]	**L**	**–**	211.–	211.–	241.–	359.–	359.–	550.–	550.–	
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**P**	**–**	–	–	1040.–	1040.–	1040.–	1340.–	1340.–	
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals)	**Q**	**–**	–	–	1310.–	1310.–	1310.–	2010.–	2010.–	
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals)	**R**	**–**	–	–	2020.–	2020.–	2020.–	2960.–	2960.–	
3 bimetal sensors (NC contact) for tripping (2 terminals) [1]	**Z**	**Q3A**	117.–	117.–	134.–	196.–	196.–	270.–	270.–	

– Not possible

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

[2] Not UL-certified. Not possible in combination with the option **D39**.

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Selection and ordering data

Motor protection	Article No. supplement		Frame size								Motor version
	Motor protection code 15th position of the Article No.	Additional identification code with order code and plain text if required	**80**	**90**	**112**	**132**	**160**	**180**	**200**	**225**	
			1FP1514								Super Premium Efficiency
1FP1514-. . . . . - . . ■ .		Order code									
Motor protection											
1 or 3 PTC thermistors – for tripping (2 terminals) [1]	**B**	**–**	40.50	43.50	119.–	180.–	180.–	239.–	239.–	325.–	
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [1]	**C**	**–**	176.–	176.0	205.–	274.–	274.–	421.–	421.–	548.–	
1 temperature sensor KTY84-130 (2 terminals) [1]	**F**	**–**	105.–	105.–	119.–	180.–	180.–	339.–	339.–	463.–	
2 temperature sensors KTY84-130 (4 terminals) [1]	**G**	**–**	210.–	210.–	242.–	359.–	359.–	550.–	550.–	756.–	
1 Pt1000 resistance thermometer (2 terminals) [1] [2]	**K**	**–**	105.–	105.–	119.–	180.–	180.–	339.–	339.–	463.–	
2 Pt1000 resistance thermometers (4 terminals) [1] [2]	**L**	**–**	211.–	211.–	241.–	359.–	359.–	550.–	550.–	756.–	
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals) [1]	**P**	**–**	–	–	1050.–	1040.–	1040.–	1340.–	1340.–	1340.–	
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals) [1]	**Q**	**–**	–	–	1300.–	1310.–	1310.–	2010.–	2010.–	2010.–	
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals) [1]	**R**	**–**	–	–	2020.–	2020.–	2020.–	2960.–	2960.–	2960.–	
3 NTC thermistors – for tripping (6 terminals) [2]	**Z**	**Q2A**	210.–	210.–	241.–	357.–	357.–	–	–	–	
3 bimetal sensors (NC contact) for tripping (2 terminals) [1]	**Z**	**Q3A**	117.–	117.–	134.–	196.–	196.–	270.–	270.–	339.–	
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals) [1]	**Z**	**Q9A**	–	–	241.–	352.–	352.–	477.–	477.–	647.–	

– Not possible

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

[2] Not UL-certified. Not possible in combination with the option **D39**.

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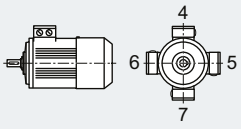
Selection and ordering data

Terminal box position	Article No. supplement		Frame size							Motor version
	Terminal box position code 16th position of the Article No.	Additional identification code with order code and plain text if required	**80**	**90**	**112**	**132**	**160**	**180**	**200**	
			1FP1014							Super Premium Efficiency
1FP1014-. . . . . -. . . ■		Order code								
Terminal box position										
Terminal box top [1]	**4**	**–**	□	□	□	□	□	□	□	
Terminal box on RHS [2]	**5**	**–**	35.90	40.60	113.–	123.–	132.–	186.–	218.–	
Terminal box on LHS [2]	**6**	**–**	35.90	40.60	113.–	123.–	132.–	186.–	218.–	
Terminal box bottom [2]	**7**	**–**	–	–	113.–	123.–	–	–	–	

□ Standard version
– Not possible

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

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

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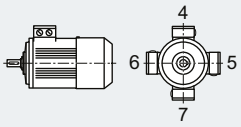
Selection and ordering data

Terminal box position	Article No. supplement		Frame size								Motor version
	Terminal box position code 16th position of the Article No.	Additional identification code with order code and plain text if required	**80**	**90**	**112**	**132**	**160**	**180**	**200**	**225**	
			1FP1514								Super Premium Efficiency
1FP1514-. . . . . -. . . ■		Order code									
Terminal box position											
Terminal box top [1]	**4**	–	□	□	□	□	□	□	□	□	
Terminal box on RHS [2]	**5**	–	52.50	73.50	113.–	123.–	132.–	371.–	437.–	517.–	
Terminal box on LHS [2]	**6**	–	52.50	73.50	113.–	123.–	132.–	371.–	437.–	517.–	
Terminal box bottom [2]	**7**	–	–	–	114.–	123.–	132.–	–	–	–	

□ Standard version
– Not possible

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

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

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size							Motor version
		80	**80**	**112**	**132**	**160**	**180**	**200**	
		1FP1014							Super Premium Efficiency
1FP1014-. . . . . -. . . . -Z	Order code								
Motor protection									
1 or 3 PTC thermistors – for tripping (2 terminals) [2) 3)]	**Q11**	36.–	42.20	119.–	119.–	180.–	180.–	239.–	
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [3)]	**Q12**	176.–	176.–	205.–	176.–	274.–	421.–	421.–	
1 temperature sensor KTY84-130 (2 terminals) [3)]	**Q23**	105.–	105.–	119.–	274.–	180.–	339.–	339.–	
2 temperature sensors KTY84-130 (4 terminals) [3)]	**Q25**	211.–	211.–	241.–	359.–	359.–	550.–	550.–	
3 bimetal sensors (NC contact) for tripping (2 terminals) [3)]	**Q31**	134.–	134.–	196.–	196.–	196.–	270.–	270.–	
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals)	**Q32**	241.–	241.–	352.–	477.–	477.–	647.–	647.–	
3 bimetal sensors (NC contact) for tripping (6 terminals)	**Q33**	–	–	–	–	–	281.–	281.–	
6 bimetal sensors (NC contact) for alarm and tripping (12 terminals)	**Q34**	–	–	–	–	–	488.–	488.–	
1 Pt1000 resistance thermometer (2 terminals) [19)]	**Q35**	105.–	105.–	119.–	180.–	180.–	339.–	339.–	
2 Pt1000 resistance thermometers (4 terminals) [19)]	**Q36**	211.–	211.–	241.–	359.–	359.–	550.–	550.–	
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**Q60**	–	–	1240.–	1240.–	1240.–	1510.–	1510.–	
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals)	**Q61**	–	–	1920.–	1920.–	1920.–	2470.–	2470.–	
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**Q62**	–	–	1040.–	1040.–	1040.–	1340.–	1340.–	
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals)	**Q63**	–	–	1310.–	1310.–	1310.–	2010.–	2010.–	
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals)	**Q64**	–	–	2020.–	2020.–	2020.–	2960.–	2960.–	
2 Pt100 screw-in thermometers in basic circuit for bearings (2 terminals)	**Q72**	–	–	O. R.	O. R.	O. R.	4300.–	4300.–	
2 Pt100 screw-in thermometers in 3-wire circuit for bearings (6 terminals)	**Q78**	–	–	O. R.	O. R.	O. R.	4730.–	4730.–	
2 double Pt100 screw-in thermometers in 3-wire circuit for bearings (12 terminals)	**Q79**	–	–	O. R.	O. R.	O. R.	5670.–	5670.–	
Motor connection and terminal box									
External grounding	**H04**	24.–	24.–	28.90	28.90	28.90	37.10	37.10	
Terminal box on NDE [1)]	**H08**	84.–	96.70	147.–	286.–	388.–	967.–	999.–	
Rotation of the terminal box through 90°, entry from DE [2)]	**R10**	O	O	O	O	O	45.10	58.40	
Rotation of the terminal box through 90°, entry from NDE	**R11**	O	O	O	O	O	45.10	58.40	
Rotation of the terminal box through 180°	**R12**	O	O	O	O	O	45.10	58.40	
Terminal box in position 0°; connection from right [20)]	**R13**	O	O	O	O	–	–	–	
One metal cable gland	**R15**	59.80	59.80	112.–	112.–	143.–	143.–	165.–	
One metal cable gland, maximum configuration	**R18**	86.20	86.20	159.–	159.–	209.–	209.–	241.–	
3 cables protruding, 0.5 m long	**R20**	57.30	57.30	82.40	101.–	118.–	–	–	
3 cables protruding, 1.5 m long	**R21**	69.40	69.40	99.70	121.–	144.–	a.A.	a.A.	
6 cables protruding, 0.5 m long	**R22**	88.80	88.80	128.–	a.A.	a.A.	a.A.	a.A.	
6 cables protruding, 1.5 m long	**R23**	113.–	113.–	164.–	199.–	237.–	a.A.	a.A.	
6 cables protruding, 3 m long	**R24**	181.–	181.–	257.–	322.–	386.–	a.A.	a.A.	
Larger terminal box	**R50**	103.–	103.–	214.–	274.–	313.–	475.–	523.–	
Motor connector Han-Drive 10e for 230 VΔ/400 VY	**R70**	146.–	146.–	388.–	444.–	–	–	–	
Motor connector Han-Drive 10e EMC for 230 VΔ/400 VY	**R71**	270.–	270.–	527.–	605.–	–	–	–	
Windings and insulation									
Temperature class 180 (H) at rated power and max. CT 60 °C [3)]	**N11**	220.–	220.–	305.–	405.–	494.–	702.–	982.–	
Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N30**	137.–	137.–	137.–	137.–	210.–	305.–	420.–	
Increased air humidity/temperature with 60 to 100 g water per m^3 of air	**N31**	220.–	220.–	252.–	284.–	399.–	515.–	662.–	

For legends and footnotes, see Page 3/20.

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Synchronous reluctance motors for SINAMICS converters – VSD4000 line
Article No. supplements and special versions

Options · Aluminum series 1FP1014

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 80	80	112	132	160	180	200	Motor version
		1FP1014							Super Premium Efficiency
1FP1014-. . . . . -. . . . -Z	Order code								
Colors and paint finish									
Standard finish C2 in RAL 7030 stone gray		□	□	□	□	□	□	□	
Unpainted (only cast-iron parts primed)	**S00**	O	O	O	O	O	O	O	
Unpainted, only primed	**S01**	20.90	20.90	27.80	44.40	44.40	83.30	83.30	
Special finish C3	**S02**	36.80	36.80	63.–	84.–	84.–	115.–	126.–	
Special finish sea air resistant C4	**S03**	504.–	504.–	536.–	589.–	589.–	630.–	672.–	
Internal coating	**S05**	89.40	89.40	89.40	89.40	89.40	89.40	89.40	
Standard finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53** • and standard finish RAL….	26.30	26.30	42.–	57.80	57.80	84.–	115.–	
Finish in special RAL colors: For RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56** • and special finish RAL….	620.–	620.–	662.–	694.–	694.–	704.–	714.–	
Modular technology – Basic versions [4]									
Mounting of brake [5]	**F01**	468.–	562.–	799.–	1030.–	2040.–	4510.–	6300.–	
Mounting of brake for higher switching frequency	**F02**	O. R.	O. R.	O. R.	O. R.	O. R.	–	–	
Mounting of Kübler Sendix 5020 HTL, 1024 I rotary pulse encoder	**G11**	748.–	793.–	895.–	941.–	986.–	1030.–	1080.–	
Mounting of Kübler Sendix 5020 TTL, 1024 I rotary pulse encoder	**G12**	1030.–	1100.–	1250.–	1330.–	1410.–	1480.–	1550.–	
Modular technology – Additional versions									
Brake supply voltage 24 V DC	**F10**	35.20	35.20	52.90	52.90	52.90	70.60	70.60	
Brake supply voltage 230 V AC, 50/60 Hz	**F11**	35.20	35.20	O	O	O	O	O	
Brake supply voltage 400 V AC, 50/60 Hz	**F12**	35.20	35.20	52.90	52.90	52.90	70.60	70.60	
Brake supply voltage 180 V AC	**F17**	35.20	35.20	52.90	52.90	52.90	70.60	70.60	
Brake supply voltage 205 V AC	**F18**	35.20	35.20	52.90	52.90	52.90	70.60	70.60	
Mechanical manual brake release with lever (no locking)	**F50**	250.–	250.–	264.–	294.–	426.–	620.–	723.–	
Special technology [3]									
Mounting of LL 861 900 220 rotary pulse encoder [6]	**G04**	–	–	3000.–	3000.–	3000.–	3000.–	3000.–	
Mounting of HOG 9 DN 1024 I rotary pulse encoder [6]	**G05**	–	–	3540.–	3540.–	3540.–	4570.–	4570.–	
Mounting of HOG 10 D 1024 I rotary pulse encoder [6]	**G06**	–	–	4570.–	4570.–	4570.–	4570.–	4570.–	
Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	**G21**	–	–	–	–	–	3210.–	3330.–	
Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	**G22**	–	–	–	–	–	3630.–	3750.–	
Mounting of HOGS100S-B76.626.01024.1 rotary pulse encoder	**G25**	–	–	–	–	–	14000.–	14000.–	
Mounting of LL FSI 862-184560-1024, SIL-2 rotary pulse encoder	**G27**	–	–	–	–	–	15500.–	15500.–	
Mechanical design and degrees of protection									
Prepared for mountings, center hole only [7]	**G40**	70.10	70.10	70.10	93	107.–	□	□	
Prepared for mountings with D12 shaft [12]	**G41**	143.–	152.–	168.–	189.–	225.–	462.–	462.–	
Prepared for mountings with D16 shaft [12]	**G42**	O. R.	O. R.	168.–	189.–	225.–	462.–	462.–	
Mechanical protection for encoders	**G43**	72.30	72.30	80.70	141.–	141.–	212.–	212.–	
Protective cover [6] [8]	**H00**	56.70	56.70	82.40	144.–	144.–	192.–	289.–	
Screwed-on (instead of cast) feet	**H01**	90.80	90.80	113.–	123.–	132.–	□	□	
Vibration-proof version	**H02**	148.–	168.–	209.–	226.–	263.–	315.–	378.–	
Condensation drainage holes [9]	**H03**	67.60	75.50	90.30	97.80	105.–	112.–	119.–	
Rust-resistant screws (externally)	**H07**	155.–	155.–	82.70	97.80	97.80	112.–	128.–	
Enclosure with screw down possibility	**H10**	50.70	50.70	–	–	–	52.50	52.50	

For legends and footnotes, see Page 3/20.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size							Motor version
		80	**80**	**112**	**132**	**160**	**180**	**200**	
		1FP1014							Super Premium Efficiency
1FP1014-. . . . . -. . . . -Z	Order code								
Mechanical design and degrees of protection (continued)									
IP66 degree of protection	**H19**	316.–	316.–	316.–	316.–	471.–	630.–	787.–	
IP65 degree of protection [10]	**H20**	150.–	150.–	150.–	150.–	224.–	302.–	374.–	
IP56 degree of protection [11]	**H22**	166.–	166.–	166.–	166.–	247.–	328.–	413.–	
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar [8]	**H23**	48.30	51.70	62.90	76.80	112.–	145.–	180.–	
Coolant temperature and installation altitude									
Coolant temperature –40 to +40 °C [13]	**D03**	257.–	322.–	489.–	566.–	650.–	721.–	836.–	
Coolant temperature –30 to +40 °C [13]	**D04**	56.70	56.70	70.80	85.–	85.–	113.–	142.–	
Designs in accordance with standards and specifications									
Design according to UL and CSA (Canadian regulations)	**D39**	81.60	91.20	119.–	153.–	187.–	300.–	411.–	
TR CU product safety certificate EAC for Eurasian Customs Union	**D47**	26.30	31.50	52.50	84.–	137.–	179.–	252.–	
Bearings and lubrication									
Located bearing DE	**L20**	39.80	42.20	86.30	106.–	145.–	306.–	424.–	
Located bearing NDE	**L21**	39.80	42.20	46.50	49.30	□	□	□	
Bearing design for increased cantilever forces	**L22**	80.90	89.40	117.–	133.–	175.–	278.–	322.–	
Regreasing device [14]	**L23**	–	–	325.–	336.–	363.–	383.–	430.–	
Reinforced bearings at both ends for DE and NDE, bearing size 63	**L25**	168.–	203.–	237.–	265.–	353.–	468.–	576.–	
Bearing insulation NDE	**L51**	–	–	557.–	1250.–	1300.–	1350.–	1370.–	
Measuring nipple for SPM shock pulse measurement for bearing inspection [14]	**Q01**	–	–	288.–	317.–	350.–	377.–	408.–	
Balance and vibration quantity									
Half-key balancing (standard)		□	□	□	□	□	□	□	
Balancing without key	**L01**	21.80	21.80	28.40	33.60	33.60	43.70	43.70	
Full-key balancing	**L02**	96.10	111.–	111.–	129.–	129.–	162.–	162.–	
Shaft and rotor									
Shaft extension with standard dimensions, without feather keyway	**L04**	468.–	496.–	553.–	580.–	610.–	708.–	779.–	
Standard cylindrical shaft extension (second shaft extension) NDE in accordance with EN 50347	**L05**	97.80	97.80	143.–	189.–	217.–	328.–	364.–	
Standard shaft made of stainless steel	**L06**	838.–	838.–	–	1110.–	1390.–	2470.–	2860.–	
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	**L07**	244.–	244.–	244.–	408.–	408.–	211.–	238.–	
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors	**L08**	180.–	211.–	211.–	302.–	374.–	452.–	527.–	
Non-standard cylindrical shaft extension, DE [15]	**Y58** • and customer specifications	468.–	496.–	496.–	580.–	610.–	687.–	757.–	
Non-standard cylindrical shaft extension, NDE [15]	**Y59** • and customer specifications	468.–	496.–	496.–	580.–	610.–	687.–	757.–	
Heating and ventilation									
Mounting of separately driven fan	**F70**	840.–	840.–	987.–	1070.–	1240.–	1370.–	2050.–	
Sheet metal fan cover	**F74**	56.70	62.40	73.70	79.40	85.–	85.–	104.–	
Fan cover for textile industry [16]	**F75**	119.–	196.–	452.–	572.–	676.–	676.–	944.–	
Metal external fan	**F76**	150.–	150.–	224.–	261.–	302.–	339.–	374.–	
Without external fan and without fan cover	**F90**	118.–	118.–	118.–	118.–	118.–	118.–	118.–	
Anti-condensation heating for 230 V (2 terminals)	**Q02**	414.–	414.–	459.–	519.–	576.–	639.–	734.–	
Anti-condensation heating for 115 V (2 terminals)	**Q03**	414.–	414.–	459.–	519.–	576.–	639.–	734.–	
Rating plate and extra rating plates									
Second rating plate, loose	**M10**	21.10	21.10	21.10	21.10	21.10	67.60	67.60	
Rating plate, stainless steel	**M11**	42.20	42.20	42.20	42.20	42.20	51.60	51.60	
Extra rating plate with customer specifications	**Y82** • and customer specifications	41.50	41.50	41.50	41.50	41.50	69.40	69.40	

For legends and footnotes, see Page 3/20.

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Synchronous reluctance motors for SINAMICS converters – VSD4000 line
Article No. supplements and special versions

Options · Aluminum series 1FP1014

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 80	80	112	132	160	180	200	Motor version
		1FP1014							Super Premium Efficiency
1FP1014-. . . . . -. . . . -Z	Order code								
Rating plate and extra rating plates (continued)									
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	41.50	41.50	41.50	41.50	41.50	69.40	69.40	
Adhesive label, supplied loose	**Y85** • and customer specifications	–	–	41.50	41.50	41.50	67.60	67.60	
Extension of the liability for defects									
Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery [21]		□	□	□	□	□	□	□	
Packaging, safety notes, documentation and test certificates									
With a safety and commissioning instruction enclosed in each wire-lattice pallet [17]	**B01**	O	O	O	O	O	O	O	
Acceptance test certificate 3.1 according to EN 10204 [18]	**B02**	28.70	28.70	28.70	28.70	28.70	28.70	28.70	
Document – Electrical data sheet	**B60**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	
Document – Order dimensional drawing	**B61**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	
Type test with heat run for horizontal motors, with acceptance	**B83**	5730.–	6520.–	8070.–	8840.–	9620.–	10400.–	11200.–	
Documentation package "Basic"	**B90**	609.–	609.–	609.–	609.–	609.–	609.–	609.–	
Documentation package "Advanced"	**B91**	924.–	924.–	924.–	924.–	924.–	924.–	924.–	
Documentation package "Projects"	**B92**	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	
Wire-lattice pallet packaging	**B99**	O	O	O	O	O	O	O	
Connected in star for dispatch	**M01**	–	–	28.90	28.90	28.90	37.90	37.90	
Connected in delta for dispatch	**M02**	–	–	28.90	28.90	28.90	37.90	37.90	

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
O. R. Possible on request
– Not possible

1) With order code **H08** feet dimensions differ from EN 50347. Further information is available in DT Configurator (see Appendix, "Tools and Configuring").

2) With IM B5 flange, only possible in combination with order code **H08**.

3) The grease lifetime specified in Section 1 "Introduction" refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease service lifetime or relubrication interval is halved.

4) A second shaft extension is not possible. Please inquire for mounted brakes.

5) For order codes **F10**, **F11** and **F12**, the brake supply voltage must be specified or ordered.

6) In combination with a separately driven fan (order code **F70**) the 1XP8032-10 rotary pulse encoder is used instead of 1XP8012-10 or 1XP8032-20 is used instead of 1XP8012-20.

7) Motors that are prepared for additional mountings (order codes **G40**, **G41**, **G42**) are supplied without a protective cover as standard. 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 quantity level B. 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.

8) Order code **H00** provides mechanical protection for encoders.

9) 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.

10) Not possible in combination with HOG 9 DN 1024 I rotary pulse encoder (order code **G05**) and/or brake 2LM8 (order code **F01**).

11) Not possible in combination with brake 2LM8 (order code **F01**).

12) Motors that are prepared for additional mountings (order codes **G40**, **G41**, **G42**) are supplied without a protective cover as standard. 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 quantity level B.

13) Not possible for type of construction IM V3.

14) Not possible when brake is mounted.

15) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer 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**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under "Dimensions")
– Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension.
For explanation of the order codes, see Catalog Section 1 "Introduction".

16) The special requirements of the textile industry regarding the sheet metal cover open up the possibility that a finger may be inserted between the cover and enclosure. The customer must implement appropriate measures to ensure that the installed system is "finger-safe".

17) The Operating Instructions are available in PDF format for all official EU languages at http://support.automation.siemens.com/WW/view/en/40761976

18) The delivery time for the factory test certificate may differ from the delivery time for the motor and it will be dispatched by email.

19) Not UL-certified. Not possible in combination with the option **D31**.

20) Only possible in combination with order codes **R70** and **R71**.

21) Wearing parts (bearings) are excluded from the warranty extension.

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size								Motor version
		80	**90**	**112**	**132**	**160**	**180**	**200**	**225**	
		1FP1514								Super Premium Efficiency
1FP1514-. . . . . -. . . . -Z	Order code									
Motor protection										
1 or 3 PTC thermistors – for tripping (2 terminals) [2) 3)]	**Q11**	40.50	43.50	119.–	119.–	119.–	180.–	180.–	325.–	
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [3)]	**Q12**	176.–	176.–	205.–	205.–	176.–	274.–	421.–	548.–	
1 temperature sensor KTY84-130 (2 terminals) [3)]	**Q23**	105.–	105.–	119.–	119.–	274.–	180.–	339.–	463.–	
2 temperature sensors KTY84-130 (4 terminals) [3)]	**Q25**	201.–	210.–	241.–	241.–	359.–	359.–	550.–	756.–	
3 bimetal sensors (NC contact) for tripping (2 terminals) [3)]	**Q31**	117.–	117.–	134.–	196.–	196.–	196.–	270.–	365.–	
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals)	**Q32**	–	–	–	–	352.–	477.–	477.–	647.–	
6 bimetal sensors (NC contact) for tripping (6 terminals)	**Q33**	–	–	144.–	206.–	206.–	281.–	281.–	376.–	
6 bimetal sensors (NC contact) for alarm and tripping (12 terminals)	**Q34**	–	–	251.–	362.–	362.–	488.–	488.–	658.–	
1 Pt1000 resistance thermometer (2 terminals) [19)]	**Q35**	105.–	105.–	119.–	180.–	180.–	339.–	339.–	463.–	
2 Pt1000 resistance thermometers (4 terminals) [19)]	**Q36**	211.–	211.–	241.–	359.–	359.–	550.–	550.–	756.–	
Installation of 3 Pt100 resistance the mometers in stator winding, 2-wire circuit	**Q60**	–	–	1240.–	1240.–	1250.–	1510.–	1510.–	1510.–	
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**Q62**	–	–	1040.–	1040.–	1040.–	1340.–	1340.–	1340.–	
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals)	**Q63**	–	–	1310.–	1310.–	1310.–	2010.–	2010.–	2010.–	
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals)	**Q64**	–	–	2020.–	2020.–	2020.–	2960.–	2960.–	2960.–	
2 Pt100 screw-in thermometers in basic circuit for bearings (2 terminals) [1)]	**Q72**	–	–	–	–	–	4300.–	4300.–	4300.–	
2 Pt100 screw-in thermometers in 3-wire circuit for bearings (6 terminals)	**Q78**	–	–	–	–	–	4730.–	4730.–	4730.–	
2 double Pt100 screw-in thermometers in 3-wire circuit for bearings (12 terminals)	**Q79**	–	–	–	–	–	5670.–	5670.–	5670.–	
Motor connection and terminal box										
External grounding	**H04**	24.–	24.–	28.90	28.90	28.90	□	□	□	
Terminal box on NDE [2)]	**H08**	126.–	145.–	220.–	286.–	388.–	967.–	999.–	1050.–	
Second external grounding	**H70**	–	–	O	O	O	15.80	15.80	15.80	
Rotation of the terminal box through 90°, entry from DE	**R10**	O	O	O	O	O	45.10	58.40	72.10	
Rotation of the terminal box through 90°, entry from NDE	**R11**	O	O	O	O	O	45.10	58.40	72.10	
Rotation of the terminal box through 180°	**R12**	O	O	O	O	O	45.10	58.40	72.10	
One EMC cable gland	**R14**	68.30	68.30	125.–	125.–	174.–	174.–	299.–	299.–	
One metal cable gland	**R15**	59.90	59.90	112.–	112.–	143.–	143.–	165.–	165.–	
EMC cable gland, maximum configuration	**R16**	137.–	137.–	250.–	250.–	362.–	362.–	610.–	610.–	
Larger terminal box	**R50**	103.–	103.–	214.–	274.–	313.–	475.–	523.–	1660.–	
Terminal box without cable entry opening	**R51**	–	–	O	O	O	O	O	O	
Drilled removable entry plate	**R52**	–	–	–	–	–	273.–	294.–	294.–	
Undrilled removable entry plate	**R53**	–	–	–	–	–	273.–	294.–	294.–	
Cast-iron auxiliary terminal box (small)	**R62**	–	–	284.–	284.–	284.–	284.–	284.–	284.–	
Silicon-free version		–	–	□	□	□	□	□	□	
Non-standard threaded through hole (NPT or G thread)	**Y61** • and customer specifications	–	–	155.–	155.–	155.–	203.–	270.–	338.–	

For legends, see Page 3/24, for footnotes, see Page 3/25.

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Synchronous reluctance motors for SINAMICS converters – VSD4000 line
Article No. supplements and special versions

Options · Cast-iron series 1FP1514

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 80	90	112	132	160	180	200	225	Motor version
		1FP1514								Super Premium Efficiency
1FP1514-. . . . . -. . . . -Z	Order code									
Windings and insulation										
Temperature class 180 (H) at rated power and max. CT 60 °C [3]	**N11**	220.–	220.–	305.–	405.–	494.–	702.–	982.–	1200.–	
Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N30**	137.–	137.–	137.–	137.–	210.–	305.–	420.–	652.–	
Increased air humidity/temperature with 60 to 100 g water per m^3 of air	**N31**	220.–	220.–	252.–	284.–	399.–	515.–	662.–	935.–	
Colors and paint finish										
Standard finish C2 in RAL 7030 stone gray		□	□	□	□	□	□	□	□	
Unpainted (only cast-iron parts primed)	**S00**	O	O	O	O	O	O	O	O	
Unpainted, only primed	**S01**	20.90	27.80	27.80	44.40	44.40	83.30	83.30	83.30	
Special finish C3	**S02**	36.80	36.80	63.–	84.–	84.–	115.–	126.–	189.–	
Special finish sea air resistant C4	**S03**	504.–	504.–	536.–	589.–	589.–	630.–	672.–	714.–	
Special paint for use offshore C5	**S04**	2050.–	2050.–	2260.–	2390.–	2510.–	2640.–	2770.–	3200.–	
Internal coating	**S05**	–	–	89.40	89.40	89.40	63.–	68.30	89.40	
Standard finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53** • and standard finish RAL….	26.30	26.30	42.–	57.80	57.80	84.–	115.–	126.–	
Finish in special RAL colors: For RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56** • and special finish RAL….	620.–	620.–	662.–	694.–	694.–	704.–	714.–	725.–	
Modular technology – Basic versions [4]										
Mounting of brake [5]	**F01**	–	–	799.–	1030.–	2040.–	4510.–	6300.–	8010.–	
Mounting of Kübler Sendix 5020 HTL, 1024 I rotary pulse encoder	**G11**	748.–	793.–	895.–	941.–	986.–	1030.–	1080.–	1140.–	
Mounting of Kübler Sendix 5020 TTL, 1024 I rotary pulse encoder	**G12**	1030.–	1100.–	1250.–	1330.–	1410.–	1480.–	1550.–	1640.–	
Modular technology – Additional versions										
Brake supply voltage 24 V DC	**F10**	–	–	52.90	52.90	52.90	70.60	70.60	70.60	
Brake supply voltage 230 V AC, 50/60 Hz	**F11**	–	–	O	O	O	O	O	O	
Brake supply voltage 400 V AC, 50/60 Hz	**F12**	–	–	52.90	52.90	52.90	70.60	70.60	70.60	
Brake supply voltage 180 V AC	**F17**	–	–	52.90	52.90	52.90	70.60	70.60	70.60	
Brake supply voltage 205 V AC	**F18**	–	–	52.90	52.90	52.90	70.60	70.60	70.60	
Reverse running stop, reverse movement left locked, rotating direction right	**F40**	–	–	–	5470.–	5780.–	6080.–	6080.–	6300.–	
Reverse running stop, reverse movement right locked, rotating direction left	**F41**	–	–	–	5470.–	5780.–	6080.–	6080.–	6300.–	
Mechanical manual brake release with lever (no locking)	**F50**	–	–	264.–	294.–	426.–	620.–	723.–	868.–	
Special technology [5]										
Mounting of LL 861 900 220 rotary pulse encoder [8]	**G04**	–	–	3000.–	3000.–	3000.–	3000.–	3000.–	4180.–	
Mounting of HOG 9 DN 1024 I rotary pulse encoder [8]	**G05**	–	–	3540.–	3540.–	3540.–	4570.–	4570.–	4950.–	
Mounting of HOG 10 D 1024 I rotary pulse encoder [8]	**G06**	–	–	4570.–	4570.–	4570.–	4570.–	4570.–	6000.–	
Mounting of POG 10 D rotary pulse encoder (only in combination with separately driven fan or brake) [19]	**G07**	–	–	–	–	–	6380.–	6410.–	6440.–	
Mounting of POG 9 rotary pulse encoder (only in combination with separately driven fan or brake) [19]	**G08**	–	–	–	–	–	14700.–	14900.–	18000.–	
Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	**G21**	2360.–	2480.–	2680.–	2830.–	3050.–	3210.–	3330.–	3430.–	
Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	**G22**	2710.–	2860.–	3120.–	3300.–	3520.–	3630.–	3750.–	3880.–	
Mounting of HOGS100S-B76.626.01024.1 rotary pulse encoder	**G25**	–	–	–	–	–	14000.–	14000.–	17400.–	
Mounting of LL FSI 862-184560-1024, SIL-2 rotary pulse encoder	**G27**	–	–	–	–	–	15500.–	15500.–	20200.–	
Mounting a special type of rotary pulse encoder	**Y70** • and customer specifications	–	–	–	–	–	O. R.	O. R.	O. R.	

For legends, see Page 3/24, for footnotes, see Page 3/25.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 80	90	112	132	160	180	200	225	Motor version
		1FP1514								Super Premium Efficiency
1FP1514-. . . . . -. . . . -Z	Order code									
Mechanical design and degrees of protection										
Prepared for mountings, center hole only	**G40**	70.10	70.10	70.10	93.–	107.–	□	□	□	
Prepared for mountings with D12 shaft	**G41**	143.–	152.–	168.–	189.–	225.–	462.–	462.–	589.–	
Prepared for mountings with D16 shaft	**G42**	143.–	143.–	168.–	189.–	225.–	462.–	462.–	589.–	
Mechanical protection for encoders	**G43**	72.30	72.30	80.70	141.–	141.–	212.–	212.–	212.–	
Protective cover [6) 8) 9)]	**H00**	56.70	56.70	82.40	144.–	144.–	192.–	289.–	383.–	
Screwed-on (instead of cast) feet	**H01**	–	–	113.–	123.–	132.–	371.–	437.–	517.–	
Vibration-proof version (continuous vibration resistance to Class 3M4 according to IEC721-3-3:1994)	**H02**	148.–	168.–	209.–	226.–	263.–	315.–	378.–	442.–	
Condensation drainage holes		67.60	75.50	□	□	□	□	□	□	
Rust-resistant screws (externally)	**H07**	68.30	68.30	82.70	97.80	97.80	112.–	128.–	170.–	
IP66 degree of protection	**H19**	316.–	316.–	316.–	316.–	471.–	630.–	787.–	949.–	
IP65 degree of protection [10)]	**H20**	150.–	150.–	150.–	150.–	224.–	302.–	374.–	452.–	
IP54 degree of protection	**H21**	–	–	–	–	–	840.–	840.–	840.–	
IP56 degree of protection [11)]	**H22**	166.–	166.–	166.–	166.–	247.–	328.–	413.–	497.–	
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar [12)]	**H23**	48.30	52.–	62.90	76.80	112.–	145.–	180.–	239.–	
Coolant temperature and installation altitude										
Coolant temperature –50 to +40 °C	**D02**	–	–	788.–	946.–	1100.–	2590.–	2770.–	4000.–	
Coolant temperature –40 to +40 °C [13)]	**D03**	257.–	322.–	489.–	566.–	650.–	721.–	836.–	1070.–	
Coolant temperature –30 to +40 °C	**D04**	56.70	56.70	70.80	85.–	85.–	113.–	142.–	567.–	
Designs in accordance with standards and specifications										
Design according to UL and CSA (Canadian regulations)	**D39**	81.90	91.–	119.–	153.–	187.–	300.–	411.–	517.–	
TR CU product safety certificate EAC for Eurasian Customs Union	**D47**	26.30	31.50	52.50	84.–	137.–	179.–	252.–	325.–	
Bearings and lubrication										
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A [14)]	**L19**	–	–	–	–	–	383.–	430.–	478.–	
Located bearing DE	**L20**	39.80	42.20	86.30	106.–	145.–	306.–	424.–	597.–	
Located bearing NDE	**L21**	39.80	42.20	46.50	49.30	□	□	□	□	
Bearing design for increased cantilever forces	**L22**	80.90	89.40	117.–	133.–	175.–	278.–	322.–	363.–	
Regreasing device [14)]	**L23**	–	–	325.–	336.–	363.–	383.–	430.–	478.–	
Reinforced bearings at both ends for DE and NDE, bearing size 63	**L25**	168.–	203.–	237.–	265.–	353.–	468.–	576.–	819.–	
Reinforced bearings at both DE and NDE, DE bearing for increased cantilever forces	**L28**	–	–	–	–	–	747.–	900.–	1170.–	
Bearing insulation NDE	**L51**	–	–	530.–	1190.–	1230.–	1280.–	1300.–	1760.–	
Measuring nipple for SPM shock pulse measurement for bearing inspection [14)]	**Q01**	–	–	288.–	317.–	317.–	377.–	408.–	439.–	
Balance and vibration quantity										
Half-key balancing (standard)		□	□	□	□	□	□	□	□	
Balancing without key	**L01**	21.80	21.80	28.40	33.60	33.60	43.70	43.70	59.30	
Full-key balancing	**L02**	96.10	111.–	111.–	129.–	129.–	162.–	162.–	209.–	
Shaft and rotor										
Shaft extension with standard dimensions, without feather keyway	**L04**	468.–	496.–	553.–	580.–	610.–	708.–	779.–	850.–	
Standard cylindrical shaft extension (second shaft extension) NDE in accordance with EN 50347	**L05**	97.80	97.80	143.–	189.–	217.–	328.–	364.–	384.–	
Standard shaft made of stainless steel	**L06**	126.–	147.–	232.–	357.–	567.–	675.–	1010.–	1390.–	
Concentricity of shaft extension in acc. with DIN 42955 Tolerance R	**L07**	244.–	244.–	268.–	408.–	408.–	211.–	238.–	283.–	
Concentricity of shaft extension, coaxiality and linear movement in acc. with DIN 42955 Tolerance R for flange-mounting motors	**L08**	180.–	211.–	270.–	302.–	374.–	452.–	527.–	601.–	
Non-standard cylindrical shaft extension, DE [15)]	**Y58** • and customer specifications	468.–	496.–	553.–	580.–	610.–	708.–	779.–	850.–	
Non-standard cylindrical shaft extension, NDE [15)]	**Y59** • and customer specifications	468.–	496.–	553.–	580.–	610.–	708.–	779.–	850.–	
Special shaft steel	**Y60** • and customer specifications	–	–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	

For legends, see Page 3/24, for footnotes, see Page 3/25.

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Synchronous reluctance motors for SINAMICS converters – VSD4000 line
Article No. supplements and special versions

Options · Cast-iron series 1FP1514

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 80	90	112	132	160	180	200	225	Motor version
		1FP1514								Super Premium Efficiency
1FP1514-. . . . . -. . . . -Z	Order code									
Heating and ventilation										
Mounting of separately driven fan	**F70**	–	–	–	1070.–	1240.–	1370.–	2050.–	2550.–	
Sheet metal fan cover	**F74**	□	□	73.70	79.40	85.–	85.–	104.–	116.–	
Metal external fan	**F76**	150.–	150.–	224.–	261.–	302.–	339.–	374.–	413.–	
Anti-condensation heating for 230 V	**Q02**	414.–	414.–	459.–	519.–	576.–	639.–	734.–	881.–	
Anti-condensation heating for 115 V	**Q03**	414.–	414.–	459.–	519.–	576.–	639.–	734.–	881.–	
Rating plate and extra rating plates										
Second rating plate, loose	**M10**	21.10	21.10	21.10	21.10	21.10	67.60	67.60	67.60	
Rating plate, stainless steel	**M11**	42.20	42.20	42.20	42.20	42.20	51.60	51.60	69.40	
Extra rating plate with customer specifications	**Y82** • and customer specifications	41.50	41.50	41.50	41.50	41.50	69.40	69.40	69.40	
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	41.50	41.50	41.50	41.50	41.50	69.40	69.40	69.40	
Adhesive label, supplied loose	**Y85** • and customer specifications	–	–	41.50	41.50	41.50	67.60	67.60	67.60	
Extension of the liability for defects										
Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery [16]		□	□	□	□	□	□	□	□	
Packaging, safety notes, documentation and test certificates										
Acceptance test certificate 3.1 according to EN 10204 [17]	**B02**	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	
Document – Electrical data sheet	**B60**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	
Document – Order dimensional drawing	**B61**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	
Standard test (routine test) with acceptance	**B65**	–	–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	
Type test with heat run for horizontal motors, with acceptance	**B83**	5730.–	6520.–	8070.–	8840.–	9620.–	10400.–	11200.–	11900.–	
Documentation package “Basic”	**B90**	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	
Documentation package “Advanced”	**B91**	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	
Documentation package “Projects”	**B92**	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	
Connected in star for dispatch	**M01**	24.–	24.–	28.90	28.90	28.90	37.90	37.90	37.90	
Connected in delta for dispatch	**M02**	24.–	24.–	28.90	28.90	28.90	37.90	37.90	37.90	

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
O. R. Possible on request
– Not possible

For footnotes, see Page 3/25.

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

2) With order code **H08** feet dimensions differ from EN 50347.
Further information is available in DT Configurator (see Appendix, “Tools and Configuring”).

3) The grease lifetime specified in Section 1 “Introduction” refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease service lifetime or relubrication interval is halved.

4) A second shaft extension is not possible. Please inquire for mounted brakes.

5) For order codes **F10**, **F11** and **F12**, the brake supply voltage must be specified or ordered.

6) 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.

7) 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.

8) The LL and HOG rotary pulse encoders up to frame size 160 are fitted with a protective cover as standard. The protective cover is omitted at the factory when a rotary pulse encoder is combined with a separately driven fan, because in this case the rotary pulse encoder is installed under the fan cover.

9) Order code **H00** provides mechanical protection for encoders.

10) Not possible in combination with HOG 9 DN 1024 I rotary pulse encoder (order code **G05**) and/or brake 2LM8 (order code **F01**).

11) Not possible in combination with brake 2LM8 – order code **F01**.

12) Not possible for type of construction IM V3.

13) In connection with mountings, the respective technical data must be observed, please inquire before ordering.

14) Up to frame size 160 not possible when brake is mounted.

15) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer 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**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under “Dimensions”)
– Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension.
For explanation of the order codes, see Catalog Section 1 “Introduction”.

16) Wear parts (bearings) are excluded from the warranty extension.

17) The delivery time for the factory test certificate may differ from the delivery time for the motor.

18) Option (encoder mounting) is only possible for motors with a mounted separately driven fan or for naturally cooled motors (without a separately driven 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!

19) Not UL-certified. Not possible in combination with the option **D31**.

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Overview

Category	**Motors with Basic Efficiency**
Series version	**Aluminum series 1LE1092**
Motor mode	Three-phase asynchronous motor with squirrel-cage rotor
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55
Insulation	Thermal class F (155)
Number of poles	2, 4
Frame sizes (FS)	100 L ... 160 L
Rated power at 50 Hz	2.2 ... 18.5 kW
Synchronous speed at 50 Hz	1500 ... 3000 rpm
Rated torque at 50 Hz	9.6 ... 95 Nm
Efficiency	Basic Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 3/4, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz			
3	**100 L**	**1LE1092-1AA4.-....**	**907.–**
4	**112 M**	**1LE1092-1BA2.-....**	**1150.–**
5.5	**132 S**	**1LE1092-1CA0.-....**	**1480.–**
7.5	**132 S**	**1LE1092-1CA1.-....**	**1900.–**
11	**160 M**	**1LE1092-1DA2.-....**	**2480.–**
15	**160 M**	**1LE1092-1DA3.-....**	**3220.–**
18.5	**160 L**	**1LE1092-1DA4.-....**	**3770.–**
4-pole: 1500 rpm at 50 Hz			
2.2	**100 L**	**1LE1092-1AB4.-....**	**788.–**
3	**100 L**	**1LE1092-1AB5.-....**	**907.–**
4	**112 M**	**1LE1092-1BB2.-....**	**1150.–**
5.5	**132 S**	**1LE1092-1CB0.-....**	**1480.–**
7.5	**132 M**	**1LE1092-1CB2.-....**	**1900.–**
11	**160 M**	**1LE1092-1DB2.-....**	**2480.–**
15	**160 L**	**1LE1092-1DB4.-....**	**3220.–**

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Overview

Category	**Motors with Basic Efficiency** (continued)
Series version	**Cast-iron series 1LE1592**
Motor mode	Three-phase asynchronous motor with squirrel-cage rotor
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55
Insulation	Thermal class F (155)
Number of poles	2, 4
Frame sizes (FS)	100 L ... 315 L
Rated power at 50 Hz	2.2 ... 200 kW
Synchronous speed at 50 Hz	1500 ... 3000 rpm
Rated torque at 50 Hz	9.6 ... 1273 Nm
Efficiency	Basic Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	Frame sizes 100 ... 160: 3F2 Frame sizes 180 ... 225: 3F3, Frame sizes 250 ... 315: 3F4

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 3/4, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	Frame size FS	Article No.	Base price EUR
2-pole: 3000 rpm at 50 Hz			
3	**100 L**	**1LE1592-1AA4.-....**	**1110.–**
4	**112 M**	**1LE1592-1BA2.-....**	**1430.–**
5.5	**132 S**	**1LE1592-1CA0.-....**	**1750.–**
7.5	**132 S**	**1LE1592-1CA1.-....**	**2240.–**
11	**160 M**	**1LE1592-1DA2.-....**	**2930.–**
15	**160 M**	**1LE1592-1DA3.-....**	**3780.–**
18.5	**160 L**	**1LE1592-1DA4.-....**	**4210.–**
22	**180 M**	**1LE1592-1EA2.-....**	**4970.–**
30	**200 L**	**1LE1592-2AA4.-....**	**6430.–**
37	**200 L**	**1LE1592-2AA5.-....**	**7820.–**
45	**225 M**	**1LE1592-2BA2.-....**	**9140.–**
55	**250 M**	**1LE1592-2CA2.-....**	**11100.–**
75	**280 S**	**1LE1592-2DA0.-....**	**16200.–**
90	**280 M**	**1LE1592-2DA2.-....**	**19000.–**
4-pole: 1500 rpm at 50 Hz			
2.2	**100 L**	**1LE1592-1AB4.-....**	**971.–**
3	**100 L**	**1LE1592-1AB5.-....**	**1110.–**
4	**112 M**	**1LE1592-1BB2.-....**	**1430.–**
5.5	**132 S**	**1LE1592-1CB0.-....**	**1750.–**
7.5	**132 M**	**1LE1592-1CB2.-....**	**2240.–**
11	**160 M**	**1LE1592-1DB2.-....**	**2930.–**
15	**160 L**	**1LE1592-1DB4.-....**	**3780.–**
18.5	**180 M**	**1LE1592-1EB2.-....**	**4210.–**
22	**180 L**	**1LE1592-1EB4.-....**	**4970.–**
30	**200 L**	**1LE1592-2AB5.-....**	**6430.–**
37	**225 S**	**1LE1592-2BB0.-....**	**7570.–**
45	**225 M**	**1LE1592-2BB2.-....**	**9140.–**
55	**250 M**	**1LE1592-2CB2.-....**	**11100.–**
75	**280 S**	**1LE1592-2DB0.-....**	**16200.–**
90	**280 M**	**1LE1592-2DB2.-....**	**19000.–**
110	**315 S**	**1LE1592-3AB0.-....**	**22800.–**
132	**315 M**	**1LE1592-3AB2.-....**	**27100.–**
160	**315 L**	**1LE1592-3AB4.-....**	**32400.–**
200	**315 L**	**1LE1592-3AB5.-....**	**40400.–**

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Selection and ordering data

Voltages	Article No. supplement			Frame size				Motor version
	Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	**100**	**112**	**132**	**160**	
				1LE1092				Standard Efficiency
1LE1092- . . . . ■ - ■ . . .			Order code					
Voltage at 50 Hz or 60 Hz								
Line voltage: 50 Hz, 400 V 60 Hz, 480 V	**2**	**1**	**–**	□	□	□	□	
Line voltage: 50 Hz, 690 V	**3**	**3**	**–**	315.–	420.–	567.–	1050.–	
Non-standard voltage and/or frequencies								
Non-standard winding Reinforced insulation system (Advanced)	**9**	**0**	**M1Y** • and customer specifications	108.–	132.–	167.–	208.–	
Non-standard winding Special insulation system (Premium)	**9**	**0**	**M2Y** • and customer specifications	420.–	552.–	725.–	1260.–	

□ Standard version
• This order code only determines the price of the version – additional plain text is required.

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Selection and ordering data

Voltages	Article No. supplement			Frame size										Motor version
	Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	**100**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	**315**	
				1LE1592										Standard Efficiency
1LE1592-. . . . ■ - ■ . . .			Order code											
Voltage at 50 Hz or 60 Hz														
Line voltage: 50 Hz, 400 V 60 Hz, 480 V	**2**	**1**	**–**	□	□	□	□	□	□	□	□	□	□	
Line voltage: 50 Hz, 500 V 60 Hz, 600 V	**2**	**6**	**–**	315.–	420.–	567.–	1050.–	1260.–	1680.–	1890.–	2100.–	2630.–	2630.–	
Line voltage: 50 Hz, 690 V	**3**	**3**	**–**	315.–	420.–	567.–	1050.–	1260.–	1680.–	1890.–	2100.–	2630.–	2630.–	
Non-standard voltage and/or frequencies														
Non-standard winding Reinforced insulation system (Advanced)	**9**	**0**	**M1Y •** and customer specifications	108.–	132.–	167.–	208.–	268.–	326.–	483.–	609.–	779.–	1010.–	
Non-standard winding Special insulation system (Premium)	**9**	**0**	**M2Y •** and customer specifications	420.–	552.–	725.–	1260.–	1520.–	2000.–	2320.–	2570.–	3150.–	5620.–	

□ Standard version
• This order code only determines the price of the version – additional plain text is required.

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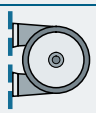
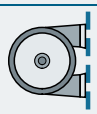
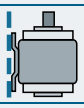
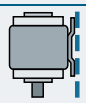
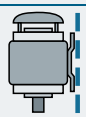
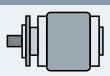
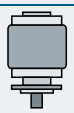
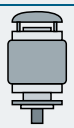
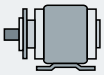
Standard induction motors optimized for converter operation – VSD10 line
Article No. supplements and special versions

Selection and ordering data

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 100	112	132	160	Motor version
			1LE1092				Standard Efficiency
1LE1092-. . . . . - . ■ . . (-Z)		Order code					
Without flange							
IM B3 [1] [2] 	A	–	□	□	□	□	
IM B6 [2] 	T	–	□	□	□	□	
IM B7 [2] 	U	–	□	□	□	□	
IM B8 [2] 	V	H00	□	□	□	□	
IM V6 [2] 	D	–	□	□	□	□	
IM V5 without protective cover [2] 	C	–	□	□	□	□	
IM V5 with protective cover [2] [3] [4] [5] 	C	H00	82.40	82.40	144.–	144.–	
With flange	**acc. to EN 50347 acc. to DIN 42948**		**FF215 A 250**	**FF215 A 250**	**FF265 A 300**	**FF300 A 350**	
IM B5 [2] [6] 	F	–	81.30	101.–	132.–	170.–	
IM V1 without protective cover [2] 	G	–	81.30	101.–	132.–	170.–	
IM V1 with protective cover [2] [3] [4] [5] 	G	H00	163.70	183.40	276.–	314.–	
IM V3 [3] 	H	–	81.30	101.–	132.–	170.–	
IM B35 	J	–	89.40	110.–	137.–	189.–	

For legends and footnotes, see Page 3/33.

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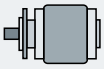
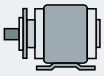
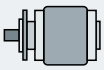
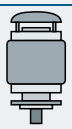
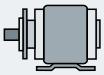
Types of construction	Article No. supplement		Frame size				Motor version
	Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**100**	**112**	**132**	**160**	
			1LE1092				Standard Efficiency
1LE1092-. . . . . - . ■ . . (-Z)		Order code					
With special flange next larger	**acc. to EN 50347**		**FF265**	**FF265**	**FF300**	**–**	
	acc. to DIN 42948		**A 300**	**A 300**	**A 350**	**–**	
IM B5 [2] [6] 	**F**	**P01**	129.–	148.70	191.60	–	
IM V1 without protective cover [2] 	**G**	**P01**	129.–	148.70	191.60	–	
IM V1 with protective cover [2] [3] [4] [5] 	**G**	**P01+H00**	211.40	231.10	335.60	–	
IM V3 [3] 	**H**	**P01**	129.–	148.70	191.60	–	
IM B35 	**J**	**P01**	137.10	157.70	196.60	–	
With special flange next smaller	**acc. to EN 50347**		**FF165**	**FF165**	**FF215**	**FF265**	
	acc. to DIN 42948		**A 200**	**A 200**	**A 250**	**A 300**	
IM B5 [2] [6] 	**F**	**P02**	285.30	346.–	448.–	578.–	
IM V1 without protective cover [2] 	**G**	**P02**	285.30	346.–	448.–	578.–	
IM V1 with protective cover [2] [3] [4] [5] 	**G**	**P02+H00**	367.70	428.40	592.–	722.–	
IM V3 [3] 	**H**	**P02**	285.30	346.–	448.–	578.–	
IM B35 	**J**	**P02**	293.40	355.–	453.–	597.–	

For legends and footnotes, see Page 3/33.

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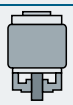
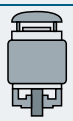
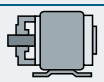
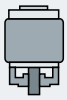
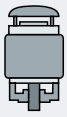
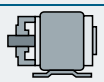
Standard induction motors optimized for converter operation – VSD10 line
Article No. supplements and special versions

Types of construction · Aluminum series 1LE1092

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size 100	112	132	160	Motor version
			1LE1092				Standard Efficiency
1LE1092-. . . . . - . ■ . . (-Z)		Order code					
With flange	**acc. to EN 50347**		**FT130**	**FT130**	**FT165**	**–**	
	acc. to DIN 42948		**C 160**	**C 160**	**C 200**	**–**	
IM B14 2) 7) 	**K**	**–**	81.30	101.–	132.–	170.–	
IM V19 2) 	**L**	**–**	81.30	101.–	132.–	170.–	
IM V18 without protective cover 2) 	**M**	**–**	81.30	101.–	132.–	170.–	
IM V18 with protective cover 2) 3) 4) 5) 	**M**	**H00**	163.70	183.4	276.–	314.–	
IM B34 	**N**	**–**	89.40	110.–	137.–	189.–	
With special flange next larger	**acc. to EN 50347**		**FT165**	**FT165**	**FT215**	**–**	
	acc. to DIN 42948		**C 200**	**C 200**	**C 250**	**–**	
IM B14 2) 7) 	**K**	**P01**	129.–	148.70	179.7	–	
IM V19 2) 	**L**	**P01**	129.–	148.7	179.7	–	
IM V18 without protective cover 2) 	**M**	**P01**	129.–	148.7	179.7	–	
IM V18 with protective cover 2) 3) 4) 5) 	**M**	**P01+H00**	211.40	231.10	335.60	–	
IM B34 	**N**	**P01**	137.10	157.70	196.60	–	

For legends and footnotes, see Page 3/33.

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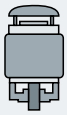
Types of construction	Article No. supplement		Frame size				Motor version
	Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**100**	**112**	**132**	**160**	
			1LE1092				Standard Efficiency
1LE1092-. . . . . - . ■ **. . (-Z)**		Order code					
With special flange next smaller	**acc. to EN 50347**		**FT115**	**FT115**	**FT130**	**–**	
	acc. to DIN 42948		**C 140**	**C 140**	**C 160**	**–**	
IM B14  2) 7)	**K**	**P02**	285.30	O. R.	O. R.	–	
IM V19 2) 	**L**	**P02**	285.30	O. R.	O. R.	–	
IM V18 without protective cover 2) 	**M**	**P02**	285.30	O. R.	O. R.	–	
IM V18 with protective cover 2) 3) 4) 5) 	**M**	**P02+H00**	367.70	O. R.	O. R.	–	
IM B34 	**N**	**P02**	293.40	O. R.	O. R.	–	

□ Standard version
– Not possible
O. R. Possible on request

1) The types of construction IM B6/7/8, IM V6 and IM V5 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B3 is then stamped on the rating plate. With type of construction IM V5 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

2) The type of construction is stamped on the rating plate. When ordering with condensation drainage holes (order code **H03**), if mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly.

3) The "Second shaft extension" option (order code **L05**) is not possible.

4) In combination with an encoder it is not necessary to order the protective cover (order code **H00**), as this is delivered as a protection for the encoder as standard. In this case the protective cover is standard version (without additional charge).

5) Not possible for forced-air cooled motors with order code **F90** without external fan and fan cover.

6) The types of construction IM V3 and IM V1 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B5 is then stamped on the rating plate. With type of construction IM V1 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

7) The types of construction IM V19 and IM V18 with/without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard the type of construction IM B14 is then stamped on the rating plate. With type of construction IM V18 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

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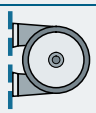
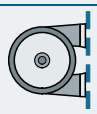
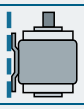
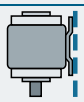
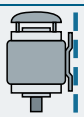
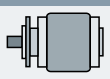
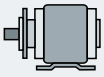
Selection and ordering data

Types of construction		Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 100	112	132	160	180	200	225	250	280	315 S/M	315 L	Motor version
				1LE1592											Standard Efficiency
1LE1592-. . . . . - .		■ . . (-Z)	Order code												
Without flange															
IM B3 1) 2)		**A**	–	□	□	□	□	□	□	□	□	□	□	□	
IM B6 2)		**T**	–	□	□	□	□	□	□	□	□	□	□	□	
IM B7 2)		**U**	–	□	□	□	□	□	□	□	□	□	□	□	
IM B8 2)		**V**	–	□	□	□	□	□	□	□	□	□	□	□	
IM V6 2)		**D**	–	□	□	□	□	□	□	□	□	□	□	□	
IM V5 without protective cover 2)		**C**	–	□	□	□	□	□	□	□	□	□	□	□	
IM V5 with protective cover 2) 3) 4)		**C**	**H00**	82.40	82.40	144.–	144.–	192.–	289.–	383.–	478.–	573.–	766.–	766.–	
With flange		acc. to EN 50347 acc. to DIN 42948		FF215 A 250	FF215 A 250	FF265 A 300	FF300 A 350	FF300 A 350	FF350 A 400	FF400 A 450	FF500 A 550	FF500 A 550	FF600 A 660	– A 660	
IM B5 2) 5)		**F**	–	81.30	101.–	132.–	170.–	269.–	326.–	422.–	507.–	738.–	1050.–	–	
IM V1 without protective cover 2)		**G**	–	81.30	101.–	132.–	170.–	268.–	324.–	424.–	517.–	742.–	1060.–	1060.–	
IM V1 with protective cover 2) 3) 4)		**G**	**H00**	163.70	183.4	276.–	314.–	460.–	613.–	807.–	995.–	1315.–	1826.–	1826.–	
IM V3 4)		**H**	–	81.30	101.–	132.–	170.–	269.–	326.–	422.–	507.–	738.–	1050.–	–	
IM B35		**J**	–	89.40	110.–	137.–	189.–	315.–	420.–	525.–	735.–	946.–	1200.–	1200.–	

For legends and footnotes, see Page 3/37.

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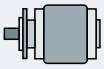
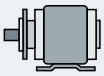
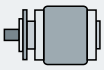
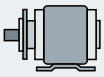
Types of construction	Article No. supplement		Frame size											Motor version
	Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**100**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	**315 S/M**	**315 L**	
			1LE1592											Standard Efficiency
1LE1592-. . . . . - . ■ . . (-Z)		Order code												
With special flange next larger	**acc. to EN 50347**		**FF215**	**FF215**	**FF265**	**FF300**	**FF300**	**FF350**	**FF400**	**FF500**	**FF500**	**FF600**	**–**	
	acc. to DIN 42948		**A 250**	**A 250**	**A 300**	**A 350**	**A 350**	**A 400**	**A 450**	**A 550**	**A 550**	**A 660**	**A 660**	
IM B5 2) 5) 	**F**	**P01**	129.–	148.70	191.60	–	–	–	–	–	–	–	–	
IM V1 without protective cover 2) 	**G**	**P01**	129.–	148.70	191.60	–	–	–	–	–	–	–	–	
IM V1 with protective cover 2) 3) 4) 	**G**	**P01+H00**	211.40	231.10	335.60	–	–	–	–	–	–	–	–	
IM V3 4) 	**H**	**P01**	129.–	148.70	191.60	–	–	–	–	–	–	–	–	
IM B35 	**J**	**P01**	137.10	157.70	196.60	–	–	–	–	–	–	–	–	
With special flange next smaller	**acc. to EN 50347**		**FF165**	**FF165**	**FF215**	**FF265**	**FF265**	**FF300**	**–**	**–**	**–**	**–**	**–**	
	acc. to DIN 42948		**A 200**	**A 200**	**A 250**	**A 300**	**A 300**	**A 350**	**–**	**–**	**–**	**–**	**–**	
IM B5 2) 5) 	**F**	**P02**	285.30	346.–	448.–	578.–	935.–	1122.–	–	–	–	–	–	
IM V1 without protective cover 2) 	**G**	**P02**	285.30	346.–	448.–	578.–	934.–	1120.–	–	–	–	–	–	
IM V1 with protective cover 2) 3) 4) 	**G**	**P02+H00**	367.70	428.40	592.–	722.–	1126.–	1409.–	–	–	–	–	–	
IM V3 4) 	**H**	**P02**	285.30	346.–	448.–	578.–	935.–	1122.–	–	–	–	–	–	
IM B35 	**J**	**P02**	293.40	355.–	453.–	597.–	981.–	1216.–	–	–	–	–	–	

For legends and footnotes, see Page 3/37.

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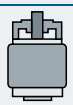
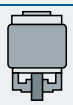
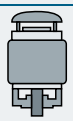
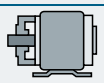
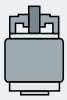
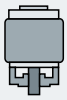
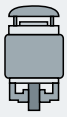
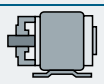
Standard induction motors optimized for converter operation – VSD10 line
Article No. supplements and special versions

Types of construction · Cast-iron series 1LE1592

Types of construction		Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 100	112	132	160	180	200	225	250	280	315 S/M	315 L	Motor version
				1LE1592											Standard Efficiency
1LE1592-. . . . . - .		■ . . (-Z)	Order code												
With flange		**acc. to EN 50347**		**FT130**	**FT130**	**FT165**	**FT215**	–	–	–	–	–	–	–	
		acc. to DIN 42948		**C 160**	**C 160**	**C 200**	**C 250**	–	–	–	–	–	–	–	
IM B14 2) 6)		**K**	**–**	81.30	101.–	132.–	170.–	–	–	–	–	–	–	–	
IM V19 2)		**L**	**–**	81.30	101.–	132.–	170.–	–	–	–	–	–	–	–	
IM V18 without protective cover 2)		**M**	**–**	81.30	101.–	132.–	170.–	–	–	–	–	–	–	–	
IM V18 with protective cover 2) 3) 4)		**M**	**H00**	163.70	183.40	276.–	314.–	–	–	–	–	–	–	–	
IM B34		**N**	**–**	89.40	110.–	137.–	189.–	–	–	–	–	–	–	–	
With special flange next larger		**acc. to EN 50347**		**FT165**	**FT165**	**FT215**	–	–	–	–	–	–	–	–	
		acc. to DIN 42948		**C 200**	**C 200**	**C 250**	–	–	–	–	–	–	–	–	
IM B14 2) 6)		**K**	**P01**	129.–	148.70	191.60	–	–	–	–	–	–	–	–	
IM V19 2)		**L**	**P01**	129.–	148.70	191.60	–	–	–	–	–	–	–	–	
IM V18 without protective cover 2)		**M**	**P01**	129.–	148.70	191.60	–	–	–	–	–	–	–	–	
IM V18 with protective cover 2) 3) 4)		**M**	**P01+H00**	211.40	231.10	335.60	–	–	–	–	–	–	–	–	
IM B34		**N**	**P01**	137.10	157.70	196.60	–	–	–	–	–	–	–	–	

For legends and footnotes, see Page 3/37.

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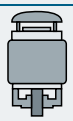
Types of construction	Article No. supplement		Frame size											Motor version
	Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**100**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	**315 S/M**	**315 L**	
			1LE1592											Standard Efficiency
1LE1592-. . . . . - .	■ . . **(-Z)**	Order code												
With special flange next smaller	**acc. to EN 50347**		**FT115**	–	–	–	–	–	–	–	–	–	–	
	acc. to DIN 42948		**C 140**	–	–	–	–	–	–	–	–	–	–	
IM B14  2) 6)	**K**	**P02**	285.30	–	–	–	–	–	–	–	–	–	–	
IM V19 2) 	**L**	**P02**	285.30	–	–	–	–	–	–	–	–	–	–	
IM V18 without protective cover 2) 	**M**	**P02**	129.–	–	–	–	–	–	–	–	–	–	–	
IM V18 with protective cover 2) 3) 4) 	**M**	**P02+H00**	367.70	–	–	–	–	–	–	–	–	–	–	
IM B34 	**N**	**P02**	293.40	–	–	–	–	–	–	–	–	–	–	

□ Standard version
– Not possible

1) The types of construction IM B6/7/8, IM V6 and IM V5 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B3 is then stamped on the rating plate. With type of construction IM V5 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

2) The type of construction is stamped on the rating plate. If mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly.

3) In combination with an encoder it is not necessary to order the protective cover (order code **H00**), as this is delivered as a protection for the encoder as standard. In this case the protective cover is standard version (without additional charge).

4) The "Second shaft extension" option (order code **L05**) is not possible.

5) The types of construction IM V3 and IM V1 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B5 is then stamped on the rating plate. With type of construction IM V1 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

6) The types of construction IM V19 and IM V18 with/without protective cover are also possible as long as no stamping of these types of construction on the rating plate is required. As standard the type of construction IM B14 is then stamped on the rating plate. With type of construction IM V18 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

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Selection and ordering data

Motor protection	Article No. supplement		Frame size				Motor version
	Motor protection code 15th position of the Article No.	Additional identification code with order code and plain text if required	**100**	**112**	**132**	**160**	
			1LE1092				Standard Efficiency
1LE1092-. . . . . - . .	■ .	Order code					
Motor protection							
1 or 3 PTC thermistors – for tripping (2 terminals) [1]	**B**	**–**	119.–	119.–	180.–	180.–	
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [1]	**C**	**–**	205.–	205.–	274.–	274.–	
1 temperature sensor KTY84-130 (2 terminals) [1]	**F**	**–**	119.–	119.–	180.–	180.–	
2 temperature sensors KTY84-130 (4 terminals) [1]	**G**	**–**	241.–	241.–	359.–	359.–	
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals) [1]	**H**	**–**	241.–	241.–	359.–	359.–	
1 Pt1000 resistance thermometer (2 terminals) [1] [2]	**K**	**–**	119.–	119.–	180.–	180.–	
2 Pt1000 resistance thermometers (4 terminals) [1] [2]	**L**	**–**	241.–	241.–	359.–	359.–	
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals) [1]	**P**	**–**	1040.–	1040.–	1040.–	1040.–	
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals) [1]	**Q**	**–**	1310.–	1310.–	1310.–	1310.–	
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals) [1]	**R**	**–**	2020.–	2020.–	2020.–	2020.–	
3 bimetal sensors (NC contact) for tripping (2 terminals) [1]	**Z**	**Q3A**	134.–	134.–	196.–	196.–	Only for: Voltage code 2-1 (12th and 13th position of the Article No.)

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

[2] Not UL-certified. Not possible in combination with the option **D39**.

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Selection and ordering data

Motor protection	Article No. supplement		Frame size										Motor version	
	Motor protection code 15th position of the Article No.	Additional identification code with order code and plain text if required	100	112	132	160	180	200	225	250	280	315		
			1LE1592										Standard Efficiency	
1LE1592-. . . . . - . . ■ .		Order code												
Motor protection														
1 or 3 PTC thermistors – for tripping (2 terminals) [1]	**B**	**–**	119.–	119.–	180.–	180.–	239.–	239.–	325.–	325.–	406.–	406.–		
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [1]	**C**	**–**	205.–	205.–	274.–	274.–	421.–	421.–	548.–	548.–	679.–	679.–		
1 temperature sensor KTY84-130 (2 terminals) [1]	**F**	**–**	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–		
2 temperature sensors KTY84-130 (4 terminals) [1]	**G**	**–**	241.–	241.–	359.–	359.–	550.–	550.–	756.–	1020.–	1020.–	1500.–		
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**H**	**–**	1510.–	1510.–	1510.–	1510.–	1510.–	1510.–	1510.–	1670.–	1670.–	1670.–		
1 Pt1000 resistance thermometer (2 terminals) [3]	**K**	**–**	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–		
2 Pt1000 resistance thermometers (4 terminals) [3]	**L**	**–**	241.–	241.–	359.–	359.–	550.–	550.–	756.–	1020.–	1020.–	1500.–		
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**P**	**–**	1040.–	1040.–	1040.–	1040.–	1340.–	1340.–	1340.–	1340.–	1340.–	1340.–		
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals)	**Q**	**–**	1310.–	1310.–	1310.–	1310.–	2010.–	2010.–	2010.–	2010.–	2010.–	2010.–		
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals)	**R**	**–**	2020.–	2020.–	2020.–	2020.–	2960.–	2960.–	2960.–	2960.–	2960.–	2960.–		
3 bimetal sensors (NC contact) for tripping (2 terminals) [2]	**Z**	**Q3A**	134.–	134.–	196.–	196.–	270.–	270.–	365.–	365.–	453.–	453.–	Only for:	Voltage code 2-1 (12th and 13th position of the Article No.)

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

[2] Not UL-certified. Not in combination with option **D39**..

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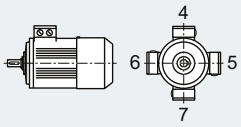
Selection and ordering data

Terminal box position	Article No. supplement		Frame size				Motor version
	Terminal box position code 16th position of the Article No.	Additional identification code with order code and plain text if required	**100**	**112**	**132**	**160**	
			1LE1092				Standard Efficiency
1LE1092-. . . . . -. . . ■		Order code					
Terminal box position							
Terminal box top [1]	**4**	–	□	□	□	□	
Terminal box on RHS [2]	**5**	–	104.–	113.–	123.–	132.–	
Terminal box on LHS [2]	**6**	–	104.–	113.–	123.–	132.–	
Terminal box bottom [2]	**7**	–	104.–	113.–	123.–	132.–	

□ Standard version

3

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

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

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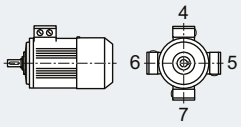
Selection and ordering data

Terminal box position	Article No. supplement		Frame size										Motor version
	Terminal box position code 16th position of the Article No.	Additional identification code with order code and plain text if required	**100**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	**315**	
			1LE1592										Standard Efficiency
1LE1592-. . . . . -. . . ■		Order code											
Terminal box position													
Terminal box top [1]	**4**	–	□	□	□	□	□	□	□	□	□	□	
Terminal box on RHS [2]	**5**	–	104.–	113.–	123.–	132.–	371.–	437.–	517.–	768.–	863.–	993.–	
Terminal box on LHS [2]	**6**	–	104.–	113.–	123.–	132.–	371.–	437.–	517.–	768.–	863.–	993.–	
Terminal box bottom [2]	**7**	–	104.–	113.–	123.–	132.–	–	–	–	–	–	–	

□ Standard version
– Not possible

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

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

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size				Motor version	
		100	**112**	**132**	**160**		
		1LE1092				Standard Efficiency	
1LE1092-. . . . . -. . . . -Z	Order code						
Motor protection							
1 or 3 PTC thermistors – for tripping (2 terminals) [2) 3)]	**Q11**	119.–	119.–	180.–	180.–		
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [3)]	**Q12**	205.–	205.–	274.–	274.–		
1 temperature sensor KTY84-130 (2 terminals) [3)]	**Q23**	119.–	119.–	180.–	180.–		
2 temperature sensors KTY84-130 (4 terminals) [3)]	**Q25**	241.–	241.–	363.–	363.–		
3 bimetal sensors (NC contact) for tripping (2 terminals) [3)]	**Q31**	196.–	196.–	270.–	270.–		
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals)	**Q32**	241.–	241.–	352.–	352.–		
3 bimetal sensors (NC contact) for tripping (6 terminals)	**Q33**	O. R.	O. R.	O. R.	O. R.		
1 Pt1000 resistance thermometer (2 terminals) [20)]	**Q35**	O	O	O	O		
2 Pt1000 resistance thermometers (4 terminals) [20)]	**Q36**	241.–	241.–	359.–	359.–		
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**Q60**	1240.–	1240.–	1240.–	1240.–		
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals)	**Q61**	1920.–	1920.–	1920.–	1920.–		
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**Q62**	1040.–	1040.–	1040.–	1040.–		
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals)	**Q63**	1310.–	1310.–	1310.–	1310.–		
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals)	**Q64**	2020.–	2020.–	2020.–	2020.–		
2 Pt100 screw-in thermometers in basic circuit for bearings (2 terminals)	**Q72**	O. R.	O. R.	O. R.	O. R.		
2 Pt100 screw-in thermometers in 3-wire circuit for bearings (6 terminals)	**Q78**	O. R.	O. R.	O. R.	O. R.		
2 double Pt100 screw-in thermometers in 3-wire circuit for bearings (12 terminals)	**Q79**	O. R.	O. R.	O. R.	O. R.	Not for:	Combination with order code F40 and F41 (frame sizes 225 to 315)
Motor connection and terminal box							
External grounding	**H04**	28.90	28.90	28.90	28.90		
Terminal box on NDE [1)]	**H08**	119.–	147.–	190.–	258.–		
Rotation of the terminal box through 90°, entry from DE [2)]	**R10**	O	O	O	O		
Rotation of the terminal box through 90°, entry from NDE	**R11**	O	O	O	O		
Rotation of the terminal box through 180°	**R12**	O	O	O	O		
Terminal box in position 0°; connection from right [21)]	**R13**	O	O	O	–		
One metal cable gland	**R15**	112.–	112.–	112.–	143.–		
Metal cable gland, maximum configuration	**R18**	159.–	159.–	159.–	209.–		
3 cables protruding, 0.5 m long	**R20**	68.70	82.40	101.–	118.–		
6 cables protruding, 0.5 m long	**R22**	106.–	128.–	158.–	186.–		
Larger terminal box	**R50**	214.–	214.–	274.–	313.–		
Motor connector Han-Drive 10e for 230 VΔ/400 VY	**R70**	388.–	388.–	444.–	–		
Motor connector Han-Drive 10e EMC for 230 VΔ/400 VY	**R71**	527.–	527.–	605.–	–		
Windings and insulation							
Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N30**	137.–	137.–	137.–	210.–		

For legends and footnotes, see Page 3/45.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 100	112	132	160	Motor version
		1LE1092				Standard Efficiency
1LE1092-. . . . . -. . . . -Z	Order code					
Colors and paint finish						
Standard finish C2 in RAL 7030 stone gray		□	□	□	□	
Unpainted (only cast-iron parts primed)	**S00**	O	O	O	O	
Unpainted, only primed	**S01**	27.80	27.80	44.40	44.40	
Special finish C3	**S02**	63.–	63.–	84.–	84.–	
Special finish sea air resistant C4	**S03**	536.–	536.–	589.–	589.–	
Internal coating	**S05**	89.40	89.40	89.40	89.40	
Special finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53 •** and special finish RAL….	42.–	42.–	57.80	57.80	
Finish in special RAL colors: For RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56 •** and special finish RAL….	662.–	662.–	694.–	694.–	
Modular technology – Basic versions [4]						
Mounting of brake [5]	**F01**	657.–	799.–	1030.–	2040.–	
Mounting of brake for higher switching frequency	**F02**	a. A.	a. A.	a. A.	a. A.	
Mounting of Kübler Sendix 5020 HTL, 1024 I rotary pulse encoder	**G11**	838.–	895.–	941.–	986.–	
Mounting of Kübler Sendix 5020 TTL, 1024 I rotary pulse encoder	**G12**	1180.–	1250.–	1330.–	1410.–	
Modular technology – Additional versions						
Brake supply voltage 24 V DC	**F10**	52.90	52.90	52.90	52.90	
Brake supply voltage 230 V AC, 50/60 Hz	**F11**	O	O	O	O	
Brake supply voltage 400 V AC, 50/60 Hz	**F12**	52.90	52.90	52.90	52.90	
Brake supply voltage 180 V AC	**F17**	52.90	52.90	52.90	52.90	Only for: Combination with order code F01
Brake supply voltage 205 V AC	**F18**	52.90	52.90	52.90	52.90	Only for: Combination with order code F01
Mechanical manual brake release with lever (no locking)	**F50**	264.–	264.–	294.–	426.–	
Special technology [3]						
Mounting of LL 861 900 220 rotary pulse encoder [6]	**G04**	3000.–	3000.–	3000.–	3000.–	
Mounting of HOG 9 DN 1024 I rotary pulse encoder [6]	**G05**	3540.–	3540.–	3540.–	3540.–	
Mounting of HOG 10 D 1024 I rotary pulse encoder [6]	**G06**	4570.–	4570.–	4570.–	4570.–	
Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	**G21**	2540.–	2680.–	2830.–	3050.–	
Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	**G22**	2940.–	3120.–	3300.–	3520.–	
Mechanical design and degrees of protection						
Prepared for mountings, center hole only [7]	**G40**	70.10	70.10	93.–	107.–	
Prepared for mountings with D12 shaft [12]	**G41**	152.–	168.–	189.–	225.–	
Prepared for mountings with D16 shaft [12]	**G42**	152.–	168.–	189.–	225.–	
Mechanical protection for encoders	**G43**	80.70	80.70	141.–	141.–	
Protective cover [6] [8]	**H00**	82.40	82.40	144.–	144.–	
Screwed-on (instead of cast) feet	**H01**	104.–	113.–	123.–	132.–	
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994	**H02**	189.–	209.–	226.–	263.–	
Condensation drainage holes [9]	**H03**	82.70	90.30	97.80	105.–	
Rust-resistant screws (externally)	**H07**	82.70	82.70	97.80	97.80	
IP66 degree of protection	**H19**	316.–	316.–	316.–	471.–	
IP65 degree of protection [10]	**H20**	150.–	150.–	150.–	224.–	
IP56 degree of protection [11]	**H22**	166.–	166.–	166.–	247.–	
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar [13]	**H23**	57.50	62.90	76.80	112.–	

For legends and footnotes, see Page 3/45.

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Options · Aluminum series 1LE1092

Special versions	Additional identification code **-Z** with order code and plain text if required		Frame size 100	112	132	160	Motor version
			1LE1092				Standard Efficiency
1LE1092-. . . . . -. . . . -Z	Order code						
Coolant temperature and installation altitude							
Coolant temperature –40 to +40 °C [19]	**D03**		386.–	489.–	566.–	650.–	
Coolant temperature –30 to +40 °C [19]	**D04**		70.80	70.80	85.–	85.–	
Designs in accordance with standards and specifications							
Design according to UL and CSA (Canadian regulations)	**D39**		99.–	117.–	150.–	183.–	
TR CU product safety certificate EAC for Eurasian customs union	**D47**		42.–	52.50	84.–	137.–	
Bearings and lubrication							
Located bearing DE	**L20**		72.80	86.30	106.–	145.–	
Located bearing NDE	**L21**		44.20	46.50	49.30	□	
Bearing design for increased cantilever forces	**L22**		101.–	117.–	133.–	175.–	
Regreasing device [14]	**L23**		317.–	325.–	336.–	363.–	
Reinforced bearings at both ends for DE and NDE, bearing size 63	**L25**		203.–	237.–	265.–	353.–	
Bearing insulation NDE	**L51**	*New!*	541.–	561.–	1250.–	1300.–	
Measuring nipple for SPM shock pulse measurement for bearing inspection [14]	**Q01**		257.–	288.–	317.–	350.–	
Balance and vibration quantity							
Vibration quantity level A			□	□	□	□	
Half-key balancing (standard)			□	□	□	□	
Balancing without key	**L01**		28.40	28.40	33.60	33.60	
Full-key balancing	**L02**		111.–	111.–	129.–	129.–	
Shaft and rotor							
Shaft extension with standard dimensions, without feather keyway	**L04**		525.–	553.–	580.–	610.–	
Standard cylindrical shaft extension (second shaft extension) NDE in accordance with EN 50347	**L05**		143.–	143.–	189.–	217.–	
Standard shaft made of stainless steel	**L06**		962.–	962.–	1110.–	1390.–	
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	**L07**		268.–	268.–	408.–	408.–	
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors	**L08**		241.–	270.–	302.–	374.–	
Non-standard shaft extension, DE [15]	**Y58** • and customer specifications		525.–	553.–	580.–	610.–	
Non-standard shaft extension, NDE [15]	**Y59** • and customer specifications		525.–	553.–	580.–	610.–	
Heating and ventilation							
Mounting of separately driven fan	**F70**		840.–	987.–	1070.–	1240.–	
Sheet metal fan cover	**F74**		67.90	73.70	79.40	85.–	
Fan cover for textile industry [16]	**F75**		316.–	452.–	572.–	676.–	
Metal external fan	**F76**		189.–	224.–	261.–	302.–	
Without external fan and without fan cover	**F90**		118.–	118.–	118.–	118.–	
Anti-condensation heating for 230 V	**Q02**		430.–	459.–	519.–	576.–	
Anti-condensation heating for 115 V	**Q03**		430.–	459.–	519.–	576.–	
Rating plate and extra rating plates							
Second rating plate, loose	**M10**		21.10	21.10	21.10	21.10	
Rating plate, stainless steel	**M11**		42.20	42.20	42.20	42.20	
Extra rating plate with customer specifications	**Y82** • and customer specifications		41.50	41.50	41.50	41.50	
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications		41.50	41.50	41.50	41.50	
Adhesive label, supplied loose	**Y85** • and customer specifications		41.50	41.50	41.50	41.50	

For legends and footnotes, see Page 3/45.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size **100**	**112**	**132**	**160**	Motor version
		1LE1092				Standard Efficiency
1LE1092-. . . . . -. . . . -Z	Order code					
Packaging, safety notes, documentation and test certificates						
With a safety and commissioning instruction enclosed in each wire-lattice pallet [17]	**B01**	O	O	O	O	
Acceptance test certificate 3.1 according to EN 10204 [18]	**B02**	28.70	28.70	28.70	28.70	
Document – Electrical data sheet	**B60**	315.–	315.–	315.–	315.–	
Document – Order dimensional drawing	**B61**	315.–	315.–	315	315.–	
Type test with heat run for horizontal motors, with acceptance	**B83**	7290.–	8070.–	8840.–	9620.–	
Documentation Package “Basic”	**B90**	609.–	609.–	609.–	609.–	
Documentation Package “Advanced”	**B91**	924.–	924.–	924.–	924.–	
Documentation Package “Projects”	**B92**	2520.–	2520.–	2520.–	2520.–	
Wire-lattice pallet packaging	**B99**	O	O	O	O	
Connected in star for dispatch	**M01**	28.90	28.90	28.90	28.90	
Connected in delta for dispatch	**M02**	28.90	28.90	28.90	28.90	

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
O. R. Possible on request
– Not possible

1) With order code **H08** feet dimensions differ from EN 50347. Further information is available in DT Configurator (see Appendix, “Tools and Configuring”).

2) With IM B5 flange, only possible in combination with order code **H08**.

3) The grease lifetime specified in Section 1 “Introduction” refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease service lifetime or relubrication interval is halved.

4) A second shaft extension is not possible. Please inquire for mounted brakes.

5) For order codes **F10**, **F11** and **F12**, the brake supply voltage must be specified or ordered.

6) In combination with a separately driven fan (order code **F70**) the 1XP8032-10 rotary pulse encoder is used instead of 1XP8012-10 or 1XP8032-20 is used instead of 1XP8012-20.

7) Motors that are prepared for additional mountings (order codes **G40**, **G41**, **G42**) are supplied without a protective cover as standard. 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**. 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.

8) Order code **H00** provides mechanical protection for encoders.

9) 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.

10) Not possible in combination with HOG 9 DN 1024 I rotary pulse encoder (order code **G05**) and/or brake 2LM8 (order code **F01**).

11) Not possible in combination with brake 2LM8 (order code **F01**).

12) Motors that are prepared for additional mountings (order codes **G40**, **G41**, **G42**) are supplied without a protective cover as standard. 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**.

13) Not possible for type of construction IM V3.

14) Not possible when brake is mounted.

15) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer 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**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under “Dimensions”)
– Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension.
For explanation of the order codes, see Catalog Section 1 “Introduction”.

16) The special requirements of the textile industry regarding the sheet metal cover open up the possibility that a finger may be inserted between the cover and enclosure. The customer must implement appropriate measures to ensure that the installed system is “finger-safe”.

17) The Operating Instructions are available in PDF format for all official EU languages at http://support.automation.siemens.com/WW/view/en/40761976.

18) The delivery time for the factory test certificate may differ from the delivery time for the motor and it will be dispatched by email.

19) In connection with mountings, the respective technical data must be observed, please inquire before ordering.

20) Not possible in combination with UL.

21) Only possible in combination with order codes **R70** and **R71**.

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 100	112	132	160	180	200	225	250	280	315	Motor version
		1LE1592										Standard Efficiency
1LE1592-. . . . . -. . . . -Z	Order code											
Motor protection												
1 or 3 PTC thermistors – for tripping (2 terminals) [2) 3)]	**Q11**	119.–	119.–	180.–	180.–	239.–	239.–	325.–	325.–	406.–	406.–	
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [3)]	**Q12**	205.–	205.–	274.–	274.–	421.–	421.–	548.–	548.–	679.–	679.–	
1 temperature sensor KTY84-130 (2 terminals) [3)]	**Q23**	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–	
2 temperature sensors KTY84-130 (4 terminals) [3)]	**Q25**	241.–	241.–	359.–	359.–	550.–	550.–	756.–	1020.–	1020.–	1500.–	
3 bimetal sensors (NC contact) for tripping (2 terminals) [3)]	**Q31**	134.–	134.–	196.–	196.–	270.–	270.–	365.–	365.–	453.–	453.–	
6 bimetal sensors (NC contact) for alarm and tripping (4 terminals)	**Q32**	241.–	241.–	352.–	352.–	477.–	477.–	647.–	647.–	801.–	801.–	Only for: Voltage code 2-1 (12th and 13th position of the Article No.)
3 bimetal sensors (NC contact) for tripping (6 terminals)	**Q33**	144.–	144.–	206.–	206.–	281.–	281.–	376.–	376.–	463.–	463.–	
6 bimetal sensors (NC contact) for alarm and tripping (12 terminals)	**Q34**	251.–	251.–	262.–	362.–	488.–	488.–	658.–	658.–	811.–	811.–	
1 Pt1000 resistance thermometer (2 terminals) [20)]	**Q35**	119.–	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–	885.–	
2 Pt1000 resistance thermometers (4 terminals) [20)]	**Q36**	241.–	241.–	359.–	359.–	550.–	550.–	756.–	1020.–	1020.–	1500.–	
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**Q60**	1240.–	1240.–	1240.–	1240.–	1510.–	1510.–	1510.–	1670.–	1670.–	1670.–	
1 Pt100 resistance thermometer – 2-wire circuit (2 terminals)	**Q62**	1040.–	1040.–	1040.–	1040.–	1340.–	1340.–	1340.–	1340.–	1340.–	1340.–	
3 Pt100 resistance thermometers – 3-wire circuit (9 terminals)	**Q63**	1310.–	1310.–	1310.–	1310.–	2010.–	2010.–	2010.–	2010.–	2010.–	2010.–	
6 Pt100 resistance thermometers – 3-wire circuit (18 terminals)	**Q64**	2020.–	2020.–	2020.–	2020.–	2960.–	2960.–	2960.–	2960.–	2960.–	2960.–	
2 Pt100 screw-in thermometers in basic circuit for bearings (2 terminals) [1)]	**Q72**	–	–	–	–	4300.–	4300.–	4300.–	4300.–	4300.–	4300.–	
2 Pt100 screw-in thermometers in 3-wire circuit for bearings (6 terminals)	**Q78**	–	–	–	–	4730.–	4730.–	4730.–	4730.–	4730.–	4730.–	
2 double Pt100 screw-in thermometers in 3-wire circuit for bearings (12 terminals)	**Q79**	–	–	–	–	5670.–	5670.–	5670.–	5670.–	5670.–	5670.–	
Motor connection and terminal box												
External grounding	**H04**	28.90	28.90	28.90	28.90	□	□	□	□	□	□	
Terminal box on NDE [2)]	**H08**	180.–	220.–	286.–	388.–	967.–	999.–	1050.–	1100.–	1150.–	1200.–	
Second external grounding	**H70**	15.80	15.80	15.80	15.80	15.80	15.80	15.80	15.80	15.80	15.80	
Rotation of the terminal box through 90°, entry from DE	**R10**	23.40	23.40	23.40	23.40	45.10	58.40	72.10	86.60	103.–	124.–	
Rotation of the terminal box through 90°, entry from NDE	**R11**	23.40	23.40	23.40	23.40	45.10	58.40	72.10	86.60	103.–	124.–	
Rotation of the terminal box through 180 °	**R12**	O	O	O	O	45.10	58.40	72.10	86.60	103.–	124.–	
One EMC cable gland	**R14**	–	–	–	–	174.–	299.–	299.–	529.–	529.–	529.–	
One metal cable gland	**R15**	112.–	112.–	112.–	143.–	143.–	165.–	165.–	236.–	236.–	236.–	
EMC cable gland, maximum configuration	**R16**	–	–	–	–	362.–	610.–	610.–	1090.–	1090.–	1090.–	
Stud terminal for cable connection, accessories pack (3 items)	**R17**	–	–	–	–	–	–	–	150.–	150.–	189.–	
Saddle terminal for connection without cable lug, accessories pack	**R19**	–	–	–	–	–	–	–	735.–	735.–	735.–	

For legends and footnotes, see Page 3/50.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 100	112	132	160	180	200	225	250	280	315	Motor version
		1LE1592										Standard Efficiency
1LE1592-. . . . . -. . . . -Z	Order code											
Motor connection and terminal box (continued)												
Larger terminal box	**R50**	214.–	214.–	274.–	313.–	475.–	523.–	1660.–	1900.–	1900.–	2230	
Terminal box without cable entry opening	**R51**	O	O	O	O	O	O	O	O	O	O	
Drilled removable entry plate	**R52**	–	–	–	–	273.–	294.–	294.–	489.–	489.–	510.–	
Undrilled removable entry plate	**R53**	–	–	–	–	273.–	294.–	294.–	489.–	489.–	510.–	
Cast-iron auxiliary terminal box (small)	**R62**	278.–	278.–	278.–	278.–	284.–	284.–	284.–	284.–	284.–	284.–	
Silicon-free version	**R74**	□	□	□	□	□	□	□	357.–	357.–	357.–	
Non-standard threaded through hole (NPT or G thread)	**Y61 •** and customer specifications	152.–	152.–	152.–	152.–	203.–	270.–	338.–	402.–	541.–	670.–	
Windings and insulation												
Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N30**	137.–	137.–	137.–	210.–	305.–	420.–	652.–	872.–	1100.–	1350.–	
Increased air humidity/temperature with 60 to 100 g water per m^3 of air	**N31**	216.–	247.–	278.–	391.–	515.–	662.–	935.–	1200.–	1520.–	1820.–	
Colors and paint finish												
Standard finish C2 in RAL 7030 stone gray		□	□	□	□	□	□	□	□	□	□	
Unpainted (only cast-iron parts primed)	**S00**	O	O	O	O	O	O	O	O	O	O	
Unpainted, only primed	**S01**	27.80	27.80	44.40	44.40	83.30	83.30	83.30	83.30	83.30	83.30	
Special finish C3	**S02**	63.–	63.–	84.–	84.–	115.–	126.–	189.–	232.–	273.–	305.–	
Special finish sea air resistant C4	**S03**	536.–	536.–	589.–	589.–	630.–	672.–	714.–	757.–	799.–	830.–	
Special paint for use offshore C5	**S04**	2150.–	2260.–	2390.–	2510.–	2640.–	2770.–	3200.–	4170.–	5220.–	8070.–	
Internal coating	**S05**	87.60	87.60	87.60	87.60	87.60	87.60	89.40	110.–	126.–	137.–	
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53 •** and standard finish RAL....	42.–	42.–	57.80	57.80	84.–	115.–	126.–	158.–	189.–	263.–	
Finish in special RAL colors: For RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56 •** and special finish RAL....	662.–	662.–	694.–	694.–	704.–	714.–	725.–	735.–	746.–	757.–	
Modular technology – Basic versions [4]												
Mounting of brake [5]	**F01**	657.–	799.–	1030.–	2040.–	4510.–	6300.–	8010.–	25600.–	31600.–	37900.–	
Mounting of Kübler Sendix 5020 HTL, 1024 I rotary pulse encoder	**G11**	838.–	895.–	941.–	986.–	1030.–	1080.–	1140.–	1190.–	1230.–	1280.–	
Mounting of Kübler Sendix 5020 TTL, 1024 I rotary pulse encoder	**G12**	1180.–	1250.–	1330.–	1410.–	1480.–	1550.–	1640.–	1710.–	1790.–	1860.–	
Modular technology – Additional versions												
Brake supply voltage 24 V DC	**F10**	52.90	52.90	52.90	52.90	70.60	70.60	70.60	70.60	70.60	70.60	
Brake supply voltage 230 V AC, 50/60 Hz	**F11**	O	O	O	O	O	O	O	O	O	O	
Brake supply voltage 400 V AC, 50/60 Hz	**F12**	52.90	52.90	52.90	52.90	70.60	70.60	70.60	70.60	70.60	70.60	
Brake supply voltage 180 V DC	**F17**	52.90	52.90	52.90	52.90	70.60	70.60	70.60	70.60	70.60	70.60	Only for: Combination with order code F01
Brake supply voltage 205 V DC	**F18**	52.90	52.90	52.90	52.90	70.60	70.60	70.60	70.60	70.60	70.60	Only for: Combination with order code F01
Mechanical manual brake release with lever (no locking)	**F50**	264.–	264.–	294.–	426.–	620.–	723.–	868.–	987.–	1090.–	1390.–	

For legends and footnotes, see Page 3/50.

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Standard induction motors optimized for converter operation – VSD10 line

Article No. supplements and special versions

Options · Cast-iron series 1LE1592

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 100	112	132	160	180	200	225	250	280	315	Motor version
		1LE1592										Standard Efficiency
1LE1592-. . . . . -. . . . -Z	Order code											
Special technology [5]												
Mounting of LL 861 900 220 rotary pulse encoder [8]	G04	3000.–	3000.–	3000.–	3000.–	3000.–	3000.–	4180.–	4180.–	4180.–	4180.–	
Mounting of HOG 9 DN 1024 I rotary pulse encoder [8]	G05	3540.–	3540.–	3540.–	3540.–	4570.–	4570.–	4950.–	4950.–	4950.–	4950.–	
Mounting of HOG 10 D 1024 I rotary pulse encoder [8]	G06	4570.–	4570.–	4570.–	4570.–	4570.–	4570.–	6000.–	6000.–	6000.–	6000.–	
Mounting of POG 10 D rotary pulse encoder (only in combination with separately driven fan or brake) [9]	G07	–	–	–	–	6380.–	6410.–	6440.–	6490.–	6530.–	6590.–	
Mounting of POG 9 rotary pulse encoder (only in combination with separately driven fan or brake) [9]	G08	–	–	–	–	14700.–	14900.–	18000.–	18000.–	18000.–	18000.–	
Mounting of Kübler Sendix 5834FS2 1024, SIL-2 rotary pulse encoder	G21	2540.–	2680.–	2830.–	3050.–	3210.–	3300.–	3430.–	3430.–	3430.–	3430.–	
Mounting of Kübler Sendix 5834FS3 1024, SIL-3 rotary pulse encoder	G22	2940.–	3120.–	3300.–	3520.–	3630.–	3750.–	3880.–	3880.–	3880.–	3880.–	
Mounting of HOGS100S-B76.626.01024.1 rotary pulse encoder	G25	–	–	–	–	14000.–	14000.–	17400.–	17400.–	17400.–	17400.–	
Mounting of LL FSI 862-184560-1024, SIL-2 rotary pulse encoder	G27	–	–	–	–	15500.–	15500.–	20200.–	20200.–	20200.–	20200.–	
Mounting a special type of rotary pulse encoder	Y70 • and customer specifications	–	–	–	–	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
Mechanical design and degrees of protection												
Prepared for mountings, center hole only	G40	70.10	70.10	93.–	107.–	□	□	□	□	□	□	
Prepared for mountings with D12 shaft	G41	152.–	168.–	189.–	225.–	462.–	462.–	589.–	924.–	924.–	924.–	
Prepared for mountings with D16 shaft	G42	152.–	168.–	189.–	225.–	462.–	462.–	589.–	924.–	924.–	924.–	
Mechanical protection for encoders	G43	80.70	80.70	141.–	141.–	212.–	212.–	212.–	212.–	212.–	212.–	
Protective cover [6] [8] [10]	H00	82.40	82.40	144.–	144.–	192.–	289.–	383.–	478.–	573.–	766.–	
Screwed-on (instead of cast) feet	H01	104.–	113.–	123.–	132.–	371.–	437.–	517.–	768.–	863.–	993.–	
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994	H02	185.–	205.–	222.–	258.–	315.–	378.–	442.–	525.–	609.–	694.–	
Condensation drainage holes		□	□	□	□	□	□	□	□	□	□	
Rust-resistant screws (externally)	H07	82.70	82.70	97.80	97.80	112.–	128.–	170.–	203.–	211.–	281.–	
IP66 degree of protection	H19	316.–	316.–	316.–	471.–	630.–	787.–	949.–	1106.–	1264.–	1419.–	
IP65 degree of protection [11]	H20	150.–	150.–	150.–	224.–	302.–	374.–	452.–	527.–	601.–	676.–	
IP54 degree of protection	H21	–	–	–	–	840.–	840.–	840.–	840.–	840.–	840.–	
IP56 degree of protection [12]	H22	166.–	166.–	166.–	247.–	328.–	413.–	497.–	579.–	663.–	743.–	
Drive-end seal for flange mounting motors, oil-tight to 0.1 bar [13]	H23	57.50	62.90	76.80	112.–	145.–	180.–	239.–	204.–	398.–	478.–	
Grounding brush for converter operation	L52	–	–	–	–	–	–	–	–	2630.–	2630.–	
Coolant temperature and installation altitude												
Coolant temperature –50 to +40 °C	D02	735.–	788.–	946.–	1100.–	2590.–	2770.–	4000.–	4460.–	5400.–	6400.–	
Coolant temperature –40 to +40 °C [14]	D03	386.–	489.–	566.–	650.–	721.–	836.–	1070.–	1330.–	1890.–	2440.–	
Coolant temperature –30 to +40 °C	D04	70.80	70.80	85.–	85.–	113.–	142.–	567.–	1330.–	1890.–	2440.–	
Designs in accordance with standards and specifications												
Design according to UL and CSA (Canadian regulations)	D39	101.–	119.–	153.–	187.–	300.–	411.–	517.–	610.–	756.–	986.–	
TR CU product safety certificate EAC for Eurasian customs union	D47	42.–	52.50	84.–	137.–	179.–	252.–	325.–	430.–	630.–	735.–	

For legends and footnotes, see Page 3/50.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 100	112	132	160	180	200	225	250	280	315	Motor version
		1LE1592										Standard Efficiency
1LE1592-. . . . . -. . . . -Z	Order code											
Bearings and lubrication												
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A	**L19**	–	–	–	–	383.–	430.–	478.–	573.–	O	O	
Located bearing DE	**L20**	72.80	86.30	106.–	145.–	306.–	424.–	597.–	768.–	993.–	1070.–	
Located bearing NDE	**L21**	43.30	45.60	48.30	□	□	□	□	□	□	□	
Bearing design for increased cantilever forces	**L22**	101.–	117.–	133.–	175.–	278.–	322.–	363.–	420.–	470.–	525.–	
Regreasing device [15]	**L23**	317.–	325.–	336.–	363.–	383.–	430.–	478.–	573.–	□	□	
Reinforced bearings at both ends for DE and NDE, bearing size 63 [16]	**L25**	203.–	237.–	265.–	353.–	468.–	576.–	819.–	1130.–	□	□	
Reinforced bearings at both DE and NDE, DE bearing for increased cantilever forces	**L28**	–	–	–	–	747.–	900.–	1170.–	1550.–	–	–	
Bearing insulation DE	**L50**	–	–	–	–	–	–	1760.–	1890.–	1960.–	2050.–	
Bearing insulation NDE	**L51**	510.–	530.–	1190.–	1230.–	1280.–	1300.–	1760.–	1890.–	□	□	
Measuring nipple for SPM shock pulse measurement for bearing inspection [15]	**Q01**	257.–	288.–	317.–	350.–	377.–	408.–	439.–	468.–	498.–	528.–	
Balance and vibration quantity												
Vibration quantity level A		□	□	□	□	□	□	□	□	□	□	
Half-key balancing (standard)		□	□	□	□	□	□	□	□	□	□	
Balancing without key	**L01**	28.40	28.40	33.60	33.60	43.70	43.70	59.30	59.30	72.10	83.60	
Full-key balancing	**L02**	111.–	111.–	129.–	129.–	162.–	162.–	209.–	209.–	209.–	209.–	
Shaft and rotor												
Shaft extension with standard dimensions, without feather keyway	**L04**	525.–	553.–	580.–	610.–	708.–	779.–	850.–	921.–	991.–	1060.–	
Standard cylindrical shaft extension (second shaft extension) NDE in accordance with EN 50347	**L05**	143.–	143.–	189.–	217.–	328.–	364.–	384.–	400.–	473.–	519.–	
Standard shaft made of stainless steel	**L06**	165.–	227.–	350.–	556.–	675.–	1010.–	1390.–	1650.–	2750.–	3360.–	
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	**L07**	268.–	268.–	408.–	408.–	211.–	238.–	283.–	370.–	370.–	565.–	
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors	**L08**	241.–	270.–	302.–	374.–	452.–	527.–	601.–	676.–	754.–	827.–	
Non-standard shaft extension, DE [17]	**Y58** • and customer specifications	525.–	553.–	580.–	610.–	708.–	779.–	850.–	921.–	991.–	1060.–	
Non-standard shaft extension, NDE [17]	**Y59** • and customer specifications	525.–	553.–	580.–	610.–	708.–	779.–	850.–	921.–	991.–	1060.–	
Special shaft steel	**Y60** • and customer specifications	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	
Heating and ventilation												
Mounting of separately driven fan	**F70**	840.–	987.–	1070.–	1240.–	1370.–	2050.–	2550.–	3180.–	3790.–	4270.–	
Sheet metal fan cover	**F74**	67.90	73.70	79.40	85.–	84.70	104.–	116.–	167.–	214.–	236.–	
Metal external fan	**F76**	189.–	224.–	261.–	302.–	339.–	374.–	413.–	452.–	489.–	527.–	
Anti-condensation heating for 230 V (2 terminals)	**Q02**	430.–	459.–	519.–	576.–	639.–	734.–	881.–	910.–	910.–	948.–	
Anti-condensation heating for 115 V (2 terminals)	**Q03**	430.–	459.–	519.–	576.–	639.–	734.–	881.–	910.–	910.–	948.–	
Separately driven fan with non-standard voltage and/or frequency	**Y81** • and customer specifications	–	–	–	–	–	–	483.–	609.–	779.–	1010.–	
Rating plate and extra rating plates												
Second rating plate, loose	**M10**	21.10	21.10	21.10	21.10	67.60	67.60	67.60	67.60	67.60	67.60	
Rating plate, stainless steel	**M11**	42.20	42.20	42.20	42.20	51.60	51.60	69.40	69.40	69.40	69.40	

For legends and footnotes, see Page 3/50.

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Standard induction motors optimized for converter operation – VSD10 line

Article No. supplements and special versions

Options · Cast-iron series 1LE1592

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 100	112	132	160	180	200	225	250	280	315	Motor version
		1LE1592										Standard Efficiency
1LE1592-. . . . . -. . . . -Z	Order code											
Rating plate and extra rating plates (continued)												
Extra rating plate with customer specifications	**Y82** • and customer specifications	41.50	41.50	41.50	41.50	69.40	69.40	69.40	86.60	86.60	109.–	
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	41.50	41.50	41.50	41.50	69.40	69.40	69.40	86.60	86.60	109.–	
Adhesive label, supplied loose	**Y85** • and customer specifications	41.50	41.50	41.50	41.50	67.60	67.60	67.60	67.60	67.60	67.60	
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 [18]	**Q80**	–	–	–	–	2.3 %	2.3 %	2.3 %	2.3 %	2.3 %	2.3 %	
Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery [18]	**Q82**	–	–	–	–	4.6 %	4.6 %	4.6 %	4.6 %	4.6 %	4.6 %	
Packaging, safety notes, documentation and test certificates												
Acceptance test certificate 3.1 according to EN 10204 [19]	**B02**	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	
Document – Electrical data sheet	**B60**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	
Document – Order dimensional drawing	**B61**	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	315.–	
Standard test (routine test) with acceptance	**B65**	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	3890.–	
Type test with heat run for horizontal motors, with acceptance	**B83**	7290.–	8070.–	8840.–	9620.–	10400.–	11200.–	11900.–	12800.–	13500.–	14300.–	
Documentation package "Basic"	**B90**	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–	
Documentation package "Advanced"	**B91**	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–	
Documentation package "Projects"	**B92**	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	
Connected in star for dispatch	**M01**	28.90	28.90	28.90	28.90	37.90	37.90	37.90	46.90	46.90	46.90	
Connected in delta for dispatch	**M02**	28.90	28.90	28.90	28.90	37.90	37.90	37.90	46.90	46.90	46.90	

□ Standard version
○ Without additional charge
O. R. Possible on request
– Not possible

• This order code only determines the price of the version – additional plain text is required.

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

2) With order code **H08** feet dimensions differ from EN 50347.
Further information is available in DT Configurator (see Appendix, "Tools and Configuring").

3) The grease lifetime specified in Section 1 "Introduction" refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease service lifetime or relubrication interval is halved.

4) A second shaft extension is not possible. Please inquire for mounted brakes.

5) For order codes **F10**, **F11** and **F12**, the brake supply voltage must be specified or ordered.

6) 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.

7) 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.

8) The LL and HOG rotary pulse encoders up to frame size 160 are fitted with a protective cover as standard. The protective cover is omitted at the factory when a rotary pulse encoder is combined with a separately driven fan, because in this case the rotary pulse encoder is installed under the fan cover.

9) Option (encoder mounting) is only possible for motors with a mounted separately driven fan or for naturally cooled motors (without a separately driven 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!

10) Order code **H00** provides mechanical protection for encoders.

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 brake 2LM8 (order code **F01**).

13) Not possible for type of construction IM V3.

14) In connection with mountings, the respective technical data must be observed, please inquire before ordering.

15) Up to frame size 160 not possible when brake is mounted.

16) For motors from frame size 280 upwards standard version.

17) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer 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**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under "Dimensions")
– Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension.
For explanation of the order codes, see Catalog Section 1 "Introduction".

18) Wear parts (bearings) are excluded from the warranty extension.

19) The delivery time for the factory test certificate may differ from the delivery time for the motor.

20) Not possible in combination with UL.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Orientation

Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zones 21, 22 and 2 in types of protection Ex tb, Ex tc and Ex ec**
Efficiency	**IE4 Super Premium Efficiency**
Series version	**Cast-iron series 1MB5514/1MB5524/1MB5534** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	315 ... 450
Rated power at 50 Hz	160 ... 1000 kW
Synchronous speed at 50 Hz	750 ... 3600 rpm
Rated torque at 50 Hz	1790 ... 8100 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated, 50\ Hz}$ kW	IE class	Frame size FS	Article No. Ex tb (zone 21) ▲ New	Base price EUR	Article No. Ex tc (zone 22) ▲ New	Base price EUR	Article No. Ex ec (zone 2) ▲ New	Base price EUR
2-pole: 3000 rpm at 50 Hz								
250	**IE4**	**315**	▲ **1MB5514-3AA6.-....**	**65700.–**	▲ **1MB5524-3AA6.-....**	**64500.–**	▲ **1MB5534-3AA6.-....**	**64100.–**
315	**IE4**	**315**	▲ **1MB5514-3AA7.-....**	**82800.–**	▲ **1MB5524-3AA7.-....**	**81200.–**	▲ **1MB5534-3AA7.-....**	**80500.–**
355	**IE4**	**355**	▲ **1MB5514-3BA3.-....**	**96300.–**	▲ **1MB5524-3BA3.-....**	**90000.–**	▲ **1MB5534-3BA3.-....**	**89200.–**
400	**IE4**	**355**	▲ **1MB5514-3BA4.-....**	**110000.–**	▲ **1MB5524-3BA4.-....**	**103000.–**	▲ **1MB5534-3BA4.-....**	**102000.–**
500	**IE4**	**355**	▲ **1MB5514-3BA5.-....**	**143000.–**	▲ **1MB5524-3BA5.-....**	**134000.–**	▲ **1MB5534-3BA5.-....**	**133000.–**
560	**IE4**	**400**	▲ **1MB5514-4AA3.-....**	**166000.–**	▲ **1MB5524-4AA3.-....**	**166000.–**	▲ **1MB5534-4AA3.-....**	**166000.–**
630	**IE4**	**400**	▲ **1MB5514-4AA5.-....**	**187000.–**	▲ **1MB5524-4AA5.-....**	**187000.–**	▲ **1MB5534-4AA5.-....**	**186000.–**
710	**IE4**	**400**	▲ **1MB5514-4AA7.-....**	**212000.–**	▲ **1MB5524-4AA7.-....**	**212000.–**	▲ **1MB5534-4AA7.-....**	**212000.–**
800	**IE4**	**450**	▲ **1MB5514-4BA3.-....**	**245000.–**	▲ **1MB5524-4BA3.-....**	**245000.–**	▲ **1MB5534-4BA3.-....**	**246000.–**
900	**IE4**	**450**	▲ **1MB5514-4BA5.-....**	**270000.–**	▲ **1MB5524-4BA5.-....**	**270000.–**	▲ **1MB5534-4BA5.-....**	**270000.–**
1000	**IE4**	**450**	▲ **1MB5514-4BA7.-....**	**308000.–**	▲ **1MB5524-4BA7.-....**	**308000.–**	▲ **1MB5534-4BA7.-....**	**307000.–**
4-pole: 1500 rpm at 50 Hz								
250	**IE4**	**315**	▲ **1MB5514-3AB6.-....**	**62100.–**	▲ **1MB5524-3AB6.-....**	**60500.–**	▲ **1MB5534-3AB6.-....**	**60000.–**
315	**IE4**	**315**	▲ **1MB5514-3AB7.-....**	**78300.–**	▲ **1MB5524-3AB7.-....**	**76300.–**	▲ **1MB5534-3AB7.-....**	**75500.–**
355	**IE4**	**355**	▲ **1MB5514-3BB3.-....**	**91300.–**	▲ **1MB5524-3BB3.-....**	**84600.–**	▲ **1MB5534-3BB3.-....**	**83800.–**
400	**IE4**	**355**	▲ **1MB5514-3BB4.-....**	**104000.–**	▲ **1MB5524-3BB4.-....**	**95200.–**	▲ **1MB5534-3BB4.-....**	**95000.–**
560	**IE4**	**400**	▲ **1MB5514-4AB3.-....**	**154000.–**	▲ **1MB5524-4AB3.-....**	**154000.–**	▲ **1MB5534-4AB3.-....**	**154000.–**
630	**IE4**	**400**	▲ **1MB5514-4AB5.-....**	**176000.–**	▲ **1MB5524-4AB5.-....**	**176000.–**	▲ **1MB5534-4AB5.-....**	**176000.–**
710	**IE4**	**400**	▲ **1MB5514-4AB7.-....**	**198000.–**	▲ **1MB5524-4AB7.-....**	**198000.–**	▲ **1MB5534-4AB7.-....**	**198000.–**
800	**IE4**	**450**	▲ **1MB5514-4BB3.-....**	**224000.–**	▲ **1MB5524-4BB3.-....**	**224000.–**	▲ **1MB5534-4BB3.-....**	**225000.–**
900	**IE4**	**450**	▲ **1MB5514-4BB5.-....**	**253000.–**	▲ **1MB5524-4BB5.-....**	**253000.–**	▲ **1MB5534-4BB5.-....**	**253000.–**
1000	**IE4**	**450**	▲ **1MB5514-4BB7.-....**	**284000.–**	▲ **1MB5524-4BB7.-....**	**283000.–**	▲ **1MB5534-4BB7.-....**	**284000.–**

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Overview

Category	**Motors for zones 21, 22 and 2 in types of protection Ex tb, Ex tc and Ex ec**
Efficiency	**IE4 Super Premium Efficiency**
Series version	**Cast-iron series 1MB5514/1MB5524/1MB5534**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	315 ... 450
Rated power at 50 Hz	160 ... 1000 kW
Synchronous speed at 50 Hz	750 ... 3600 rpm
Rated torque at 50 Hz	1790 ... 8100 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated, 50 Hz}$ kW	IE class	Frame size FS	Article No. Ex tb (zone 21) ▲ New	Base price EUR	Article No. Ex tc (zone 22) ▲ New	Base price EUR	Article No. Ex ec (zone 2) ▲ New	Base price EUR
6-pole: 1000 rpm at 50 Hz								
200	**IE4**	**315**	▲ **1MB5514-3AC7.-....**	**71900.–**	▲ **1MB5524-3AC7.-....**	**70700.–**	▲ **1MB5534-3AC7.-....**	**70700.–**
250	**IE4**	**315**	▲ **1MB5514-3AC8.-....**	**90600.–**	▲ **1MB5524-3AC8.-....**	**89100.–**	▲ **1MB5534-3AC8.-....**	**89000.–**
315	**IE4**	**355**	▲ **1MB5514-3BC2.-....**	**120000.–**	▲ **1MB5524-3BC2.-....**	**112000.–**	▲ **1MB5534-3BC2.-....**	**112000.–**
355	**IE4**	**355**	▲ **1MB5514-3BC3.-....**	**128000.–**	▲ **1MB5524-3BC3.-....**	**119000.–**	▲ **1MB5534-3BC3.-....**	**119000.–**
400	**IE4**	**355**	▲ **1MB5514-3BC4.-....**	**140000.–**	▲ **1MB5524-3BC4.-....**	**132000.–**	▲ **1MB5534-3BC4.-....**	**132000.–**
450	**IE4**	**400**	▲ **1MB5514-4AC3.-....**	**171000.–**	▲ **1MB5524-4AC3.-....**	**173000.–**	▲ **1MB5534-4AC3.-....**	**173000.–**
500	**IE4**	**400**	▲ **1MB5514-4AC5.-....**	**187000.–**	▲ **1MB5524-4AC5.-....**	**187000.–**	▲ **1MB5534-4AC5.-....**	**187000.–**
560	**IE4**	**400**	▲ **1MB5514-4AC7.-....**	**213000.–**	▲ **1MB5524-4AC7.-....**	**213000.–**	▲ **1MB5534-4AC7.-....**	**213000.–**
630	**IE4**	**450**	▲ **1MB5514-4BC3.-....**	**240000.–**	▲ **1MB5524-4BC3.-....**	**239000.–**	▲ **1MB5534-4BC3.-....**	**239000.–**
710	**IE4**	**450**	▲ **1MB5514-4BC5.-....**	**266000.–**	▲ **1MB5524-4BC5.-....**	**266000.–**	▲ **1MB5534-4BC5.-....**	**266000.–**
800	**IE4**	**450**	▲ **1MB5514-4BC7.-....**	**298000.–**	▲ **1MB5524-4BC7.-....**	**298000.–**	▲ **1MB5534-4BC7.-....**	**298000.–**
8-pole: 750 rpm at 50 Hz								
160	**IE4**	**315**	▲ **1MB5514-3AD7.-....**	**72000.–**	▲ **1MB5524-3AD7.-....**	**70600.–**	▲ **1MB5534-3AD7.-....**	**70600.–**
200	**IE4**	**315**	▲ **1MB5514-3AD8.-....**	**88600.–**	▲ **1MB5524-3AD8.-....**	**87000.–**	▲ **1MB5534-3AD8.-....**	**35300.–**
250	**IE4**	**355**	▲ **1MB5514-3BD1.-....**	**118000.–**	▲ **1MB5524-3BD1.-....**	**111000.–**	▲ **1MB5534-3BD1.-....**	**111000.–**
315	**IE4**	**355**	▲ **1MB5514-3BD2.-....**	**145000.–**	▲ **1MB5524-3BD2.-....**	**136000.–**	▲ **1MB5534-3BD2.-....**	**136000.–**
355	**IE4**	**400**	▲ **1MB5514-4AD3.-....**	**171000.–**	▲ **1MB5524-4AD3.-....**	**173000.–**	▲ **1MB5534-4AD3.-....**	**174000.–**
400	**IE4**	**400**	▲ **1MB5514-4AD5.-....**	**187000.–**	▲ **1MB5524-4AD5.-....**	**186000.–**	▲ **1MB5534-4AD5.-....**	**188000.–**
450	**IE4**	**400**	▲ **1MB5514-4AD7.-....**	**224000.–**	▲ **1MB5524-4AD7.-....**	**225000.–**	▲ **1MB5534-4AD7.-....**	**225000.–**
500	**IE4**	**450**	▲ **1MB5514-4BD3.-....**	**252000.–**	▲ **1MB5524-4BD3.-....**	**251000.–**	▲ **1MB5534-4BD3.-....**	**251000.–**
560	**IE4**	**450**	▲ **1MB5514-4BD5.-....**	**276000.–**	▲ **1MB5524-4BD5.-....**	**275000.–**	▲ **1MB5534-4BD5.-....**	**276000.–**
630	**IE4**	**450**	▲ **1MB5514-4BD7.-....**	**319000.–**	▲ **1MB5524-4BD7.-....**	**318000.–**	▲ **1MB5534-4BD7.-....**	**320000.–**

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Orientation

Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zones 21, 22 and 2 in types of protection Ex tb, Ex tc and Ex ec**
Efficiency	**IE3 Premium Efficiency**
Series version	**Aluminum series 1MB1013/1MB1023/1MB1033**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	80 M ... 160 L
Rated power at 50 Hz	0.37 ... 18.5 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	2.5 ... 109 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No. Ex tb (zone 21)	Base price EUR	Article No. Ex tc (zone 22)	Base price EUR	Article No. Ex ec (zone 2)	Base price EUR
2-pole: 3000 rpm at 50 Hz								
0.75	**IE3**	**80 M**	**1MB1013-0DA2.-....**	**803.–**	**1MB1023-0DA2.-....**	**699.–**	**1MB1033-0DA2.-....**	**750.–**
1.1	**IE3**	**80 M**	**1MB1013-0DA3.-....**	**891.–**	**1MB1023-0DA3.-....**	**788.–**	**1MB1033-0DA3.-....**	**837.–**
1.5	**IE3**	**90 S**	**1MB1013-0EA0.-....**	**1020.–**	**1MB1023-0EA0.-....**	**915.–**	**1MB1033-0EA0.-....**	**961.–**
2.2	**IE3**	**90 L**	**1MB1013-0EA4.-....**	**1260.–**	**1MB1023-0EA4.-....**	**1150.–**	**1MB1033-0EA4.-....**	**1190.–**
3	**IE3**	**100 L**	**1MB1013-1AA4.-....**	**1400.–**	**1MB1023-1AA4.-....**	**1310.–**	**1MB1033-1AA4.-....**	**1360.–**
4	**IE3**	**112 M**	**1MB1013-1BA2.-....**	**1660.–**	**1MB1023-1BA2.-....**	**1530.–**	**1MB1033-1BA2.-....**	**1610.–**
5.5	**IE3**	**132 S**	**1MB1013-1CA0.-....**	**2090.–**	**1MB1023-1CA0.-....**	**1950.–**	**1MB1033-1CA0.-....**	**2030.–**
7.5	**IE3**	**132 S**	**1MB1013-1CA1.-....**	**2550.–**	**1MB1023-1CA1.-....**	**2440.–**	**1MB1033-1CA1.-....**	**2490.–**
11	**IE3**	**160 M**	**1MB1013-1DA2.-....**	**3530.–**	**1MB1023-1DA2.-....**	**3400.–**	**1MB1033-1DA2.-....**	**3460.–**
15	**IE3**	**160 M**	**1MB1013-1DA3.-....**	**4500.–**	**1MB1023-1DA3.-....**	**4340.–**	**1MB1033-1DA3.-....**	**4400.–**
18.5	**IE3**	**160 L**	**1MB1013-1DA4.-....**	**5280.–**	**1MB1023-1DA4.-....**	**5130.–**	**1MB1033-1DA4.-....**	**5180.–**
4-pole: 1500 rpm at 50 Hz								
0.55	**IE3**	**80 M**	**1MB1013-0DB2.-....**	**798.–**	**1MB1023-0DB2.-....**	**694.–**	**1MB1033-0DB2.-....**	**744.–**
0.75	**IE3**	**80 M**	**1MB1013-0DB3.-....**	**855.–**	**1MB1023-0DB3.-....**	**751.–**	**1MB1033-0DB3.-....**	**800.–**
1.1	**IE3**	**90 S**	**1MB1013-0EB0.-....**	**999.–**	**1MB1023-0EB0.-....**	**889.–**	**1MB1033-0EB0.-....**	**937.–**
1.5	**IE3**	**90 L**	**1MB1013-0EB4.-....**	**1150.–**	**1MB1023-0EB4.-....**	**1040.–**	**1MB1033-0EB4.-....**	**1080.–**
2.2	**IE3**	**100 L**	**1MB1013-1AB4.-....**	**1320.–**	**1MB1023-1AB4.-....**	**1190.–**	**1MB1033-1AB4.-....**	**1270.–**
3	**IE3**	**100 L**	**1MB1013-1AB5.-....**	**1480.–**	**1MB1023-1AB5.-....**	**1360.–**	**1MB1033-1AB5.-....**	**1410.–**
4	**IE3**	**112 M**	**1MB1013-1BB2.-....**	**1790.–**	**1MB1023-1BB2.-....**	**1660.–**	**1MB1033-1BB2.-....**	**1730.–**
5.5	**IE3**	**132 S**	**1MB1013-1CB0.-....**	**2210.–**	**1MB1023-1CB0.-....**	**2100.–**	**1MB1033-1CB0.-....**	**2160.–**
7.5	**IE3**	**132 M**	**1MB1013-1CB2.-....**	**2740.–**	**1MB1023-1CB2.-....**	**2610.–**	**1MB1033-1CB2.-....**	**2670.–**
11	**IE3**	**160 M**	**1MB1013-1DB2.-....**	**3610.–**	**1MB1023-1DB2.-....**	**3470.–**	**1MB1033-1DB2.-....**	**3530.–**
15	**IE3**	**160 L**	**1MB1013-1DB4.-....**	**4550.–**	**1MB1023-1DB4.-....**	**4400.–**	**1MB1033-1DB4.-....**	**4470.–**
6-pole: 1000 rpm at 50 Hz								
0.37	**IE3**	**80 M**	**1MB1013-0DC2.-....**	**780.–**	**1MB1023-0DC2.-....**	**676.–**	**1MB1033-0DC2.-....**	**725.–**
0.55	**IE3**	**80 M**	**1MB1013-0DC3.-....**	**872.–**	**1MB1023-0DC3.-....**	**767.–**	**1MB1033-0DC3.-....**	**818.–**
0.75	**IE3**	**90 S**	**1MB1013-0EC0.-....**	**985.–**	**1MB1023-0EC0.-....**	**874.–**	**1MB1033-0EC0.-....**	**921.–**
1.1	**IE3**	**90 L**	**1MB1013-0EC4.-....**	**1170.–**	**1MB1023-0EC4.-....**	**1060.–**	**1MB1033-0EC4.-....**	**1100.–**
1.5	**IE3**	**100 L**	**1MB1013-1AC4.-....**	**1310.–**	**1MB1023-1AC4.-....**	**1180.–**	**1MB1033-1AC4.-....**	**1260.–**
2.2	**IE3**	**112 M**	**1MB1013-1BC2.-....**	**1610.–**	**1MB1023-1BC2.-....**	**1480.–**	**1MB1033-1BC2.-....**	**1570.–**
3	**IE3**	**132 S**	**1MB1013-1CC0.-....**	**2020.–**	**1MB1023-1CC0.-....**	**1910.–**	**1MB1033-1CC0.-....**	**1960.–**
4	**IE3**	**132 M**	**1MB1013-1CC2.-....**	**2420.–**	**1MB1023-1CC2.-....**	**2290.–**	**1MB1033-1CC2.-....**	**2360.–**
5.5	**IE3**	**132 M**	**1MB1013-1CC3.-....**	**2960.–**	**1MB1023-1CC3.-....**	**2840.–**	**1MB1033-1CC3.-....**	**2900.–**
7.5	**IE3**	**160 M**	**1MB1013-1DC2.-....**	**3780.–**	**1MB1023-1DC2.-....**	**3630.–**	**1MB1033-1DC2.-....**	**3700.–**
11	**IE3**	**160 L**	**1MB1013-1DC4.-....**	**5050.–**	**1MB1023-1DC4.-....**	**4880.–**	**1MB1033-1DC4.-....**	**4960.–**

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Overview

Category	**Motors for zones 21, 22 and 2 in types of protection Ex tb, Ex tc and Ex ec**
Efficiency	**IE3 Premium Efficiency**
Series version	**Cast-iron series 1MB5513/1MB5523/1MB5533** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	315 ... 450
Rated power at 50 Hz	160 ... 1000 kW
Synchronous speed at 50 Hz	750 ... 3600 rpm
Rated torque at 50 Hz	1790 ... 8100 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated, 50 Hz}$	IE class	Frame size	Article No. Ex tb (zone 21)	Base price	Article No. Ex tc (zone 22)	Base price	Article No. Ex ec (zone 2)	Base price
kW		FS	▲ New	EUR	▲ New	EUR	▲ New	EUR
2-pole: 3000 rpm at 50 Hz								
250	**IE3**	**315**	▲ **1MB5513-3AA6.-....**	**58500.–**	▲ **1MB5523-3AA6.-....**	**57400.–**	▲ **1MB5533-3AA6.-....**	**57000.–**
315	**IE3**	**315**	▲ **1MB5513-3AA7.-....**	**73700.–**	▲ **1MB5523-3AA7.-....**	**72400.–**	▲ **1MB5533-3AA7.-....**	**71700.–**
355	**IE3**	**355**	▲ **1MB5513-3BA3.-....**	**85900.–**	▲ **1MB5523-3BA3.-....**	**64500.–**	▲ **1MB5533-3BA3.-....**	**79500.–**
400	**IE3**	**355**	▲ **1MB5513-3BA4.-....**	**98200.–**	▲ **1MB5523-3BA4.-....**	**81200.–**	▲ **1MB5533-3BA4.-....**	**91100.–**
500	**IE3**	**355**	▲ **1MB5513-3BA5.-....**	**128000.–**	▲ **1MB5523-3BA5.-....**	**60500.–**	▲ **1MB5533-3BA5.-....**	**118000.–**
560	**IE3**	**400**	▲ **1MB5513-4AA3.-....**	**147000.–**	▲ **1MB5523-4AA3.-....**	**145000.–**	▲ **1MB5533-4AA3.-....**	**144000.–**
630	**IE3**	**400**	▲ **1MB5513-4AA5.-....**	**165000.–**	▲ **1MB5523-4AA5.-....**	**162000.–**	▲ **1MB5533-4AA5.-....**	**161000.–**
710	**IE3**	**400**	▲ **1MB5513-4AA7.-....**	**188000.–**	▲ **1MB5523-4AA7.-....**	**185000.–**	▲ **1MB5533-4AA7.-....**	**181000.–**
800	**IE3**	**450**	▲ **1MB5513-4BA3.-....**	**216000.–**	▲ **1MB5523-4BA3.-....**	**213000.–**	▲ **1MB5533-4BA3.-....**	**211000.–**
900	**IE3**	**450**	▲ **1MB5513-4BA5.-....**	**239000.–**	▲ **1MB5523-4BA5.-....**	**234000.–**	▲ **1MB5533-4BA5.-....**	**233000.–**
1000	**IE3**	**450**	▲ **1MB5513-4BA7.-....**	**272000.–**	▲ **1MB5523-4BA7.-....**	**268000.–**	▲ **1MB5533-4BA7.-....**	**264000.–**
4-pole: 1500 rpm at 50 Hz								
250	**IE3**	**315**	▲ **1MB5513-3AB6.-....**	**55300.–**	▲ **1MB5523-3AB6.-....**	**53800.–**	▲ **1MB5533-3AB6.-....**	**53400.–**
315	**IE3**	**315**	▲ **1MB5513-3AB7.-....**	**69900.–**	▲ **1MB5523-3AB7.-....**	**68000.–**	▲ **1MB5533-3AB7.-....**	**67500.–**
355	**IE3**	**355**	▲ **1MB5513-3BB3.-....**	**81400.–**	▲ **1MB5523-3BB3.-....**	**76300.–**	▲ **1MB5533-3BB3.-....**	**74700.–**
400	**IE3**	**355**	▲ **1MB5513-3BB4.-....**	**92100.–**	▲ **1MB5523-3BB4.-....**	**70700.–**	▲ **1MB5533-3BB4.-....**	**84700.–**
560	**IE3**	**400**	▲ **1MB5513-4AB3.-....**	**138000.–**	▲ **1MB5523-4AB3.-....**	**134000.–**	▲ **1MB5533-4AB3.-....**	**133000.–**
630	**IE3**	**400**	▲ **1MB5513-4AB5.-....**	**157000.–**	▲ **1MB5523-4AB5.-....**	**153000.–**	▲ **1MB5533-4AB5.-....**	**151000.–**
710	**IE3**	**400**	▲ **1MB5513-4AB7.-....**	**176000.–**	▲ **1MB5523-4AB7.-....**	**171000.–**	▲ **1MB5533-4AB7.-....**	**170000.–**
800	**IE3**	**450**	▲ **1MB5513-4BB3.-....**	**200000.–**	▲ **1MB5523-4BB3.-....**	**193000.–**	▲ **1MB5533-4BB3.-....**	**192000.–**
900	**IE3**	**450**	▲ **1MB5513-4BB5.-....**	**226000.–**	▲ **1MB5523-4BB5.-....**	**220000.–**	▲ **1MB5533-4BB5.-....**	**218000.–**
1000	**IE3**	**450**	▲ **1MB5513-4BB7.-....**	**253000.–**	▲ **1MB5523-4BB7.-....**	**246000.–**	▲ **1MB5533-4BB7.-....**	**244000.–**

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Orientation

Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zones 21, 22 and 2 in types of protection Ex tb, Ex tc and Ex ec**
Efficiency	**IE3 Premium Efficiency**
Series version	**Cast-iron series 1MB5513/1MB5523/1MB5533**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	315 ... 450
Rated power at 50 Hz	160 ... 1000 kW
Synchronous speed at 50 Hz	750 ... 3600 rpm
Rated torque at 50 Hz	1790 ... 8100 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated, 50\ Hz}$	IE class	Frame size	Article No. Ex tb (zone 21)	Base price	Article No. Ex tc (zone 22)	Base price	Article No. Ex ec (zone 2)	Base price
kW		FS	▲ New	EUR	▲ New	EUR	▲ New	EUR
6-pole: 1000 rpm at 50 Hz								
200	**IE3**	**315**	▲ **1MB5513-3AC7.-....**	**64100.–**	▲ **1MB5523-3AC7.-....**	**62900.–**	▲ **1MB5533-3AC7.-....**	**62900.–**
250	**IE3**	**315**	▲ **1MB5513-3AC8.-....**	**80700.–**	▲ **1MB5523-3AC8.-....**	**79300.–**	▲ **1MB5533-3AC8.-....**	**79300.–**
315	**IE3**	**355**	▲ **1MB5513-3BC2.-....**	**107000.–**	▲ **1MB5523-3BC2.-....**	**70600.–**	▲ **1MB5533-3BC2.-....**	**100000.–**
355	**IE3**	**355**	▲ **1MB5513-3BC3.-....**	**114000.–**	▲ **1MB5523-3BC3.-....**	**90800.–**	▲ **1MB5533-3BC3.-....**	**107000.–**
400	**IE3**	**355**	▲ **1MB5513-3BC4.-....**	**124000.–**	▲ **1MB5523-3BC4.-....**	**80400.–**	▲ **1MB5533-3BC4.-....**	**116000.–**
450	**IE3**	**400**	▲ **1MB5513-4AC3.-....**	**151000.–**	▲ **1MB5523-4AC3.-....**	**150000.–**	▲ **1MB5533-4AC3.-....**	**147000.–**
500	**IE3**	**400**	▲ **1MB5513-4AC5.-....**	**164000.–**	▲ **1MB5523-4AC5.-....**	**163000.–**	▲ **1MB5533-4AC5.-....**	**161000.–**
560	**IE3**	**400**	▲ **1MB5513-4AC7.-....**	**187000.–**	▲ **1MB5523-4AC7.-....**	**187000.–**	▲ **1MB5533-4AC7.-....**	**183000.–**
630	**IE3**	**450**	▲ **1MB5513-4BC3.-....**	**211000.–**	▲ **1MB5523-4BC3.-....**	**211000.–**	▲ **1MB5533-4BC3.-....**	**206000.–**
710	**IE3**	**450**	▲ **1MB5513-4BC5.-....**	**234000.–**	▲ **1MB5523-4BC5.-....**	**234000.–**	▲ **1MB5533-4BC5.-....**	**229000.–**
800	**IE3**	**450**	▲ **1MB5513-4BC7.-....**	**261000.–**	▲ **1MB5523-4BC7.-....**	**261000.–**	▲ **1MB5533-4BC7.-....**	**257000.–**
8-pole: 750 rpm at 50 Hz								
160	**IE3**	**315**	▲ **1MB5513-3AD7.-....**	**64100.–**	▲ **1MB5523-3AD7.-....**	**63000.–**	▲ **1MB5533-3AD7.-....**	**63000.–**
200	**IE3**	**315**	▲ **1MB5513-3AD8.-....**	**79000.–**	▲ **1MB5523-3AD8.-....**	**77600.–**	▲ **1MB5533-3AD8.-....**	**31500.–**
250	**IE3**	**355**	▲ **1MB5513-3BD1.-....**	**105000.–**	▲ **1MB5523-3BD1.-....**	**92000.–**	▲ **1MB5533-3BD1.-....**	**98000.–**
315	**IE3**	**355**	▲ **1MB5513-3BD2.-....**	**130000.–**	▲ **1MB5523-3BD2.-....**	**119000.–**	▲ **1MB5533-3BD2.-....**	**122000.–**
355	**IE3**	**400**	▲ **1MB5513-4AD3.-....**	**151000.–**	▲ **1MB5523-4AD3.-....**	**147000.–**	▲ **1MB5533-4AD3.-....**	**149000.–**
400	**IE3**	**400**	▲ **1MB5513-4AD5.-....**	**164000.–**	▲ **1MB5523-4AD5.-....**	**161000.–**	▲ **1MB5533-4AD5.-....**	**161000.–**
450	**IE3**	**400**	▲ **1MB5513-4AD7.-....**	**197000.–**	▲ **1MB5523-4AD7.-....**	**192000.–**	▲ **1MB5533-4AD7.-....**	**192000.–**
500	**IE3**	**450**	▲ **1MB5513-4BD3.-....**	**221000.–**	▲ **1MB5523-4BD3.-....**	**216000.–**	▲ **1MB5533-4BD3.-....**	**216000.–**
560	**IE3**	**450**	▲ **1MB5513-4BD5.-....**	**244000.–**	▲ **1MB5523-4BD5.-....**	**238000.–**	▲ **1MB5533-4BD5.-....**	**238000.–**
630	**IE3**	**450**	▲ **1MB5513-4BD7.-....**	**278000.–**	▲ **1MB5523-4BD7.-....**	**273000.–**	▲ **1MB5533-4BD7.-....**	**273000.–**

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Overview

Category	**Motors for zones 21, 22 and 2 in types of protection Ex tb, Ex tc and Ex ec**
Efficiency	**IE3 Premium Efficiency**
Series version	**Cast-iron series 1MB5813/1MB5823/1MB5833**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	400 ... 450
Rated power at 50 Hz	335 ... 980 kW
Synchronous speed at 50 Hz	750 ... 3600 rpm
Rated torque at 50 Hz	1740 ... 7700 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated, 50 Hz}$ kW	IE class	Frame size FS	Article No. Ex tb (zone 21) ▲ New	Base price EUR	Article No. Ex tc (zone 22) ▲ New	Base price EUR	Article No. Ex ec (zone 2) ▲ New	Base price EUR
2-pole: 3000 rpm at 50 Hz								
545	**IE3**	**400**	**▲ 1MB5813-4AA3.-....**	**156000.–**	**▲ 1MB5823-4AA3.-....**	**154000.–**	**▲ 1MB5833-4AA3.-....**	**153000.–**
610	**IE3**	**400**	**▲ 1MB5813-4AA5.-....**	**176000.–**	**▲ 1MB5823-4AA5.-....**	**173000.–**	**▲ 1MB5833-4AA5.-....**	**171000.–**
680	**IE3**	**400**	**▲ 1MB5813-4AA7.-....**	**200000.–**	**▲ 1MB5823-4AA7.-....**	**197000.–**	**▲ 1MB5833-4AA7.-....**	**193000.–**
775	**IE3**	**450**	**▲ 1MB5813-4BA3.-....**	**230000.–**	**▲ 1MB5823-4BA3.-....**	**227000.–**	**▲ 1MB5833-4BA3.-....**	**224000.–**
875	**IE3**	**450**	**▲ 1MB5813-4BA5.-....**	**254000.–**	**▲ 1MB5823-4BA5.-....**	**250000.–**	**▲ 1MB5833-4BA5.-....**	**248000.–**
970	**IE3**	**450**	**▲ 1MB5813-4BA7.-....**	**290000.–**	**▲ 1MB5823-4BA7.-....**	**285000.–**	**▲ 1MB5833-4BA7.-....**	**281000.–**
4-pole: 1500 rpm at 50 Hz								
545	**IE3**	**400**	**▲ 1MB5813-4AB3.-....**	**147000.–**	**▲ 1MB5823-4AB3.-....**	**143000.–**	**▲ 1MB5833-4AB3.-....**	**141000.–**
615	**IE3**	**400**	**▲ 1MB5813-4AB5.-....**	**167000.–**	**▲ 1MB5823-4AB5.-....**	**163000.–**	**▲ 1MB5833-4AB5.-....**	**161000.–**
690	**IE3**	**400**	**▲ 1MB5813-4AB7.-....**	**187000.–**	**▲ 1MB5823-4AB7.-....**	**182000.–**	**▲ 1MB5833-4AB7.-....**	**181000.–**
785	**IE3**	**450**	**▲ 1MB5813-4BB3.-....**	**213000.–**	**▲ 1MB5823-4BB3.-....**	**206000.–**	**▲ 1MB5833-4BB3.-....**	**205000.–**
875	**IE3**	**450**	**▲ 1MB5813-4BB5.-....**	**240000.–**	**▲ 1MB5823-4BB5.-....**	**235000.–**	**▲ 1MB5833-4BB5.-....**	**232000.–**
980	**IE3**	**450**	**▲ 1MB5813-4BB7.-....**	**269000.–**	**▲ 1MB5823-4BB7.-....**	**262000.–**	**▲ 1MB5833-4BB7.-....**	**260000.–**
6-pole: 1000 rpm at 50 Hz								
435	**IE3**	**400**	**▲ 1MB5813-4AC3.-....**	**161000.–**	**▲ 1MB5823-4AC3.-....**	**160000.–**	**▲ 1MB5833-4AC3.-....**	**156000.–**
485	**IE3**	**400**	**▲ 1MB5813-4AC5.-....**	**175000.–**	**▲ 1MB5823-4AC5.-....**	**174000.–**	**▲ 1MB5833-4AC5.-....**	**171000.–**
545	**IE3**	**400**	**▲ 1MB5813-4AC7.-....**	**199000.–**	**▲ 1MB5823-4AC7.-....**	**199000.–**	**▲ 1MB5833-4AC7.-....**	**194000.–**
615	**IE3**	**450**	**▲ 1MB5813-4BC3.-....**	**224000.–**	**▲ 1MB5823-4BC3.-....**	**224000.–**	**▲ 1MB5833-4BC3.-....**	**220000.–**
690	**IE3**	**450**	**▲ 1MB5813-4BC5.-....**	**250000.–**	**▲ 1MB5823-4BC5.-....**	**250000.–**	**▲ 1MB5833-4BC5.-....**	**244000.–**
780	**IE3**	**450**	**▲ 1MB5813-4BC7.-....**	**278000.–**	**▲ 1MB5823-4BC7.-....**	**278000.–**	**▲ 1MB5833-4BC7.-....**	**274000.–**
8-pole: 750 rpm at 50 Hz								
335	**IE3**	**400**	**▲ 1MB5813-4AD3.-....**	**161000.–**	**▲ 1MB5823-4AD3.-....**	**156000.–**	**▲ 1MB5833-4AD3.-....**	**159000.–**
375	**IE3**	**400**	**▲ 1MB5813-4AD5.-....**	**175000.–**	**▲ 1MB5823-4AD5.-....**	**171000.–**	**▲ 1MB5833-4AD5.-....**	**171000.–**
425	**IE3**	**400**	**▲ 1MB5813-4AD7.-....**	**209000.–**	**▲ 1MB5823-4AD7.-....**	**205000.–**	**▲ 1MB5833-4AD7.-....**	**205000.–**
485	**IE3**	**450**	**▲ 1MB5813-4BD3.-....**	**236000.–**	**▲ 1MB5823-4BD3.-....**	**230000.–**	**▲ 1MB5833-4BD3.-....**	**230000.–**
545	**IE3**	**450**	**▲ 1MB5813-4BD5.-....**	**260000.–**	**▲ 1MB5823-4BD5.-....**	**253000.–**	**▲ 1MB5833-4BD5.-....**	**253000.–**
600	**IE3**	**450**	**▲ 1MB5813-4BD7.-....**	**296000.–**	**▲ 1MB5823-4BD7.-....**	**291000.–**	**▲ 1MB5833-4BD7.-....**	**291000.–**

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Orientation

Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zones 21, 22 and 2 in types of protection Ex tb, Ex tc and Ex ec**
Efficiency	**IE2 High Efficiency**
Series version	**Aluminum series 1MB1011/1MB1021/1MB1031** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	80 L ... 160 L
Rated power at 50 Hz	0.37 ... 18.5 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	2.6 ... 109 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. Ex tb (zone 21)	Base price	Article No. Ex tc (zone 22)	Base price	Article No. Ex ec (zone 2)	Base price
kW		FS	▲ New	EUR	▲ New	EUR	▲ New	EUR
2-pole: 3000 rpm at 50 Hz								
0.18	**IE2**	**63 M**	▲ **1MB1011-0BA2.-....**	**549.–**	▲ **1MB1021-0BA2.-....**	**465.–**	▲ **1MB1031-0BA2.-....**	**498.–**
0.25	**IE2**	**63 M**	▲ **1MB1011-0BA3.-....**	**572.–**	▲ **1MB1021-0BA3.-....**	**488.–**	▲ **1MB1031-0BA3.-....**	**521.–**
0.37	**IE2**	**71 M**	▲ **1MB1011-0CA2.-....**	**602.–**	▲ **1MB1021-0CA2.-....**	**506.–**	▲ **1MB1031-0CA2.-....**	**547.–**
0.55	**IE2**	**71 M**	▲ **1MB1011-0CA3.-....**	**657.–**	▲ **1MB1021-0CA3.-....**	**561.–**	▲ **1MB1031-0CA3.-....**	**602.–**
0.75	**IE2**	**80 M**	**1MB1011-0DA2.-....**	**707.–**	**1MB1021-0DA2.-....**	**599.–**	**1MB1031-0DA2.-....**	**651.–**
1.1	**IE2**	**80 M**	**1MB1011-0DA3.-....**	**782.–**	**1MB1021-0DA3.-....**	**673.–**	**1MB1031-0DA3.-....**	**725.–**
1.5	**IE2**	**90 S**	**1MB1011-0EA0.-....**	**895.–**	**1MB1021-0EA0.-....**	**782.–**	**1MB1031-0EA0.-....**	**830.–**
2.2	**IE2**	**90 L**	**1MB1011-0EA4.-....**	**1090.–**	**1MB1021-0EA4.-....**	**979.–**	**1MB1031-0EA4.-....**	**1030.–**
3	**IE2**	**100 L**	**1MB1011-1AA4.-....**	**1290.–**	**1MB1021-1AA4.-....**	**1160.–**	**1MB1031-1AA4.-....**	**1240.–**
4	**IE2**	**112 M**	**1MB1011-1BA2.-....**	**1510.–**	**1MB1021-1BA2.-....**	**1370.–**	**1MB1031-1BA2.-....**	**1450.–**
5.5	**IE2**	**132 S**	**1MB1011-1CA0.-....**	**1900.–**	**1MB1021-1CA0.-....**	**1770.–**	**1MB1031-1CA0.-....**	**1840.–**
7.5	**IE2**	**132 S**	**1MB1011-1CA1.-....**	**2320.–**	**1MB1021-1CA1.-....**	**2180.–**	**1MB1031-1CA1.-....**	**2260.–**
11	**IE2**	**160 M**	**1MB1011-1DA2.-....**	**3200.–**	**1MB1021-1DA2.-....**	**3050.–**	**1MB1031-1DA2.-....**	**3120.–**
15	**IE2**	**160 M**	**1MB1011-1DA3.-....**	**4050.–**	**1MB1021-1DA3.-....**	**3890.–**	**1MB1031-1DA3.-....**	**3960.–**
18.5	**IE2**	**160 L**	**1MB1011-1DA4.-....**	**4750.–**	**1MB1021-1DA4.-....**	**4580.–**	**1MB1031-1DA4.-....**	**4660.–**
4-pole: 1500 rpm at 50 Hz								
0.12	**IE2**	**63 M**	▲ **1MB1011-0BB2.-....**	**557.–**	▲ **1MB1021-0BB2.-....**	**473.–**	▲ **1MB1031-0BB2.-....**	**506.–**
0.18	**IE2**	**63 M**	▲ **1MB1011-0BB3.-....**	**589.–**	▲ **1MB1021-0BB3.-....**	**505.–**	▲ **1MB1031-0BB3.-....**	**538.–**
0.25	**IE2**	**71 M**	▲ **1MB1011-0CB2.-....**	**611.–**	▲ **1MB1021-0CB2.-....**	**515.–**	▲ **1MB1031-0CB2.-....**	**555.–**
0.37	**IE2**	**71 M**	▲ **1MB1011-0CB3.-....**	**664.–**	▲ **1MB1021-0CB3.-....**	**568.–**	▲ **1MB1031-0CB3.-....**	**609.–**
0.55	**IE2**	**80 M**	**1MB1011-0DB2.-....**	**703.–**	**1MB1021-0DB2.-....**	**596.–**	**1MB1031-0DB2.-....**	**647.–**
0.75	**IE2**	**80 M**	**1MB1011-0DB3.-....**	**751.–**	**1MB1021-0DB3.-....**	**643.–**	**1MB1031-0DB3.-....**	**694.–**
1.1	**IE2**	**90 S**	**1MB1011-0EB0.-....**	**877.–**	**1MB1021-0EB0.-....**	**761.–**	**1MB1031-0EB0.-....**	**811.–**
1.5	**IE2**	**90 L**	**1MB1011-0EB4.-....**	**999.–**	**1MB1021-0EB4.-....**	**885.–**	**1MB1031-0EB4.-....**	**933.–**
2.2	**IE2**	**100 L**	**1MB1011-1AB4.-....**	**1190.–**	**1MB1021-1AB4.-....**	**1070.–**	**1MB1031-1AB4.-....**	**1140.–**
3	**IE2**	**100 L**	**1MB1011-1AB5.-....**	**1340.–**	**1MB1021-1AB5.-....**	**1230.–**	**1MB1031-1AB5.-....**	**1290.–**
4	**IE2**	**112 M**	**1MB1011-1BB2.-....**	**1620.–**	**1MB1021-1BB2.-....**	**1490.–**	**1MB1031-1BB2.-....**	**1570.–**
5.5	**IE2**	**132 S**	**1MB1011-1CB0.-....**	**2020.–**	**1MB1021-1CB0.-....**	**1880.–**	**1MB1031-1CB0.-....**	**1960.–**
7.5	**IE2**	**132 M**	**1MB1011-1CB2.-....**	**2470.–**	**1MB1021-1CB2.-....**	**2340.–**	**1MB1031-1CB2.-....**	**2420.–**
11	**IE2**	**160 M**	**1MB1011-1DB2.-....**	**3270.–**	**1MB1021-1DB2.-....**	**3120.–**	**1MB1031-1DB2.-....**	**3180.–**
15	**IE2**	**160 L**	**1MB1011-1DB4.-....**	**4100.–**	**1MB1021-1DB4.-....**	**3940.–**	**1MB1031-1DB4.-....**	**4020.–**

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Overview

Category	**Motors for zones 21, 22 and 2 in types of protection Ex tb, Ex tc and Ex ec**
Efficiency	**IE2 High Efficiency**
Series version	**Aluminum series 1MB1011/1MB1021/1MB1031**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	80 L ... 160 L
Rated power at 50 Hz	0.37 ... 18.5 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	2.6 ... 109 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. Ex tb (zone 21)	Base price	Article No. Ex tc (zone 22)	Base price	Article No. Ex ec (zone 2)	Base price
kW		FS	▲ New	EUR	▲ New	EUR	▲ New	EUR
6-pole: 1000 rpm at 50 Hz								
0.09	**IE2**	**63 M**	▲ **1MB1011-0BC2.-....**	**590.–**	▲ **1MB1021-0BC2.-....**	**506.–**	▲ **1MB1031-0BC2.-....**	**539.–**
0.18	**IE2**	**71 M**	▲ **1MB1011-0CC2.-....**	**629.–**	▲ **1MB1021-0CC2.-....**	**532.–**	▲ **1MB1031-0CC2.-....**	**573.–**
0.25	**IE2**	**71 M**	▲ **1MB1011-0CC3.-....**	**685.–**	▲ **1MB1021-0CC3.-....**	**589.–**	▲ **1MB1031-0CC3.-....**	**630.–**
0.37	**IE2**	**80 M**	**1MB1011-0DC2.-....**	**688.–**	**1MB1021-0DC2.-....**	**579.–**	**1MB1031-0DC2.-....**	**631.–**
0.55	**IE2**	**80 M**	**1MB1011-0DC3.-....**	**765.–**	**1MB1021-0DC3.-....**	**658.–**	**1MB1031-0DC3.-....**	**708.–**
0.75	**IE2**	**90 S**	**1MB1011-0EC0.-....**	**863.–**	**1MB1021-0EC0.-....**	**749.–**	**1MB1031-0EC0.-....**	**798.–**
1.1	**IE2**	**90 L**	**1MB1011-0EC4.-....**	**1020.–**	**1MB1021-0EC4.-....**	**904.–**	**1MB1031-0EC4.-....**	**953.–**
1.5	**IE2**	**100 L**	**1MB1011-1AC4.-....**	**1180.–**	**1MB1021-1AC4.-....**	**1060.–**	**1MB1031-1AC4.-....**	**1130.–**
2.2	**IE2**	**112 M**	**1MB1011-1BC2.-....**	**1460.–**	**1MB1021-1BC2.-....**	**1330.–**	**1MB1031-1BC2.-....**	**1400.–**
3	**IE2**	**132 S**	**1MB1011-1CC0.-....**	**1840.–**	**1MB1021-1CC0.-....**	**1700.–**	**1MB1031-1CC0.-....**	**1790.–**
4	**IE2**	**132 M**	**1MB1011-1CC2.-....**	**2180.–**	**1MB1021-1CC2.-....**	**2050.–**	**1MB1031-1CC2.-....**	**2130.–**
5.5	**IE2**	**132 M**	**1MB1011-1CC3.-....**	**2670.–**	**1MB1021-1CC3.-....**	**2530.–**	**1MB1031-1CC3.-....**	**2620.–**
7.5	**IE2**	**160 M**	**1MB1011-1DC2.-....**	**3420.–**	**1MB1021-1DC2.-....**	**3250.–**	**1MB1031-1DC2.-....**	**3330.–**
11	**IE2**	**160 L**	**1MB1011-1DC4.-....**	**4530.–**	**1MB1021-1DC4.-....**	**4380.–**	**1MB1031-1DC4.-....**	**4450.–**
8-pole: 750 rpm at 50 Hz								
0.09	**IE2**	**71 M**	▲ **1MB1011-0CD2.-....**	**646.–**	▲ **1MB1021-0CD2.-....**	**550.–**	▲ **1MB1031-0CD2.-....**	**591.–**
0.12	**IE2**	**71 M**	▲ **1MB1011-0CD3.-....**	**707.–**	▲ **1MB1021-0CD3.-....**	**611.–**	▲ **1MB1031-0CD3.-....**	**652.–**
0.75	**IE2**	**100 L**	**1MB1011-1AD4.-....**	**1300.–**	**1MB1021-1AD4.-....**	**1170.–**	**1MB1031-1AD4.-....**	**1250.–**
1.1	**IE2**	**100 L**	**1MB1011-1AD5.-....**	**1580.–**	**1MB1021-1AD5.-....**	**1450.–**	**1MB1031-1AD5.-....**	**1520.–**
1.5	**IE2**	**112 M**	**1MB1011-1BD2.-....**	**1860.–**	**1MB1021-1BD2.-....**	**1720.–**	**1MB1031-1BD2.-....**	**1810.–**
2.2	**IE2**	**132 S**	**1MB1011-1CD0.-....**	**2400.–**	**1MB1021-1CD0.-....**	**2260.–**	**1MB1031-1CD0.-....**	**2340.–**
3	**IE2**	**132 M**	**1MB1011-1CD2.-....**	**2850.–**	**1MB1021-1CD2.-....**	**2720.–**	**1MB1031-1CD2.-....**	**2790.–**
4	**IE2**	**160 M**	**1MB1011-1DD2.-....**	**3530.–**	**1MB1021-1DD2.-....**	**3390.–**	**1MB1031-1DD2.-....**	**3450.–**
5.5	**IE2**	**160 M**	**1MB1011-1DD3.-....**	**4230.–**	**1MB1021-1DD3.-....**	**4080.–**	**1MB1031-1DD3.-....**	**4140.–**
7.5	**IE2**	**160 L**	**1MB1011-1DD4.-....**	**5020.–**	**1MB1021-1DD4.-....**	**4850.–**	**1MB1031-1DD4.-....**	**4920.–**

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Orientation

Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zones 21, 22 and 2 in types of protection Ex tb, Ex tc and Ex ec**
Efficiency	**IE1 Standard Efficiency**
Series version	**Aluminum series 1MB1012/1MB1022/1MB1032**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 160 L
Rated power at 50 Hz	0.75 ... 18.5 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	10 ... 109 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz kW	IE class	Frame size FS	Article No. Ex tb (zone 21)	Base price EUR	Article No. Ex tc (zone 22)	Base price EUR	Article No. Ex ec (zone 2)	Base price EUR
2-pole: 3000 rpm at 50 Hz								
3	**IE1**	**100 L**	**1MB1012-1AA4.-....**	**1020.–**	**1MB1022-1AA4.-....**	**894.–**	**1MB1032-1AA4.-....**	**960.–**
4	**IE1**	**112 M**	**1MB1012-1BA2.-....**	**1240.–**	**1MB1022-1BA2.-....**	**1090.–**	**1MB1032-1BA2.-....**	**1170.–**
5.5	**IE1**	**132 S**	**1MB1012-1CA0.-....**	**1570.–**	**1MB1022-1CA0.-....**	**1430.–**	**1MB1032-1CA0.-....**	**1510.–**
7.5	**IE1**	**132 S**	**1MB1012-1CA1.-....**	**1920.–**	**1MB1022-1CA1.-....**	**1790.–**	**1MB1032-1CA1.-....**	**1860.–**
11	**IE1**	**160 M**	**1MB1012-1DA2.-....**	**2660.–**	**1MB1022-1DA2.-....**	**2500.–**	**1MB1032-1DA2.-....**	**2580.–**
15	**IE1**	**160 M**	**1MB1012-1DA3.-....**	**3330.–**	**1MB1022-1DA3.-....**	**3170.–**	**1MB1032-1DA3.-....**	**3230.–**
18.5	**IE1**	**160 L**	**1MB1012-1DA4.-....**	**3890.–**	**1MB1022-1DA4.-....**	**3740.–**	**1MB1032-1DA4.-....**	**3800.–**
4-pole: 1500 rpm at 50 Hz								
2.2	**IE1**	**100 L**	**1MB1012-1AB4.-....**	**921.–**	**1MB1022-1AB4.-....**	**800.–**	**1MB1032-1AB4.-....**	**865.–**
3	**IE1**	**100 L**	**1MB1012-1AB5.-....**	**1020.–**	**1MB1022-1AB5.-....**	**904.–**	**1MB1032-1AB5.-....**	**969.–**
4	**IE1**	**112 M**	**1MB1012-1BB2.-....**	**1280.–**	**1MB1022-1BB2.-....**	**1140.–**	**1MB1032-1BB2.-....**	**1230.–**
5.5	**IE1**	**132 S**	**1MB1012-1CB0.-....**	**1620.–**	**1MB1022-1CB0.-....**	**1490.–**	**1MB1032-1CB0.-....**	**1570.–**
7.5	**IE1**	**132 M**	**1MB1012-1CB2.-....**	**1980.–**	**1MB1022-1CB2.-....**	**1850.–**	**1MB1032-1CB2.-....**	**1930.–**
11	**IE1**	**160 M**	**1MB1012-1DB2.-....**	**2710.–**	**1MB1022-1DB2.-....**	**2550.–**	**1MB1032-1DB2.-....**	**2620.–**
15	**IE1**	**160 L**	**1MB1012-1DB4.-....**	**3390.–**	**1MB1022-1DB4.-....**	**3220.–**	**1MB1032-1DB4.-....**	**3290.–**
6-pole: 1000 rpm at 50 Hz								
1.5	**IE1**	**100 L**	**1MB1012-1AC4.-....**	**965.–**	**1MB1022-1AC4.-....**	**846.–**	**1MB1032-1AC4.-....**	**911.–**
2.2	**IE1**	**112 M**	**1MB1012-1BC2.-....**	**1180.–**	**1MB1022-1BC2.-....**	**1050.–**	**1MB1032-1BC2.-....**	**1130.–**
3	**IE1**	**132 S**	**1MB1012-1CC0.-....**	**1490.–**	**1MB1022-1CC0.-....**	**1350.–**	**1MB1032-1CC0.-....**	**1430.–**
4	**IE1**	**132 M**	**1MB1012-1CC2.-....**	**1780.–**	**1MB1022-1CC2.-....**	**1640.–**	**1MB1032-1CC2.-....**	**1710.–**
5.5	**IE1**	**132 M**	**1MB1012-1CC3.-....**	**2150.–**	**1MB1022-1CC3.-....**	**2020.–**	**1MB1032-1CC3.-....**	**2100.–**
7.5	**IE1**	**160 M**	**1MB1012-1DC2.-....**	**2820.–**	**1MB1022-1DC2.-....**	**2660.–**	**1MB1032-1DC2.-....**	**2730.–**
11	**IE1**	**160 L**	**1MB1012-1DC4.-....**	**3730.–**	**1MB1022-1DC4.-....**	**3560.–**	**1MB1032-1DC4.-....**	**3640.–**
8-pole: 750 rpm at 50 Hz								
0.75	**IE1**	**100 L**	**1MB1012-1AD4.-....**	**994.–**	**1MB1022-1AD4.-....**	**874.–**	**1MB1032-1AD4.-....**	**939.–**
1.1	**IE1**	**100 L**	**1MB1012-1AD5.-....**	**1190.–**	**1MB1022-1AD5.-....**	**1070.–**	**1MB1032-1AD5.-....**	**1140.–**
1.5	**IE1**	**112 M**	**1MB1012-1BD2.-....**	**1400.–**	**1MB1022-1BD2.-....**	**1280.–**	**1MB1032-1BD2.-....**	**1350.–**
2.2	**IE1**	**132 S**	**1MB1012-1CD0.-....**	**1810.–**	**1MB1022-1CD0.-....**	**1670.–**	**1MB1032-1CD0.-....**	**1760.–**
3	**IE1**	**132 M**	**1MB1012-1CD2.-....**	**2130.–**	**1MB1022-1CD2.-....**	**1990.–**	**1MB1032-1CD2.-....**	**2080.–**
4	**IE1**	**160 M**	**1MB1012-1DD2.-....**	**2660.–**	**1MB1022-1DD2.-....**	**2500.–**	**1MB1032-1DD2.-....**	**2580.–**
5.5	**IE1**	**160 M**	**1MB1012-1DD3.-....**	**3190.–**	**1MB1022-1DD3.-....**	**3040.–**	**1MB1032-1DD3.-....**	**3110.–**
7.5	**IE1**	**160 L**	**1MB1012-1DD4.-....**	**3830.–**	**1MB1022-1DD4.-....**	**3690.–**	**1MB1032-1DD4.-....**	**3750.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 21 in type of protection Ex tb**
Efficiency	**IE3 Premium Efficiency**
Series version	**Cast-iron series 1MB1513, 1MB1613 Basic/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.18 ... 200 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	10 ... 1542 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
0.37	**IE3**	**71 M**	**1MB1513-0CA2.-....**	**819.–**		
0.55	**IE3**	**71 M**	**1MB1513-0CA3.-....**	**930.–**		
0.75	**IE3**	**80 M**	**1MB1513-0DA2.-....**	**973.–**		
1.1	**IE3**	**80 M**	**1MB1513-0DA3.-....**	**1080.–**		
1.5	**IE3**	**90 S**	**1MB1513-0EA0.-....**	**1250.–**		
2.2	**IE3**	**90 L**	**1MB1513-0EA4.-....**	**1480.–**		
3	**IE3**	**100 L**	**1MB1513-1AA4.-....**	**1520.–**	**1MB1613-1AA4.-....**	**1680.–**
4	**IE3**	**112 M**	**1MB1513-1BA2.-....**	**1800.–**	**1MB1613-1BA2.-....**	**1980.–**
5.5	**IE3**	**132 S**	**1MB1513-1CA0.-....**	**2220.–**	**1MB1613-1CA0.-....**	**2480.–**
7.5	**IE3**	**132 S**	**1MB1513-1CA1.-....**	**2760.–**	**1MB1613-1CA1.-....**	**3070.–**
11	**IE3**	**160 M**	**1MB1513-1DA2.-....**	**3800.–**	**1MB1613-1DA2.-....**	**4240.–**
15	**IE3**	**160 M**	**1MB1513-1DA3.-....**	**4830.–**	**1MB1613-1DA3.-....**	**5400.–**
18.5	**IE3**	**160 L**	**1MB1513-1DA4.-....**	**5690.–**	**1MB1613-1DA4.-....**	**6370.–**
22	**IE3**	**180 M**	**1MB1513-1EA2.-....**	**6480.–**	**1MB1613-1EA2.-....**	**6990.–**
30	**IE3**	**200 L**	**1MB1513-2AA4.-....**	**8600.–**	**1MB1613-2AA4.-....**	**9270.–**
37	**IE3**	**200 L**	**1MB1513-2AA5.-....**	**10500.–**	**1MB1613-2AA5.-....**	**11400.–**
45	**IE3**	**225 M**	**1MB1513-2BA2.-....**	**12200.–**	**1MB1613-2BA2.-....**	**13100.–**
55	**IE3**	**250 M**	**1MB1513-2CA2.-....**	**14500.–**	**1MB1613-2CA2.-....**	**15700.–**
75	**IE3**	**280 S**	**1MB1513-2DA0.-....**	**19700.–**	**1MB1613-2DA0.-....**	**20200.–**
90	**IE3**	**280 M**	**1MB1513-2DA2.-....**	**22900.–**	**1MB1613-2DA2.-....**	**23700.–**
110	**IE3**	**315 S**	**1MB1513-3AA0.-....**	**27300.–**	**1MB1613-3AA0.-....**	**28500.–**
132	**IE3**	**315 M**	**1MB1513-3AA2.-....**	**32200.–**	**1MB1613-3AA2.-....**	**33700.–**
160	**IE3**	**315 L**	**1MB1513-3AA4.-....**	**39400.–**	**1MB1613-3AA4.-....**	**41100.–**
200	**IE3**	**315 L**	**1MB1513-3AA5.-....**	**48600.–**	**1MB1613-3AA5.-....**	**50800.–**
4-pole: 1500 rpm at 50 Hz						
0.25	**IE3**	**71 M**	**1MB1513-0CB2.-....**	**813.–**		
0.37	**IE3**	**71 M**	**1MB1513-0CB3.-....**	**889.–**		
0.55	**IE3**	**80 M**	**1MB1513-0DB2.-....**	**967.–**		
0.75	**IE3**	**80 M**	**1MB1513-0DB3.-....**	**1040.–**		
1.1	**IE3**	**90 S**	**1MB1513-0EB0.-....**	**1230.–**		
1.5	**IE3**	**90 L**	**1MB1513-0EB4.-....**	**1350.–**		
2.2	**IE3**	**100 L**	**1MB1513-1AB4.-....**	**1390.–**	**1MB1613-1AB4.-....**	**1560.–**
3	**IE3**	**100 L**	**1MB1513-1AB5.-....**	**1590.–**	**1MB1613-1AB5.-....**	**1770.–**
4	**IE3**	**112 M**	**1MB1513-1BB2.-....**	**1910.–**	**1MB1613-1BB2.-....**	**2130.–**
5.5	**IE3**	**132 S**	**1MB1513-1CB0.-....**	**2390.–**	**1MB1613-1CB0.-....**	**2660.–**
7.5	**IE3**	**132 M**	**1MB1513-1CB2.-....**	**2950.–**	**1MB1613-1CB2.-....**	**3290.–**
11	**IE3**	**160 M**	**1MB1513-1DB2.-....**	**3890.–**	**1MB1613-1DB2.-....**	**4340.–**
15	**IE3**	**160 L**	**1MB1513-1DB4.-....**	**4890.–**	**1MB1613-1DB4.-....**	**5480.–**
18.5	**IE3**	**180 M**	**1MB1513-1EB2.-....**	**5600.–**	**1MB1613-1EB2.-....**	**6040.–**
22	**IE3**	**180 L**	**1MB1513-1EB4.-....**	**6400.–**	**1MB1613-1EB4.-....**	**6910.–**
30	**IE3**	**200 L**	**1MB1513-2AB5.-....**	**8500.–**	**1MB1613-2AB5.-....**	**9150.–**
37	**IE3**	**225 S**	**1MB1513-2BB0.-....**	**9960.–**	**1MB1613-2BB0.-....**	**10700.–**
45	**IE3**	**225 M**	**1MB1513-2BB2.-....**	**11400.–**	**1MB1613-2BB2.-....**	**12500.–**
55	**IE3**	**250 M**	**1MB1513-2CB2.-....**	**14000.–**	**1MB1613-2CB2.-....**	**15200.–**
75	**IE3**	**280 S**	**1MB1513-2DB0.-....**	**18600.–**	**1MB1613-2DB0.-....**	**19200.–**
90	**IE3**	**280 M**	**1MB1513-2DB2.-....**	**21500.–**	**1MB1613-2DB2.-....**	**22000.–**
110	**IE3**	**315 S**	**1MB1513-3AB0.-....**	**26800.–**	**1MB1613-3AB0.-....**	**27300.–**
132	**IE3**	**315 M**	**1MB1513-3AB2.-....**	**31200.–**	**1MB1613-3AB2.-....**	**32100.–**
160	**IE3**	**315 L**	**1MB1513-3AB4.-....**	**37300.–**	**1MB1613-3AB4.-....**	**38100.–**
200	**IE3**	**315 L**	**1MB1513-3AB5.-....**	**45600.–**	**1MB1613-3AB5.-....**	**46800.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 21 in type of protection Ex tb**
Efficiency	**IE3 Premium Efficiency**
Series version	**Cast-iron series 1MB1513, 1MB1613 Basic/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.18 ... 200 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	10 ... 1542 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz						
0.18	**IE3**	**71 M**	**1MB1513-0CC2.-....**	**794.–**		
0.25	**IE3**	**71 M**	**1MB1513-0CC3.-....**	**908.–**		
0.37	**IE3**	**80 M**	**1MB1513-0DC2.-....**	**943.–**		
0.55	**IE3**	**80 M**	**1MB1513-0DC3.-....**	**1060.–**		
0.75	**IE3**	**90 S**	**1MB1513-0EC0.-....**	**1190.–**		
1.1	**IE3**	**90 L**	**1MB1513-0EC4.-....**	**1340.–**		
1.5	**IE3**	**100 L**	**1MB1513-1AC4.-....**	**1370.–**	**1MB1613-1AC4.-....**	**1550.–**
2.2	**IE3**	**112 M**	**1MB1513-1BC2.-....**	**1720.–**	**1MB1613-1BC2.-....**	**1920.–**
3	**IE3**	**132 S**	**1MB1513-1CC0.-....**	**2170.–**	**1MB1613-1CC0.-....**	**2420.–**
4	**IE3**	**132 M**	**1MB1513-1CC2.-....**	**2600.–**	**1MB1613-1CC2.-....**	**2880.–**
5.5	**IE3**	**132 M**	**1MB1513-1CC3.-....**	**3180.–**	**1MB1613-1CC3.-....**	**3540.–**
7.5	**IE3**	**160 M**	**1MB1513-1DC2.-....**	**4070.–**	**1MB1613-1DC2.-....**	**4530.–**
11	**IE3**	**160 L**	**1MB1513-1DC4.-....**	**5440.–**	**1MB1613-1DC4.-....**	**6110.–**
15	**IE3**	**180 L**	**1MB1513-1EC4.-....**	**6790.–**	**1MB1613-1EC4.-....**	**7320.–**
18.5	**IE3**	**200 L**	**1MB1513-2AC4.-....**	**8550.–**	**1MB1613-2AC4.-....**	**9200.–**
22	**IE3**	**200 L**	**1MB1513-2AC5.-....**	**9730.–**	**1MB1613-2AC5.-....**	**10500.–**
30	**IE3**	**225 M**	**1MB1513-2BC2.-....**	**12500.–**	**1MB1613-2BC2.-....**	**13400.–**
37	**IE3**	**250 M**	**1MB1513-2CC2.-....**	**15200.–**	**1MB1613-2CC2.-....**	**16400.–**
45	**IE3**	**280 S**	**1MB1513-2DC0.-....**	**18500.–**	**1MB1613-2DC0.-....**	**19100.–**
55	**IE3**	**280 M**	**1MB1513-2DC2.-....**	**21500.–**	**1MB1613-2DC2.-....**	**22000.–**
75	**IE3**	**315 S**	**1MB1513-3AC0.-....**	**28900.–**	**1MB1613-3AC0.-....**	**29600.–**
90	**IE3**	**315 M**	**1MB1513-3AC2.-....**	**32200.–**	**1MB1613-3AC2.-....**	**33100.–**
110	**IE3**	**315 L**	**1MB1513-3AC4.-....**	**38300.–**	**1MB1613-3AC4.-....**	**39300.–**
132	**IE3**	**315 L**	**1MB1513-3AC5.-....**	**45100.–**	**1MB1613-3AC5.-....**	**46200.–**
160	**IE3**	**315 L**	**1MB1513-3AC6.-....**	**54200.–**	**1MB1613-3AC6.-....**	**55600.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 21 in type of protection Ex tb**
Efficiency	**IE2 High Efficiency**
Series version	**Cast-iron series 1MB1511, 1MB1611 Basic Line/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.09 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	9.9 ... 1703 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
0.37	**IE2**	**71 M**	**1MB1511-0CA2.-....**	**687.–**		
0.55	**IE2**	**71 M**	**1MB1511-0CA3.-....**	**777.–**		
0.75	**IE2**	**80 M**	**1MB1511-0DA2.-....**	**816.–**		
1.1	**IE2**	**80 M**	**1MB1511-0DA3.-....**	**905.–**		
1.5	**IE2**	**90 S**	**1MB1511-0EA0.-....**	**1040.–**		
2.2	**IE2**	**90 L**	**1MB1511-0EA4.-....**	**1230.–**		
3	**IE2**	**100 L**	**1MB1511-1AA4.-....**	**1370.–**	**1MB1611-1AA4.-....**	**1490.–**
4	**IE2**	**112 M**	**1MB1511-1BA2.-....**	**1620.–**	**1MB1611-1BA2.-....**	**1760.–**
5.5	**IE2**	**132 S**	**1MB1511-1CA0.-....**	**2030.–**	**1MB1611-1CA0.-....**	**2200.–**
7.5	**IE2**	**132 S**	**1MB1511-1CA1.-....**	**2490.–**	**1MB1611-1CA1.-....**	**2710.–**
11	**IE2**	**160 M**	**1MB1511-1DA2.-....**	**3440.–**	**1MB1611-1DA2.-....**	**3890.–**
15	**IE2**	**160 M**	**1MB1511-1DA3.-....**	**4350.–**	**1MB1611-1DA3.-....**	**4930.–**
18.5	**IE2**	**160 L**	**1MB1511-1DA4.-....**	**5100.–**	**1MB1611-1DA4.-....**	**5800.–**
22	**IE2**	**180 M**	**1MB1511-1EA2.-....**	**5840.–**	**1MB1611-1EA2.-....**	**6370.–**
30	**IE2**	**200 L**	**1MB1511-2AA4.-....**	**7780.–**	**1MB1611-2AA4.-....**	**8450.–**
37	**IE2**	**200 L**	**1MB1511-2AA5.-....**	**9490.–**	**1MB1611-2AA5.-....**	**10300.–**
45	**IE2**	**225 M**	**1MB1511-2BA2.-....**	**11100.–**	**1MB1611-2BA2.-....**	**12200.–**
55	**IE2**	**250 M**	**1MB1511-2CA2.-....**	**13300.–**	**1MB1611-2CA2.-....**	**14400.–**
75	**IE2**	**280 S**	**1MB1511-2DA0.-....**	**18000.–**	**1MB1611-2DA0.-....**	**18400.–**
90	**IE2**	**280 M**	**1MB1511-2DA2.-....**	**20900.–**	**1MB1611-2DA2.-....**	**21800.–**
110	**IE2**	**315 S**	**1MB1511-3AA0.-....**	**25000.–**	**1MB1611-3AA0.-....**	**26300.–**
132	**IE2**	**315 M**	**1MB1511-3AA2.-....**	**29600.–**	**1MB1611-3AA2.-....**	**30900.–**
160	**IE2**	**315 L**	**1MB1511-3AA4.-....**	**36100.–**	**1MB1611-3AA4.-....**	**37800.–**
200	**IE2**	**315 L**	**1MB1511-3AA5.-....**	**44500.–**	**1MB1611-3AA5.-....**	**46500.–**
4-pole: 1500 rpm at 50 Hz						
0.25	**IE2**	**71 M**	**1MB1511-0CB2.-....**	**684.–**		
0.37	**IE2**	**71 M**	**1MB1511-0CB3.-....**	**746.–**		
0.55	**IE2**	**80 M**	**1MB1511-0DB2.-....**	**812.–**		
0.75	**IE2**	**80 M**	**1MB1511-0DB3.-....**	**867.–**		
1.1	**IE2**	**90 S**	**1MB1511-0EB0.-....**	**1010.–**		
1.5	**IE2**	**90 L**	**1MB1511-0EB4.-....**	**1120.–**		
2.2	**IE2**	**100 L**	**1MB1511-1AB4.-....**	**1280.–**	**1MB1611-1AB4.-....**	**1370.–**
3	**IE2**	**100 L**	**1MB1511-1AB5.-....**	**1430.–**	**1MB1611-1AB5.-....**	**1560.–**
4	**IE2**	**112 M**	**1MB1511-1BB2.-....**	**1720.–**	**1MB1611-1BB2.-....**	**1880.–**
5.5	**IE2**	**132 S**	**1MB1511-1CB0.-....**	**2160.–**	**1MB1611-1CB0.-....**	**2350.–**
7.5	**IE2**	**132 M**	**1MB1511-1CB2.-....**	**2660.–**	**1MB1611-1CB2.-....**	**2890.–**
11	**IE2**	**160 M**	**1MB1511-1DB2.-....**	**3510.–**	**1MB1611-1DB2.-....**	**3960.–**
15	**IE2**	**160 L**	**1MB1511-1DB4.-....**	**4410.–**	**1MB1611-1DB4.-....**	**5020.–**
18.5	**IE2**	**180 M**	**1MB1511-1EB2.-....**	**5050.–**	**1MB1611-1EB2.-....**	**5480.–**
22	**IE2**	**180 L**	**1MB1511-1EB4.-....**	**5770.–**	**1MB1611-1EB4.-....**	**6270.–**
30	**IE2**	**200 L**	**1MB1511-2AB5.-....**	**7670.–**	**1MB1611-2AB5.-....**	**8330.–**
37	**IE2**	**225 S**	**1MB1511-2BB0.-....**	**9180.–**	**1MB1611-2BB0.-....**	**9960.–**
45	**IE2**	**225 M**	**1MB1511-2BB2.-....**	**10600.–**	**1MB1611-2BB2.-....**	**11400.–**
55	**IE2**	**250 M**	**1MB1511-2CB2.-....**	**12900.–**	**1MB1611-2CB2.-....**	**13900.–**
75	**IE2**	**280 S**	**1MB1511-2DB0.-....**	**17100.–**	**1MB1611-2DB0.-....**	**17600.–**
90	**IE2**	**280 M**	**1MB1511-2DB2.-....**	**19700.–**	**1MB1611-2DB2.-....**	**20300.–**
110	**IE2**	**315 S**	**1MB1511-3AB0.-....**	**24500.–**	**1MB1611-3AB0.-....**	**25100.–**
132	**IE2**	**315 M**	**1MB1511-3AB2.-....**	**28600.–**	**1MB1611-3AB2.-....**	**29400.–**
160	**IE2**	**315 L**	**1MB1511-3AB4.-....**	**34000.–**	**1MB1611-3AB4.-....**	**34900.–**
200	**IE2**	**315 L**	**1MB1511-3AB5.-....**	**41800.–**	**1MB1611-3AB5.-....**	**43000.–**

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Orientation

Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 21 in type of protection Ex tb**
Efficiency	**IE2 High Efficiency**
Series version	**Cast-iron series 1MB1511, 1MB1611 Basic Line/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.09 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	9.9 ... 1703 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz						
0.18	**IE2**	**71 M**	**1MB1511-0CC2.-....**	**666.–**		
0.25	**IE2**	**71 M**	**1MB1511-0CC3.-....**	**760.–**		
0.37	**IE2**	**80 M**	**1MB1511-0DC2.-....**	**791.–**		
0.55	**IE2**	**80 M**	**1MB1511-0DC3.-....**	**886.–**		
0.75	**IE2**	**90 S**	**1MB1511-0EC0.-....**	**999.–**		
1.1	**IE2**	**90 L**	**1MB1511-0EC4.-....**	**1130.–**		
1.5	**IE2**	**100 L**	**1MB1511-1AC4.-....**	**1270.–**	**1MB1611-1AC4.-....**	**1360.–**
2.2	**IE2**	**112 M**	**1MB1511-1BC2.-....**	**1570.–**	**1MB1611-1BC2.-....**	**1690.–**
3	**IE2**	**132 S**	**1MB1511-1CC0.-....**	**1970.–**	**1MB1611-1CC0.-....**	**2130.–**
4	**IE2**	**132 M**	**1MB1511-1CC2.-....**	**2350.–**	**1MB1611-1CC2.-....**	**2550.–**
5.5	**IE2**	**132 M**	**1MB1511-1CC3.-....**	**2870.–**	**1MB1611-1CC3.-....**	**3120.–**
7.5	**IE2**	**160 M**	**1MB1511-1DC2.-....**	**3670.–**	**1MB1611-1DC2.-....**	**4140.–**
11	**IE2**	**160 L**	**1MB1511-1DC4.-....**	**4880.–**	**1MB1611-1DC4.-....**	**5560.–**
15	**IE2**	**180 L**	**1MB1511-1EC4.-....**	**6110.–**	**1MB1611-1EC4.-....**	**6650.–**
18.5	**IE2**	**200 L**	**1MB1511-2AC4.-....**	**7710.–**	**1MB1611-2AC4.-....**	**8380.–**
22	**IE2**	**200 L**	**1MB1511-2AC5.-....**	**8790.–**	**1MB1611-2AC5.-....**	**9550.–**
30	**IE2**	**225 M**	**1MB1511-2BC2.-....**	**11400.–**	**1MB1611-2BC2.-....**	**12500.–**
37	**IE2**	**250 M**	**1MB1511-2CC2.-....**	**13900.–**	**1MB1611-2CC2.-....**	**15100.–**
45	**IE2**	**280 S**	**1MB1511-2DC0.-....**	**17000.–**	**1MB1611-2DC0.-....**	**17500.–**
55	**IE2**	**280 M**	**1MB1511-2DC2.-....**	**19700.–**	**1MB1611-2DC2.-....**	**20300.–**
75	**IE2**	**315 S**	**1MB1511-3AC0.-....**	**26500.–**	**1MB1611-3AC0.-....**	**27200.–**
90	**IE2**	**315 M**	**1MB1511-3AC2.-....**	**29600.–**	**1MB1611-3AC2.-....**	**30300.–**
110	**IE2**	**315 L**	**1MB1511-3AC4.-....**	**35000.–**	**1MB1611-3AC4.-....**	**35900.–**
132	**IE2**	**315 L**	**1MB1511-3AC5.-....**	**41200.–**	**1MB1611-3AC5.-....**	**42400.–**
160	**IE2**	**315 L**	**1MB1511-3AC6.-....**	**49400.–**	**1MB1611-3AC6.-....**	**50900.–**
8-pole: 750 rpm at 50 Hz						
0.09	**–**	**71 M**	**1MB1511-0CD2.-....**	**748.–**		
0.12	**IE2**	**71 M**	**1MB1511-0CD3.-....**	**814.–**		
0.18	**IE2**	**80 M**	**1MB1511-0DD2.-....**	**868.–**		
0.25	**IE2**	**80 M**	**1MB1511-0DD3.-....**	**1020.–**		
0.37	**IE2**	**90 S**	**1MB1511-0ED0.-....**	**1190.–**		
0.55	**IE2**	**90 L**	**1MB1511-0ED4.-....**	**1340.–**		
0.75	**IE2**	**100 L**	**1MB1511-1AD4.-....**	**1380.–**	**1MB1611-1AD4.-....**	**1510.–**
1.1	**IE2**	**100 L**	**1MB1511-1AD5.-....**	**1680.–**	**1MB1611-1AD5.-....**	**1830.–**
1.5	**IE2**	**112 M**	**1MB1511-1BD2.-....**	**1980.–**	**1MB1611-1BD2.-....**	**2170.–**
2.2	**IE2**	**132 S**	**1MB1511-1CD0.-....**	**2560.–**	**1MB1611-1CD0.-....**	**2790.–**
3	**IE2**	**132 M**	**1MB1511-1CD2.-....**	**3060.–**	**1MB1611-1CD2.-....**	**3340.–**
4	**IE2**	**160 M**	**1MB1511-1DD2.-....**	**3790.–**	**1MB1611-1DD2.-....**	**4300.–**
5.5	**IE2**	**160 M**	**1MB1511-1DD3.-....**	**4560.–**	**1MB1611-1DD3.-....**	**5170.–**
7.5	**IE2**	**160 L**	**1MB1511-1DD4.-....**	**5410.–**	**1MB1611-1DD4.-....**	**6150.–**
11	**–**	**180 L**	**1MB1511-1ED4.-....**	**6480.–**	**1MB1611-1ED4.-....**	**7070.–**
15	**–**	**200 L**	**1MB1511-2AD5.-....**	**8740.–**	**1MB1611-2AD5.-....**	**9520.–**
18.5	**–**	**225 S**	**1MB1511-2BD0.-....**	**10400.–**	**1MB1611-2BD0.-....**	**11300.–**
22	**–**	**225 M**	**1MB1511-2BD2.-....**	**11600.–**	**1MB1611-2BD2.-....**	**12800.–**
30	**–**	**250 M**	**1MB1511-2CD2.-....**	**15100.–**	**1MB1611-2CD2.-....**	**16500.–**
37	**–**	**280 S**	**1MB1511-2DD0.-....**	**18100.–**	**1MB1611-2DD0.-....**	**18600.–**
45	**–**	**280 M**	**1MB1511-2DD2.-....**	**21600.–**	**1MB1611-2DD2.-....**	**22200.–**
55	**–**	**315 S**	**1MB1511-3AD0.-....**	**25600.–**	**1MB1611-3AD0.-....**	**26500.–**
75	**–**	**315 M**	**1MB1511-3AD2.-....**	**33600.–**	**1MB1611-3AD2.-....**	**34500.–**
90	**–**	**315 L**	**1MB1511-3AD4.-....**	**37100.–**	**1MB1611-3AD4.-....**	**38100.–**
110	**–**	**315 L**	**1MB1511-3AD5.-....**	**44100.–**	**1MB1611-3AD5.-....**	**45400.–**
132	**–**	**315 L**	**1MB1511-3AD6.-....**	**52100.–**	**1MB1611-3AD6.-....**	**53800.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 22 in type of protection Ex tc**
Efficiency	**IE3 Premium Efficiency**
Series version	**Cast-iron series 1MB1523, 1MB1623 Basic/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.18 ... 200 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	10 ... 1542 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
0.37	**IE3**	**71 M**	**1MB1523-0CA2.-....**	**722.–**		
0.55	**IE3**	**71 M**	**1MB1523-0CA3.-....**	**833.–**		
0.75	**IE3**	**80 M**	**1MB1523-0DA2.-....**	**865.–**		
1.1	**IE3**	**80 M**	**1MB1523-0DA3.-....**	**976.–**		
1.5	**IE3**	**90 S**	**1MB1523-0EA0.-....**	**1130.–**		
2.2	**IE3**	**90 L**	**1MB1523-0EA4.-....**	**1350.–**		
3	**IE3**	**100 L**	**1MB1523-1AA4.-....**	**1390.–**	**1MB1623-1AA4.-....**	**1570.–**
4	**IE3**	**112 M**	**1MB1523-1BA2.-....**	**1660.–**	**1MB1623-1BA2.-....**	**1860.–**
5.5	**IE3**	**132 S**	**1MB1523-1CA0.-....**	**2110.–**	**1MB1623-1CA0.-....**	**2360.–**
7.5	**IE3**	**132 S**	**1MB1523-1CA1.-....**	**2640.–**	**1MB1623-1CA1.-....**	**2950.–**
11	**IE3**	**160 M**	**1MB1523-1DA2.-....**	**3660.–**	**1MB1623-1DA2.-....**	**4090.–**
15	**IE3**	**160 M**	**1MB1523-1DA3.-....**	**4680.–**	**1MB1623-1DA3.-....**	**5250.–**
18.5	**IE3**	**160 L**	**1MB1523-1DA4.-....**	**5520.–**	**1MB1623-1DA4.-....**	**6210.–**
22	**IE3**	**180 M**	**1MB1523-1EA2.-....**	**6360.–**	**1MB1623-1EA2.-....**	**6870.–**
30	**IE3**	**200 L**	**1MB1523-2AA4.-....**	**8320.–**	**1MB1623-2AA4.-....**	**8990.–**
37	**IE3**	**200 L**	**1MB1523-2AA5.-....**	**10300.–**	**1MB1623-2AA5.-....**	**11100.–**
45	**IE3**	**225 M**	**1MB1523-2BA2.-....**	**11600.–**	**1MB1623-2BA2.-....**	**12700.–**
55	**IE3**	**250 M**	**1MB1523-2CA2.-....**	**13900.–**	**1MB1623-2CA2.-....**	**15000.–**
75	**IE3**	**280 S**	**1MB1523-2DA0.-....**	**18700.–**	**1MB1623-2DA0.-....**	**19200.–**
90	**IE3**	**280 M**	**1MB1523-2DA2.-....**	**21900.–**	**1MB1623-2DA2.-....**	**22900.–**
110	**IE3**	**315 S**	**1MB1523-3AA0.-....**	**26200.–**	**1MB1623-3AA0.-....**	**27300.–**
132	**IE3**	**315 M**	**1MB1523-3AA2.-....**	**31100.–**	**1MB1623-3AA2.-....**	**32400.–**
160	**IE3**	**315 L**	**1MB1523-3AA4.-....**	**38200.–**	**1MB1623-3AA4.-....**	**40100.–**
200	**IE3**	**315 L**	**1MB1523-3AA5.-....**	**47500.–**	**1MB1623-3AA5.-....**	**49600.–**
4-pole: 1500 rpm at 50 Hz						
0.25	**IE3**	**71 M**	**1MB1523-0CB2.-....**	**717.–**		
0.37	**IE3**	**71 M**	**1MB1523-0CB3.-....**	**793.–**		
0.55	**IE3**	**80 M**	**1MB1523-0DB2.-....**	**859.–**		
0.75	**IE3**	**80 M**	**1MB1523-0DB3.-....**	**929.–**		
1.1	**IE3**	**90 S**	**1MB1523-0EB0.-....**	**1100.–**		
1.5	**IE3**	**90 L**	**1MB1523-0EB4.-....**	**1240.–**		
2.2	**IE3**	**100 L**	**1MB1523-1AB4.-....**	**1300.–**	**1MB1623-1AB4.-....**	**1430.–**
3	**IE3**	**100 L**	**1MB1523-1AB5.-....**	**1460.–**	**1MB1623-1AB5.-....**	**1640.–**
4	**IE3**	**112 M**	**1MB1523-1BB2.-....**	**1790.–**	**1MB1623-1BB2.-....**	**1990.–**
5.5	**IE3**	**132 S**	**1MB1523-1CB0.-....**	**2260.–**	**1MB1623-1CB0.-....**	**2530.–**
7.5	**IE3**	**132 M**	**1MB1523-1CB2.-....**	**2830.–**	**1MB1623-1CB2.-....**	**3170.–**
11	**IE3**	**160 M**	**1MB1523-1DB2.-....**	**3740.–**	**1MB1623-1DB2.-....**	**4180.–**
15	**IE3**	**160 L**	**1MB1523-1DB4.-....**	**4750.–**	**1MB1623-1DB4.-....**	**5340.–**
18.5	**IE3**	**180 M**	**1MB1523-1EB2.-....**	**5460.–**	**1MB1623-1EB2.-....**	**5900.–**
22	**IE3**	**180 L**	**1MB1523-1EB4.-....**	**6260.–**	**1MB1623-1EB4.-....**	**6770.–**
30	**IE3**	**200 L**	**1MB1523-2AB5.-....**	**8220.–**	**1MB1623-2AB5.-....**	**8870.–**
37	**IE3**	**225 S**	**1MB1523-2BB0.-....**	**9490.–**	**1MB1623-2BB0.-....**	**10300.–**
45	**IE3**	**225 M**	**1MB1523-2BB2.-....**	**11000.–**	**1MB1623-2BB2.-....**	**11900.–**
55	**IE3**	**250 M**	**1MB1523-2CB2.-....**	**13400.–**	**1MB1623-2CB2.-....**	**14500.–**
75	**IE3**	**280 S**	**1MB1523-2DB0.-....**	**17800.–**	**1MB1623-2DB0.-....**	**18200.–**
90	**IE3**	**280 M**	**1MB1523-2DB2.-....**	**20700.–**	**1MB1623-2DB2.-....**	**21200.–**
110	**IE3**	**315 S**	**1MB1523-3AB0.-....**	**25600.–**	**1MB1623-3AB0.-....**	**26200.–**
132	**IE3**	**315 M**	**1MB1523-3AB2.-....**	**30100.–**	**1MB1623-3AB2.-....**	**31000.–**
160	**IE3**	**315 L**	**1MB1523-3AB4.-....**	**36100.–**	**1MB1623-3AB4.-....**	**37000.–**
200	**IE3**	**315 L**	**1MB1523-3AB5.-....**	**44500.–**	**1MB1623-3AB5.-....**	**45700.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 22 in type of protection Ex tc**
Efficiency	**IE3 Premium Efficiency**
Series version	**Cast-iron series 1MB1523, 1MB1623 Basic/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.18 ... 200 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	10 ... 1542 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz						
0.18	**IE3**	**71 M**	**1MB1523-0CC2.-....**	**697.–**		
0.25	**IE3**	**71 M**	**1MB1523-0CC3.-....**	**812.–**		
0.37	**IE3**	**80 M**	**1MB1523-0DC2.-....**	**835.–**		
0.55	**IE3**	**80 M**	**1MB1523-0DC3.-....**	**952.–**		
0.75	**IE3**	**90 S**	**1MB1523-0EC0.-....**	**1080.–**		
1.1	**IE3**	**90 L**	**1MB1523-0EC4.-....**	**1230.–**		
1.5	**IE3**	**100 L**	**1MB1523-1AC4.-....**	**1280.–**	**1MB1623-1AC4.-....**	**1410.–**
2.2	**IE3**	**112 M**	**1MB1523-1BC2.-....**	**1600.–**	**1MB1623-1BC2.-....**	**1800.–**
3	**IE3**	**132 S**	**1MB1523-1CC0.-....**	**2050.–**	**1MB1623-1CC0.-....**	**2300.–**
4	**IE3**	**132 M**	**1MB1523-1CC2.-....**	**2460.–**	**1MB1623-1CC2.-....**	**2760.–**
5.5	**IE3**	**132 M**	**1MB1523-1CC3.-....**	**3060.–**	**1MB1623-1CC3.-....**	**3430.–**
7.5	**IE3**	**160 M**	**1MB1523-1DC2.-....**	**3900.–**	**1MB1623-1DC2.-....**	**4370.–**
11	**IE3**	**160 L**	**1MB1523-1DC4.-....**	**5290.–**	**1MB1623-1DC4.-....**	**5940.–**
15	**IE3**	**180 L**	**1MB1523-1EC4.-....**	**6660.–**	**1MB1623-1EC4.-....**	**7200.–**
18.5	**IE3**	**200 L**	**1MB1523-2AC4.-....**	**8270.–**	**1MB1623-2AC4.-....**	**8920.–**
22	**IE3**	**200 L**	**1MB1523-2AC5.-....**	**9460.–**	**1MB1623-2AC5.-....**	**10200.–**
30	**IE3**	**225 M**	**1MB1523-2BC2.-....**	**11900.–**	**1MB1623-2BC2.-....**	**13000.–**
37	**IE3**	**250 M**	**1MB1523-2CC2.-....**	**14500.–**	**1MB1623-2CC2.-....**	**15800.–**
45	**IE3**	**280 S**	**1MB1523-2DC0.-....**	**17700.–**	**1MB1623-2DC0.-....**	**18100.–**
55	**IE3**	**280 M**	**1MB1523-2DC2.-....**	**20700.–**	**1MB1623-2DC2.-....**	**21200.–**
75	**IE3**	**315 S**	**1MB1523-3AC0.-....**	**27700.–**	**1MB1623-3AC0.-....**	**28400.–**
90	**IE3**	**315 M**	**1MB1523-3AC2.-....**	**31100.–**	**1MB1623-3AC2.-....**	**31900.–**
110	**IE3**	**315 L**	**1MB1523-3AC4.-....**	**37200.–**	**1MB1623-3AC4.-....**	**38100.–**
132	**IE3**	**315 L**	**1MB1523-3AC5.-....**	**43900.–**	**1MB1623-3AC5.-....**	**45100.–**
160	**IE3**	**315 L**	**1MB1523-3AC6.-....**	**53000.–**	**1MB1623-3AC6.-....**	**54400.–**

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Overview

Category	**Motors for zone 22 in type of protection Ex tc**
Efficiency	**IE2 High Efficiency**
Series version	**Cast-iron series 1MB1521, 1MB1621 Basic/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.09 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	9.9 ... 1703 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
0.37	**IE2**	**71 M**	**1MB1521-0CA2.-....**	**590.–**		
0.55	**IE2**	**71 M**	**1MB1521-0CA3.-....**	**679.–**		
0.75	**IE2**	**80 M**	**1MB1521-0DA2.-....**	**708.–**		
1.1	**IE2**	**80 M**	**1MB1521-0DA3.-....**	**797.–**		
1.5	**IE2**	**90 S**	**1MB1521-0EA0.-....**	**925.–**		
2.2	**IE2**	**90 L**	**1MB1521-0EA4.-....**	**1110.–**		
3	**IE2**	**100 L**	**1MB1521-1AA4.-....**	**1260.–**	**1MB1621-1AA4.-....**	**1360.–**
4	**IE2**	**112 M**	**1MB1521-1BA2.-....**	**1490.–**	**1MB1621-1BA2.-....**	**1620.–**
5.5	**IE2**	**132 S**	**1MB1521-1CA0.-....**	**1900.–**	**1MB1621-1CA0.-....**	**2080.–**
7.5	**IE2**	**132 S**	**1MB1521-1CA1.-....**	**2360.–**	**1MB1621-1CA1.-....**	**2580.–**
11	**IE2**	**160 M**	**1MB1521-1DA2.-....**	**3280.–**	**1MB1621-1DA2.-....**	**3740.–**
15	**IE2**	**160 M**	**1MB1521-1DA3.-....**	**4190.–**	**1MB1621-1DA3.-....**	**4780.–**
18.5	**IE2**	**160 L**	**1MB1521-1DA4.-....**	**4940.–**	**1MB1621-1DA4.-....**	**5640.–**
22	**IE2**	**180 M**	**1MB1521-1EA2.-....**	**5710.–**	**1MB1621-1EA2.-....**	**6230.–**
30	**IE2**	**200 L**	**1MB1521-2AA4.-....**	**7490.–**	**1MB1621-2AA4.-....**	**8150.–**
37	**IE2**	**200 L**	**1MB1521-2AA5.-....**	**9200.–**	**1MB1621-2AA5.-....**	**10100.–**
45	**IE2**	**225 M**	**1MB1521-2BA2.-....**	**10700.–**	**1MB1621-2BA2.-....**	**11600.–**
55	**IE2**	**250 M**	**1MB1521-2CA2.-....**	**12700.–**	**1MB1621-2CA2.-....**	**13800.–**
75	**IE2**	**280 S**	**1MB1521-2DA0.-....**	**17100.–**	**1MB1621-2DA0.-....**	**17600.–**
90	**IE2**	**280 M**	**1MB1521-2DA2.-....**	**20000.–**	**1MB1621-2DA2.-....**	**21000.–**
110	**IE2**	**315 S**	**1MB1521-3AA0.-....**	**23900.–**	**1MB1621-3AA0.-....**	**25000.–**
132	**IE2**	**315 M**	**1MB1521-3AA2.-....**	**28400.–**	**1MB1621-3AA2.-....**	**29700.–**
160	**IE2**	**315 L**	**1MB1521-3AA4.-....**	**34900.–**	**1MB1621-3AA4.-....**	**36700.–**
200	**IE2**	**315 L**	**1MB1521-3AA5.-....**	**43300.–**	**1MB1621-3AA5.-....**	**45300.–**
4-pole: 1500 rpm at 50 Hz						
0.25	**IE2**	**71 M**	**1MB1521-0CB2.-....**	**587.–**		
0.37	**IE2**	**71 M**	**1MB1521-0CB3.-....**	**648.–**		
0.55	**IE2**	**80 M**	**1MB1521-0DB2.-....**	**703.–**		
0.75	**IE2**	**80 M**	**1MB1521-0DB3.-....**	**760.–**		
1.1	**IE2**	**90 S**	**1MB1521-0EB0.-....**	**900.–**		
1.5	**IE2**	**90 L**	**1MB1521-0EB4.-....**	**1000.–**		
2.2	**IE2**	**100 L**	**1MB1521-1AB4.-....**	**1150.–**	**1MB1621-1AB4.-....**	**1260.–**
3	**IE2**	**100 L**	**1MB1521-1AB5.-....**	**1310.–**	**1MB1621-1AB5.-....**	**1430.–**
4	**IE2**	**112 M**	**1MB1521-1BB2.-....**	**1600.–**	**1MB1621-1BB2.-....**	**1760.–**
5.5	**IE2**	**132 S**	**1MB1521-1CB0.-....**	**2030.–**	**1MB1621-1CB0.-....**	**2210.–**
7.5	**IE2**	**132 M**	**1MB1521-1CB2.-....**	**2520.–**	**1MB1621-1CB2.-....**	**2760.–**
11	**IE2**	**160 M**	**1MB1521-1DB2.-....**	**3370.–**	**1MB1621-1DB2.-....**	**3800.–**
15	**IE2**	**160 L**	**1MB1521-1DB4.-....**	**4250.–**	**1MB1621-1DB4.-....**	**4850.–**
18.5	**IE2**	**180 M**	**1MB1521-1EB2.-....**	**4910.–**	**1MB1621-1EB2.-....**	**5360.–**
22	**IE2**	**180 L**	**1MB1521-1EB4.-....**	**5630.–**	**1MB1621-1EB4.-....**	**6140.–**
30	**IE2**	**200 L**	**1MB1521-2AB5.-....**	**7390.–**	**1MB1621-2AB5.-....**	**8040.–**
37	**IE2**	**225 S**	**1MB1521-2BB0.-....**	**8710.–**	**1MB1621-2BB0.-....**	**9490.–**
45	**IE2**	**225 M**	**1MB1521-2BB2.-....**	**10100.–**	**1MB1621-2BB2.-....**	**11000.–**
55	**IE2**	**250 M**	**1MB1521-2CB2.-....**	**12300.–**	**1MB1621-2CB2.-....**	**13300.–**
75	**IE2**	**280 S**	**1MB1521-2DB0.-....**	**16300.–**	**1MB1621-2DB0.-....**	**16700.–**
90	**IE2**	**280 M**	**1MB1521-2DB2.-....**	**18800.–**	**1MB1621-2DB2.-....**	**19400.–**
110	**IE2**	**315 S**	**1MB1521-3AB0.-....**	**23400.–**	**1MB1621-3AB0.-....**	**24000.–**
132	**IE2**	**315 M**	**1MB1521-3AB2.-....**	**27400.–**	**1MB1621-3AB2.-....**	**28200.–**
160	**IE2**	**315 L**	**1MB1521-3AB4.-....**	**32800.–**	**1MB1621-3AB4.-....**	**33800.–**
200	**IE2**	**315 L**	**1MB1521-3AB5.-....**	**40600.–**	**1MB1621-3AB5.-....**	**41800.–**

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Orientation

Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 22 in type of protection Ex tc**
Efficiency	**IE2 High Efficiency**
Series version	**Cast-iron series 1MB1521, 1MB1621 Basic/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.09 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	9.9 ... 1703 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz						
0.18	**IE2**	**71 M**	**1MB1521-0CC2.-....**	**570.–**		
0.25	**IE2**	**71 M**	**1MB1521-0CC3.-....**	**664.–**		
0.37	**IE2**	**80 M**	**1MB1521-0DC2.-....**	**684.–**		
0.55	**IE2**	**80 M**	**1MB1521-0DC3.-....**	**779.–**		
0.75	**IE2**	**90 S**	**1MB1521-0EC0.-....**	**885.–**		
1.1	**IE2**	**90 L**	**1MB1521-0EC4.-....**	**1010.–**		
1.5	**IE2**	**100 L**	**1MB1521-1AC4.-....**	**1140.–**	**1MB1621-1AC4.-....**	**1250.–**
2.2	**IE2**	**112 M**	**1MB1521-1BC2.-....**	**1430.–**	**1MB1621-1BC2.-....**	**1570.–**
3	**IE2**	**132 S**	**1MB1521-1CC0.-....**	**1840.–**	**1MB1621-1CC0.-....**	**1990.–**
4	**IE2**	**132 M**	**1MB1521-1CC2.-....**	**2210.–**	**1MB1621-1CC2.-....**	**2420.–**
5.5	**IE2**	**132 M**	**1MB1521-1CC3.-....**	**2740.–**	**1MB1621-1CC3.-....**	**2980.–**
7.5	**IE2**	**160 M**	**1MB1521-1DC2.-....**	**3500.–**	**1MB1621-1DC2.-....**	**4000.–**
11	**IE2**	**160 L**	**1MB1521-1DC4.-....**	**4740.–**	**1MB1621-1DC4.-....**	**5400.–**
15	**IE2**	**180 L**	**1MB1521-1EC4.-....**	**5970.–**	**1MB1621-1EC4.-....**	**6520.–**
18.5	**IE2**	**200 L**	**1MB1521-2AC4.-....**	**7430.–**	**1MB1621-2AC4.-....**	**8110.–**
22	**IE2**	**200 L**	**1MB1521-2AC5.-....**	**8500.–**	**1MB1621-2AC5.-....**	**9260.–**
30	**IE2**	**225 M**	**1MB1521-2BC2.-....**	**10900.–**	**1MB1621-2BC2.-....**	**11900.–**
37	**IE2**	**250 M**	**1MB1521-2CC2.-....**	**13300.–**	**1MB1621-2CC2.-....**	**14400.–**
45	**IE2**	**280 S**	**1MB1521-2DC0.-....**	**16200.–**	**1MB1621-2DC0.-....**	**16600.–**
55	**IE2**	**280 M**	**1MB1521-2DC2.-....**	**18800.–**	**1MB1621-2DC2.-....**	**19400.–**
75	**IE2**	**315 S**	**1MB1521-3AC0.-....**	**25200.–**	**1MB1621-3AC0.-....**	**26100.–**
90	**IE2**	**315 M**	**1MB1521-3AC2.-....**	**28400.–**	**1MB1621-3AC2.-....**	**29100.–**
110	**IE2**	**315 L**	**1MB1521-3AC4.-....**	**33900.–**	**1MB1621-3AC4.-....**	**34800.–**
132	**IE2**	**315 L**	**1MB1521-3AC5.-....**	**40100.–**	**1MB1621-3AC5.-....**	**41200.–**
160	**IE2**	**315 L**	**1MB1521-3AC6.-....**	**48300.–**	**1MB1621-3AC6.-....**	**49700.–**
8-pole: 750 rpm at 50 Hz						
0.09	**–**	**71 M**	**1MB1521-0CD2.-....**	**651.–**		
0.12	**IE2**	**71 M**	**1MB1521-0CD3.-....**	**718.–**		
0.18	**IE2**	**80 M**	**1MB1521-0DD2.-....**	**761.–**		
0.25	**IE2**	**80 M**	**1MB1521-0DD3.-....**	**917.–**		
0.37	**IE2**	**90 S**	**1MB1521-0ED0.-....**	**1080.–**		
0.55	**IE2**	**90 L**	**1MB1521-0ED4.-....**	**1230.–**		
0.75	**IE2**	**100 L**	**1MB1521-1AD4.-....**	**1270.–**	**1MB1621-1AD4.-....**	**1380.–**
1.1	**IE2**	**100 L**	**1MB1521-1AD5.-....**	**1570.–**	**1MB1621-1AD5.-....**	**1700.–**
1.5	**IE2**	**112 M**	**1MB1521-1BD2.-....**	**1850.–**	**1MB1621-1BD2.-....**	**2040.–**
2.2	**IE2**	**132 S**	**1MB1521-1CD0.-....**	**2430.–**	**1MB1621-1CD0.-....**	**2670.–**
3	**IE2**	**132 M**	**1MB1521-1CD2.-....**	**2930.–**	**1MB1621-1CD2.-....**	**3210.–**
4	**IE2**	**160 M**	**1MB1521-1DD2.-....**	**3640.–**	**1MB1621-1DD2.-....**	**4130.–**
5.5	**IE2**	**160 M**	**1MB1521-1DD3.-....**	**4400.–**	**1MB1621-1DD3.-....**	**5020.–**
7.5	**IE2**	**160 L**	**1MB1521-1DD4.-....**	**5260.–**	**1MB1621-1DD4.-....**	**5990.–**
11	**–**	**180 L**	**1MB1521-1ED4.-....**	**6340.–**	**1MB1621-1ED4.-....**	**6930.–**
15	**–**	**200 L**	**1MB1521-2AD5.-....**	**8460.–**	**1MB1621-2AD5.-....**	**9230.–**
18.5	**–**	**225 S**	**1MB1521-2BD0.-....**	**9950.–**	**1MB1621-2BD0.-....**	**10800.–**
22	**–**	**225 M**	**1MB1521-2BD2.-....**	**11200.–**	**1MB1621-2BD2.-....**	**12400.–**
30	**–**	**250 M**	**1MB1521-2CD2.-....**	**14400.–**	**1MB1621-2CD2.-....**	**15900.–**
37	**–**	**280 S**	**1MB1521-2DD0.-....**	**17200.–**	**1MB1621-2DD0.-....**	**17800.–**
45	**–**	**280 M**	**1MB1521-2DD2.-....**	**20800.–**	**1MB1621-2DD2.-....**	**21400.–**
55	**–**	**315 S**	**1MB1521-3AD0.-....**	**24500.–**	**1MB1621-3AD0.-....**	**25200.–**
75	**–**	**315 M**	**1MB1521-3AD2.-....**	**32300.–**	**1MB1621-3AD2.-....**	**33300.–**
90	**–**	**315 L**	**1MB1521-3AD4.-....**	**35800.–**	**1MB1621-3AD4.-....**	**37000.–**
110	**–**	**315 L**	**1MB1521-3AD5.-....**	**43000.–**	**1MB1621-3AD5.-....**	**44300.–**
132	**–**	**315 L**	**1MB1521-3AD6.-....**	**51100.–**	**1MB1621-3AD6.-....**	**52600.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 2 in type of protection Ex ec**
Efficiency	**IE3 Premium Efficiency**
Series version	**Cast-iron series 1MB1533, 1MB1633 Basic/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.18 ... 200 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	10 ... 1542 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
0.37	**IE3**	**71 M**	**1MB1533-0CA2.-....**	**762.–**		
0.55	**IE3**	**71 M**	**1MB1533-0CA3.-....**	**876.–**		
0.75	**IE3**	**80 M**	**1MB1533-0DA2.-....**	**917.–**		
1.1	**IE3**	**80 M**	**1MB1533-0DA3.-....**	**1030.–**		
1.5	**IE3**	**90 S**	**1MB1533-0EA0.-....**	**1170.–**		
2.2	**IE3**	**90 L**	**1MB1533-0EA4.-....**	**1400.–**		
3	**IE3**	**100 L**	**1MB1533-1AA4.-....**	**1460.–**	**1MB1633-1AA4.-....**	**1630.–**
4	**IE3**	**112 M**	**1MB1533-1BA2.-....**	**1730.–**	**1MB1633-1BA2.-....**	**1940.–**
5.5	**IE3**	**132 S**	**1MB1533-1CA0.-....**	**2170.–**	**1MB1633-1CA0.-....**	**2430.–**
7.5	**IE3**	**132 S**	**1MB1533-1CA1.-....**	**2710.–**	**1MB1633-1CA1.-....**	**3020.–**
11	**IE3**	**160 M**	**1MB1533-1DA2.-....**	**3720.–**	**1MB1633-1DA2.-....**	**4160.–**
15	**IE3**	**160 M**	**1MB1533-1DA3.-....**	**4750.–**	**1MB1633-1DA3.-....**	**5310.–**
18.5	**IE3**	**160 L**	**1MB1533-1DA4.-....**	**5590.–**	**1MB1633-1DA4.-....**	**6260.–**
22	**IE3**	**180 M**	**1MB1533-1EA2.-....**	**6330.–**	**1MB1633-1EA2.-....**	**6850.–**
30	**IE3**	**200 L**	**1MB1533-2AA4.-....**	**8230.–**	**1MB1633-2AA4.-....**	**8890.–**
37	**IE3**	**200 L**	**1MB1533-2AA5.-....**	**10200.–**	**1MB1633-2AA5.-....**	**10900.–**
45	**IE3**	**225 M**	**1MB1533-2BA2.-....**	**11400.–**	**1MB1633-2BA2.-....**	**12500.–**
55	**IE3**	**250 M**	**1MB1533-2CA2.-....**	**13700.–**	**1MB1633-2CA2.-....**	**14800.–**
75	**IE3**	**280 S**	**1MB1533-2DA0.-....**	**18500.–**	**1MB1633-2DA0.-....**	**19000.–**
90	**IE3**	**280 M**	**1MB1533-2DA2.-....**	**21700.–**	**1MB1633-2DA2.-....**	**22600.–**
110	**IE3**	**315 S**	**1MB1533-3AA0.-....**	**26100.–**	**1MB1633-3AA0.-....**	**27200.–**
132	**IE3**	**315 M**	**1MB1533-3AA2.-....**	**30900.–**	**1MB1633-3AA2.-....**	**32300.–**
160	**IE3**	**315 L**	**1MB1533-3AA4.-....**	**38100.–**	**1MB1633-3AA4.-....**	**39900.–**
200	**IE3**	**315 L**	**1MB1533-3AA5.-....**	**47300.–**	**1MB1633-3AA5.-....**	**49400.–**
4-pole: 1500 rpm at 50 Hz						
0.25	**IE3**	**71 M**	**1MB1533-0CB2.-....**	**757.–**		
0.37	**IE3**	**71 M**	**1MB1533-0CB3.-....**	**833.–**		
0.55	**IE3**	**80 M**	**1MB1533-0DB2.-....**	**911.–**		
0.75	**IE3**	**80 M**	**1MB1533-0DB3.-....**	**981.–**		
1.1	**IE3**	**90 S**	**1MB1533-0EB0.-....**	**1150.–**		
1.5	**IE3**	**90 L**	**1MB1533-0EB4.-....**	**1290.–**		
2.2	**IE3**	**100 L**	**1MB1533-1AB4.-....**	**1350.–**	**1MB1633-1AB4.-....**	**1500.–**
3	**IE3**	**100 L**	**1MB1533-1AB5.-....**	**1530.–**	**1MB1633-1AB5.-....**	**1700.–**
4	**IE3**	**112 M**	**1MB1533-1BB2.-....**	**1860.–**	**1MB1633-1BB2.-....**	**2080.–**
5.5	**IE3**	**132 S**	**1MB1533-1CB0.-....**	**2330.–**	**1MB1633-1CB0.-....**	**2610.–**
7.5	**IE3**	**132 M**	**1MB1533-1CB2.-....**	**2890.–**	**1MB1633-1CB2.-....**	**3230.–**
11	**IE3**	**160 M**	**1MB1533-1DB2.-....**	**3800.–**	**1MB1633-1DB2.-....**	**4240.–**
15	**IE3**	**160 L**	**1MB1533-1DB4.-....**	**4810.–**	**1MB1633-1DB4.-....**	**5400.–**
18.5	**IE3**	**180 M**	**1MB1533-1EB2.-....**	**5450.–**	**1MB1633-1EB2.-....**	**5890.–**
22	**IE3**	**180 L**	**1MB1533-1EB4.-....**	**6250.–**	**1MB1633-1EB4.-....**	**6760.–**
30	**IE3**	**200 L**	**1MB1533-2AB5.-....**	**8120.–**	**1MB1633-2AB5.-....**	**8780.–**
37	**IE3**	**225 S**	**1MB1533-2BB0.-....**	**9330.–**	**1MB1633-2BB0.-....**	**10100.–**
45	**IE3**	**225 M**	**1MB1533-2BB2.-....**	**10800.–**	**1MB1633-2BB2.-....**	**11700.–**
55	**IE3**	**250 M**	**1MB1533-2CB2.-....**	**13200.–**	**1MB1633-2CB2.-....**	**14300.–**
75	**IE3**	**280 S**	**1MB1533-2DB0.-....**	**17600.–**	**1MB1633-2DB0.-....**	**18000.–**
90	**IE3**	**280 M**	**1MB1533-2DB2.-....**	**20500.–**	**1MB1633-2DB2.-....**	**21000.–**
110	**IE3**	**315 S**	**1MB1533-3AB0.-....**	**25300.–**	**1MB1633-3AB0.-....**	**26100.–**
132	**IE3**	**315 M**	**1MB1533-3AB2.-....**	**29900.–**	**1MB1633-3AB2.-....**	**30700.–**
160	**IE3**	**315 L**	**1MB1533-3AB4.-....**	**35800.–**	**1MB1633-3AB4.-....**	**36900.–**
200	**IE3**	**315 L**	**1MB1533-3AB5.-....**	**44400.–**	**1MB1633-3AB5.-....**	**45500.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 2 in type of protection Ex ec**
Efficiency	**IE3 Premium Efficiency**
Series version	**Cast-iron series 1MB1533, 1MB1633 Basic/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.18 ... 200 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	10 ... 1542 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz						
0.18	**IE3**	**71 M**	**1MB1533-0CC2.-....**	**739.–**		
0.25	**IE3**	**71 M**	**1MB1533-0CC3.-....**	**853.–**		
0.37	**IE3**	**80 M**	**1MB1533-0DC2.-....**	**887.–**		
0.55	**IE3**	**80 M**	**1MB1533-0DC3.-....**	**1000.–**		
0.75	**IE3**	**90 S**	**1MB1533-0EC0.-....**	**1130.–**		
1.1	**IE3**	**90 L**	**1MB1533-0EC4.-....**	**1280.–**		
1.5	**IE3**	**100 L**	**1MB1533-1AC4.-....**	**1330.–**	**1MB1633-1AC4.-....**	**1490.–**
2.2	**IE3**	**112 M**	**1MB1533-1BC2.-....**	**1670.–**	**1MB1633-1BC2.-....**	**1870.–**
3	**IE3**	**132 S**	**1MB1533-1CC0.-....**	**2120.–**	**1MB1633-1CC0.-....**	**2360.–**
4	**IE3**	**132 M**	**1MB1533-1CC2.-....**	**2530.–**	**1MB1633-1CC2.-....**	**2830.–**
5.5	**IE3**	**132 M**	**1MB1533-1CC3.-....**	**3130.–**	**1MB1633-1CC3.-....**	**3490.–**
7.5	**IE3**	**160 M**	**1MB1533-1DC2.-....**	**3980.–**	**1MB1633-1DC2.-....**	**4440.–**
11	**IE3**	**160 L**	**1MB1533-1DC4.-....**	**5360.–**	**1MB1633-1DC4.-....**	**6000.–**
15	**IE3**	**180 L**	**1MB1533-1EC4.-....**	**6650.–**	**1MB1633-1EC4.-....**	**7190.–**
18.5	**IE3**	**200 L**	**1MB1533-2AC4.-....**	**8180.–**	**1MB1633-2AC4.-....**	**8830.–**
22	**IE3**	**200 L**	**1MB1533-2AC5.-....**	**9360.–**	**1MB1633-2AC5.-....**	**10100.–**
30	**IE3**	**225 M**	**1MB1533-2BC2.-....**	**11700.–**	**1MB1633-2BC2.-....**	**12800.–**
37	**IE3**	**250 M**	**1MB1533-2CC2.-....**	**14300.–**	**1MB1633-2CC2.-....**	**15600.–**
45	**IE3**	**280 S**	**1MB1533-2DC0.-....**	**17500.–**	**1MB1633-2DC0.-....**	**17900.–**
55	**IE3**	**280 M**	**1MB1533-2DC2.-....**	**20500.–**	**1MB1633-2DC2.-....**	**21000.–**
75	**IE3**	**315 S**	**1MB1533-3AC0.-....**	**27600.–**	**1MB1633-3AC0.-....**	**28300.–**
90	**IE3**	**315 M**	**1MB1533-3AC2.-....**	**30900.–**	**1MB1633-3AC2.-....**	**31800.–**
110	**IE3**	**315 L**	**1MB1533-3AC4.-....**	**37100.–**	**1MB1633-3AC4.-....**	**38000.–**
132	**IE3**	**315 L**	**1MB1533-3AC5.-....**	**43800.–**	**1MB1633-3AC5.-....**	**45000.–**
160	**IE3**	**315 L**	**1MB1533-3AC6.-....**	**52900.–**	**1MB1633-3AC6.-....**	**54300.–**

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Category	**Motors for zone 2 in type of protection Ex ec**
Efficiency	**IE2 High Efficiency**
Series version	**Cast-iron series 1MB1531, 1MB1631 Basic/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.09 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	9.9 ... 1703 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz						
0.37	**IE2**	**71 M**	**1MB1531-0CA2.-....**	**631.–**		
0.55	**IE2**	**71 M**	**1MB1531-0CA3.-....**	**721.–**		
0.75	**IE2**	**80 M**	**1MB1531-0DA2.-....**	**759.–**		
1.1	**IE2**	**80 M**	**1MB1531-0DA3.-....**	**849.–**		
1.5	**IE2**	**90 S**	**1MB1531-0EA0.-....**	**973.–**		
2.2	**IE2**	**90 L**	**1MB1531-0EA4.-....**	**1150.–**		
3	**IE2**	**100 L**	**1MB1531-1AA4.-....**	**1320.–**	**1MB1631-1AA4.-....**	**1430.–**
4	**IE2**	**112 M**	**1MB1531-1BA2.-....**	**1570.–**	**1MB1631-1BA2.-....**	**1690.–**
5.5	**IE2**	**132 S**	**1MB1531-1CA0.-....**	**1970.–**	**1MB1631-1CA0.-....**	**2150.–**
7.5	**IE2**	**132 S**	**1MB1531-1CA1.-....**	**2440.–**	**1MB1631-1CA1.-....**	**2650.–**
11	**IE2**	**160 M**	**1MB1531-1DA2.-....**	**3360.–**	**1MB1631-1DA2.-....**	**3800.–**
15	**IE2**	**160 M**	**1MB1531-1DA3.-....**	**4250.–**	**1MB1631-1DA3.-....**	**4840.–**
18.5	**IE2**	**160 L**	**1MB1531-1DA4.-....**	**5020.–**	**1MB1631-1DA4.-....**	**5710.–**
22	**IE2**	**180 M**	**1MB1531-1EA2.-....**	**5700.–**	**1MB1631-1EA2.-....**	**6220.–**
30	**IE2**	**200 L**	**1MB1531-2AA4.-....**	**7390.–**	**1MB1631-2AA4.-....**	**8040.–**
37	**IE2**	**200 L**	**1MB1531-2AA5.-....**	**9110.–**	**1MB1631-2AA5.-....**	**9950.–**
45	**IE2**	**225 M**	**1MB1531-2BA2.-....**	**10500.–**	**1MB1631-2BA2.-....**	**11400.–**
55	**IE2**	**250 M**	**1MB1531-2CA2.-....**	**12500.–**	**1MB1631-2CA2.-....**	**13600.–**
75	**IE2**	**280 S**	**1MB1531-2DA0.-....**	**16900.–**	**1MB1631-2DA0.-....**	**17300.–**
90	**IE2**	**280 M**	**1MB1531-2DA2.-....**	**19800.–**	**1MB1631-2DA2.-....**	**20800.–**
110	**IE2**	**315 S**	**1MB1531-3AA0.-....**	**23800.–**	**1MB1631-3AA0.-....**	**24900.–**
132	**IE2**	**315 M**	**1MB1531-3AA2.-....**	**28300.–**	**1MB1631-3AA2.-....**	**29600.–**
160	**IE2**	**315 L**	**1MB1531-3AA4.-....**	**34800.–**	**1MB1631-3AA4.-....**	**36600.–**
200	**IE2**	**315 L**	**1MB1531-3AA5.-....**	**43200.–**	**1MB1631-3AA5.-....**	**45200.–**
4-pole: 1500 rpm at 50 Hz						
0.25	**IE2**	**71 M**	**1MB1531-0CB2.-....**	**627.–**		
0.37	**IE2**	**71 M**	**1MB1531-0CB3.-....**	**690.–**		
0.55	**IE2**	**80 M**	**1MB1531-0DB2.-....**	**755.–**		
0.75	**IE2**	**80 M**	**1MB1531-0DB3.-....**	**812.–**		
1.1	**IE2**	**90 S**	**1MB1531-0EB0.-....**	**949.–**		
1.5	**IE2**	**90 L**	**1MB1531-0EB4.-....**	**1050.–**		
2.2	**IE2**	**100 L**	**1MB1531-1AB4.-....**	**1230.–**	**1MB1631-1AB4.-....**	**1320.–**
3	**IE2**	**100 L**	**1MB1531-1AB5.-....**	**1370.–**	**1MB1631-1AB5.-....**	**1500.–**
4	**IE2**	**112 M**	**1MB1531-1BB2.-....**	**1670.–**	**1MB1631-1BB2.-....**	**1830.–**
5.5	**IE2**	**132 S**	**1MB1531-1CB0.-....**	**2110.–**	**1MB1631-1CB0.-....**	**2300.–**
7.5	**IE2**	**132 M**	**1MB1531-1CB2.-....**	**2610.–**	**1MB1631-1CB2.-....**	**2840.–**
11	**IE2**	**160 M**	**1MB1531-1DB2.-....**	**3430.–**	**1MB1631-1DB2.-....**	**3860.–**
15	**IE2**	**160 L**	**1MB1531-1DB4.-....**	**4330.–**	**1MB1631-1DB4.-....**	**4920.–**
18.5	**IE2**	**180 M**	**1MB1531-1EB2.-....**	**4890.–**	**1MB1631-1EB2.-....**	**5350.–**
22	**IE2**	**180 L**	**1MB1531-1EB4.-....**	**5620.–**	**1MB1631-1EB4.-....**	**6130.–**
30	**IE2**	**200 L**	**1MB1531-2AB5.-....**	**7280.–**	**1MB1631-2AB5.-....**	**7950.–**
37	**IE2**	**225 S**	**1MB1531-2BB0.-....**	**8550.–**	**1MB1631-2BB0.-....**	**9330.–**
45	**IE2**	**225 M**	**1MB1531-2BB2.-....**	**9930.–**	**1MB1631-2BB2.-....**	**10800.–**
55	**IE2**	**250 M**	**1MB1531-2CB2.-....**	**11900.–**	**1MB1631-2CB2.-....**	**13100.–**
75	**IE2**	**280 S**	**1MB1531-2DB0.-....**	**16100.–**	**1MB1631-2DB0.-....**	**16500.–**
90	**IE2**	**280 M**	**1MB1531-2DB2.-....**	**18600.–**	**1MB1631-2DB2.-....**	**19200.–**
110	**IE2**	**315 S**	**1MB1531-3AB0.-....**	**23300.–**	**1MB1631-3AB0.-....**	**23900.–**
132	**IE2**	**315 M**	**1MB1531-3AB2.-....**	**27300.–**	**1MB1631-3AB2.-....**	**28000.–**
160	**IE2**	**315 L**	**1MB1531-3AB4.-....**	**32700.–**	**1MB1631-3AB4.-....**	**33700.–**
200	**IE2**	**315 L**	**1MB1531-3AB5.-....**	**40500.–**	**1MB1631-3AB5.-....**	**41700.–**

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Orientation

Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 2 in type of protection Ex ec**
Efficiency	**IE2 High Efficiency**
Series version	**Cast-iron series 1MB1531, 1MB1631 Basic/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.09 ... 200 kW
Synchronous speed at 50 Hz	750 ... 3000 rpm
Rated torque at 50 Hz	9.9 ... 1703 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz						
0.18	**IE2**	**71 M**	**1MB1531-0CC2.-....**	**611.–**		
0.25	**IE2**	**71 M**	**1MB1531-0CC3.-....**	**705.–**		
0.37	**IE2**	**80 M**	**1MB1531-0DC2.-....**	**733.–**		
0.55	**IE2**	**80 M**	**1MB1531-0DC3.-....**	**829.–**		
0.75	**IE2**	**90 S**	**1MB1531-0EC0.-....**	**933.–**		
1.1	**IE2**	**90 L**	**1MB1531-0EC4.-....**	**1060.–**		
1.5	**IE2**	**100 L**	**1MB1531-1AC4.-....**	**1220.–**	**1MB1631-1AC4.-....**	**1310.–**
2.2	**IE2**	**112 M**	**1MB1531-1BC2.-....**	**1510.–**	**1MB1631-1BC2.-....**	**1640.–**
3	**IE2**	**132 S**	**1MB1531-1CC0.-....**	**1920.–**	**1MB1631-1CC0.-....**	**2080.–**
4	**IE2**	**132 M**	**1MB1531-1CC2.-....**	**2300.–**	**1MB1631-1CC2.-....**	**2490.–**
5.5	**IE2**	**132 M**	**1MB1531-1CC3.-....**	**2820.–**	**1MB1631-1CC3.-....**	**3060.–**
7.5	**IE2**	**160 M**	**1MB1531-1DC2.-....**	**3560.–**	**1MB1631-1DC2.-....**	**4060.–**
11	**IE2**	**160 L**	**1MB1531-1DC4.-....**	**4800.–**	**1MB1631-1DC4.-....**	**5460.–**
15	**IE2**	**180 L**	**1MB1531-1EC4.-....**	**5960.–**	**1MB1631-1EC4.-....**	**6510.–**
18.5	**IE2**	**200 L**	**1MB1531-2AC4.-....**	**7320.–**	**1MB1631-2AC4.-....**	**8000.–**
22	**IE2**	**200 L**	**1MB1531-2AC5.-....**	**8380.–**	**1MB1631-2AC5.-....**	**9160.–**
30	**IE2**	**225 M**	**1MB1531-2BC2.-....**	**10800.–**	**1MB1631-2BC2.-....**	**11700.–**
37	**IE2**	**250 M**	**1MB1531-2CC2.-....**	**13100.–**	**1MB1631-2CC2.-....**	**14200.–**
45	**IE2**	**280 S**	**1MB1531-2DC0.-....**	**16000.–**	**1MB1631-2DC0.-....**	**16400.–**
55	**IE2**	**280 M**	**1MB1531-2DC2.-....**	**18600.–**	**1MB1631-2DC2.-....**	**19200.–**
75	**IE2**	**315 S**	**1MB1531-3AC0.-....**	**25100.–**	**1MB1631-3AC0.-....**	**26000.–**
90	**IE2**	**315 M**	**1MB1531-3AC2.-....**	**28300.–**	**1MB1631-3AC2.-....**	**29000.–**
110	**IE2**	**315 L**	**1MB1531-3AC4.-....**	**33800.–**	**1MB1631-3AC4.-....**	**34700.–**
132	**IE2**	**315 L**	**1MB1531-3AC5.-....**	**40000.–**	**1MB1631-3AC5.-....**	**41100.–**
160	**IE2**	**315 L**	**1MB1531-3AC6.-....**	**48200.–**	**1MB1631-3AC6.-....**	**49600.–**
8-pole: 750 rpm at 50 Hz						
0.09	**–**	**71 M**	**1MB1531-0CD2.-....**	**692.–**		
0.12	**IE2**	**71 M**	**1MB1531-0CD3.-....**	**758.–**		
0.18	**IE2**	**80 M**	**1MB1531-0DD2.-....**	**813.–**		
0.25	**IE2**	**80 M**	**1MB1531-0DD3.-....**	**968.–**		
0.37	**IE2**	**90 S**	**1MB1531-0ED0.-....**	**1130.–**		
0.55	**IE2**	**90 L**	**1MB1531-0ED4.-....**	**1280.–**		
0.75	**IE2**	**100 L**	**1MB1531-1AD4.-....**	**1330.–**	**1MB1631-1AD4.-....**	**1450.–**
1.1	**IE2**	**100 L**	**1MB1531-1AD5.-....**	**1630.–**	**1MB1631-1AD5.-....**	**1780.–**
1.5	**IE2**	**112 M**	**1MB1531-1BD2.-....**	**1940.–**	**1MB1631-1BD2.-....**	**2120.–**
2.2	**IE2**	**132 S**	**1MB1531-1CD0.-....**	**2500.–**	**1MB1631-1CD0.-....**	**2740.–**
3	**IE2**	**132 M**	**1MB1531-1CD2.-....**	**2990.–**	**1MB1631-1CD2.-....**	**3280.–**
4	**IE2**	**160 M**	**1MB1531-1DD2.-....**	**3710.–**	**1MB1631-1DD2.-....**	**4200.–**
5.5	**IE2**	**160 M**	**1MB1531-1DD3.-....**	**4470.–**	**1MB1631-1DD3.-....**	**5080.–**
7.5	**IE2**	**160 L**	**1MB1531-1DD4.-....**	**5330.–**	**1MB1631-1DD4.-....**	**6070.–**
11	**–**	**180 L**	**1MB1531-1ED4.-....**	**6330.–**	**1MB1631-1ED4.-....**	**6920.–**
15	**–**	**200 L**	**1MB1531-2AD5.-....**	**8340.–**	**1MB1631-2AD5.-....**	**9130.–**
18.5	**–**	**225 S**	**1MB1531-2BD0.-....**	**9800.–**	**1MB1631-2BD0.-....**	**10700.–**
22	**–**	**225 M**	**1MB1531-2BD2.-....**	**11000.–**	**1MB1631-2BD2.-....**	**12200.–**
30	**–**	**250 M**	**1MB1531-2CD2.-....**	**14200.–**	**1MB1631-2CD2.-....**	**15700.–**
37	**–**	**280 S**	**1MB1531-2DD0.-....**	**17000.–**	**1MB1631-2DD0.-....**	**17600.–**
45	**–**	**280 M**	**1MB1531-2DD2.-....**	**20600.–**	**1MB1631-2DD2.-....**	**21200.–**
55	**–**	**315 S**	**1MB1531-3AD0.-....**	**24300.–**	**1MB1631-3AD0.-....**	**25000.–**
75	**–**	**315 M**	**1MB1531-3AD2.-....**	**32200.–**	**1MB1631-3AD2.-....**	**33200.–**
90	**–**	**315 L**	**1MB1531-3AD4.-....**	**35600.–**	**1MB1631-3AD4.-....**	**36900.–**
110	**–**	**315 L**	**1MB1531-3AD5.-....**	**42800.–**	**1MB1631-3AD5.-....**	**44100.–**
132	**–**	**315 L**	**1MB1531-3AD6.-....**	**50900.–**	**1MB1631-3AD6.-....**	**52400.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in type of protection Ex eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Aluminum series 1MB1042, Cast-iron series 1MB1543/1MB5543/1MB1643/1MB5643 Basic/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.37 ... 165 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	1.3 ... 1300 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	Temperature class	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW			FS		EUR		EUR
2-pole: 3000 rpm at 50 Hz							
Aluminum series 1MB1042							
0,18	**T1, T2, T3**	**IE1**	**63 M**	**1MB1042-0BA2.-....**	**393.–**		
0,25	**T1, T2, T3**	**IE1**	**63 M**	**1MB1042-0BA3.-....**	**407.–**		
Cast-iron series 1MB1543/1MB5543/1MB1643/1MB5643							
0.37	**T1, T2, T3**	**IE3**	**71 M**	**1MB1543-0CA2.-....**	**849.–**		
0.55	**T1, T2, T3**	**IE3**	**71 M**	**1MB1543-0CA3.-....**	**974.–**		
0.75	**T1, T2, T3**	**IE3**	**80 M**	**1MB1543-0DA2.-....**	**1020.–**		
1.1	**T1, T2, T3**	**IE3**	**80 M**	**1MB1543-0DA3.-....**	**1140.–**		
1.3	**T1, T2, T3**	**IE3**	**90 S**	**1MB1543-0EA0.-....**	**1310.–**		
1.85	**T1, T2, T3**	**IE3**	**90 L**	**1MB1543-0EA4.-....**	**1570.–**		
2.5	**T1, T2, T3**	**IE3**	**100 L**	**1MB1543-1AA4.-....**	**1670.–**	**1MB1643-1AA4.-....**	**1840.–**
3.3	**T1, T2, T3**	**IE3**	**112 M**	**1MB1543-1BA2.-....**	**1970.–**	**1MB1643-1BA2.-....**	**2190.–**
4.6	**T1, T2, T3**	**IE3**	**132 S**	**1MB1543-1CA0.-....**	**2470.–**	**1MB1643-1CA0.-....**	**2750.–**
5.5	**T3**	**IE3**	**132 S**	**1MB1543-1CA1.-....**	**3060.–**	**1MB1643-1CA1.-....**	**3390.–**
6.5	**T1, T2**	**IE3**	**132 S**	**1MB1543-1CA1.-....**	**3060.–**	**1MB1643-1CA1.-....**	**3390.–**
7.5	**T3**	**IE3**	**160 M**	**1MB1543-1DA2.-....**	**4230.–**	**1MB1643-1DA2.-....**	**4700.–**
9.5	**T1, T2**	**IE3**	**160 M**	**1MB1543-1DA2.-....**	**4230.–**	**1MB1643-1DA2.-....**	**4700.–**
10	**T3**	**IE3**	**160 M**	**1MB1543-1DA3.-....**	**5400.–**	**1MB1643-1DA3.-....**	**5990.–**
13	**T1, T2**	**IE3**	**160 M**	**1MB1543-1DA3.-....**	**5400.–**	**1MB1643-1DA3.-....**	**5990.–**
12.5	**T3**	**IE3**	**160 L**	**1MB1543-1DA4.-....**	**6340.–**	**1MB1643-1DA4.-....**	**7050.–**
16	**T1, T2**	**IE3**	**160 L**	**1MB1543-1DA4.-....**	**6340.–**	**1MB1643-1DA4.-....**	**7050.–**
15	**T3**	**IE3**	**180 M**	**1MB1543-1EA2.-....**	**7200.–**	**1MB1643-1EA2.-....**	**7740.–**
19	**T1, T2**	**IE3**	**180 M**	**1MB1543-1EA2.-....**	**7200.–**	**1MB1643-1EA2.-....**	**7740.–**
20	**T3**	**IE3**	**200 L**	**1MB1543-2AA4.-....**	**9350.–**	**1MB1643-2AA4.-....**	**10000.–**
25	**T1, T2**	**IE3**	**200 L**	**1MB1543-2AA4.-....**	**9350.–**	**1MB1643-2AA4.-....**	**10000.–**
24	**T3**	**IE3**	**200 L**	**1MB1543-2AA5.-....**	**11600.–**	**1MB1643-2AA5.-....**	**12300.–**
31	**T1, T2**	**IE3**	**200 L**	**1MB1543-2AA5.-....**	**11600.–**	**1MB1643-2AA5.-....**	**12300.–**
28	**T3**	**IE3**	**225 M**	**1MB1543-2BA2.-....**	**13000.–**	**1MB1643-2BA2.-....**	**14100.–**
36	**T3**	**IE3**	**250 M**	**1MB1543-2CA2.-....**	**15600.–**	**1MB1643-2CA2.-....**	**16900.–**
47	**T3**	**IE3**	**280 S**	**1MB1543-2DA0.-....**	**21100.–**	**1MB1643-2DA0.-....**	**21500.–**
58	**T3**	**IE3**	**280 M**	**1MB1543-2DA2.-....**	**24700.–**	**1MB1643-2DA2.-....**	**25700.–**
68	**T3**	**IE3**	**315 S**	**1MB5543-3AA0.-....**	**27800.–**	**1MB5643-3AA0.-....**	**29000.–**
80	**T3**	**IE3**	**315 M**	**1MB5543-3AA2.-....**	**33000.–**	**1MB5643-3AA2.-....**	**34500.–**
100	**T3**	**IE3**	**315 L**	**1MB5543-3AA4.-....**	**40900.–**	**1MB5643-3AA4.-....**	**42700.–**
125	**T3**	**IE3**	**315 L**	**1MB5543-3AA5.-....**	**50600.–**	**1MB5643-3AA5.-....**	**52800.–**

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Orientation

Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in type of protection Ex eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Aluminum series 1MB1042, Cast-iron series 1MB1543/1MB5543/1MB1643/1MB5643 Basic/Performance Line** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.37 ... 165 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	1.3 ... 1300 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	Temperature class	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW			FS		EUR		EUR
4-pole: 1500 rpm at 50 Hz							
Aluminum series 1MB1042							
0,12	**T1, T2, T3**	**IE1**	**63 M**	**1MB1042-0BB2.-....**	**381.–**		
0,18	**T1, T2, T3**	**IE1**	**63 M**	**1MB1042-0BB3.-....**	**404.–**		
Cast-iron series 1MB1543/1MB5543/1MB1643/1MB5643							
0.25	**T1, T2, T3**	**IE3**	**71 M**	**1MB1543-0CB2.-....**	**843.–**		
0.37	**T1, T2, T3**	**IE3**	**71 M**	**1MB1543-0CB3.-....**	**929.–**		
0.55	**T1, T2, T3**	**IE3**	**80 M**	**1MB1543-0DB2.-....**	**1010.–**		
0.75	**T1, T2, T3**	**IE3**	**80 M**	**1MB1543-0DB3.-....**	**1090.–**		
1	**T1, T2, T3**	**IE3**	**90 S**	**1MB1543-0EB0.-....**	**1290.–**		
1.35	**T1, T2, T3**	**IE3**	**90 L**	**1MB1543-0EB4.-....**	**1430.–**		
2	**T1, T2, T3**	**IE3**	**100 L**	**1MB1543-1AB4.-....**	**1530.–**	**1MB1643-1AB4.-....**	**1700.–**
2.5	**T1, T2, T3**	**IE3**	**100 L**	**1MB1543-1AB5.-....**	**1740.–**	**1MB1643-1AB5.-....**	**1910.–**
3.6	**T1, T2, T3**	**IE3**	**112 M**	**1MB1543-1BB2.-....**	**2110.–**	**1MB1643-1BB2.-....**	**2330.–**
5	**T1, T2, T3**	**IE3**	**132 S**	**1MB1543-1CB0.-....**	**2640.–**	**1MB1643-1CB0.-....**	**2940.–**
6.8	**T1, T2, T3**	**IE3**	**132 M**	**1MB1543-1CB2.-....**	**3290.–**	**1MB1643-1CB2.-....**	**3650.–**
10	**T1, T2, T3**	**IE3**	**160 M**	**1MB1543-1DB2.-....**	**4320.–**	**1MB1643-1DB2.-....**	**4790.–**
13.5	**T1, T2, T3**	**IE3**	**160 L**	**1MB1543-1DB4.-....**	**5470.–**	**1MB1643-1DB4.-....**	**6100.–**
15	**T3**	**IE3**	**180 M**	**1MB1543-1EB2.-....**	**6190.–**	**1MB1643-1EB2.-....**	**6660.–**
17	**T1, T2**	**IE3**	**180 M**	**1MB1543-1EB2.-....**	**6190.–**	**1MB1643-1EB2.-....**	**6660.–**
17.5	**T3**	**IE3**	**180 L**	**1MB1543-1EB4.-....**	**7100.–**	**1MB1643-1EB4.-....**	**7630.–**
20	**T1, T2**	**IE3**	**180 L**	**1MB1543-1EB4.-....**	**7100.–**	**1MB1643-1EB4.-....**	**7630.–**
24	**T3**	**IE3**	**200 L**	**1MB1543-2AB5.-....**	**9210.–**	**1MB1643-2AB5.-....**	**9910.–**
27	**T1, T2**	**IE3**	**200 L**	**1MB1543-2AB5.-....**	**9210.–**	**1MB1643-2AB5.-....**	**9910.–**
30	**T3**	**IE3**	**225 S**	**1MB1543-2BB0.-....**	**10600.–**	**1MB1643-2BB0.-....**	**11400.–**
33	**T1, T2**	**IE3**	**225 S**	**1MB1543-2BB0.-....**	**10600.–**	**1MB1643-2BB0.-....**	**11400.–**
36	**T3**	**IE3**	**225 M**	**1MB1543-2BB2.-....**	**12300.–**	**1MB1643-2BB2.-....**	**13300.–**
40	**T1, T2**	**IE3**	**225 M**	**1MB1543-2BB2.-....**	**12300.–**	**1MB1643-2BB2.-....**	**13300.–**
44	**T3**	**IE3**	**250 M**	**1MB1543-2CB2.-....**	**14900.–**	**1MB1643-2CB2.-....**	**16100.–**
50	**T1, T2**	**IE3**	**250 M**	**1MB1543-2CB2.-....**	**14900.–**	**1MB1643-2CB2.-....**	**16100.–**
58	**T3**	**IE3**	**280 S**	**1MB1543-2DB0.-....**	**19900.–**	**1MB1643-2DB0.-....**	**20400.–**
68	**T1, T2**	**IE3**	**280 S**	**1MB1543-2DB0.-....**	**19900.–**	**1MB1643-2DB0.-....**	**20400.–**
70	**T3**	**IE3**	**280 M**	**1MB1543-2DB2.-....**	**23300.–**	**1MB1643-2DB2.-....**	**23900.–**
80	**T1, T2**	**IE3**	**280 M**	**1MB1543-2DB2.-....**	**23300.–**	**1MB1643-2DB2.-....**	**23900.–**
84	**T3**	**IE3**	**315 S**	**1MB5543-3AB0.-....**	**27200.–**	**1MB5643-3AB0.-....**	**27900.–**
100	**T1, T2**	**IE3**	**315 S**	**1MB5543-3AB0.-....**	**27200.–**	**1MB5643-3AB0.-....**	**27900.–**
100	**T3**	**IE3**	**315 M**	**1MB5543-3AB2.-....**	**33200.–**	**1MB5643-3AB2.-....**	**34000.–**
120	**T1, T2**	**IE3**	**315 M**	**1MB5543-3AB2.-....**	**33200.–**	**1MB5643-3AB2.-....**	**34000.–**
115	**T3**	**IE3**	**315 L**	**1MB5543-3AB4.-....**	**38300.–**	**1MB5643-3AB4.-....**	**29400.–**
135	**T1, T2**	**IE3**	**315 L**	**1MB5543-3AB4.-....**	**38300.–**	**1MB5643-3AB4.-....**	**29400.–**
135	**T3**	**IE3**	**315 L**	**1MB5543-3AB5.-....**	**47400.–**	**1MB5643-3AB5.-....**	**48500.–**
165	**T1, T2**	**IE3**	**315 L**	**1MB5543-3AB5.-....**	**47400.–**	**1MB5643-3AB5.-....**	**48500.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in type of protection Ex eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1543/1MB5543/1MB1643/1MB5643 Basic/Performance Line**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 315 L
Rated power at 50 Hz	0.37 ... 165 kW
Synchronous speed at 50 Hz	1000 ... 3000 rpm
Rated torque at 50 Hz	1.3 ... 1300 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	Tempera-ture class	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW			FS		EUR		EUR
6-pole: 1000 rpm at 50 Hz							
0.25	**T1, T2, T3**	**IE3**	**71 M**	**1MB1543-0CC3.-....**	**949.–**		
0.37	**T1, T2, T3**	**IE3**	**80 M**	**1MB1543-0DC2.-....**	**987.–**		
0.55	**T1, T2, T3**	**IE3**	**80 M**	**1MB1543-0DC3.-....**	**1110.–**		
0.65	**T1, T2, T3**	**IE3**	**90 S**	**1MB1543-0EC0.-....**	**1250.–**		
0.95	**T1, T2, T3**	**IE3**	**90 L**	**1MB1543-0EC4.-....**	**1420.–**		
1.3	**T1, T2, T3**	**IE3**	**100 L**	**1MB1543-1AC4.-....**	**1510.–**	**1MB1643-1AC4.-....**	**1690.–**
1.9	**T1, T2, T3**	**IE3**	**112 M**	**1MB1543-1BC2.-....**	**1900.–**	**1MB1643-1BC2.-....**	**2120.–**
2.6	**T1, T2, T3**	**IE3**	**132 S**	**1MB1543-1CC0.-....**	**2410.–**	**1MB1643-1CC0.-....**	**2650.–**
3.5	**T1, T2, T3**	**IE3**	**132 M**	**1MB1543-1CC2.-....**	**2880.–**	**1MB1643-1CC2.-....**	**3200.–**
4.8	**T1, T2, T3**	**IE3**	**132 M**	**1MB1543-1CC3.-....**	**3560.–**	**1MB1643-1CC3.-....**	**3940.–**
6.6	**T1, T2, T3**	**IE3**	**160 M**	**1MB1543-1DC2.-....**	**4510.–**	**1MB1643-1DC2.-....**	**5000.–**
9.7	**T1, T2, T3**	**IE3**	**160 L**	**1MB1543-1DC4.-....**	**6080.–**	**1MB1643-1DC4.-....**	**6770.–**
13.2	**T1, T2, T3**	**IE3**	**180 L**	**1MB1543-1EC4.-....**	**7560.–**	**1MB1643-1EC4.-....**	**8120.–**
16.5	**T1, T2, T3**	**IE3**	**200 L**	**1MB1543-2AC4.-....**	**9290.–**	**1MB1643-2AC4.-....**	**9960.–**
20	**T1, T2, T3**	**IE3**	**200 L**	**1MB1543-2AC5.-....**	**10600.–**	**1MB1643-2AC5.-....**	**11400.–**
27	**T1, T2, T3**	**IE3**	**225 M**	**1MB1543-2BC2.-....**	**13400.–**	**1MB1643-2BC2.-....**	**14500.–**
33	**T1, T2, T3**	**IE3**	**250 M**	**1MB1543-2CC2.-....**	**16200.–**	**1MB1643-2CC2.-....**	**17600.–**
40	**T1, T2, T3**	**IE3**	**280 S**	**1MB1543-2DC0.-....**	**19800.–**	**1MB1643-2DC0.-....**	**20200.–**
46	**T3**	**IE3**	**280 M**	**1MB1543-2DC2.-....**	**23300.–**	**1MB1643-2DC2.-....**	**23900.–**
50	**T1, T2**	**IE3**	**280 M**	**1MB1543-2DC2.-....**	**23300.–**	**1MB1643-2DC2.-....**	**23900.–**
64	**T3**	**IE3**	**315 S**	**1MB5543-3AC0.-....**	**29600.–**	**1MB5643-3AC0.-....**	**30400.–**
68	**T1, T2**	**IE3**	**315 S**	**1MB5543-3AC0.-....**	**29600.–**	**1MB5643-3AC0.-....**	**30400.–**
76	**T3**	**IE3**	**315 M**	**1MB5543-3AC2.-....**	**33000.–**	**1MB5643-3AC2.-....**	**33900.–**
82	**T1, T2**	**IE3**	**315 M**	**1MB5543-3AC2.-....**	**33000.–**	**1MB5643-3AC2.-....**	**33900.–**
92	**T3**	**IE3**	**315 L**	**1MB5543-3AC4.-....**	**39700.–**	**1MB5643-3AC4.-....**	**40700.–**
98	**T1, T2**	**IE3**	**315 L**	**1MB5543-3AC4.-....**	**39700.–**	**1MB5643-3AC4.-....**	**40700.–**
110	**T3**	**IE3**	**315 L**	**1MB5543-3AC5.-....**	**47500.–**	**1MB5643-3AC5.-....**	**48700.–**
120	**T1, T2**	**IE3**	**315 L**	**1MB5543-3AC5.-....**	**47500.–**	**1MB5643-3AC5.-....**	**48700.–**
125	**T3**	**IE3**	**315 L**	**1MB5543-3AC6.-....**	**55200.–**	**1MB5643-3AC6.-....**	**56500.–**
135	**T1, T2**	**IE3**	**315 L**	**1MB5543-3AC6.-....**	**55200.–**	**1MB5643-3AC6.-....**	**56500.–**

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1553/1MB5553** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 355 L
Rated power at 50 Hz	0.09 ... 460 kW
Synchronous speed at 50 Hz	1000 ... 3600 rpm
Rated torque at 50 Hz	1.2 ... 4043 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No. **Basic Line**	**Base price** EUR	Article No. **Performance Line** ▲ New	**Base price** EUR
2-pole: 3000 rpm at 50 Hz						
0.37	**IE3**	**71 M**	**1MB1553-0CA2.-....**	**2690.–**		
0.55	**IE3**	**71 M**	**1MB1553-0CA3.-....**	**2820.–**		
0.75	**IE3**	**80 M**	**1MB1553-0DA2.-....**	**2970.–**		
1.1	**IE3**	**80 M**	**1MB1553-0DA3.-....**	**3120.–**		
1.5	**IE3**	**90 S**	**1MB1553-0EA0.-....**	**3370.–**		
2.2	**IE3**	**90 L**	**1MB1553-0EA4.-....**	**3690.–**		
3	**IE3**	**100 L**	**1MB1553-1AA4.-....**	**4440.–**		
4	**IE3**	**112 M**	**1MB1553-1BA2.-....**	**5280.–**		
5.5	**IE3**	**132 S**	**1MB1553-1CA0.-....**	**6240.–**	▲ **1MB1563-1CA0.-....**	**4558.20**
7.5	**IE3**	**132 S**	**1MB1553-1CA1.-....**	**7470.–**	▲ **1MB1563-1CA1.-....**	**5378.40**
11	**IE3**	**160 M**	**1MB1553-1DA2.-....**	**9770.–**	▲ **1MB1563-1DA2.-....**	**7132.10**
15	**IE3**	**160 M**	**1MB1553-1DA3.-....**	**11200.–**	▲ **1MB1563-1DA3.-....**	**8288.–**
18.5	**IE3**	**160 L**	**1MB1553-1DA4.-....**	**12400.–**	▲ **1MB1563-1DA4.-....**	**9300.–**
22	**IE3**	**180 M**	**1MB1553-1EA2.-....**	**15100.–**	▲ **1MB1563-1EA2.-....**	**11476.–**
30	**IE3**	**200 L**	**1MB1553-2AA4.-....**	**18500.–**	▲ **1MB1563-2AA4.-....**	**14162.78**
37	**IE3**	**200 L**	**1MB1553-2AA5.-....**	**22000.–**	▲ **1MB1563-2AA5.-....**	**16964.44**
45	**IE3**	**225 M**	**1MB1553-2BA2.-....**	**24700.–**	▲ **1MB1563-2BA2.-....**	**19183.67**
55	**IE3**	**250 M**	**1MB1553-2CA2.-....**	**29800.–**	▲ **1MB1563-2CA2.-....**	**23310.22**
75	**IE3**	**280 S**	**1MB1553-2DA0.-....**	**38300.–**	▲ **1MB1563-2DA0.-....**	**30171.89**
90	**IE3**	**280 M**	**1MB1553-2DA2.-....**	**44400.–**	▲ **1MB1563-2DA2.-....**	**35224.–**
110	**IE3**	**315 S**	**1MB5553-3AA0.-....**	**54400.–**		
132	**IE3**	**315 M**	**1MB5553-3AA2.-....**	**63200.–**		
160	**IE3**	**315 L**	**1MB5553-3AA4.-....**	**77500.–**		
200	**IE3**	**315 L**	**1MB5553-3AA5.-....**	**92600.–**		
250	**IE3**	**315 L**	**1MB5553-3AA6.-....**	**102000.–**		
315	**IE3**	**355 M**	**1MB5553-3BA2.-....**	**129000.–**		
355	**IE3**	**355 M**	**1MB5553-3BA3.-....**	**133000.–**		
400	**IE3**	**355 L**	**1MB5553-3BA4.-....**	**151000.–**		
460	**IE3**	**355 L**	**1MB5553-3BA5.-....**	**181000.–**		

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1553/1MB5553** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 355 L
Rated power at 50 Hz	0.09 ... 460 kW
Synchronous speed at 50 Hz	1000 ... 3600 rpm
Rated torque at 50 Hz	1.2 ... 4043 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR	▲ New	EUR
4-pole: 1500 rpm at 50 Hz						
0.25	**IE3**	**71 M**	**1MB1553-0CB2.-....**	**2640.–**		
0.37	**IE3**	**71 M**	**1MB1553-0CB3.-....**	**2760.–**		
0.55	**IE3**	**80 M**	**1MB1553-0DB2.-....**	**2900.–**		
0.75	**IE3**	**80 M**	**1MB1553-0DB3.-....**	**3030.–**		
1.1	**IE3**	**90 S**	**1MB1553-0EB0.-....**	**3280.–**		
1.5	**IE3**	**90 L**	**1MB1553-0EB4.-....**	**3570.–**		
2.2	**IE3**	**100 L**	**1MB1553-1AB4.-....**	**4050.–**		
3	**IE3**	**100 M**	**1MB1553-1AB5.-....**	**4330.–**		
4	**IE3**	**112 S**	**1MB1553-1BB2.-....**	**5130.–**		
5.5	**IE3**	**132 S**	**1MB1553-1CB0.-....**	**6230.–**	▲ **1MB1563-1CB0.-....**	**4445.55**
7.5	**IE3**	**132 M**	**1MB1553-1CB2.-....**	**7530.–**	▲ **1MB1563-1CB2.-....**	**5443.11**
11	**IE3**	**160 M**	**1MB1553-1DB2.-....**	**9420.–**	▲ **1MB1563-1DB2.-....**	**6896.79**
15	**IE3**	**160 L**	**1MB1553-1DB4.-....**	**11800.–**	▲ **1MB1563-1DB4.-....**	**8748.86**
18.5	**IE3**	**180 M**	**1MB1553-1EB2.-....**	**13100.–**	▲ **1MB1563-1EB2.-....**	**9834.36**
22	**IE3**	**180 L**	**1MB1553-1EB4.-....**	**14500.–**	▲ **1MB1563-1EB4.-....**	**11020.–**
30	**IE3**	**200 L**	**1MB1553-2AB5.-....**	**18300.–**	▲ **1MB1563-2AB5.-....**	**14009.67**
37	**IE3**	**225 S**	**1MB1553-2BB0.-....**	**20500.–**	▲ **1MB1563-2BB0.-....**	**15807.78**
45	**IE3**	**225 M**	**1MB1553-2BB2.-....**	**23700.–**	▲ **1MB1563-2BB2.-....**	**18407.–**
55	**IE3**	**250 M**	**1MB1553-2CB2.-....**	**28600.–**	▲ **1MB1563-2CB2.-....**	**22371.56**
75	**IE3**	**280 S**	**1MB1553-2DB0.-....**	**36800.–**	▲ **1MB1563-2DB0.-....**	**28990.22**
90	**IE3**	**280 M**	**1MB1553-2DB2.-....**	**42300.–**	▲ **1MB1563-2DB2.-....**	**33558.–**
110	**IE3**	**315 S**	**1MB5553-3AB0.-....**	**51800.–**		
132	**IE3**	**315 M**	**1MB5553-3AB2.-....**	**60600.–**		
160	**IE3**	**315 L**	**1MB5553-3AB4.-....**	**73500.–**		
200	**IE3**	**315 L**	**1MB5553-3AB5.-....**	**87800.–**		
250	**IE3**	**315 L**	**1MB5553-3AB6.-....**	**97200.–**		
315	**IE3**	**355 M**	**1MB5553-3BB2.-....**	**122000.–**		
355	**IE3**	**355 M**	**1MB5553-3BB3.-....**	**127000.–**		
400	**IE3**	**355 L**	**1MB5553-3BB4.-....**	**144000.–**		
460	**IE3**	**355 L**	**1MB5553-3BB5.-....**	**172000.–**		

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1553/1MB5553** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 355 L
Rated power at 50 Hz	0.09 ... 460 kW
Synchronous speed at 50 Hz	1000 ... 3600 rpm
Rated torque at 50 Hz	1.2 ... 4043 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No. **Basic Line**	**Base price** EUR	Article No. **Performance Line** ▲ New	**Base price** EUR
6-pole: 1000 rpm at 50 Hz						
0.18	**IE3**	**71 M**	**1MB1553-0CC2.-....**	**2850.–**		
0.25	**IE3**	**71 M**	**1MB1553-0CC3.-....**	**2990.–**		
0.37	**IE3**	**80 M**	**1MB1553-0DC2.-....**	**3110.–**		
0.55	**IE3**	**80 M**	**1MB1553-0DC3.-....**	**3270.–**		
0.75	**IE3**	**90 S**	**1MB1553-0EC0.-....**	**3560.–**		
1.1	**IE3**	**100 L**	**1MB1553-1AC3.-....**	**3890.–**		
1.5	**IE3**	**112 L**	**1MB1553-1BC1.-....**	**4360.–**		
2.2	**IE3**	**132 S**	**1MB1553-1CC1.-....**	**5490.–**	▲ **1MB1563-1CC1.-....**	**4799.60**
3	**IE3**	**132 S**	**1MB1553-1CC0.-....**	**6760.–**	▲ **1MB1563-1CC0.-....**	**3843.–**
4	**IE3**	**132 M**	**1MB1553-1CC2.-....**	**7530.–**	▲ **1MB1563-1CC2.-....**	**5421.60**
5.5	**IE3**	**132 M**	**1MB1553-1CC3.-....**	**8160.–**	▲ **1MB1563-1CC3.-....**	**5956.80**
7.5	**IE3**	**160 M**	**1MB1553-1DC2.-....**	**10100.–**	▲ **1MB1563-1DC2.-....**	**7474.–**
11	**IE3**	**160 L**	**1MB1553-1DC4.-....**	**12900.–**	▲ **1MB1563-1DC4.-....**	**9675.–**
15	**IE3**	**180 L**	**1MB1553-1EC4.-....**	**15600.–**	▲ **1MB1563-1EC4.-....**	**11856.–**
18.5	**IE3**	**200 L**	**1MB1553-2AC4.-....**	**18500.–**	▲ **1MB1563-2AC4.-....**	**14152.50**
22	**IE3**	**200 L**	**1MB1553-2AC5.-....**	**20100.–**	▲ **1MB1563-2AC5.-....**	**15477.–**
30	**IE3**	**225 M**	**1MB1553-2BC2.-....**	**25600.–**	▲ **1MB1563-2BC2.-....**	**19840.–**
37	**IE3**	**250 M**	**1MB1553-2CC2.-....**	**30600.–**	▲ **1MB1563-2CC2.-....**	**23868.–**
45	**IE3**	**280 S**	**1MB1553-2DC0.-....**	**40000.–**	▲ **1MB1563-2DC0.-....**	**31400.–**
55	**IE3**	**280 M**	**1MB1553-2DC2.-....**	**45900.–**	▲ **1MB1563-2DC2.-....**	**36261.–**
75	**IE3**	**315 S**	**1MB5553-3AC0.-....**	**56800.–**		
90	**IE3**	**315 M**	**1MB5553-3AC2.-....**	**66300.–**		
110	**IE3**	**315 L**	**1MB5553-3AC4.-....**	**74800.–**		
132	**IE3**	**315 L**	**1MB5553-3AC5.-....**	**80900.–**		
160	**IE3**	**315 L**	**1MB5553-3AC6.-....**	**94700.–**		
200	**IE3**	**315 L**	**1MB5553-3AC7.-....**	**105000.–**		
250	**IE3**	**355 S**	**1MB5553-3BC1.-....**	**132000.–**		
315	**IE3**	**355 M**	**1MB5553-3BC2.-....**	**137000.–**		
355	**IE3**	**355 M**	**1MB5553-3BC3.-....**	**152000.–**		
380	**IE3**	**355 L**	**1MB5553-3BC4.-....**	**188000.–**		

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Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1553/1MB5553**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	71 M ... 355 L
Rated power at 50 Hz	0.09 ... 460 kW
Synchronous speed at 50 Hz	1000 ... 3600 rpm
Rated torque at 50 Hz	1.2 ... 4043 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No. **Basic Line**	**Base price** EUR	Article No. **Performance Line** ▲ New	**Base price** EUR
8-pole: 750 rpm at 50 Hz						
0.09	**IE3**	**71 M**	**1MB1553-0CD2.-....**	**2990.–**		
0.12	**IE3**	**71 M**	**1MB1553-0CD3.-....**	**3140.–**		
0.18	**IE3**	**80 M**	**1MB1553-0DD2.-....**	**3270.–**		
0.25	**IE3**	**80 M**	**1MB1553-0DD3.-....**	**3420.–**		
0.37	**IE3**	**90 S**	**1MB1553-0ED0.-....**	**3780.–**		
0.55	**IE3**	**90 L**	**1MB1553-0ED4.-....**	**4140.–**		
0.75	**IE3**	**100 L**	**1MB1553-1AD4.-....**	**4700.–**		
1.1	**IE3**	**100 L**	**1MB1553-1AD5.-....**	**4970.–**		
1.5	**IE3**	**112 M**	**1MB1553-1BD2.-....**	**5830.–**		
2.2	**IE3**	**132 S**	**1MB1553-1CD0.-....**	**7140.–**	▲ **1MB1563-1CD0.-....**	**5094.90**
3	**IE3**	**132 M**	**1MB1553-1CD2.-....**	**8570.–**	▲ **1MB1563-1CD2.-....**	**6194.89**
4	**IE3**	**160 M**	**1MB1553-1DD2.-....**	**10800.–**	▲ **1MB1563-1DD2.-....**	**7907.14**
5.5	**IE3**	**160 M**	**1MB1553-1DD3.-....**	**12300.–**	▲ **1MB1563-1DD3.-....**	**9119.57**
7.5	**IE3**	**160 L**	**1MB1553-1DD4.-....**	**13800.–**	▲ **1MB1563-1DD4.-....**	**10359.86**
11	**IE3**	**180 L**	**1MB1553-1ED4.-....**	**16400.–**	▲ **1MB1563-1ED4.-....**	**12464.–**
15	**IE3**	**200 L**	**1MB1553-2AD5.-....**	**21000.–**	▲ **1MB1563-2AD5.-....**	**16076.67**
18.5	**IE3**	**225 S**	**1MB1553-2BD0.-....**	**23400.–**	▲ **1MB1563-2BD0.-....**	**18044.–**
22	**IE3**	**225 M**	**1MB1553-2BD2.-....**	**26800.–**	▲ **1MB1563-2BD2.-....**	**20815.–**
30	**IE3**	**250 M**	**1MB1553-2CD2.-....**	**33000.–**	▲ **1MB1563-2CD2.-....**	**25813.33**
37	**IE3**	**280 S**	**1MB1553-2DD0.-....**	**42300.–**	▲ **1MB1563-2DD0.-....**	**33323.–**
45	**IE3**	**280 M**	**1MB1553-2DD2.-....**	**49400.–**	▲ **1MB1563-2DD2.-....**	**39190.67**
55	**IE3**	**315 S**	**1MB5553-3AD0.-....**	**60400.–**		
75	**IE3**	**315 M**	**1MB5553-3AD2.-....**	**68400.–**		
90	**IE3**	**315 L**	**1MB5553-3AD4.-....**	**79300.–**		
110	**IE3**	**315 L**	**1MB5553-3AD5.-....**	**85600.–**		
132	**IE3**	**315 L**	**1MB5553-3AD6.-....**	**100000.–**		
160	**IE3**	**315 L**	**1MB5553-3AD7.-....**	**111000.–**		
200	**IE3**	**355 M**	**1MB5553-3BD0.-....**	**139000.–**		
250	**IE3**	**355 M**	**1MB5553-3BD1.-....**	**145000.–**		
315	**IE3**	**355 L**	**1MB5553-3BD2.-....**	**161000.–**		

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1556/1MB5556** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 355 L
Rated power at 50 Hz	0.12 ... 315 kW
Synchronous speed at 50 Hz	1000 ... 3600 rpm
Rated torque at 50 Hz	0.84 ... 2682 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR	▲ New	EUR
2-pole: 3000 rpm at 50 Hz						
0.25	**IE3**	**71 M**	**▲ 1MB1556-0CA2.-....**	**3730.–**		
0.37	**IE3**	**71 M**	**▲ 1MB1556-0CA3.-....**	**3860.–**		
0.55	**IE3**	**80 M**	**▲ 1MB1556-0DA2.-....**	**4010.–**		
0.75	**IE3**	**80 M**	**▲ 1MB1556-0DA3.-....**	**4170.–**		
1.1	**IE3**	**90 S**	**▲ 1MB1556-0EA0.-....**	**4420.–**		
1.5	**IE3**	**90 L**	**▲ 1MB1556-0EA4.-....**	**4750.–**		
2.2	**IE3**	**100 L**	**▲ 1MB1556-1AA4.-....**	**5510.–**		
3	**IE3**	**112 M**	**▲ 1MB1556-1BA2.-....**	**6360.–**		
4	**IE3**	**132 S**	**▲ 1MB1556-1CA0.-....**	**7520.–**	**▲ 1MB1566-1CA0.-....**	**5658.20**
5.5	**IE3**	**132 S**	**▲ 1MB1556-1CA1.-....**	**8580.–**	**▲ 1MB1566-1CA1.-....**	**6488.40**
7.5	**IE3**	**160 M**	**▲ 1MB1556-1DA2.-....**	**10900.–**	**▲ 1MB1566-1DA2.-....**	**8262.10**
11	**IE3**	**160 M**	**▲ 1MB1556-1DA3.-....**	**12400.–**	**▲ 1MB1566-1DA3.-....**	**9488.–**
15	**IE3**	**160 L**	**▲ 1MB1556-1DA4.-....**	**13600.–**	**▲ 1MB1566-1DA4.-....**	**10500.–**
18.5	**IE3**	**180 M**	**▲ 1MB1556-1EA2.-....**	**16300.–**	**▲ 1MB1566-1EA2.-....**	**12676.–**
22	**IE3**	**200 L**	**▲ 1MB1556-2AA4.-....**	**19800.–**	**▲ 1MB1566-2AA4.-....**	**15462.78**
30	**IE3**	**200 L**	**▲ 1MB1556-2AA5.-....**	**23300.–**	**▲ 1MB1566-2AA5.-....**	**18264.44**
37	**IE3**	**225 M**	**▲ 1MB1556-2BA2.-....**	**26100.–**	**▲ 1MB1566-2BA2.-....**	**20583.67**
45	**IE3**	**250 M**	**▲ 1MB1556-2CA2.-....**	**31200.–**	**▲ 1MB1566-2CA2.-....**	**24710.22**
55	**IE3**	**280 M**	**▲ 1MB1556-2DA2.-....**	**46100.–**	**▲ 1MB1566-2DA2.-....**	**36924.–**
75	**IE3**	**315 S**	**▲ 1MB5556-3AA0.-....**	**56200.–**		
90	**IE3**	**315 M**	**▲ 1MB5556-3AA2.-....**	**65100.–**		
110	**IE3**	**315 L**	**▲ 1MB5556-3AA4.-....**	**79700.–**		
132	**IE3**	**315 L**	**▲ 1MB5556-3AA5.-....**	**95000.–**		
160	**IE3**	**315 L**	**▲ 1MB5556-3AA6.-....**	**104500.–**		
200	**IE3**	**355 L**	**▲ 1MB5556-3BA2.-....**	**131900.–**		
250	**IE3**	**355 L**	**▲ 1MB5556-3BA3.-....**	**136000.–**		
300	**IE3**	**355 L**	**▲ 1MB5556-3BA5.-....**	**184700.–**		

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1556/1MB5556** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 355 L
Rated power at 50 Hz	0.12 ... 315 kW
Synchronous speed at 50 Hz	1000 ... 3600 rpm
Rated torque at 50 Hz	0.84 ... 2682 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		BG		EUR	▲ New	EUR
4-pole: 1500 rpm at 50 Hz						
0.18	**IE3**	**71 M**	▲ **1MB1556-0CB2.-....**	**3680.–**		
0.25	**IE3**	**71 M**	▲ **1MB1556-0CB3.-....**	**3800.–**		
0.37	**IE3**	**80 M**	▲ **1MB1556-0DB2.-....**	**3940.–**		
0.55	**IE3**	**80 M**	▲ **1MB1556-0DB3.-....**	**4080.–**		
0.75	**IE3**	**90 S**	▲ **1MB1556-0EB0.-....**	**4330.–**		
1.1	**IE3**	**90 L**	▲ **1MB1556-0EB4.-....**	**4620.–**		
1.5	**IE3**	**100 M**	▲ **1MB1556-1AB4.-....**	**5110.–**		
2.2	**IE3**	**100 L**	▲ **1MB1556-1AB5.-....**	**5390.–**		
3	**IE3**	**112 M**	▲ **1MB1556-1BB2.-....**	**6210.–**		
4	**IE3**	**132 S**	▲ **1MB1556-1CB0.-....**	**7320.–**	▲ **1MB1566-1CB0.-....**	**5535.55**
5.5	**IE3**	**132 M**	▲ **1MB1556-1CB2.-....**	**8640.–**	▲ **1MB1566-1CB2.-....**	**6553.11**
7.5	**IE3**	**160 M**	▲ **1MB1556-1DB2.-....**	**10600.–**	▲ **1MB1566-1DB2.-....**	**8076.79**
11	**IE3**	**160 L**	▲ **1MB1556-1DB4.-....**	**13000.–**	▲ **1MB1566-1DB4.-....**	**9948.86**
15	**IE3**	**180 M**	▲ **1MB1556-1EB2.-....**	**14300.–**	▲ **1MB1566-1EB2.-....**	**11034.36**
18.5	**IE3**	**180 L**	▲ **1MB1556-1EB4.-....**	**15700.–**	▲ **1MB1566-1EB4.-....**	**12220.–**
22	**IE3**	**200 L**	▲ **1MB1556-2AB5.-....**	**19600.–**	▲ **1MB1566-2AB5.-....**	**15309.67**
30	**IE3**	**225 S**	▲ **1MB1556-2BB0.-....**	**21800.–**	▲ **1MB1566-2BB0.-....**	**17107.78**
37	**IE3**	**225 M**	▲ **1MB1556-2BB2.-....**	**25100.–**	▲ **1MB1566-2BB2.-....**	**19807.–**
45	**IE3**	**250 M**	▲ **1MB1556-2CB2.-....**	**30000.–**	▲ **1MB1566-2CB2.-....**	**23771.56**
55	**IE3**	**280 S**	▲ **1MB1556-2DB0.-....**	**38400.–**	▲ **1MB1566-2DB0.-....**	**30590.22**
75	**IE3**	**280 M**	▲ **1MB1556-2DB2.-....**	**43900.–**	▲ **1MB1566-2DB2.-....**	**35158.–**
90	**IE3**	**315 S**	▲ **1MB5556-3AB0.-....**	**53600.–**		
110	**IE3**	**315 M**	▲ **1MB5556-3AB2.-....**	**62500.–**		
132	**IE3**	**315 L**	▲ **1MB5556-3AB5.-....**	**90100.–**		
160	**IE3**	**315 L**	▲ **1MB5556-3AB6.-....**	**99700.–**		
200	**IE3**	**355 M**	▲ **1MB5556-3BB2.-....**	**124800.–**		
250	**IE3**	**355 L**	▲ **1MB5556-3BB4.-....**	**147200.–**		
315	**IE3**	**355 L**	▲ **1MB5556-3BB5.-....**	**175600.–**		

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1556/1MB5556**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 355 L
Rated power at 50 Hz	0.12 ... 315 kW
Synchronous speed at 50 Hz	1000 ... 3600 rpm
Rated torque at 50 Hz	0.84 ... 2682 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		BG		EUR	▲ New	EUR
6-pole: 1000 rpm at 50 Hz						
0.12	**IE3**	**71 M**	**▲ 1MB1556-0CC2.-....**	**3890.–**		
0.18	**IE3**	**71 M**	**▲ 1MB1556-0CC3.-....**	**4030.–**		
0.25	**IE3**	**80 M**	**▲ 1MB1556-0DC2.-....**	**4160.–**		
0.37	**IE3**	**80 M**	**▲ 1MB1556-0DC3.-....**	**4320.–**		
0.55	**IE3**	**90 S**	**▲ 1MB1556-0EC0.-....**	**4610.–**		
0.75	**IE3**	**100 L**	**▲ 1MB1556-1AC3.-....**	**4950.–**		
1.1	**IE3**	**112 L**	**▲ 1MB1556-1BC1.-....**	**5430.–**		
1.5	**IE3**	**132 S**	**▲ 1MB1556-1CC1.-....**	**6570.–**	**▲ 1MB1566-1CC1.-....**	**5899.60**
2.2	**IE3**	**132 S**	**▲ 1MB1556-1CC0.-....**	**7860.–**	**▲ 1MB1566-1CC0.-....**	**4923.–**
3	**IE3**	**132 M**	**▲ 1MB1556-1CC2.-....**	**8640.–**	**▲ 1MB1566-1CC2.-....**	**6531.60**
4	**IE3**	**132 M**	**▲ 1MB1556-1CC3.-....**	**9280.–**	**▲ 1MB1566-1CC3.-....**	**7076.80**
5.5	**IE3**	**160 M**	**▲ 1MB1556-1DC2.-....**	**11300.–**	**▲ 1MB1566-1DC2.-....**	**8674.–**
7.5	**IE3**	**160 L**	**▲ 1MB1556-1DC4.-....**	**14100.–**	**▲ 1MB1566-1DC4.-....**	**10875.–**
11	**IE3**	**180 L**	**▲ 1MB1556-1EC4.-....**	**16800.–**	**▲ 1MB1566-1EC4.-....**	**13056.–**
15	**IE3**	**200 L**	**▲ 1MB1556-2AC4.-....**	**19800.–**	**▲ 1MB1566-2AC4.-....**	**15452.50**
18.5	**IE3**	**200 L**	**▲ 1MB1556-2AC5.-....**	**21400.–**	**▲ 1MB1566-2AC5.-....**	**16777.–**
22	**IE3**	**225 M**	**▲ 1MB1556-2BC2.-....**	**27000.–**	**▲ 1MB1566-2BC2.-....**	**21240.–**
30	**IE3**	**250 M**	**▲ 1MB1556-2CC2.-....**	**32100.–**	**▲ 1MB1566-2CC2.-....**	**25368.–**
37	**IE3**	**280 S**	**▲ 1MB1556-2DC0.-....**	**41600.–**	**▲ 1MB1566-2DC0.-....**	**33000.–**
45	**IE3**	**280 M**	**▲ 1MB1556-2DC2.-....**	**47600.–**	**▲ 1MB1566-2DC2.-....**	**37961.–**
55	**IE3**	**315 S**	**▲ 1MB5556-3AC0.-....**	**58700.–**		
75	**IE3**	**315 M**	**▲ 1MB5556-3AC2.-....**	**68300.–**		
132	**IE3**	**315 L**	**▲ 1MB5556-3AC7.-....**	**107600.–**		
200	**IE3**	**355 L**	**▲ 1MB5556-3BC2.-....**	**140100.–**		
280	**IE3**	**355 L**	**▲ 1MB5556-3BC4.-....**	**191800.–**		

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Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1557/1MB5557** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 355 L
Rated power at 50 Hz	0.12 ... 355 kW
Synchronous speed at 50 Hz	1000 ... 3600 rpm
Rated torque at 50 Hz	0.82 ... 3032 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS		EUR	▲ New	EUR
2-pole: 3000 rpm at 50 Hz						
0.25	**IE3**	**71 M**	**▲ 1MB1557-0CA2.-....**	**3730.–**		
0.37	**IE3**	**71 M**	**▲ 1MB1557-0CA3.-....**	**3860.–**		
0.55	**IE3**	**80 M**	**▲ 1MB1557-0DA2.-....**	**4010.–**		
0.75	**IE3**	**80 M**	**▲ 1MB1557-0DA3.-....**	**4170.–**		
1.1	**IE3**	**90 S**	**▲ 1MB1557-0EA0.-....**	**4420.–**		
1.5	**IE3**	**90 L**	**▲ 1MB1557-0EA4.-....**	**4750.–**		
2.2	**IE3**	**100 L**	**▲ 1MB1557-1AA4.-....**	**5510.–**		
3	**IE3**	**112 M**	**▲ 1MB1557-1BA2.-....**	**6360.–**		
4	**IE3**	**132 S**	**▲ 1MB1557-1CA0.-....**	**7520.–**	**▲ 1MB1567-1CA0.-....**	**5658.20**
5.5	**IE3**	**132 S**	**▲ 1MB1557-1CA1.-....**	**8580.–**	**▲ 1MB1567-1CA1.-....**	**6488.40**
7.5	**IE3**	**160 M**	**▲ 1MB1557-1DA2.-....**	**10900.–**	**▲ 1MB1567-1DA2.-....**	**8262.10**
11	**IE3**	**160 M**	**▲ 1MB1557-1DA3.-....**	**12400.–**	**▲ 1MB1567-1DA3.-....**	**9488.–**
15	**IE3**	**160 L**	**▲ 1MB1557-1DA4.-....**	**13600.–**	**▲ 1MB1567-1DA4.-....**	**10500.–**
18.5	**IE3**	**180 M**	**▲ 1MB1557-1EA2.-....**	**16300.–**	**▲ 1MB1567-1EA2.-....**	**12676.–**
22	**IE3**	**200 L**	**▲ 1MB1557-2AA4.-....**	**19800.–**	**▲ 1MB1567-2AA4.-....**	**15462.78**
30	**IE3**	**200 L**	**▲ 1MB1557-2AA5.-....**	**23300.–**	**▲ 1MB1567-2AA5.-....**	**18264.44**
37	**IE3**	**225 M**	**▲ 1MB1557-2BA2.-....**	**26100.–**	**▲ 1MB1567-2BA2.-....**	**20583.67**
45	**IE3**	**250 M**	**▲ 1MB1557-2CA2.-....**	**31200.–**	**▲ 1MB1567-2CA2.-....**	**24710.22**
55	**IE3**	**280 S**	**▲ 1MB1557-2DA0.-....**	**39900.–**	**▲ 1MB1567-2DA0.-....**	**31771.89**
75	**IE3**	**280 M**	**▲ 1MB1557-2DA2.-....**	**46100.–**	**▲ 1MB1567-2DA2.-....**	**36924.–**
90	**IE3**	**315 S**	**▲ 1MB5557-3AA0.-....**	**56200.–**		
110	**IE3**	**315 M**	**▲ 1MB5557-3AA2.-....**	**65100.–**		
132	**IE3**	**315 L**	**▲ 1MB5557-3AA4.-....**	**79700.–**		
160	**IE3**	**315 L**	**▲ 1MB5557-3AA5.-....**	**95000.–**		
200	**IE3**	**315 L**	**▲ 1MB5557-3AA6.-....**	**105000.–**		

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1557/1MB5557** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 355 L
Rated power at 50 Hz	0.12 ... 355 kW
Synchronous speed at 50 Hz	1000 ... 3600 rpm
Rated torque at 50 Hz	0.82 ... 3032 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size BG	Article No. **Basic Line**	**Base price** EUR	Article No. **Performance Line** ▲ New	**Base price** EUR
4-pole: 1500 rpm at 50 Hz						
0.18	**IE3**	**71 M**	▲ **1MB1557-0CB2.-....**	**3680.–**		
0.25	**IE3**	**71 M**	▲ **1MB1557-0CB3.-....**	**3800.–**		
0.37	**IE3**	**80 M**	▲ **1MB1557-0DB2.-....**	**3940.–**		
0.55	**IE3**	**80 M**	▲ **1MB1557-0DB3.-....**	**4080.–**		
0.75	**IE3**	**90 S**	▲ **1MB1557-0EB0.-....**	**4330.–**		
1.1	**IE3**	**90 L**	▲ **1MB1557-0EB4.-....**	**4620.–**		
1.5	**IE3**	**100 M**	▲ **1MB1557-1AB4.-....**	**5110.–**		
2.2	**IE3**	**100 L**	▲ **1MB1557-1AB5.-....**	**5390.–**		
3	**IE3**	**112 M**	▲ **1MB1557-1BB2.-....**	**6210.–**		
4	**IE3**	**132 S**	▲ **1MB1557-1CB0.-....**	**7320.–**	▲ **1MB1567-1CB0.-....**	**5535.55**
5.5	**IE3**	**132 M**	▲ **1MB1557-1CB2.-....**	**8640.–**	▲ **1MB1567-1CB2.-....**	**6553.11**
7.5	**IE3**	**160 M**	▲ **1MB1557-1DB2.-....**	**10600.–**	▲ **1MB1567-1DB2.-....**	**8076.79**
11	**IE3**	**160 L**	▲ **1MB1557-1DB4.-....**	**13000.–**	▲ **1MB1567-1DB4.-....**	**9948.86**
15	**IE3**	**180 M**	▲ **1MB1557-1EB2.-....**	**14300.–**	▲ **1MB1567-1EB2.-....**	**11034.36**
18.5	**IE3**	**180 L**	▲ **1MB1557-1EB4.-....**	**15700.–**	▲ **1MB1567-1EB4.-....**	**12220.–**
22	**IE3**	**200 L**	▲ **1MB1557-2AB5.-....**	**19600.–**	▲ **1MB1567-2AB5.-....**	**15309.67**
30	**IE3**	**225 S**	▲ **1MB1557-2BB0.-....**	**21800.–**	▲ **1MB1567-2BB0.-....**	**17107.78**
37	**IE3**	**225 M**	▲ **1MB1557-2BB2.-....**	**25100.–**	▲ **1MB1567-2BB2.-....**	**19807.–**
45	**IE3**	**250 M**	▲ **1MB1557-2CB2.-....**	**30000.–**	▲ **1MB1567-2CB2.-....**	**23771.56**
55	**IE3**	**280 S**	▲ **1MB1557-2DB0.-....**	**38400.–**	▲ **1MB1567-2DB0.-....**	**30590.22**
75	**IE3**	**280 M**	▲ **1MB1557-2DB2.-....**	**43900.–**	▲ **1MB1567-2DB2.-....**	**35158.–**
90	**IE3**	**315 S**	▲ **1MB5557-3AB0.-....**	**53600.–**		
110	**IE3**	**315 M**	▲ **1MB5557-3AB2.-....**	**62500.–**		
132	**IE3**	**315 L**	▲ **1MB5557-3AB5.-....**	**90100.–**		
160	**IE3**	**315 L**	▲ **1MB5557-3AB6.-....**	**99700.–**		
200	**IE3**	**315 L**	▲ **1MB5557-3BB2.-....**	**125000.–**		
250	**IE3**	**355 L**	▲ **1MB5557-3BB4.-....**	**147000.–**		
315	**IE3**	**355 L**	▲ **1MB5557-3BB5.-....**	**176000.–**		
355	**IE3**	**355 L**	▲ **1MB5557-3BB5.-....**	**176000.–**		

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1557/1MB5557**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6
Frame sizes (FS)	71 M ... 355 L
Rated power at 50 Hz	0.12 ... 355 kW
Synchronous speed at 50 Hz	1000 ... 3600 rpm
Rated torque at 50 Hz	0.82 ... 3032 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

P_{rated}, 50 Hz	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		BG		EUR	▲ New	EUR
6-pole: 1000 rpm at 50 Hz						
0.12	**IE3**	**71 M**	**▲ 1MB1557-0CC2.-....**	**3890.–**		
0.18	**IE3**	**71 M**	**▲ 1MB1557-0CC3.-....**	**4030.–**		
0.25	**IE3**	**80 M**	**▲ 1MB1557-0DC2.-....**	**4160.–**		
0.37	**IE3**	**80 M**	**▲ 1MB1557-0DC3.-....**	**4320.–**		
0.55	**IE3**	**90 S**	**▲ 1MB1557-0EC0.-....**	**4610.–**		
0.75	**IE3**	**100 L**	**▲ 1MB1557-1AC3.-....**	**4950.–**		
1.1	**IE3**	**112 L**	**▲ 1MB1557-1BC1.-....**	**5430.–**		
1.5	**IE3**	**132 S**	**▲ 1MB1557-1CC1.-....**	**6570.–**	**▲ 1MB1567-1CC1.-....**	**5899.60**
2.2	**IE3**	**132 S**	**▲ 1MB1557-1CC0.-....**	**7860.–**	**▲ 1MB1567-1CC0.-....**	**4923.–**
3	**IE3**	**132 M**	**▲ 1MB1557-1CC2.-....**	**8640.–**	**▲ 1MB1567-1CC2.-....**	**6531.60**
4	**IE3**	**132 M**	**▲ 1MB1557-1CC3.-....**	**9280.–**	**▲ 1MB1567-1CC3.-....**	**7076.80**
5.5	**IE3**	**160 M**	**▲ 1MB1557-1DC2.-....**	**11300.–**	**▲ 1MB1567-1DC2.-....**	**8674.–**
7.5	**IE3**	**160 L**	**▲ 1MB1557-1DC4.-....**	**14100.–**	**▲ 1MB1567-1DC4.-....**	**10875.–**
11	**IE3**	**180 L**	**▲ 1MB1557-1EC4.-....**	**16800.–**	**▲ 1MB1567-1EC4.-....**	**13056.–**
15	**IE3**	**200 L**	**▲ 1MB1557-2AC4.-....**	**19800.–**	**▲ 1MB1567-2AC4.-....**	**15452.50**
18.5	**IE3**	**200 L**	**▲ 1MB1557-2AC5.-....**	**21400.–**	**▲ 1MB1567-2AC5.-....**	**16777.–**
22	**IE3**	**225 M**	**▲ 1MB1557-2BC2.-....**	**27000.–**	**▲ 1MB1567-2BC2.-....**	**21240.–**
30	**IE3**	**250 M**	**▲ 1MB1557-2CC2.-....**	**32100.–**	**▲ 1MB1567-2CC2.-....**	**25368.–**
37	**IE3**	**280 S**	**▲ 1MB1557-2DC0.-....**	**41600.–**	**▲ 1MB1567-2DC0.-....**	**33000.–**
45	**IE3**	**280 M**	**▲ 1MB1557-2DC2.-....**	**47600.–**	**▲ 1MB1567-2DC2.-....**	**37961.–**
55	**IE3**	**315 S**	**▲ 1MB5557-3AC0.-....**	**58700.–**		
75	**IE3**	**315 M**	**▲ 1MB5557-3AC2.-....**	**68300.–**		
160	**IE3**	**315 L**	**▲ 1MB5557-3AC7.-....**	**107600.–**		
250	**IE3**	**355 L**	**▲ 1MB5557-3BC2.-....**	**140100.–**		
315	**IE3**	**355 L**	**▲ 1MB5557-3BC4.-....**	**191800.–**		

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1853/1MB5853** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 355 L
Rated power at 50 Hz	2.2 ... 450 kW
Synchronous speed at 50 Hz	750 ... 3600 rpm
Rated torque at 50 Hz	9.8 ... 3589 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS	▲	EUR	▲ New	EUR
2-pole: 3000 rpm at 50 Hz						
3	**IE3**	**100 L**	▲ **1MB1853-1AA4.-....**	**4930.–**		
4	**IE3**	**112 M**	▲ **1MB1853-1BA2.-....**	**5910.–**		
5.5	**IE3**	**132 S**	▲ **1MB1853-1CA0.-....**	**7380.–**	▲ **1MB1863-1CA0.-....**	**5518.20**
7.5	**IE3**	**132 S**	▲ **1MB1853-1CA1.-....**	**8370.–**	▲ **1MB1863-1CA1.-....**	**6278.40**
11	**IE3**	**160 M**	▲ **1MB1853-1DA2.-....**	**10730.–**	▲ **1MB1863-1DA2.-....**	**8092.10**
15	**IE3**	**160 M**	▲ **1MB1853-1DA3.-....**	**12160.–**	▲ **1MB1863-1DA3.-....**	**9248.–**
18.5	**IE3**	**160 L**	▲ **1MB1853-1DA4.-....**	**13400.–**	▲ **1MB1863-1DA4.-....**	**10300.–**
22	**IE3**	**180 M**	▲ **1MB1853-1EA2.-....**	**16470.–**	▲ **1MB1863-1EA2.-....**	**12846.–**
30	**IE3**	**200 L**	▲ **1MB1853-2AA4.-....**	**20220.–**	▲ **1MB1863-2AA4.-....**	**15882.78**
37	**IE3**	**200 L**	▲ **1MB1853-2AA5.-....**	**23560.–**	▲ **1MB1863-2AA5.-....**	**18524.44**
45	**IE3**	**225 M**	▲ **1MB1853-2BA2.-....**	**26900.–**	▲ **1MB1863-2BA2.-....**	**21383.67**
55	**IE3**	**250 M**	▲ **1MB1853-2CA2.-....**	**32100.–**	▲ **1MB1863-2CA2.-....**	**25610.22**
75	**IE3**	**280 S**	▲ **1MB1853-2DA0.-....**	**40880.–**	▲ **1MB1863-2DA0.-....**	**32751.89**
85	**IE3**	**280 M**	▲ **1MB1853-2DA2.-....**	**46900.–**	▲ **1MB1863-2DA2.-....**	**37724.–**
110	**IE3**	**315 S**	▲ **1MB5853-3AA0.-....**	**57600.–**		
132	**IE3**	**315 M**	▲ **1MB5853-3AA2.-....**	**66500.–**		
160	**IE3**	**315 L**	▲ **1MB5853-3AA4.-....**	**80100.–**		
200	**IE3**	**315 L**	▲ **1MB5853-3AA5.-....**	**95800.–**		
250	**IE3**	**315 L**	▲ **1MB5853-3AA6.-....**	**105355.–**		
315	**IE3**	**355 M**	▲ **1MB5853-3BA2.-....**	**132850.–**		
355	**IE3**	**355 M**	▲ **1MB5853-3BA3.-....**	**137300.–**		
400	**IE3**	**355 L**	▲ **1MB5853-3BA4.-....**	**155750.–**		
450	**IE3**	**355 L**	▲ **1MB5853-3BA5.-....**	**186200.–**		

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Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1853/1MB5853** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 355 L
Rated power at 50 Hz	2.2 ... 450 kW
Synchronous speed at 50 Hz	750 ... 3600 rpm
Rated torque at 50 Hz	9.8 ... 3589 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No. **Basic Line** ▲	**Base price** EUR	Article No. **Performance Line** ▲ New	**Base price** EUR
4-pole: 1500 rpm at 50 Hz						
2.2	**IE3**	**100 L**	▲ **1MB1853-1AB4.-....**	**4690.–**		
3	**IE3**	**100 M**	▲ **1MB1853-1AB5.-....**	**5200.–**		
4	**IE3**	**112 S**	▲ **1MB1853-1BB2.-....**	**5910.–**		
5.5	**IE3**	**132 S**	▲ **1MB1853-1CB0.-....**	**7090.–**	▲ **1MB1863-1CB0.-....**	**5305.55**
7.5	**IE3**	**132 M**	▲ **1MB1853-1CB2.-....**	**8400.–**	▲ **1MB1863-1CB2.-....**	**6313.11**
11	**IE3**	**160 M**	▲ **1MB1853-1DB2.-....**	**10540.–**	▲ **1MB1863-1DB2.-....**	**7976.79**
15	**IE3**	**160 L**	▲ **1MB1853-1DB4.-....**	**13090.–**	▲ **1MB1863-1DB4.-....**	**10048.86**
18.5	**IE3**	**180 M**	▲ **1MB1853-1EB2.-....**	**14940.–**	▲ **1MB1863-1EB2.-....**	**11634.36**
22	**IE3**	**180 L**	▲ **1MB1853-1EB4.-....**	**16520.–**	▲ **1MB1863-1EB4.-....**	**13020.–**
30	**IE3**	**200 L**	▲ **1MB1853-2AB5.-....**	**20900.–**	▲ **1MB1863-2AB5.-....**	**16609.67**
45	**IE3**	**225 M**	▲ **1MB1853-2BB2.-....**	**25304.–**	▲ **1MB1863-2BB2.-....**	**20007.–**
55	**IE3**	**250 M**	▲ **1MB1853-2CB2.-....**	**30320.–**	▲ **1MB1863-2CB2.-....**	**24071.56**
75	**IE3**	**280 S**	▲ **1MB1853-2DB0.-....**	**38440.–**	▲ **1MB1863-2DB0.-....**	**30590.22**
90	**IE3**	**280 M**	▲ **1MB1853-2DB2.-....**	**43940.–**	▲ **1MB1863-2DB2.-....**	**35158.–**
110	**IE3**	**315 S**	▲ **1MB5853-3AB0.-....**	**53160.–**		
132	**IE3**	**315 M**	▲ **1MB5853-3AB2.-....**	**62000.–**		
160	**IE3**	**315 L**	▲ **1MB5853-3AB4.-....**	**74860.–**		
200	**IE3**	**315 L**	▲ **1MB5853-3AB5.-....**	**89000.–**		
250	**IE3**	**315 L**	▲ **1MB5853-3AB6.-....**	**99520.–**		
315	**IE3**	**355 M**	▲ **1MB5853-3BB2.-....**	**124130.–**		
355	**IE3**	**355 M**	▲ **1MB5853-3BB3.-....**	**129430.–**		
400	**IE3**	**355 L**	▲ **1MB5853-3BB4.-....**	**146790.–**		
460	**IE3**	**355 L**	▲ **1MB5853-3BB5.-....**	**175000.–**		

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1853/1MB5853** (continued on next page)
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 355 L
Rated power at 50 Hz	2.2 ... 450 kW
Synchronous speed at 50 Hz	750 ... 3600 rpm
Rated torque at 50 Hz	9.8 ... 3589 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS	▲	EUR	▲ New	EUR
6-pole: 1000 rpm at 50 Hz						
15	**IE3**	**180 L**	▲ **1MB1853-1EC4.-....**	**17090.–**	▲ **1MB1863-1EC4.-....**	**13346.–**
18.5	**IE3**	**200 L**	▲ **1MB1853-2AC4.-....**	**20220.–**	▲ **1MB1863-2AC4.-....**	**15872.50**
22	**IE3**	**200 L**	▲ **1MB1853-2AC5.-....**	**22060.–**	▲ **1MB1863-2AC5.-....**	**17437.–**
30	**IE3**	**225 M**	▲ **1MB1853-2BC2.-....**	**27100.–**	▲ **1MB1863-2BC2.-....**	**21340.–**
37	**IE3**	**250 M**	▲ **1MB1853-2CC2.-....**	**32050.–**	▲ **1MB1863-2CC2.-....**	**25318.–**
45	**IE3**	**280 S**	▲ **1MB1853-2DC0.-....**	**41450.–**	▲ **1MB1863-2DC0.-....**	**32850.–**
55	**IE3**	**280 M**	▲ **1MB1853-2DC2.-....**	**47700.–**	▲ **1MB1863-2DC2.-....**	**38061.–**
75	**IE3**	**315 S**	▲ **1MB5853-3AC0.-....**	**58300.–**		
90	**IE3**	**315 M**	▲ **1MB5853-3AC2.-....**	**67950.–**		
110	**IE3**	**315 L**	▲ **1MB5853-3AC4.-....**	**76200.–**		
132	**IE3**	**315 L**	▲ **1MB5853-3AC5.-....**	**82600.–**		
160	**IE3**	**315 L**	▲ **1MB5853-3AC6.-....**	**96600.–**		
250	**IE3**	**355 S**	▲ **1MB5853-3BC1.-....**	**134310.–**		
315	**IE3**	**355 M**	▲ **1MB5853-3BC2.-....**	**140300.–**		
355	**IE3**	**355 M**	▲ **1MB5853-3BC3.-....**	**155000.–**		
380	**IE3**	**355 L**	▲ **1MB5853-3BC4.-....**	**192200.–**		

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Overview

Category	**Motors for zone 1 in types of protection Ex db, Ex db eb**
Efficiency	**Premium Efficiency IE3**
Series version	**Cast-iron series 1MB1853/1MB5853**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Utilization	Thermal class 130 (B)
Number of poles	2, 4, 6, 8
Frame sizes (FS)	100 L ... 355 L
Rated power at 50 Hz	2.2 ... 450 kW
Synchronous speed at 50 Hz	750 ... 3600 rpm
Rated torque at 50 Hz	9.8 ... 3589 Nm
Metal factor for metal surcharges (MS)	N - W - - - - -
Price group (PG)	3X1

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 4/40, for delivery times refer to colored background following the respective price)

$P_{rated, 50 Hz}$	IE class	Frame size	Article No. **Basic Line**	**Base price**	Article No. **Performance Line**	**Base price**
kW		FS	▲	EUR	▲ New	EUR
8-pole: 750 rpm at 50 Hz						
11	**IE3**	**180 L**	▲ **1MB1853-1ED4.-....**	**18050.–**	▲ **1MB1863-1ED4.-....**	**14114.–**
15	**IE3**	**200 L**	▲ **1MB1853-2AD5.-....**	**22320.–**	▲ **1MB1863-2AD5.-....**	**17397.–**
18.5	**IE3**	**225 S**	▲ **1MB1853-2BD0.-....**	**25200.–**	▲ **1MB1863-2BD0.-....**	**19844.–**
22	**IE3**	**225 M**	▲ **1MB1853-2BD2.-....**	**28600.–**	▲ **1MB1863-2BD2.-....**	**22615.–**
30	**IE3**	**250 M**	▲ **1MB1853-2CD2.-....**	**34900.–**	▲ **1MB1863-2CD2.-....**	**27713.–**
37	**IE3**	**280 S**	▲ **1MB1853-2DD0.-....**	**45100.–**	▲ **1MB1863-2DD0.-....**	**36123.–**
45	**IE3**	**280 M**	▲ **1MB1853-2DD2.-....**	**51500.–**	▲ **1MB1863-2DD2.-....**	**41291.–**
55	**IE3**	**315 S**	▲ **1MB5853-3AD0.-....**	**62100.–**		
75	**IE3**	**315 M**	▲ **1MB5853-3AD2.-....**	**69400.–**		
90	**IE3**	**315 L**	▲ **1MB5853-3AD4.-....**	**81000.–**		
110	**IE3**	**315 L**	▲ **1MB5853-3AD5.-....**	**86900.–**		
132	**IE3**	**315 L**	▲ **1MB5853-3AD6.-....**	**101000.–**		
160	**IE3**	**315 L**	▲ **1MB5853-3AD7.-....**	**113500.–**		
200	**IE3**	**355 M**	▲ **1MB5853-3BD0.-....**	**141500.–**		
250	**IE3**	**355 M**	▲ **1MB5853-3BD1.-....**	**147500.–**		
315	**IE3**	**355 L**	▲ **1MB5853-3BD2.-....**	**163500.–**		

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size: 63	71	80	90	100	112	132	160	Motor version		
						1MB10.3						IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3
				1MB10.1										IE2
								1MB10.2						IE1
1MB10 . . - . . . . ■ - ■ . . .			Order code											
Voltage at 50 Hz or 60 Hz (50 Hz power)														
50 Hz 230 VΔ/400 VY, 60 Hz 460 VY	**2**	**2**	**–**	□	□	□	□	□	□	□	□			
50 Hz 400 VΔ/690 VY, 60 Hz 460 VΔ	**3**	**4**	**–**	□	□	□	□	□	□	□	□			
50 Hz 500 VY	**2**	**7**	**–**	○	○	○	○	○	○	○	○			
50 Hz 500 VΔ	**4**	**0**	**–**	○	32.10	–	–	○	○	○	○			
50 Hz 220 VΔ/380 VY, 60 Hz 440 VY	**2**	**1**	**–**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
50 Hz 380 VΔ/660 VY, 60 Hz 440 VΔ	**3**	**3**	**–**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
50 Hz 240 VΔ/415 VY, 60 Hz 480 VY	**2**	**3**	**–**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
50 Hz 415 VΔ, 60 Hz 480 VΔ	**3**	**5**	**–**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
50 Hz 400 VY, 60 Hz 460 VY [1]	**0**	**2**	**–**	○	○	○	○	○	○	○	○			
50 Hz 400 VΔ, 60 Hz 460 VΔ [2]	**0**	**4**	**–**	○	○	○	○	○	○	○	○			
60 Hz 220 VΔ/380 VY	**1**	**7**	**–**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–	Not for:	1MB10.2	
60 Hz 230 VΔ/400 VY	**1**	**8**	**–**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–	Not for:	1MB10.2	
60 Hz 380 VΔ/660 VY	**3**	**0**	**–**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–	Not for:	1MB10.2	
60 Hz 400 VΔ/690 VY	**3**	**1**	**–**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–	Not for:	1MB10.2	
50 Hz 400 VY	**9**	**0**	**M4A**	○	○	○	○	○	○	○	○			
50 Hz 400 VΔ	**9**	**0**	**M4B**	○	○	○	○	○	○	○	○			
Voltage at 60 Hz (50 Hz power)														
220 VΔ/380 VY; 50 Hz power [3]	**9**	**0**	**M2A**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
220 VΔ/380 VY; 60 Hz power	**9**	**0**	**M1A**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
380 VΔ/660 VY; 50 Hz power [3]	**9**	**0**	**M2B**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
380 VΔ/660 VY; 60 Hz power	**9**	**0**	**M1B**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
440 VY; 50 Hz power [3]	**9**	**0**	**M2C**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
440 VY; 60 Hz power	**9**	**0**	**M1C**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
440 VΔ; 50 Hz power [3]	**9**	**0**	**M2D**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
440 VΔ; 60 Hz power	**9**	**0**	**M1D**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
460 VY; 50 Hz power [3]	**9**	**0**	**M2E**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
460 VY; 60 Hz power	**9**	**0**	**M1E**	○	○	○	○	○	○	○	○			
460 VΔ; 50 Hz power [3]	**9**	**0**	**M2F**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
460 VΔ; 60 Hz power	**9**	**0**	**M1F**	○	○	○	○	○	○	○	○			
575 VY; 50 Hz power [3]	**9**	**0**	**M2G**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
575 VY; 60 Hz power	**9**	**0**	**M1G**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
575 VΔ; 50 Hz power [3]	**9**	**0**	**M2H**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
575 VΔ; 60 Hz power	**9**	**0**	**M1H**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
400 VΔ/690 VY; 50 Hz power	**9**	**0**	**M2J**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
400 VΔ/690 VY; 60 Hz power	**9**	**0**	**M1J**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
480 VY; 50 Hz power	**9**	**0**	**M2K**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
480 VY; 60 Hz power	**9**	**0**	**M1K**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
480 VΔ; 50 Hz power	**9**	**0**	**M2L**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
480 VΔ; 60 Hz power	**9**	**0**	**M1L**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
230 VΔ/400 VY; 50 Hz power	**9**	**0**	**M2M**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
230 VΔ/400 VY; 60 Hz power	**9**	**0**	**M1M**	28.60	32.10	36.40	42.60	52.90	64.–	82.10	101.–			
Voltage at 87 Hz (87 Hz power)														
400 VΔ [5]	**9**	**0**	**M3A**	28.60	32.10	○	○	○	○	○	○			
Non-standard voltage and/or frequencies														
Non-standard winding [4]	**9**	**0**	**M1Y** • and customer specifications	57.70	64.90	72.90	85.80	106.–	129.–	164.–	204.–			

□ Standard version
○ Without additional charge
– Not possible
• This order code only determines the price of the version – additional plain text is required.

1) Delta connection is not possible.

2) Star connection is not possible.

3) A power of 3.7 kW is stamped on the rating plate for versions 1MB1... - 1BA2, 1MB1... - 1BB2, 1MB1... - 1CC2 and 1MB1... - 1DD2 at 60 Hz with 50 Hz power in accordance with the international efficiency classification to IEC 60034-30.

4) Plain text must be specified in the order: Voltage between 200 and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated power in kW.

5) Only possible for 4-pole, 6-pole and 8-pole motors with order codes **B40** and **B41**. The operating data for converter operation is provided in a table on the rating plate. Motor has 50 Hz 230 VΔ winding.

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Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version: IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3	IE2
				1MB15.3 Basic Line																
							1MB16.3 Performance Line													
				1MB15.1 Basic Line																
							1MB16.1 Performance Line													
1MB15 . . - . . . . ■ - ■ .																				
1MB16 . . - . . . . ■ - ■ .			Order code																	
Voltage at 50 Hz or 60 Hz																				
50 Hz 230 VΔ/400 VY, 60 Hz 460 VY	**2**	**2**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□				
50 Hz 400 VΔ/690 VY, 60 Hz 460 VΔ	**3**	**4**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□				
50 Hz 400 VY, 60 Hz 460 VY [1]	**0**	**2**	**–**	○	○	○	○	○	○	○	○	○	○	○	○	○				
50 Hz 400 VΔ, 60 Hz 460 VΔ [2]	**0**	**4**	**–**	○	○	○	○	○	○	○	○	○	○	○	○	○				
50 Hz 500 VY	**2**	**7**	**–**	○	○	○	○	○	○	○	○	○	○	○	○	○				
50 Hz 500 VΔ	**4**	**0**	**–**	–	–	–	○	○	○	○	○	○	○	○	○	○				
50 Hz 220 VΔ/380 VY, 60 Hz 440 VY	**2**	**1**	**–**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
50 Hz 380 VΔ/660 VY, 60 Hz 440 VΔ	**3**	**3**	**–**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
50 Hz 240 VΔ/415 VY, 60 Hz 480 VY	**2**	**3**	**–**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
50 Hz 415 VΔ, 60 Hz 480 VΔ	**3**	**5**	**–**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
60 Hz 220 VΔ/380 VY	**1**	**7**	**–**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
60 Hz 230 VΔ/400 VY	**1**	**8**	**–**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
60 Hz 380 VΔ/660 VY	**3**	**0**	**–**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	136.–	136.–	136.–	136.–	136.–				
60 Hz 400 VΔ/690 VY	**3**	**1**	**–**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	136.–	136.–	136.–	136.–	136.–				
50 Hz 400 VY	**9**	**0**	**M4A**	○	○	○	○	○	○	○	○	○	○	○	○	○				
50 Hz 400 VΔ	**9**	**0**	**M4B**	○	○	○	○	○	○	○	○	○	○	○	○	○				
Voltage at 60 Hz and required power																				
220 VΔ/380 VY; 50 Hz power [3]	**9**	**0**	**M2A**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
220 VΔ/380 VY; 60 Hz power	**9**	**0**	**M1A**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
380 VΔ/660 VY; 50 Hz power [3]	**9**	**0**	**M2B**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
380 VΔ/660 VY; 60 Hz power	**9**	**0**	**M1B**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
440 VY; 50 Hz power [3]	**9**	**0**	**M2C**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
440 VY; 60 Hz power	**9**	**0**	**M1C**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
440 VΔ; 50 Hz power [3]	**9**	**0**	**M2D**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
440 VΔ; 60 Hz power	**9**	**0**	**M1D**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
460 VY; 50 Hz power [3]	**9**	**0**	**M2E**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
460 VY; 60 Hz power	**9**	**0**	**M1E**	–	–	–	○	○	○	○	○	○	○	○	○	○				
460 VΔ; 50 Hz power [3]	**9**	**0**	**M2F**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
460 VΔ; 60 Hz power	**9**	**0**	**M1F**	–	–	–	○	○	○	○	○	○	○	○	○	○				
575 VY; 50 Hz power [3]	**9**	**0**	**M2G**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
575 VY; 60 Hz power	**9**	**0**	**M1G**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
575 VΔ; 50 Hz power [3]	**9**	**0**	**M2H**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
575 VΔ; 60 Hz power	**9**	**0**	**M1H**	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
400 VΔ/690 VY; 50 Hz power	**9**	**0**	**M2J**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
400 VΔ/690 VY; 60 Hz power	**9**	**0**	**M1J**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
480 VY; 50 Hz power	**9**	**0**	**M2K**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
480 VY; 60 Hz power	**9**	**0**	**M1K**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
480 VΔ; 50 Hz power	**9**	**0**	**M2L**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
480 VΔ; 60 Hz power	**9**	**0**	**M1L**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
230 VΔ/400 VY; 50 Hz power	**9**	**0**	**M2M**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
230 VΔ/400 VY; 60 Hz power	**9**	**0**	**M1M**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–				
Voltage at 87 Hz (87 Hz power)																				
400 VΔ [5]	**9**	**0**	**M3A**	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	–	–	–	–				
Non-standard voltage and/or frequencies																				
Non-standard winding [4]	**9**	**0**	**M1Y** • and customer specifications	64.30	72.90	85.80	106.–	129.–	164.–	204.–	263.–	320.–	474.–	597.–	764.–	993.–				

□ Standard version
○ Without additional charge
– Not possible
• This order code only determines the price of the version – additional plain text is required.

1) Delta connection is not possible.

2) Star connection is not possible.

3) A power of 3.7 kW is stamped on the rating plate for versions 1MB1... - 1BA2, 1MB1... - 1BB2, 1MB1... - 1CC2 and 1MB1... - 1DD2 at 60 Hz with 50 Hz power in accordance with the international efficiency classification to IEC 60034-30.

4) Plain text must be specified in the order: Voltage between 200 and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated power in kW.

5) Only possible for 4-pole, 6-pole and 8-pole motors with order codes **B40** and **B41**. The operating data for converter operation is provided in a table on the rating plate. Motor has 50 Hz 230 VΔ winding.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size: 63	71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version: IEC	Ex eb (zone 1)	IE3
				1MB1042																
				1MB1543 Basic Line																
								1MB1643 Performance Line												
														1MB5543 Basic Line						
														1MB5643 Performance Line						
1MB1042 - . . . . ■ - ■ .																				
1MB . 5 . . - . . . . ■ - ■ .																				
1MB . 6 . . - . . . . ■ - ■ .			Order code																	
Voltage at 50 Hz (50 Hz power) [3]																				
50 Hz 230 VΔ/400 VY	**2**	**2**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	–			
50 Hz 400 VΔ/690 VY	**3**	**4**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
50 Hz 500 VY [1]	**2**	**7**	**–**	○	○	○	○	○	○	○	○	○	○	○	○	○	–			
50 Hz 500 VΔ [1] [2]	**4**	**0**	**–**	–	–	–	–	○	○	○	○	○	○	○	○	○	○			
50 Hz 220 VΔ/380 VY	**2**	**1**	**–**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	–	–	–	–			
50 Hz 230 VΔ	**0**	**1**	**–**	○	○	○	○	○	○	○	○	○	○	–	–	–	–			
50 Hz 380 VΔ/660 VYΔ	**3**	**3**	**–**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–			
50 Hz 415 VY [1] [2]	**2**	**3**	**–**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–			
50 Hz 415 VΔ	**3**	**5**	**–**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–			
50 Hz 400 VY	**9**	**0**	**M4A**	○	○	○	○	○	○	○	○	○	○	○	○	○	–			
50 Hz 400 VΔ	**9**	**0**	**M4B**	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
Voltage at 60 Hz and 50 Hz power [2] [5]																				
220 VΔ/380 VY; 50 Hz power	**9**	**0**	**M2A**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–			
380 VΔ/660 VY; 50 Hz power [3] [4]	**9**	**0**	**M2B**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–			
440 VY; 50 Hz power	**9**	**0**	**M2C**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–			
440 VΔ; 50 Hz power	**9**	**0**	**M2D**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–			
460 VY; 50 Hz power [4]	**9**	**0**	**M2E**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–			
460 VΔ; 50 Hz power	**9**	**0**	**M2F**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–			
575 VY; 50 Hz power [3] [4]	**9**	**0**	**M2G**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–			
575 VΔ; 50 Hz power	**9**	**0**	**M2H**	27.50	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–			
Non-standard voltage and/or frequencies [5]																				
Non-standard winding [3]	**9**	**0**	**M1Y** • and customer specifications	54.70	64.30	72.90	85.80	106.–	129.–	164.–	204.–	263.–	320.–	474.–	597.–	764.–	993.–			

□ Standard version
○ Without additional charge
– Not possible
• This order code only determines the price of the version – additional plain text is required.

[1] Not possible for 1MB1042-0BB2 (frame size 63, 4-pole)

[2] Special certification is required for 60 Hz.

[3] Plain text must be specified in the order:
Voltage between 200 V and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated power in kW.

[4] Not possible for 1MB1042-0BA2, 1MB1042-0BB2 and 1MB1042-0BB3 (frame size 63, 4-pole)

[5] Motors in these frame sizes have a second rating plate (T1/T2 and T3) as standard.
The T3 power is stamped on the rating plate as standard if the following motors are selected with PTC thermistor (protection by PTC thermistor only) or voltage code "**90**":
- 2-pole motors: Frame sizes 132 to 160
- 4-pole motors: Frame size 180
Alternatively, with order code **B33**, the "T1/T2 power is stamped on the rating plate".
- 2-pole motors: Frame sizes 132 to 200
- 4-pole motors: Frame sizes 180 to 200

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Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315	355	Motor version: IEC	Ex db, Ex db eb (zone 1)	IE3
				1MB15.3, 1MB15.6, 1MB15.7																
																1MB5553, 1MB5555, 1MB5556, 1MB5557				
							1MB1853													
																1MB5853				
1MB1 . . . - . . . . ■ - ■ .																				
1MB5 . 5 . - . . . . ■ - ■ .			Order code																	
Voltage at 50 Hz or 60 Hz																				
50 Hz 230 VΔ/400 VY, 60 Hz 460 VY	2	2	–	□	□	□	□	□	□	□	□	□	□	□	□	–	–			
50 Hz 400 VΔ/690 VY, 60 Hz 460 VΔ	3	4	–	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
50 Hz 500 VY	2	7	–	○	○	○	○	○	○	○	○	○	○	○	○	–	–			
50 Hz 500 VΔ	4	0	–	–	–	–	○	○	○	○	○	○	○	○	○	○	○			
50 Hz 220 VΔ/380 VY, 60 Hz 440 VY	2	1	–	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–	–			
50 Hz 380 VΔ/660 VY, 60 Hz 440 VΔ	3	3	–	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–	618.–			
50 Hz 240 VΔ/415 VY, 60 Hz 480 VY	2	3	–	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–	–			
50 Hz 415 VΔ, 60 Hz 480 VΔ	3	5	–	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–	618.–			
50 Hz 400 VY	9	0	M4A	○	○	○	○	○	○	○	○	○	○	○	○	–	–			
50 Hz 400 VΔ	9	0	M4B	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
50 Hz 690 VY	9	0	M4E	–	–	–	○	○	○	○	○	○	○	○	○	○	○			
50 Hz 690 VΔ	9	0	M4F	–	–	–	○	○	○	○	○	○	○	○	○	○	○			
50 Hz 230 VY	0	1	–	○	○	○	○	○	○	○	○	○	○	○	○	–	–			
50 Hz 400 VY [1]	0	2	–	○	○	○	○	○	○	○	○	○	○	○	○	–	–			
50 Hz 400 VΔ [2]	0	4	–	○	○	○	○	○	○	○	○	○	–	–	–	–	–			
Voltage at 60 Hz and required power																				
220 VΔ/380 VY; 50 Hz power [3] [6]	9	0	M2A	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–	–			
380 VΔ/660 VY; 50 Hz power [3] [6]	9	0	M2B	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–	618.–			
440 VY; 50 Hz power [3] [6]	9	0	M2C	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–	–			
440 VΔ; 50 Hz power [3] [6]	9	0	M2D	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–	618.–			
460 VY; 50 Hz power [3] [6]	9	0	M2E	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–	–			
460 VΔ; 50 Hz power [3] [6]	9	0	M2F	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–	618.–			
575 VY; 50 Hz power [3] [6]	9	0	M2G	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	–	–			
575 VΔ; 50 Hz power [3] [6]	9	0	M2H	–	–	–	52.90	64.–	82.10	101.–	136.–	156.–	211.–	241.–	311.–	404.–	618.–			
Voltage at 78 Hz (78 Hz power)																				
400 VΔ; 78 Hz power [5]	9	0	M3A	32.10	36.40	42.60	52.90	64.–	82.10	101.–	136.–	156.–	–	–	–	–	–			
Non-standard voltage and/or frequencies																				
Non-standard winding [4]	9	0	M1Y • and customer specifications	64.30	72.90	85.80	106.–	129.–	164.–	204.–	263.–	320.–	474.–	597.–	764.–	993.–	1130.–			

□ Standard version
○ Without additional charge
– Not possible
• This order code only determines the price of the version – additional plain text is required.

1) Delta connection is not possible.
2) Star connection is not possible.
3) Power at 60 Hz as specified in the selection and ordering data of the basic motor.
4) Plain text must be specified in the order: Voltage between 200 and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated power in kW.
5) Only possible for 4-, 6- and 8-pole motors and in connection with the order codes B43 and B44. The operating data for converter operation are given in a table on the additional rating plate. Engine has Winding version 50 Hz 230 VΔ.
6) A power of 3.7 kW is stamped on the rating plate for versions 1MB1... - 1BA2, 1MB1... - 1BB2, 1MB1... - 1CC2 and 1MB1... - 1DD2 at 60 Hz with 50 Hz power in accordance with the international efficiency classification to IEC 60034-30.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size: 315	355	400, 450 $P_N \leq 630$ kW	400, 450 $P_N > 630$ kW	Motor version: IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE4 / IE3
				1MB5514, 1MB5524, 1MB5534						
				1MB5513, 1MB5523, 1MB5533						
						1MB5813, 1MB5823, 1MB5833				
1MB55 . 4 - . . . . ■ - ■ .										
1MB55 . 3 - . . . . ■ - ■ .										
1MB58 . 3 - . . . . ■ - ■ .			Order code							
Voltage at 50 Hz or 60 Hz										
50 Hz 230 VΔ/400 VY, 60 Hz 460 VY	3	4	–	□	□	□	O. R.			
50 Hz 500 VΔ	4	0	–	○	○	○	○			
60 Hz 575 VΔ [1]				–	–	○	□			
50 Hz 690 VΔ	4	7	–	206.–	206.–	210.–	210.–			
50 Hz 380 VΔ/660 VY, 60 Hz 440 VΔ	3	3	–	404.–	618.–	412.–	412.–			
50 Hz 415 VΔ, 60 Hz 480 VΔ	3	5	–	404.–	618.–	412.–	412.–			
50 Hz 600 VΔ, 60 Hz 690 VΔ	4	4	–	–	–	894.–	894.–			
50 Hz 660 VΔ	4	6	–	–	–	894.–	894.–			
Voltage at 50 Hz and required power										
50 Hz 400 VΔ	9	0	M4B	O. R.	O. R.	O. R.	O. R.			
Voltage at 60 Hz and required power										
440 VΔ; 60 Hz power	9	0	M1D	404.–	618.–	850.–	979.–			
460 VΔ; 60 Hz power	9	0	M1F	404.–	618.–	876.–	979.–			
575 VΔ; 60 Hz power	9	0	M1H	404.–	618.–	894.–	999.–			
400 VΔ/690 VY; 60 Hz power	9	0	M1J	–	–	894.–	999.–			
480 VΔ; 60 Hz power	9	0	M1L	404.–	618.–	894.–	999.–			
440 VΔ; 50 Hz power	9	0	M2D	404.–	618.–	876.–	876.–			
460 VΔ; 50 Hz power	9	0	M2F	404.–	618.–	894.–	894.–			
575 VΔ; 50 Hz power	9	0	M2H	404.–	618.–	894.–	894.–			
400 VΔ/690 VY; 50 Hz power	9	0	M2J	–	–	894.–	999.–			
480 VΔ; 50 Hz power	9	0	M2L	404.–	618.–	894.–	999.–			
Non-standard voltage and/or frequencies										
Non-standard winding [2]	9	0	M1Y • and customer specifications	993.–	1130.–	4930.–	5790.–			

□ Standard version
○ Without additional charge
O. R. Possibile on request
– Not possible

• This order code only determines the price of the version – additional plain text is required.

[1] 2-pole version shaft height 450 for 60 Hz operation on request.

[2] Plain text must be specified in the order: Voltage between 380 and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated power in kW.

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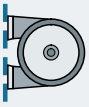
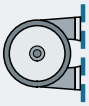
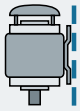
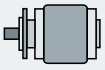
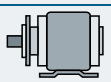
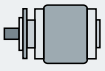
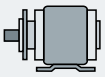
Selection and ordering data

Types of construction		Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 63	71	80	90	100	112	132	160	Motor version
						1MB10.3						IEC Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2) IE3
				1MB10.1								IE2
								1MB10.2				IE1
1MB10 . . - . . . . . - . ■ . . (-Z)			Order code									
Without flange												
IM B3		**A**	**–**	□	□	□	□	□	□	□	□	
IM B6 [1]		**T**	**–**	□	□	□	□	□	□	□	□	
IM B7 [1]		**U**	**–**	□	□	□	□	□	□	□	□	
IM B8 [1]		**V**	**–**	□	□	□	□	□	□	□	□	
IM V6 [1]		**D**	**–**	□	□	□	□	□	□	□	□	
IM V5 with protective cover [1] [2]		**C**	**H00**	55.60	55.60	55.60	55.60	80.80	80.80	141.–	141.–	
With flange		**EN 50347 DIN 42948**		**FF115 A 140**	**FF130 A 160**	**FF165 A 200**	**FF165 A 200**	**FF215 A 250**	**FF215 A 250**	**FF265 A 300**	**FF300 A 350**	
IM B5		**F**	**–**	42.60	47.30	53.70	64.40	79.70	99.–	129.–	167.–	
IM V1 with protective cover [1] [2]		**G**	**H00**	98.20	102.90	109.30	109.30	145.20	160.50	240.–	270.–	
IM V3 [1]		**H**	**–**	42.60	47.30	53.70	64.40	79.70	99.–	129.–	167.–	
IM B35		**J**	**–**	48.–	52.–	56.70	67.–	87.60	108.–	134.–	185.–	
With flange next larger		**EN 50347 DIN 42948**		**–** **–**	**–** **–**	**–** **–**	**FF215 A 250**	**FF265 A 300**	**FF265 A 300**	**FF300 A 350**	**–** **–**	
IM B5		**F**	**P01**	–	–	–	111.20	126.50	145.8	187.40	–	
IM V1 with protective cover [1] [2]		**G**	**P01+H00**	–	–	–	166.80	207.30	226.60	328.40	–	
IM V3 [1]		**H**	**P01**	–	–	–	111.20	126.50	145.8	187.40	–	
IM B35		**J**	**P01**	–	–	–	113.80	134.40	154.80	192.40	–	

For legends and footnotes, see Page 4/47.

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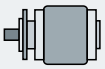
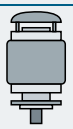
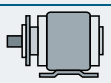
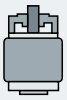
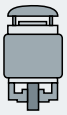
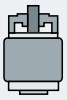
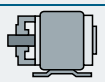
SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Types of construction · Aluminum series 1MB10

Types of construction		Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size								Motor version		
				63	71	80	90	100	112	132	160			
						1MB10.3						IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3
				1MB10.1										IE2
								1MB10.2						IE1
1MB10 . . - . . . . . - . ■ . . (-Z)			Order code											
With flange next smaller		**EN 50347 DIN 42948**		**FF100 A 120**	**FF115 A 140**	**FF130 A 160**	**– –**	**FF165 A 200**	**FF165 A 200**	**FF215 A 250**	**– –**			
IM B5		**F**	**P02**	137.60	152.30	183.70	–	264.40	319.70	409.–	–			
IM V1 with protective cover [1) 2)]		**G**	**P02+H00**	193.20	207.90	239.30	–	320.–	400.50	489.80	–			
IM V3 [1)]		**H**	**P02**	137.60	152.30	183.70	–	264.40	319.70	409.–	–			
IM B35		**J**	**P02**	143.–	157.–	186.70	–	267.–	327.60	418.–	–			
With flange		**EN 50347 DIN 42948**		**FT75 C 90**	**FT85 C 105**	**FT100 C 120**	**FT115 C 140**	**FT130 C 160**	**FT130 C 160**	**FT165 C 200**	**FT215 C 250**			
IM B14 [1)]		**K**	**–**	42.60	47.30	53.70	64.40	79.70	99.–	129.–	167.–			
IM V19 [1)]		**L**	**–**	42.60	47.30	53.70	64.40	79.70	99.–	129.–	167.–			
IM V18 with protective cover [1) 2)]		**M**	**H00**	98.20	102.90	164.60	175.60	240.80	260.80	411.–	449.–			
IM B34		**N**	**–**	42.60	47.30	56.70	67.–	87.60	108.–	134.–	185.–			
With special flange next larger		**EN 50347 DIN 42948**		**FT100 C 120**	**FT115 C 140**	**FT130 C 160**	**FT130 C 160**	**FT165 C 200**	**FT165 C 200**	**FT215 C 250**	**– –**			
IM B14 [1)]		**K**	**P01**	89.40	94.10	100.50	111.20	126.50	145.80	187.40	–			
IM V19 [1)]		**L**	**P01**	89.40	94.10	100.50	111.20	126.50	145.80	187.40	–			
IM V18 with protective cover [1) 2)]		**M**	**P01+H00**	145.–	149.70	155.80	166.80	206.80	226.80	328.40	–			
IM B34		**N**	**P01**	89.40	94.10	103.50	113.80	134.40	154.80	192.40	–			

For legends and footnotes, see Page 4/47.

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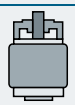
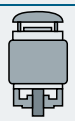
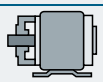
Types of construction		Article No. supplement		Frame size								Motor version		
		Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**63**	**71**	**80**	**90**	**100**	**112**	**132**	**160**			
						1MB10.3						IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3
				1MB10.1										IE2
								1MB10.2						IE1
1MB10 . . - . . . . . - . ■ . . (-Z)			Order code											
With special flange next larger		**EN 50347 DIN 42948**		**FT65 C 80**	**FT75 C 90**	– –	– –	**FT115 C 140**	– –	– –	– –			
IM B14 [1]		**K**	**P02**	137.60	152.30	–	–	279.70	–	–	–			
IM V19 [1]		**L**	**P02**	137.60	152.30	–	–	279.70	–	–	–			
IM V18 with protective cover [1] [2]		**M**	**P02+H00**	193.20	207.90	–	–	440.80	–	–	–			
IM B34		**N**	**P02**	137.60	152.30	–	–	287.60	–	–	–			

□ Standard version
– Not possible

4

[1] For explosion-proof motors: For types of construction with shaft extension down, the version “with protective cover” is required. For types of construction with shaft extension pointing upwards, a suitable cover must be implemented to prevent small parts from falling into the fan cover (see the standard IEC/EN 60079-0). The cover must not block the cooling air flow.

[2] The “Standard cylindrical shaft extension (second shaft extension)” option (order code **L05**) is not possible.

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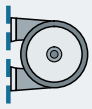
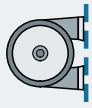
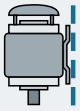
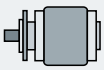
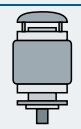
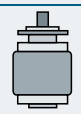
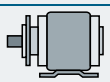
Selection and ordering data

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	Article No. supplement: For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L	Motor version: IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3 / IE2
			1MB15.3 Basic Line																
						1MB16.3 Performance Line													
			1MB15.1 Basic Line																
						1MB16.1 Performance Line													
1MB15 . . - . . . . . - . ■ **. . (-Z)**																			
1MB16 . . - . . . . . - . ■ **. . (-Z)**		Order code																	
Without flange																			
IM B3 	**A**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM B6 1) 	**T**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM B7 1) 	**U**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM B8 1) 	**V**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM V6 1) 	**D**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM V5 with protective cover 1) 2) 	**C**	**H00**	56.–	56.–	56.–	80.80	80.80	141.–	141.–	188.–	283.–	375.–	469.–	562.–	751.–	751.–			
With flange	**EN 50347 DIN 42948**		FF130 A 160	FF165 A 200	FF165 A 200	FF215 A 250	FF215 A 250	FF265 A 300	FF300 A 350	FF300 A 350	FF350 A 400	FF400 A 450	FF500 A 550	FF500 A 550	FF600 A 660	FF600 A 660			
IM B5 	**F**	**–**	47.30	53.70	64.40	79.70	99.–	129.–	167.–	264.–	320.–	414.–	497.–	724.–	1030.–	–			
IM V1 with protective cover 1) 2) 	**G**	**H00**	103.30	109.70	120.40	160.50	179.80	270.–	308.–	638.–	885.–	1166.–	1444.–	1852.–	2541.–	2971.–			
IM V3 1) 	**H**	**–**	47.30	53.70	64.40	79.70	99.–	129.–	167.–	264.–	320.–	414.–	497.–	724.–	1030.–	–			
IM B35 1) 	**J**	**–**	51.50	56.70	67.–	87.60	108.–	134.–	185.–	309.–	412.–	515.–	721.–	927.–	1180.–	1180.–			

For legends and footnotes, see Page 4/50.

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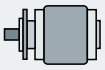
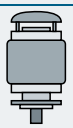
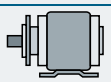
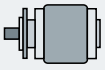
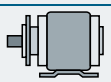
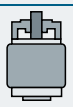
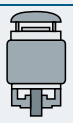
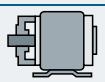
Types of construction		Article No. supplement: Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L	Motor version: IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3 / IE2
				1MB15.3 Basic Line																
							1MB16.3 Performance Line													
				1MB15.1 Basic Line																
							1MB16.1 Performance Line													
1MB15 . . - . . . . . - . ■ . . (-Z)																				
1MB16 . . - . . . . . - . ■ . . (-Z)			Order code																	
With flange		**EN 50347 DIN 42948**		– –	– –	FF215 A 250	FF265 A 300	FF265 A 300	FF300 A 350	– –	– –	– –	– –	– –	– –	– –	– –			
IM B5		**F**	**P01**	–	–	111.20	126.50	145.80	187.40	–	–	–	–	–	–	–	–			
IM V1 with protective cover 1) 2)		**G**	**P01**	–	–	167.20	207.30	226.60	328.40	–	–	–	–	–	–	–	–			
IM V3 1)		**H**	**P01+ H00**	–	–	111.20	126.50	145.80	187.40	–	–	–	–	–	–	–	–			
IM B35 1)		**J**	**P01**	–	–	113.80	134.40	154.80	192.40	–	–	–	–	–	–	–	–			
With flange		**EN 50347 DIN 42948**		– –	FF165 A 200	– –	FF215 A 250	FF215 A 250	FF265 A 300	FF300 A 350	FF300 A 350	FF350 A 400	– –	– –	– –	– –	– –			
IM B5		**F**	**P02**	–	183.70	–	279.70	339.–	439.–	567.–	904.–	1100.–	–	–	–	–	–			
IM V1 with protective cover 1) 2)		**G**	**P02**	–	139.70	–	360.50	479.80	580.–	708.–	1278.–	1665.–	–	–	–	–	–			
IM V3 1)		**H**	**P02+H00**	–	183.70	–	279.70	339.–	439.–	567.–	904.–	1100.–	–	–	–	–	–			
IM B35 1)		**J**	**P02**	–	186.70	–	287.60	348.–	444.–	585.–	949.–	1192.–	–	–	–	–	–			
With flange		**EN 50347 DIN 42948**		FT85 C 105	FT100 C 120	FT115 C 140	FT130 C 160	FT130 C 160	FT165 C 200	FT215 C 250	– –	– –	– –	– –	– –	– –	– –			
IM B14 1)		**K**	**–**	47.30	53.70	64.40	79.70	99.–	129.–	167.–	–	–	–	–	–	–	–			
IM V19 1)		**L**	**–**	53.70	53.70	64.40	79.70	99.–	129.–	167.–	–	–	–	–	–	–	–			
IM V18 with protective cover 1) 2)		**M**	**H00**	109.70	109.70	120.40	240.80	260.80	411.–	453.–	–	–	–	–	–	–	–			
IM B34		**N**	**–**	51.50	56.70	67.–	87.60	108.–	134.–	185.–	–	–	–	–	–	–	–			

For legends and footnotes, see Page 4/50.

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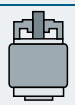
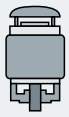
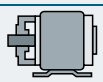
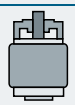
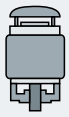
SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Types of construction · Cast-iron series 1MB15 Basic Line, 1MB16 Performance Line

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L	Motor version: IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3	IE2
			1MB15.3 Basic Line																	
						1MB16.3 Performance Line														
			1MB15.1 Basic Line																	
						1MB16.1 Performance Line														
1MB15 . . - . . . . . - . ■ **. . (-Z)**																				
1MB16 . . - . . . . . - . ■ **. . (-Z)**		Order code																		
With special flange next larger	**EN 50347 DIN 42948**		FT115 C 140	FT130 C 160	FT130 C 160	FT165 C 200	FT165 C 200	FT215 C 250	– –	– –	– –	– –	– –	– –	– –	– –				
IM B14  1)	**K**	**P01**	94.10	100.50	111.20	126.50	145.80	187.40	–	–	–	–	–	–	–	–				
IM V19  1)	**L**	**P01**	100.50	100.50	111.20	126.50	145.80	187.40	–	–	–	–	–	–	–	–				
IM V18 with protective cover  1) 2)	**M**	**P01+H00**	156.50	156.50	167.20	287.60	307.60	469.40	–	–	–	–	–	–	–	–				
IM B34 	**N**	**P01**	98.30	103.50	113.80	134.40	154.80	192.40	–	–	–	–	–	–	–	–				
With special flange next smaller	**EN 50347 DIN 42948**		– –	– –	– –	FT115 C 140	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –				
IM B14  1)	**K**	**P02**	–	–	–	279.70	–	–	–	–	–	–	–	–	–	–				
IM V19  1)	**L**	**P02**	–	–	–	279.70	–	–	–	–	–	–	–	–	–	–				
IM V18 with protective cover  1) 2)	**M**	**P02+H00**	–	–	–	440.80	–	–	–	–	–	–	–	–	–	–				
IM B34 	**N**	**P02**	–	–	–	287.60	–	–	–	–	–	–	–	–	–	–				

■ Standard version
– Not possible

1) For explosion-proof motors: For types of construction with shaft extension down, the version “with protective cover” is required. For types of construction with shaft extension pointing upwards, a suitable cover must be implemented to prevent small parts from falling into the fan cover (see the standard IEC/EN 60079-0). The cover must not block the cooling air flow.

2) The “Standard cylindrical shaft extension (second shaft extension)” option (order code **L05**) is not possible.

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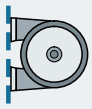
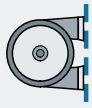
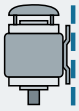
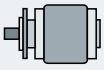
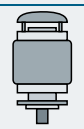
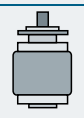
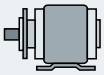
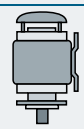
Selection and ordering data

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 63	71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L	Motor version: IEC	Ex eb (zone 1)	IE3
			1MB1042																	
			1MB1543 Basic Line																	
			1MB1643 Performance Line																	
1MB1042 - . . . . . - . ■ . . (-Z)																1MB5543 Basic Line				
1MB . 5 . . - . . . . . - . ■ . . (-Z)																1MB5643 Performance Line				
1MB . 6 . . - . . . . . - . ■ . . (-Z)		Order code																		
Without flange																				
IM B3 2) 	**A**	–	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM B6 1) 2) 	**T**	–	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM B7 1) 2) 	**U**	–	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM B8 1) 2) 	**V**	–	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM V6 1) 2) 	**D**	–	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM V5 with protective cover 1) 2) 	**C**	**H00**	55.60	55.60	55.60	55.60	80.80	80.80	141.–	141.–	188.–	283.–	375.–	469.–	562.–	751.–	751.–			
With flange	**DIN EN 50347 DIN 42948**		FF115 A 140	FF130 A 160	FF165 A 200	FF165 A 200	FF215 A 250	FF215 A 250	FF265 A 300	FF300 A 350	FF300 A 350	FF350 A 400	FF400 A 450	FF500 A 550	FF500 A 550	FF600 A 660	– A 660			
IM B5 2) 	**F**	–	47.30	47.30	53.70	64.40	79.70	99.–	129.–	167.–	264.–	320.–	414.–	497.–	724.–	1030.–	–			
IM V1 with protective cover 1) 2) 3) 	**G**	**H00**	102.90	102.90	109.30	120.–	160.50	179.80	270.–	308.–	452.–	603.–	789.–	966.–	1286.–	1781.–	1781.–			
IM V3 1) 2) 	**H**	–	47.30	47.30	53.70	64.40	79.70	99.–	129.–	167.–	264.–	320.–	414.–	497.–	724.–	1030.–	–			
IM B35 1) 2) 	**J**	–	48.40	51.50	56.70	67.–	87.60	108.–	134.–	185.–	309.–	412.–	515.–	721.–	927.–	1180.–	1180.–			
IM V15 with protective cover 1) 2) 	**W**	**H00**	–	162.70	112.30	122.60	168.40	188.80	275.–	326.–	497.–	695.–	890.–	1489.–	1869.–	1869.–	1869.–			

For legends and footnotes, see Page 4/54.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors

Article No. supplements and special versions

Types of construction · Aluminum serie 1MB1024; Cast-iron series 1MB1543, 1MB5543 Basic Line; 1MB1643, 1MB5643 Performance Line

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 63	71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L	Motor version: IEC Ex eb (zone 1) IE3
1MB1042 - . . . . . - . ■ . . (-Z)			1MB1042															
1MB . 5 . . - . . . . . - . ■ . . (-Z)			1MB1543 Basic Line															
1MB . 6 . . - . . . . . - . ■ . . (-Z)							1MB1643 Performance Line											
													1MB5543 Basic Line					
													1MB5643 Performance Line					
		Order code																
With flange next larger	**DIN EN 50347 DIN 42948**		–	–	–	–	FF265 A 300	FF265 A 300	FF300 A 350	FF350 A 400	–	–	–	–	–	–	–	
IM B5 2)	**F**	**P01**	–	–			126.50	145.80	175.80	213.80	–	–	–	–	–	–	–	
IM V1 with protective cover 1) 2) 3)	**G**	**P01+H00**	–	–			207.30	226.60	316.80	354.80	–	–	–	–	–	–	–	
IM V3 1) 2)	**H**	**P01**	–	–			126.50	145.80	175.80	213.80	–	–	–	–	–	–	–	
IM B35 1) 2)	**J**	**P01**	–	–			134.40	154.80	180.80	231.80	–	–	–	–	–	–	–	
IM V15 with protective cover 1) 2)	**W**	**P01+H00**	–	–			215.20	235.60	321.80	372.80	–	–	–	–	–	–	–	
With flange next smaller	**DIN EN 50347 DIN 42948**		–	–	FF130 A 160	–	FF165 A 200	FF165 A 200	FF215 A 250	FF265 A 300	FF265 A 300	FF300 A 350	–	–	–	–	–	
IM B5 2)	**F**	**P02**	–	–	183.70	–	279.70	339.–	439.–	567.–	904.–	1100.–	–	–	–	–	–	
IM V1 with protective cover 1) 2) 3)	**G**	**P02+H00**	–	–	139.30	–	360.50	419.80	580.–	708.–	1092.–	1383.–	–	–	–	–	–	
IM V3 1) 2)	**H**	**P02**	–	–	183.70	–	279.70	339.–	439.–	567.–	904.–	1100.–	–	–	–	–	–	
IM B35 1) 2)	**J**	**P02**	–	–	186.70	–	287.60	348.–	444.–	585.–	949.–	1192.–	–	–	–	–	–	
IM V15 with protective cover 1) 2)	**W**	**P02+H00**	–	–	242.30	–	368.40	428.80	585.–	726.–	1137.–	1475.–	–	–	–	–	–	

For legends and footnotes, see Page 4/54.

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Types of construction · Aluminum serie 1MB1024; Cast-iron series 1MB1543, 1MB5543 Basic Line; 1MB1643, 1MB5643 Performance Line

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 63	71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L	Motor version
			1MB1042															IEC Ex eb (zone 1) IE3
			1MB1543 Basic Line															
							1MB1643 Performance Line											
1MB1042 - . . . . . - . ■ . . (-Z)												1MB5543 Basic Line						
1MB . 5 . . - . . . . . - . ■ . . (-Z)												1MB5643 Performance Line						
1MB . 6 . . - . . . . . - . ■ . . (-Z)		Order code																
With flange	**DIN EN 50347 DIN 42948**		**F75 C 90**	**FT85 C 105**	**FT100 C 120**	**FT115 C 140**	**FT130 C 160**	**FT130 C 160**	**FT165 C 200**	**FT215 C 250**	– –	– –	– –	– –	– –	– –	– –	
IM B14 1) 2)	**K**	**–**	42.60	47.30	53.70	64.40	79.70	99.–	129.–	167.–	–	–	–	–	–	–	–	
IM V19 1) 2)	**L**	**–**	42.60	53.70	53.70	64.40	79.70	99.–	129.–	167.–	–	–	–	–	–	–	–	
IM V18 with protective cover 1) 2) 3)	**M**	**H00**	98.20	102.90	109.30	120.–	160.50	179.80	270.–	308.–	–	–	–	–	–	–	–	
IM B34 1) 2)	**N**	**–**	42.60	51.50	56.70	67.–	87.60	108.–	134.–	185.–	–	–	–	–	–	–	–	
With special flange next larger	**DIN EN 50347 DIN 42948**		**FT100 C 120**	**FT115 C 140**	**FT130 C 160**	**FT130 C 160**	**FT165 C 200**	**FT165 C 200**	**FT215 C 250**	– –	– –	– –	– –	– –	– –	– –	– –	
IM B14 1) 2) 4)	**K**	**P01**	89.40	94.10	100.50	111.20	126.50	157.40	187.40	–	–	–	–	–	–	–	–	
IM V19 1) 2) 4)	**L**	**P01**	89.40	100.50	100.50	111.20	126.50	157.40	187.40	–	–	–	–	–	–	–	–	
IM V18 with protective cover 1) 2) 3) 4)	**M**	**P01+H00**	145.–	149.70	156.10	166.80	207.30	238.20	328.40	–	–	–	–	–	–	–	–	
IM B34 1) 2) 4)	**N**	**P01**	89.40	98.30	103.50	113.80	134.40	166.40	192.40	–	–	–	–	–	–	–	–	

For legends and footnotes, see Page 4/54.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Types of construction · Aluminum serie 1MB1024; Cast-iron series 1MB1543, 1MB5543 Basic Line; 1MB1643, 1MB5643 Performance Line

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 63	71	80	90	100	112	132	160	180	200	225	250	280	315 S/M	315 L	Motor version
			1MB1042															IEC Ex eb (zone 1) IE3
			1MB1543 Basic Line															
							1MB1643 Performance Line											
1MB1042 - . . . . . - . ■ . . (-Z)												1MB5543 Basic Line						
1MB . 5 . . - . . . . . - . ■ . . (-Z)												1MB5643 Performance Line						
1MB . 6 . . - . . . . . - . ■ . . (-Z)		Order code																
With special flange next smaller	**DIN EN 50347 DIN 42948**		– –	– –	– –	– –	FT115 C 140	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	
IM B14 1) 2) 4) 	**K**	**P02**	–	–	–	–	279.70	–	–	–	–	–	–	–	–	–	–	
IM V19 1) 2) 4) 	**L**	**P02**	–	–	–	–	279.70	–	–	–	–	–	–	–	–	–	–	
IM V18 with protective cover 1) 2) 3) 4) 	**M**	**P02+H00**	–	–	–	–	360.50	–	–	–	–	–	–	–	–	–	–	
IM B34 1) 2) 4) 	**N**	**P02**	–	–	–	–	287.60	–	–	–	–	–	–	–	–	–	–	

□ Standard version
– Not possible

1) For explosion-proof motors: For types of construction with shaft extension down, the version "with protective cover" is required. For types of construction with shaft extension pointing upwards, a suitable cover must be implemented to prevent small parts from falling into the fan cover (see the standard IEC/EN 60079-0). The cover must not block the cooling air flow.

2) The type of construction is stamped on the rating plate. For orders with condensation drainage holes (order code H03), if mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly.

3) The "Standard cylindrical shaft extension (second shaft extension)" option (order code **L05**) is not possible.

4) With reference to standard EN 50347, flanges that are 2 steps larger are used with option **P01** in the frame sizes 71 and 80.

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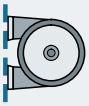
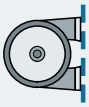
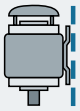
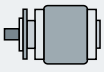
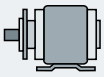
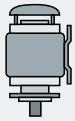
Selection and ordering data

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z: Order code	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315	355	Motor version: IEC	Ex db, Ex db eb (zone 1)	IE3
			1MB15.3, 1MB15.6, 1MB15.7																
															1MB5553, 1MB5555, 1MB5556, 1MB5557				
						1MB1853													
															1MB5853				
1MB1 . . . - . . . . . - . ■ . . (-Z)																			
1MB5 . 5 . - . . . . . - . ■ . . (-Z)		Order code																	
Without flange																			
IM B3 	**A**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
IM B6 1) 	**T**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	–			
IM B7 1) 	**U**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	–			
IM B8 1) 	**V**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	–			
IM V6 1) 3) 	**D**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	–			
IM V5 with protective cover 1) 3) 	**C**	**H00**	55,60	55,60	55,60	80,80	80,80	141,–	141,–	188,–	283,–	375,–	469,–	562,–	751,–	–			
With flange	**DIN EN 50347 DIN 42948**		**FF130 A 160**	**FF165 A 200**	**FF165 A 200**	**FF215 A 250**	**FF215 A 250**	**FF265 A 300**	**FF300 A 350**	**FF300 A 350**	**FF350 A 400**	**FF400 A 450**	**FF500 A 550**	**FF500 A 550**	**FF600 A 660**	**– A 660**			
IM B5 1) 	**F**	**–**	47,30	53,70	64,40	79,70	99,–	129,–	167,–	264,–	320,–	414,–	497,–	724,–	1030,–	–			
IM V1 with protective cover 2) 3) 	**G**	**H00**	102,90	109,30	120,–	160,50	179,80	270,–	308,–	452,–	603,–	789,–	966,–	1286,–	1781,–	2172,–			
IM V3 3) 	**H**	**–**	47,30	53,70	64,40	79,70	99,–	129,–	167,–	264,–	320,–	414,–	497,–	724,–	1030,–	–			
IM B35 	**J**	**–**	51,50	56,70	67,–	87,60	108,–	134,–	185,–	309,–	412,–	515,–	721,–	927,–	1180,–	4330,–			
IM V15 with protective cover 2) 3) 	**W**	**H00**	107,10	72,–	82,30	99,–	130,–	163,–	235,–	356,–	469,–	692,–	942,–	1230,–	1180,–	–			

For legends and footnotes, see Page 4/56.

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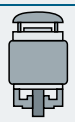
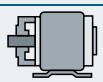
SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Types of construction · Cast-iron series 1MB15.3, 1MB15.6, 1MB15.7, 1MB1853, 1MB5553, 1MB5556, 1MB5557, 1MB5853

Types of construction	Article No. supplement: Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code -Z	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315	355	Motor version
			1MB15.3, 1MB15.6, 1MB15.7														IEC Ex db, Ex db eb (zone 1) IE3
									1MB5553, 1MB5555, 1MB5556, 1MB5557								
						1MB1853											
															1MB5853		
1MB1 . . . - . . . . . - .	■ . . (-Z)																
1MB5 . 5 . - . . . . . - .	■ . . (-Z)	Order code															
With flange	**DIN EN 50347 DIN 42948**		FT85 C 105	FT100 C 120	FT115 C 140	FT130 C 160	FT130 C 160	FT165 C 200	FT215 C 250	– –	– –	– –	– –	– –	– –	– –	
IM B14  3)	K	–	47,30	53,70	64,40	79,70	99,–	129,–	167,–	–	–	–	–	–	–	–	
IM V19  3)	L	–	53,70	53,70	64,40	79,70	99,–	129,–	167,–	–	–	–	–	–	–	–	
IM V18 with protective cover 2) 3) 	M	H00	109,30	109,30	120,–	240,80	260,80	411,–	453,–	–	–	–	–	–	–	–	
IM B34 	N	–	51,50	56,70	67,–	87,60	108,–	134,–	185,–	–	–	–	–	–	–	–	

4

□ Standard version
– Not possible

1) Only possible for frame size 315 S/M (horizontal mounting).

2) The “Standard cylindrical shaft extension (second shaft extension)” option (order code **L05**) is not possible.

3) For explosion-proof motors: For types of construction with shaft extension down, the version “with protective cover” is required. For types of construction with shaft extension pointing upwards, a suitable cover must be implemented to prevent small parts from falling into the fan cover (see the standard IEC/EN 60079-0). The cover must not block the cooling air flow.

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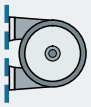
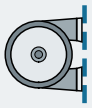
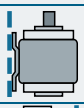
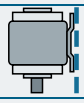
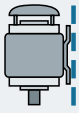
Selection and ordering data

Types of construction		Article No. supplement		Frame size				Motor version		
		Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**315**	**355**	**400**	**450**			
				1MB5514, 1MB5524, 1MB5534				IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE4
				1MB5513, 1MB5523, 1MB5533						IE3
						1MB5813, 1MB5823, 1MB5833				
1MB55 . 4 - . . . . . - . ■ . . (-Z) **1MB55 . 3 - . . . . . - . ■ . . (-Z)** **1MB58 . 3 - . . . . . - . ■ . . (-Z)**			Order code							
Without flange										
IM B3 [1) 2)]		**A**	**–**	□	□	□	□			
IM B6 [1)]		**T**	**–**	○	○	–	–			
IM B7 [3)]		**U**	**–**	○	○	–	–			
IM B8 [3)]		**V**	**–**	○	○	–	–			
IM V6 [2)]		**D**	**–**	○	○	O. R. [6)]	O. R. [6)]			
IM V5 without protective cover [2) 3)]		**C**	**–**	○	○	O. R. [6)]	O. R. [6)]			
IM V5 with protective cover [2) 3) 4) 5)]		**C**	**H00**	751.–	876.–	O. R. [6)]	O. R. [6)]			

For legends and footnotes, see Page 4/58.

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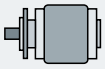
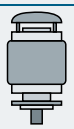
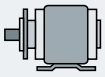
SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Types of construction · Cast-iron series 1MB5514, 1MB5524, 1MB5534, 1MB5.13, 1MB5.23, 1MB5.33

Types of construction	Article No. supplement		Frame size				Motor version		
	Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**315**	**355**	**400**	**450**			
			1MB5514, 1MB5524, 1MB5534				IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE4
			1MB5513, 1MB5523, 1MB5533						IE3
					1MB5813, 1MB5823, 1MB5833				
1MB55 . 4 - . . . . . - . ■ . . (-Z)									
1MB55 . 3 - . . . . . - . ■ . . (-Z)									
1MB58 . 3 - . . . . . - . ■ . . (-Z)		Order code							
With flange	**DIN EN 50347 DIN 42948**		**FF600 A 660**	**FF740 A 800**	**FF940 A 1000**	**FF1080 A 1150**			
IM B5 [2) 7) 8)] 	**F**	**–**	1030.–	4120.–	4300.–	5780.–			
IM V1 without protective cover [2) 3)] 	**G**	**–**	1040.–	4120.–	4300.–	5780.–			
IM V1 with protective cover [2) 3) 4) 5)] 	**G**	**H00**	1791.–	4996.–	6450.–	8350.–			
IM V3 [3)] 	**H**	**–**	1030.–	4120.–	–	–			
IM B35 [4)] 	**J**	**–**	1180.–	4330.–	4520.–	5620.–			

■ Standard version
○ Without additional charge
O. R. Possibile on request
– Not possible

1) The types of construction IM B6/7/8, IM V6, and IM V5 with/without protective cover are also possible as long as there are no condensation drainage holes (order code H03) and these types of construction do not have to be stamped on the rating plate. As standard the type of construction IM B3 is then stamped on the rating plate. With type of construction IM V5 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

2) The type of construction is stamped on the rating plate. For orders with condensation drainage holes (order code **H03**), if mounted in a different position, the position must be specified to ensure that the condensation drainage holes are positioned correctly.

3) The following applies for explosion-proof motors: In the case of the types of construction with shaft extension down, the version "with protective cover" is required. For types of construction with shaft extension pointing upwards, a suitable cover must be implemented to prevent small parts from falling into the fan cover (see the standard IEC/EN 60079-0). The cover must not block the cooling air flow.

4) In combination with an encoder, it is not necessary to order the protective cover (order code **H00**), as this is delivered as a protection for the encoder as standard. In this case the protective cover is standard version (without additional charge).

5) The "Standard cylindrical shaft extension (second shaft extension)" option (order code **L05**)is not possible.

6) Not possible for 2-pole motors.

7) The types of construction IM V3 and IM V1 with/without protective cover are also possible as long as these types of construction do not have to be stamped on the rating plate. As standard the type of construction IM B5 is then stamped on the rating plate. With type of construction IM V1 with protective cover, the protective cover has to be additionally ordered with order code **H00**. The protective cover is not stamped on the rating plate.

8) For machines, type of construction IM B5, provide an additional support foot at the NDE. The support foot is not included in the scope of supply. Use an appropriately sized support foot with the appropriate rigidity. The support foot must be able to support the total weight of the machine.

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Selection and ordering data

Motor protection	Article No. supplement: Motor protection code 15th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	Motor version
					1MB10.3						IEC: Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2): IE3 / IE2 / IE1
			1MB10.1								
							1MB10.2				
1MB10 . . - . . . . . - . . ■ .		Order code									
Motor protection											
Without (Standard)	**A**	–	□	□	□	□	□	□	□	□	
3 PTC thermistors – for tripping (2 terminals) [1]	**B**	–	37.10	38.40	39.70	42.60	117.–	117.–	176.–	176.–	
6 PTC thermistors – for alarm and tripping (4 terminals) [1]	**C**	–	173.–	173.–	173.–	173.–	201.–	201.–	269.–	269.–	
1 temperature sensor KTY84-130 (2 terminals) [1]	**F**	–	103.–	103.–	103.–	103.–	117.–	117.–	176.–	176.–	
2 temperature sensors KTY84-130 (4 terminals) [1]	**G**	–	207.–	207.–	207.–	207.–	236.–	236.–	352.–	352.–	
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals) [1] [2]	**H**	–	–	–	–	–	1480.–	1480.–	1480.–	1480.–	
1 Pt1000 resistance thermometer (2 terminals) [1]	**K**	–	103.–	103.–	103.–	103.–	117.–	117.–	176.–	176.–	
2 Pt1000 resistance thermometers (4 terminals) [1]	**L**	–	207.–	207.–	207.–	207.–	236.–	236.–	352.–	352.–	

□ Standard version
– Not possible

4

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

[2] Order codes **Q02** and **Q03** are not possible for frame sizes 100 to 160 in combination with 15th position of the Article No. "**H**". It can only be supplied with a star or delta winding for direct switch-on (3 terminals).

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Selection and ordering data

Motor protection	Article No. supplement: Motor protection code 15th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size: 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version
			1MB15.3 Basic Line													IEC Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2) IE3
						1MB16.3 Performance Line										
			1MB15.1 Basic Line													IE2
						1MB16.1 Performance Line										
1MB15 . . - . . . . - . .	■ .															
1MB16 . . - . . . . - . .	■ .	Order code														
Motor protection																
Without (Standard)	**A**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: 1MB15.. Basic Line
3 PTC thermistors – for tripping (2 terminals) 1) 2)	**B**	**–**	38.40	39.70	42.60	117.–	117.–	176.–	176.–	234.–	234.–	319.–	319.–	398.–	398.–	
6 PTC thermistors – for alarm and tripping (4 terminals) 2)	**C**	**–**	173.–	173.–	173.–	201.–	201.–	269.–	269.–	413.–	413.–	537.–	537.–	666.–	666.–	Only for: 1MB15.. Basic Line
			–	–	–	□	□	□	□	□	□	□	□	□	□	Only for: 1MB16.. Performance Line
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals) 2) 3)	**H**	**Q60**	1020.–	1020.–	1020.–	1220.–	1220.–	1220.–	1220.–	1480.–	1480.–	1480.–	1640.–	1640.–	1640.–	
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals) 2)	**J**	**Q61**	–	–	–	–	–	–	–	2420.–	2420.–	2420.–	2420.–	2420.–	2420.–	
1 Pt1000 resistance thermometer (2 terminals) 2)	**K**	**–**	103.–	103.–	103.–	117.–	117.–	176.–	176.–	332.–	332.–	454.–	589.–	589.–	868.–	
2 Pt1000 resistance thermometers (4 terminals) 2)	**L**	**–**	206.–	206.–	206.–	236.–	236.–	352.–	352.–	539.–	539.–	741.–	1000.–	1000.–	1470.–	
3 Pt100 resistance thermometers – 3-wire input (9 terminals) 2) 3)	**Q**	**Q63**	–	–	–	–	–	–	2730.–	2730.–	3070.–	3070.–	3070.–	3070.–	3070.–	
6 Pt100 resistance thermometers – 3-wire input (18 terminals) 2) 3)	**R**	**Q64**	–	–	–	–	–	–	–	4070.–	4070.–	4140.–	4140.–	4140.–	4140.–	

□ Standard version
– Not possible

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

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

3) Order codes **Q02** and **Q03** are not possible for frame sizes 100 to 160 in combination with 15th position of the Article No. "**H**". It can only be supplied with a star or delta winding for direct switch-on (3 terminals).

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Selection and ordering data

Motor protection	Article No. supplement: Motor protection code 15th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size: 63	71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version
			1MB1042														IEC / Ex eb (Zone 1) / IE3
				1MB1543 Basic Line													
							1MB1643 Performance Line										
													1MB5543 Basic Line				
													1MB5643 Performance Line				
1MB1042 - . . . . . - . .	■ .																
1MB . 5 . . - . . . . . - . .	■ .																
1MB . 6 . . - . . . . . - . .	■ .	Order code															
Motor protection																	
Without (Standard) [1]	**A**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: 1MB.5.. Basic Line
3 PTC thermistors – for tripping (2 terminals) [1] [2] [3]	**B**	**–**	38.40	38.40	39.70	42.60	117.–	117.–	176.–	176.–	234.–	234.–	319.–	319.–	398.–	398.–	Only for: 1MB.5.. Basic Line
			–	□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: 1MB.6.. Performance Line
6 PTC thermistors – for alarm and tripping (4 terminals) [2] [3]	**C**	**–**	173.–	173.–	173.–	173.–	201.–	201.–	269.–	269.–	413.–	413.–	537.–	537.–	666.–	666.–	
3 Pt100 resistance thermometers – 3-wire input (9 terminals) [2] [4]	**Q**	**Q63**	–	–	–	–	–	–	–	2730.–	2730.–	3070.–	3070.–	3070.–	3070.–	3070.–	
6 Pt100 resistance thermometers – 3-wire input (18 terminals) [2] [4]	**R**	**Q64**	–	–	–	–	–	–	–	–	4070.–	4070.–	4140.–	4140.–	4140.–	4140.–	

□ Standard version
– Not possible

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

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

[3] Motors in these frame sizes have a second rating plate (T1/T2 and T3) as standard.
The T3 power is stamped on the rating plate as standard if the following motors are selected with PTC thermistor (protection by PTC thermistor only) or voltage code "**90**":
- 2-pole motors: Frame sizes 132 to 160
- 4-pole motors: Frame size 180
Alternatively, with order code **B33**, the "T1/T2 power is stamped on the rating plate".
- 2-pole motors: Frame sizes 132 to 200
- 4-pole motors: Frame sizes 180 to 200

[4] In combination with the 15th position of the article number "**H**", the order codes **Q02** and **Q03** are not possible for frame size 160. It can only be supplied with a star or delta winding for direct connection (3 terminals).

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Selection and ordering data

Motor protection	Article No. supplement: Motor protection code 15th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size													Motor version		
			71	80	90	100	112	132	160	180	200	225	250	280	315	355			
			1MB15.3, 1MB15.6, 1MB15.7														IEC	Ex db, Ex db eb (zone 1)	IE3
															1MB5553, 1MB5555, 1MB5556, 1MB5557				
						1MB1853													
															1MB5853				
1MB1 . . . -. . . . . -. .	■ .																		
1MB5 . 5 . -. . . . . -. .	■ .	Order code																	
Motor protection																			
Without (Standard)	**A**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
3 PTC thermistors – for tripping (2 terminals) [1]	**B**	**–**	38,40	39,70	42,60	117,–	117,–	176,–	176,–	234,–	234,–	319,–	319,–	398,–	398,–	398,–			
6 PTC thermistors – for alarm and tripping (4 terminals) [1] [2]	**C**	**–**	173,–	173,–	173,–	201,–	201,–	269,–	269,–	413,–	413,–	537,–	537,–	666,–	666,–	666,–			
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals) [2]	**H**	**Q60**	–	–	–	1220,–	1220,–	1220,–	1220,–	1480,–	1480,–	1480,–	1640,–	1640,–	1640,–	1640,–			
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals) [2] [3]	**J**	**Q61**	–	–	–	–	–	–	–	2420,–	2420,–	2420,–	2420,–	2420,–	2420,–	2420,–			
1 Pt1000 resistance thermometer (2 terminals) [1]	**K**	**Q35**	103,–	103,–	103,–	117,–	117,–	176,–	176,–	332,–	332,–	454,–	589,–	589,–	868,–	868,–			
2 Pt1000 resistance thermometers (4 terminals) [2]	**L**	**Q36**	206,–	206,–	206,–	236,–	236,–	352,–	352,–	539,–	539,–	741,–	1000,–	1000,–	1470,–	1470,–			
3 Pt100 resistance thermometers – 3-wire input (9 terminals) [2] [3]	**Q**	**Q63**	–	–	–	–	–	–	2730,–	2730,–	2730,–	3070,–	3070,–	3070,–	3070,–	3070,–			
6 Pt100 resistance thermometers – 3-wire input (18 terminals) [2] [3]	**R**	**Q64**	–	–	–	–	–	–	–	4070,–	4070,–	4140,–	4140,–	4140,–	4140,–	4140,–			

□ Standard version
– Not possible

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

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

[3] Order codes **Q02** and **Q03** are not possible for frame sizes 100 to 160 in combination with 15th position of the Article No. "**H**". It can only be supplied with a star or delta winding for direct switch-on (3 terminals).

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Selection and ordering data

Motor protection	Article No. supplement		Frame size				Motor version		
	Motor protection code 15th position of the Article No.	Additional identification code with order code and plain text if required	315	355	400	450	IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE4 / IE3
			1MB5514, 1MB5524, 1MB5534						
			1MB5513, 1MB5523, 1MB5533						
					1MB5813, 1MB5823, 1MB5833				
1MB55 . 4 - . . . . . - . .	■ .								
1MB55 . 3 - . . . . . - . .	■ .								
1MB58 . 3 - . . . . . - . .	■ .	Order code							
Motor protection									
Without (Standard)	**A**	–	□	□	□	□			
3 PTC thermistors – for tripping (2 terminals) [1]	**B**	–	398.–	398.–	935.–	935.–			
6 PTC thermistors – for alarm and tripping (4 terminals) [1]	**C**	–	666.–	666.–	1040.–	1040.–			
1 temperature sensor KTY84-130 (2 terminals) [1]	**F**	–	868.–	868.–	1250.–	1250.–			
2 temperature sensors KTY84-130 (4 terminals) [1]	**G**	–	1470.–	1470.–	1960.–	1960.–			
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**H**	–	1640.–	1640.–	1670.–	1670.–			
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals)	**J**	–	2420.–	2420.–	2470.–	2470.–			
1 Pt1000 resistance thermometer (2 terminals)	**K**	–	868.–	868.–	1250.–	1250.–			
2 Pt1000 resistance thermometers (4 terminals)	**L**	–	1470.–	1470.–	1960.–	1960.–			
6 Pt100 resistance thermometers – 2-wire input (2 terminals)	**P**	–	1310.–	1310.–	1340.–	1340.–			
3 Pt100 resistance thermometers – 3-wire input (9 terminals)	**Q**	–	1970.–	1970.–	2010.–	2010.–			
6 Pt100 resistance thermometers – 3-wire input (18 terminals)	**R**	–	2900.–	2900.–	2960.–	2960.–			

□ Standard version
– Not possible

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

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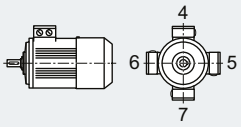
SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Terminal box position · Aluminum series 1MB10

Selection and ordering data

Terminal box position	Article No. supplement: Terminal box position code 16th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size: 63	71	80	90	100	112	132	160	Motor version
					1MB10.3						IEC: Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2): IE3
			1MB10.1								IE2
							1MB10.2				IE1
1MB10 . . - . . . . . - . . . ■		Order code									
Terminal box position											
Terminal box top [1]	**4**	**–**	□	□	□	□	□	□	□	□	
Terminal box on RHS [2]	**5**	**–**	–	–	35.20	39.80	102.–	111.–	121.–	129.–	
Terminal box on LHS [2]	**6**	**–**	–	–	35.20	39.80	102.–	111.–	121.–	129.–	
Terminal box bottom [2] [3]	**7**	**–**	–	–	–	–	102.–	111.–	121.–	129.–	

□ Standard version
– Not possible

[1] For types of construction with feet, cast feet are standard.
[2] For types of construction with feet, screwed-on feet are standard.
[3] Not generally possible for motors with feet.

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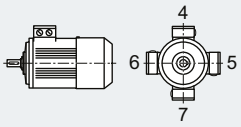
Selection and ordering data

Terminal box position	Article No. supplement		Frame size													Motor version		
	Terminal box position code 16th position of the Article No.	Additional identification code with order code and plain text if required	**71**	**80**	**90**	**100**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	**315**			
			1MB15.3 Basic Line													IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3
						1MB16.3 Performance Line												
			1MB15.1 Basic Line															IE2
						1MB16.1 Performance Line												
1MB15 . . - . . . . . - . . . ■																		
1MB16 . . - . . . . . - . . . ■		Order code																
Terminal box position																		
Terminal box top [1]	**4**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□			
Terminal box on RHS [2]	**5**	**–**	–	51.50	72.10	102.–	111.–	121.–	129.–	364.–	428.–	507.–	753.–	846.–	974.–			
Terminal box on LHS [2]	**6**	**–**	–	51.50	72.10	102.–	111.–	121.–	129.–	364.–	428.–	507.–	753.–	846.–	974.–			
Terminal box bottom [2] [3]	**7**	**–**	–	–	–	102.–	111.–	121.–	129.–	–	–	–	–	–	–			

□ Standard version
– Not possible

[1] For types of construction with feet, cast feet are standard.
[2] For types of construction with feet, screwed-on feet are standard.
[3] Not generally possible for motors with feet.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Selection and ordering data

Terminal box position	Article No. supplement: Terminal box position code 16th position of the Article No.	Article No. supplement: Additional identification code with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version: IEC	Ex eb (zone 1)	IE3
			1MB1042																
			1MB1543 Basic Line																
							1MB1643 Performance Line												
																1MB5543 Basic Line			
																1MB5643 Performance Line			
1MB1042 - . . . . . - . . . ■																			
1MB . 5 . . - . . . . . - . . . ■																			
1MB . 6 . . - . . . . . - . . . ■		Order code																	
Terminal box positoni																			
Terminal box base left with terminal box at the top	**0**		–	–	–	–	–	–	–	–	–	–	–	–	–	618.–			
Terminal box base right with terminal box at the top	**1**		–	–	–	–	–	–	–	–	–	–	–	–	–	618.–			
Terminal box base left with oblique terminal box 45°	**2**		–	–	–	–	–	–	–	–	–	–	–	–	–	O			
Terminal box base right with oblique terminal box 45°	**3**		–	–	–	–	–	–	–	–	–	–	–	–	–	□			
Terminal box top [1]	**4**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	–			
Terminal box on RHS [2]	**5**	**–**	–	–	51.50	72.10	102.–	111.–	121.–	129.–	364.–	428.–	507.–	753.–	846.–	618.–			
Terminal box on LHS [2]	**6**	**–**	–	–	51.50	72.10	102.–	111.–	121.–	129.–	364.–	428.–	507.–	753.–	846.–	618.–			
Terminal box bottom [2] [3]	**7**	**–**	–	–	–	–	102.–	111.–	121.–	129.–	–	–	–	–	–	–			
Terminal box on left-hand side (base below)	**9**	**R5L**	–	–	–	–	–	–	–	–	–	–	–	–	–	618.–			
Terminal box on right-hand side (base below)	**9**	**R6R**	–	–	–	–	–	–	–	–	–	–	–	–	–	618.–			
Terminal box bottom left	**9**	**R7L**	–	–	–	–	–	–	–	–	–	–	–	–	–	618.–			
Terminal box bottom right	**9**	**R7R**	–	–	–	–	–	–	–	–	–	–	–	–	–	618.–			

□ Standard version
○ Without additional charge
– Not possible

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

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

[3] Not generally possible for motors with feet.

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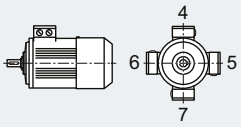
Selection and ordering data

Terminal box position	Article No. supplement		Frame size														Motor version		
	Terminal box position code 16th position of the Article No.	Additional identification code with order code and plain text if required	**71**	**80**	**90**	**100**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	**315**	**355**			
			1MB15.3, 1MB15.6, 1MB15.7														IEC	Ex db, Ex db eb (zone 1)	IE3
														1MB5553, 1MB5555, 1MB5556, 1MB5557					
						1MB1853													
															1MB5853				
1MB1 . . . - . . . . . - . . . ■																			
1MB5 . 5 . - . . . . . - . . . ■		Order code																	
Terminal box position																			
Terminal box top [1]	**4**	**–**	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
Terminal box on RHS [1]	**5**	**–**	–	–	–	–	111.–	121.–	129.–	364.–	428.–	507.–	753.–	846.–	946.–	1040.–			
Terminal box on LHS [1]	**6**	**–**	–	51.50	72.10	102.–	111.–	121.–	129.–	364.–	428.–	507.–	753.–	846.–	–	–			
Terminal box bottom [2]	**7**	**–**	–	–	–	102.–	111.–	121.–	129.–	–	–	–	–	–	–				

□ Standard version
– Not possible

Note:

Flange designs with horizontal alignment can also be mounted with a connection box on the right / left or below.

[1] For types of construction with feet, screwed-on feet are standard.

[2] Not generally possible for motors with feet.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Selection and ordering data

Terminal box position	Article No. supplement		Frame size				Motor version		
	Terminal box position code 16th position of the Article No.	Additional identification code with order code and plain text if required	315	355	400	450			
			1MB5514, 1MB5524, 1MB5534				IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE4 / IE3
			1MB5513, 1MB5523, 1MB5533						
					1MB5813, 1MB5823, 1MB5833				
1MB55 . 4 - . . . . . - . . . ■									
1MB55 . 3 - . . . . . - . . . ■									
1MB58 . 3 - . . . . . - . . . ■		Order code							
Terminal box positoni									
Terminal box base left with terminal box at the top	**0**		618.–	618.–	824.–	840.–			
Terminal box base right with terminal box at the top	**1**		618.–	618.–	824.–	840.–			
Terminal box base left with oblique terminal box 45°	**2**		O	O	O	O			
Terminal box base right with oblique terminal box 45°	**3**		□	□	□	□			
Terminal box on RHS	**5**	**–**	946.–	1040.–	840.–	840.–			
Terminal box on LHS	**6**	**–**	618.–	618	840.–	840.–			
Terminal box on left-hand side (base below) [1]	**9**	**R5L**	618.–	618.–	630.–	630.–			
Terminal box on right-hand side (base below) [1]	**9**	**R6R**	618.–	618.–	630.–	630.–			
Terminal box bottom left [1]	**9**	**R7L**	618.–	618.–	630.–	630.–			
Terminal box bottom right [1]	**9**	**R7R**	618.–	618.–	630.–	630.–			

□ Standard version
○ Without additional charge

[1] possible in combination with types of construction IM V1.

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	Motor version
				1MB10.3						IEC
		1MB10.1								Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2) IE3 / IE2 / IE1
						1MB10.2				
1MB10 . . - . . . . . - . . . . -Z	Order code									
Explosion-proof version										
Design additional for dust Ex tc – zone 22 [1) 14) 22)]	**B30**	–	–	78.80	94.30	107.–	126.–	188.–	274.–	Only for: 1MB103. – Ex ec (zone 2)
Design IIC with marking IIB [22)]	**B31**	○	○	○	○	○	○	○	○	Only for: 1MB103. – Ex ec (zone 2)
VIK version	**C02**	78.30	80.30	82.40	84.50	86.50	88.60	105.–	105.–	Only for: 1MB1033 – Ex ec (zone 2) IE3; 1MB1031 – Ex ec (zone 2) IE2
Design for converter operation										
Design for converter operation in basic version with operating data SINAMICS G120 with PM240-2. [15)]	**B40**	82.40	92.70	103.–	113.–	134.–	155.–	175.–	206.–	
Design for converter operation in basic version with operating data SINAMICS S150. [15)]	**B41**	82.40	92.70	103.–	113.–	134.–	155.–	175.–	206.–	
Version for converter operation with power data on the PWM converter	**B43**	82.40	92.70	103.–	113.–	134.–	155.–	175.–	206.–	
Operating data as order code **B40** with alternative SINAMICS converter on the rating plate • G120 with PM230 • G120 with PM240 • G120C • G120P with PM230 • G120P with PM240-2 • G120P with PM330 • G130, G150, G180 • S120 (BLM/SLM) • V20 Operating data as order code **B41** with alternative SINAMICS converter on the rating plate • S120 (ALM)	**Y68** • and converter type	○	○	○	○	○	○	○	○	
Motor protection										
1 or 3 PTC thermistors – for tripping (2 terminals)	**Q11**	37.10	38.40	–	–	–	–	–	–	
2 or 6 PTC thermistors – for alarm and tripping (4 terminals)	**Q12**	173.–	173.–	–	–	–	–	–	–	
1 KTY84-130 temperature sensor (2 terminals)	**Q23**	103.–	103.–	–	–	–	–	–	–	
2 KTY84-130 temperature sensors (4 terminals)	**Q25**	207.–	207.–	–	–	–	–	–	–	
1 Pt1000 resistance thermometer (2 terminals)	**Q35**	103.–	103.–	103.–	103.–	210.–	210.–	289.–	289.–	
2 Pt1000 resistance thermometers (4 terminals)	**Q36**	207.–	207.–	207.–	207.–	329.–	329.–	466.–	466.–	
Motor connection and terminal box										
External grounding		□	□	□	□	□	□	□	□	
Rotation of the terminal box through 90°, entry from DE	**R10**	○	○	○	○	○	○	○	○	
Rotation of the terminal box through 90°, entry from NDE	**R11**	○	○	○	○	○	○	○	○	
Rotation of the terminal box through 180°	**R12**	○	○	○	○	○	○	○	○	
Metal cable gland, max. configuration	**R18**	123.–	123.–	123.–	123.–	231.–	231.–	231.–	284.–	
Larger terminal box [24)]	**R50**	48.50	101.–	□	□	–	–	–	–	
Windings and insulation										
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 % [2)]	**N05**	41.20	41.20	40.70	40.70	47.40	47.40	63.–	63.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 % [2)]	**N06**	41.20	41.20	40.70	40.70	47.40	47.40	63.–	63.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 % [2)]	**N07**	61.80	64.40	72.90	85.80	106.–	129.–	164.–	204.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 %	**N08**	61.80	64.40	72.90	85.80	106.–	129.–	164.–	204.–	
Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N30**	134.–	134.–	134.–	134.–	134.–	134.–	134.–	206.–	

For legends and footnotes, see Page 4/72.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Options · Aluminum series 1MB10

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	Motor version
				1MB10.3						IEC Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2) IE3
		1MB10.1								IE2
						1MB10.2				IE1
1MB10 . . - . . . . . - . . . . -Z	Order code									
Windings and insulation (continued)										
Increased air humidity/temperature with 60 to 100 g water per m^3 of air	**N31**	196.–	196.–	216.–	216.–	216.–	247.–	278.–	391.–	
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude	**Y50 •** and requ. power, CT .. °C or IA .... m above sea level	92.70	101.–	109.–	129.–	159.–	192.–	247.–	304.–	
Colors and paint finish										
Standard finish C2 in RAL 7030 stone gray		□	□	□	□	□	□	□	□	
Unpainted (only cast-iron parts primed)	**S00**	○	○	○	○	○	○	○	○	
Unpainted, only primed	**S01**	27.30	27.30	20.50	27.30	27.30	27.30	43.50	43.50	
Special finish C3	**S02**	36.10	36.10	36.10	36.10	61.80	61.80	82.40	82.40	
Special finish sea air resistant C4	**S03**	494.–	494.–	494.–	494.–	525.–	525.–	577.–	577.–	
Top coat polyurethane [12) 23)]	**S06**	50.50	50.50	30.90	50.50	72.10	98.90	147.–	206.–	Only for: 1MB103. – Ex ec (zone 2)
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53 •** and finish RAL	25.80	25.80	25.80	25.80	41.20	41.20	56.70	56.70	
Finish in special RAL colors: For RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56 •** and finish RAL	608.–	608.–	608.–	608.–	649.–	649.–	680.–	680.–	
Modular technology – Basic version										
Mounting of separately driven fan [17)]	**F70**	–	–	–	–	–	–	–	–	Only for: 1MB101. – Ex tb (zone 21)
		–	–	–	–	1030.–	1240.–	1440.–	1750.–	Only for: 1MB102. – Ex tc (zone 22) 1MB103. – Ex ec (zone 2)
Special technology										
Mounting of explosion-proof rotary pulse encoder LL 841 (HTL); 1024 I [16)]	**G30**	–	–	–	–	8030.–	8030.–	8030.–	8030.–	
Mechanical design and degrees of protection										
Low-noise version for 2-pole motors with clockwise direction of rotation	**F77**	–	–	–	–	–	–	613.–	870.–	
Low-noise version for 2-pole motors with counter-clockwise direction of rotation	**F78**	–	–	–	–	–	–	613.–	870.–	
Mechanical protection for encoders	**G43**	–	–	□	□	□	□	□	□	
Protective cover	**H00**	55.60	55.60	55.60	55.60	80.80	80.80	141.–	141.–	
Screwed-on (instead of cast) feet	**H01**	–	–	89.–	89.–	104.–	113.–	123.–	132.–	
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994	**H02**	113.–	127.–	145.–	165.–	185.–	205.–	222.–	258.–	
Condensation drainage holes [6)]	**H03**	61.80	63.90	66.30	74.–	81.10	88.50	95.90	103.–	
Rust-resistant screws (externally)	**H07**	55.60	55.60	66.30	66.30	81.10	81.10	95.90	95.90	
IP66 degree of protection	**H19**	310.–	310.–	310.–	310.–	310.–	310.–	310.–	462.–	
IP65 degree of protection [4)]	**H20**	147.–	147.–	147.–	147.–	147.–	147.–	147.–	220.–	Only for: 1MB103. – Ex ec (zone 2)
IP56 degree of protection [5)]	**H22**	163.–	163.–	163.–	163.–	163.–	163.–	163.–	242.–	Only for: 1MB103. – Ex ec (zone 2)
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar [3)]	**H23**	41.20	44.90	47.40	50.70	56.40	61.70	75.30	110.–	
Coolant temperature and installation altitude										
Coolant temperature –40 °C to +40 °C [20)]	**D03**	259.–	325.–	390.–	456.–	585.–	715.–	909.–	1300.–	
Designs in accordance with standards and specifications										
Ex certification for China	**D32**	–	–	217.–	217.–	217.–	217.–	217.–	228.–	
China Energy Efficiency Label	**D34**	–	–	○	○	○	○	○	○	

For legends and footnotes, see Page 4/72.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	Motor version		
		1MB10.1		1MB10.3						IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3
						1MB10.2						IE2
												IE1
1MB10 . . - . . . . . - . . . . -Z	Order code											
Designs in accordance with standards and specifications (continued)												
Ex certificate EAC for the Eurasian customs union [18]	**D35**	–	–	–	–	217.–	217.–	217.–	228.–			
IECEx certification	**D37**	–	–	162.–	162.–	–	–	–	–	Only for:	1MB101. – Ex tb (zone 21)	
		–	–	162.–	162.–	217.–	217.–	217.–	228.–	Only for:	1MB102. – Ex tc (zone 22) 1MB103. – Ex ec (zone 2)	
MEPS Australia	**D70**	–	–	607.–	628.–	651.–	679.–	728.–	803.–	Only for:	1MB1013, 1MB1023, 1MB1033	
Bearings and lubrication												
Located bearing DE	**L20**	39.–	39.–	39.–	41.40	71.40	84.60	104.–	142.–			
Located bearing NDE	**L21**	39.–	39.–	39.–	41.40	43.30	45.60	48.30	□			
Bearing design for increased cantilever forces [13]	**L22**	–	–	–	–	98.80	115.–	130.–	172.–			
Regreasing device	**L23**	–	–	–	–	311.–	319.–	329.–	356.–			
Reinforced bearings at both ends for DE and NDE, bearing size 63	**L25**	–	–	–	–	199.–	232.–	260.–	346.–			
Bearing insulation NDE	**L51**	–	–	–	–	530.–	550.–	1230.–	1270.–			
Measuring nipple for SPM shock pulse measurement for bearing inspection	**Q01**	–	–	–	–	252.–	282.–	311.–	343.–			
Balance and vibration quantity												
Vibration quantity level A		□	□	□	□	□	□	□	□			
Vibration quantity level B [19]	**L00**	227.–	237.–	250.–	265.–	278.–	321.–	411.–	509.–			
Half-key balancing		□	□	□	□	□	□	□	□			
Balancing without key	**L01**	21.40	21.40	21.40	21.40	27.80	27.80	32.90	32.90			
Full-key balancing	**L02**	94.20	94.20	94.20	109.–	109.–	109.–	126.–	126.–			
Shaft and rotor												
Shaft extension with standard dimensions, without feather keyway	**L04**	–	–	–	–	515.–	542.–	569.–	598.–			
Standard cylindrical shaft extension (second shaft extension) NDE in accordance with EN 50347	**L05**	83.20	83.20	95.90	95.90	140.–	140.–	185.–	213.–			
Standard shaft made of stainless steel (e.g. 1.4021)	**L06**	803.–	803.–	822.–	822.–	943.–	943.–	1090.–	1360.–			
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	**L07**	239.–	239.–	239.–	239.–	263.–	263.–	400.–	400.–			
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors	**L08**	118.–	148.–	176.–	207.–	236.–	265.–	296.–	367.–			
Non-standard cylindrical shaft extension DE [7]	**Y58** • and customer specifications	391.–	430.–	459.–	486.–	515.–	542.–	569.–	598.–			
Non-standard cylindrical shaft extension NDE [7]	**Y59** • and customer specifications	391.–	430.–	459.–	486.–	515.–	542.–	569.–	598.–			
Heating and ventilation												
Metal external fan [8]	**F76**	147.–	147.–	□	□	–	–	–	–	Only for:	1MB103. – Ex ec (zone 2)	
		–	–	□	□	185.–	220.–	256.–	296.–	Only for:	1MB101. – Ex tb (zone 21), 1MB102. – Ex tc (zone 22)	
Anti-condensation heating for 230 V [9]	**Q02**	1020.–	1020.–	1020.–	1020.–	1020.–	1030.–	1080.–	1130.–			
Anti-condensation heating for 115 V [9]	**Q03**	1020.–	1020.–	1020.–	1020.–	1020.–	1030.–	1080.–	1130.–			
Rating plate and extra rating plates												
Second rating plate, loose	**M10**	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70			
Rating plate, stainless steel	**M11**	41.40	41.40	41.40	41.40	41.40	41.40	41.40	41.40			
Extra rating plate with deviating rating plate data	**Y80** • and customer specifications	72.10	72.10	72.10	72.10	103.–	103.–	103.–	103.–			
Extra rating plate with identification codes	**Y82** • and customer specifications	40.70	40.70	40.70	40.70	40.70	40.70	40.70	40.70			

For legends and footnotes, see Page 4/72.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Options · Aluminum series 1MB10

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	Motor version
				1MB10.3						IEC Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2) IE3
		1MB10.1								IE2
						1MB10.2				IE1
1MB10 . . - . . . . . - . . . . -Z	Order code									
Rating plate and extra rating plates (continued)										
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	40.70	40.70	40.70	40.70	40.70	40.70	40.70	40.70	
Packaging, safety notes, documentation and test certificates										
Printed Operating Instructions (compact) for explosion-proof motors enclosed in English and German [11]		□	□	□	□	□	□	□	□	
Acceptance test certificate 3.1 according to EN 10204 [10]	**B02**	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	
Document – Electrical datasheet	**B60**	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	
Document – Order dimensional drawing	**B61**	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	
Type test with heat run for horizontal motors, with acceptance	**B83**	4100.–	4100.–	5620.–	6390.–	7150.–	7910.–	8670.–	9430.–	
Documentation package "Basic"	**B90**	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	
Documentation package "Advanced"	**B91**	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	
Documentation package "Projects"	**B92**	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	
Wire-lattice pallet packaging	**B99**	○	○	○	○	○	○	○	○	
Connected in star for dispatch	**M01**	23.50	23.50	23.50	23.50	28.30	28.30	28.30	28.30	
Connected in delta for dispatch	**M02**	23.50	23.50	23.50	23.50	28.30	28.30	28.30	28.30	

4

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
– Not possible

1) Please inquire regarding combination with order codes **D03** and **C02**. Not possible in combination with order codes **H20** and **H22**.

2) There is no derating in combination with the order codes **M2A**, **M2B**, **M2C**, **M2D**, **M2E**, **M2F**, **M2G**, **M2H**.

3) Not possible for type of construction IM V3.

4) For zone 21, IP65 degree of protection is standard. Not possible for zone 22, because only IP55 degree of protection is required.

5) Not admissible for zone 21 (IP65 degree of protection) and zone 22 (IP55 degree of protection).

6) 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.

7) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer in accordance with the appropriate standard. Not valid for: Conical shafts, non-standard threaded stems, 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**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under "Dimensions")
– Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension
For explanation of the order codes, see Catalog D 81.1 Section 1 "Introduction".

8) The metal external fan is not possible in combination with the low-noise version – order code **F77** or **F78**.

9) Order codes **Q02** and **Q03** are not possible for frame sizes 100 to 160 in combination with 15th position of the Article No. "**H**".
It can only be supplied with a star or delta winding for direct switch-on (3 terminals).

10) The delivery time for the acceptance test certificate may differ from the delivery time for the motor.

11) The Operating Instructions are available in PDF format for all official EU languages at
http://support.automation.siemens.com/WW/view/en/10803948/133300

12) Order code **S06** cannot be combined with order code **S00** and **S01**. It can be combined with **Y53** and **Y56** on request.

13) A minimum cantilever force F_{min} of 0.5 · F_{max} is required for NU bearings (cylindrical roller bearings) in contrast to ball bearings. Cylindrical roller bearings are not suitable for coupling power or for brief periods of no-load operation without cantilever force.

14) The Ex motor is not permitted if a potentially explosive gas and dust atmosphere occurs (hybrid). No standard exists until now which describes the product requirements for a hybrid mixture.

15) In combination with order code **B40** and **B41**, "**B**" or "**C**" must be added to the 15th position of the Article No. For compliance with the admissible temperature class 130 (B), derating is necessary in the case of converter operation in zones 2, 21 and 22! The operating data for SIEMENS SINAMICS converters are on the rating plate - the torque moment is reduced, compared to the line operation. The operating data of the motor at converter operation are available in the selection and ordering tool Drive Technology Configurator.
For converter operation, voltage codes/order codes are only admissible with one voltage only. The frequency converter for motors of category 1 (zone 21) needs a certified tripping unit for use in hazardous areas.
For motors of category 3 (zone 2 and 22) a certified tripping unit is recommended. Alternatively, an external tripping unit can be used (see Catalog IC 10).

16) It can be combined with **N30**, **N31**, **L51** and **F70** on request. Not possible in combination with order code **L05**. Combination with protective cover is standard for frame sizes 100 to 200. Protective cover not possible for frame sizes 225 to 315.

17) Please inquire regarding combinations with order codes **N05**, **N06**, **N07**, **N08**, **N30**, **N31**, **D03**, **G30**, **C02**, **H20** and **H22**. Not permissible with order code **L05**. The type of protection of the separately driven fan must be selected to comply with that of the motor.

18) Not possible in combination with converter operation.

19) Vibration quantity level B is not admitted in combination with converter operation (order code **B40**/**B41**).

20) Not possible in combination with order codes **Q02** or **Q03**.

21) Not possible in vertical version with shaft extension DE downwards.

22) Permissible paint film thickness up to 2 mm.

23) Order code S06 cannot be combined with order code S00 and S01. It can be combinedwith Y53 and Y56 on request.

24) For Zone 22 the larger terminal box is standard only for motors with motor protection or anti-condencation heating. For Zone 2 the special large terminal box is standard.

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version
		1MB15.3 Basic Line			**1MB16.3 Performance Line**										IEC Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2) IE3
		1MB15.1 Basic Line			**1MB16.1 Performance Line**										IE2
1MB15 . . - . . . . . - . . . . -Z **1MB16 . . - . . . . . - . . . . -Z**	Order code														
Explosion-proof version															
Design additional for dust Ex tc – zone 22 [1) 16)]	**B30**	69.10	78.80	94.30	107.–	126.–	188.–	274.–	487.–	597.–	671.–	706.–	747.–	788.–	Only for: 1MB1.3. – Ex ec (zone 2)
Design IIC with marking IIB [23)]	**B31**	O	O	O	O	O	O	O	O	O	O	O	O	O	Only for: 1MB1.3. – Ex ec (zone 2)
VIK version	**C02** (1MB153. and 1MB163. with Ex ec marking)	39.80	39.80	39.80	86.50	88.60	105.–	105.–	181.–	190.–	214.–	327.–	563.–	874.–	Only for: 1MB1.3. – Ex ec (zone 2)
Design for converter data															
Design for converter operation in basic version with operating data SINAMICS G120 with PM240-2. [17) 20) 21) 22)]	**B40**	92.70	103.–	113.–	134.–	155.–	175.–	206.–	237.–	268.–	309.–	361.–	2330.–	2470.–	
Design for converter operation in basic version with operating data SINAMICS S150. [17) 20) 21)]	**B41**	92.70	103.–	113.–	134.–	155.–	175.–	206.–	237.–	268.–	309.–	361.–	2330.–	2470.–	
Version for converter operation with power data on the PWM converter	**B43**	92.70	103.–	113.–	134.–	155.–	175.–	206.–	237.–	268.–	309.–	361.–	2330.–	2470.–	
Operating data as order code **B40** with alternative SINAMICS converter on the rating plate [20)] • G120 with PM230 • G120 with PM240 • G120C • G120P with PM230 • G120P with PM240-2 • G120P with PM330 • G130, G150, G180 • S120 (BLM/SLM) • V20 Operating data as order code **B41** with alternative SINAMICS converter on the rating plate [20)] • S120 (ALM)	**Y68** • and converter type	O	O	O	O	O	O	O	O	O	O	O	O	O	
Motor protection															
1 Pt1000 resistance thermometer (2 terminals)	**Q35**	–	–	–	210.–	210.–	289.–	289.–	466.–	466.–	609.–	744.–	744.–	868.–	
2 Pt1000 resistance thermometers (4 terminals)	**Q36**	–	–	–	329.–	329.–	466.–	466.–	673.–	673.–	895.–	1150.–	1150.–	1470.–	
2 Pt100 screw-in thermometers in basic circuit for bearings (2 terminals) [2) 3)]	**Q72**	–	–	–	–	–	–	–	4220.–	4220.–	4220.–	4220.–	4220.–	4220.–	
2 Pt100 screw-in thermometers in 3-wire circuit for bearings (6 terminals) [2) 3)]	**Q78**	–	–	–	–	–	–	–	4640.–	4640.–	4640.–	4640.–	4640.–	4640.–	
2 double Pt100 screw-in thermometers in 3-wire circuit for bearings (12 terminals) [2) 3)]	**Q79**	–	–	–	–	–	–	–	–	–	–	–	5560.–	5560.–	
Motor connection and terminal box															
External grounding		□	□	□	□	□	□	□	□	□	□	□	□	□	
Rotation of the terminal box through 90°, entry from DE	**R10**	O	O	O	O	O	O	O	44.20	57.30	70.70	84.90	101.–	122.–	
Rotation of the terminal box through 90°, entry from NDE	**R11**	O	O	O	O	O	O	O	44.20	57.30	70.70	84.90	101.–	122.–	
Rotation of the terminal box through 180°	**R12**	O	O	O	O	O	O	O	44.20	57.30	70.70	84.90	101.–	122.–	
Stud terminals for cable connection, accessories pack (3 items)	**R17**	–	–	–	–	–	–	–	–	–	–	147.–	147.–	185.–	Only for: 1MB1.1. – Ex tb (zone 21), 1MB1.2. – Ex tc (zone 22)

For legends and footnotes, see Page 4/77.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Options · Cast-iron series 1MB15 Basic Line, 1MB16 Performance Line

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version
		1MB15.3 Basic Line													IEC
					1MB16.3 Performance Line										Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)
		1MB15.1 Basic Line													IE3
					1MB16.1 Performance Line										IE2
1MB15 . . - . . . . . - . . . . -Z **1MB16 . . - . . . . . - . . . . -Z**	Order code														
Motor connection and terminal box (continued)															
Metal cable gland, maximum configuration	**R18**	127.–	127.–	127.–	231.–	231.–	231.–	284.–	284.–	315.–	315.–	433.–	433.–	433.–	
Saddle terminals for connection without cable lug, accessories pack (6 items)	**R19**	–	–	–	–	–	–	–	–	–	–	721.–	721.–	721.–	Only for: 1MB1.1. – Ex tb (zone 21), 1MB1.2. – Ex tc (zone 22)
		□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: 1MB1.3. – Ex ec (zone 2)
Larger terminal box [15]	**R50**	48.50	101.–	101.–	210.–	210.–	269.–	307.–	466.–	513.–	1630.–	1860.–	1860.–	2190.–	
Cast-iron auxiliary terminal box (small)	**R62**	–	–	–	–	–	–	–	278.–	278.–	278.–	278.–	278.–	278.–	
Windings and insulation															
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 % [4]	**N05**	41.20	41.20	41.20	47.40	47.40	63.–	63.–	80.30	80.30	91.30	91.30	107.–	107.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 % [4]	**N06**	41.20	41.20	41.20	47.40	47.40	63.–	63.–	80.30	80.30	91.30	91.30	107.–	107.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 % [4]	**N07**	64.40	72.90	85.80	106.–	129.–	164.–	204.–	263.–	320.–	474.–	597.–	764.–	993.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 %	**N08**	64.40	72.90	85.80	106.–	129.–	164.–	204.–	263.–	320.–	474.–	597.–	764.–	993.–	
Increased air humidity/ temperature with 30 to 60 g water per m^3 of air	**N30**	134.–	134.–	134.–	134.–	134.–	134.–	206.–	299.–	412.–	639.–	855.–	1080.–	1320.–	
Increased air humidity/ temperature with 60 to 100 g water per m^3 of air	**N31**	196.–	216.–	216.–	216.–	247.–	278.–	391.–	505.–	649.–	917.–	1180.–	1490.–	1780.–	
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude	**Y50** • and spec. power, CT .. °C or IA .... m above sea level	159.–	159.–	159.–	159.–	192.–	247.–	304.–	393.–	483.–	711.–	894	1140.–	1480.–	
Colors and paint finish															
Standard finish C2 in RAL 7030 stone gray		□	□	□	□	□	□	□	□	□	□	□	□	□	Only for: 1MB15..
Unpainted (only cast-iron parts primed)	**S00**	○	○	○	○	○	○	○	○	○	○	○	○	○	
Unpainted, only primed	**S01**	20.50	20.50	27.30	27.30	27.30	43.50	43.50	81.70	81.70	81.70	81.70	81.70	81.70	
Special finish C3	**S02**	36.10	36.10	36.10	61.80	82.40	82.40	82.40	113.–	124.–	185.–	227.–	268.–	299.–	Only for: 1MB15..
		–	–	–	□	□	□	□	□	□	□	□	□	□	Only for: 1MB16..
Special finish sea air resistant C4	**S03**	494.–	494.–	494.–	525.–	525.–	577.–	577.–	618.–	659.–	700.–	742.–	783.–	814.–	
Special paint for use offshore C5	**S04**	2010.–	2010.–	2010.–	2110.–	2220.–	2340.–	2460.–	2590.–	2720.–	3140.–	4090.–	5120.–	7910.–	
Top coat polyurethane [12]	**S06**	30.90	30.90	50.50	72.10	98.90	147.–	206.–	247.–	303.–	389.–	485.–	613.–	779.–	Only for: 1MB1.3. – Ex ec (zone 2)
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53** • and finish RAL	25.80	25.80	25.80	41.20	41.20	56.70	56.70	82.40	113.–	124.–	155.–	185.–	258.–	Only for: 1MB15..

For legends and footnotes, see Page 4/77.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version		
		1MB15.3 Basic Line													IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3
					1MB16.3 Performance Line												
		1MB15.1 Basic Line															IE2
					1MB16.1 Performance Line												
1MB15 . . - . . . . . - . . . . -Z **1MB16 . . - . . . . . - . . . . -Z**	Order code																
Colors and paint finish (continued)																	
Finish in special RAL colors: RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56 •** and finish RAL ….	608.–	608.–	608.–	649.–	649.–	680.–	680.–	690.–	700.–	711.–	721.–	731.–	742.–			
Modular technology – Basic version																	
Mounting of separately driven fan [19]	**F70**	–	–	–	–	–	–	–	–	–	2780.–	3300.–	3910.–	4640.–	Only for: 1MB1.1. – Ex tb (zone 21)		
		–	–	–	1030.–	1240.–	1440.–	1750.–	2060.–	2370.–	2780.–	3300.–	3910.–	4640.–	Only for: 1MB1.2. – Ex tc (zone 22)		
		–	–	–	1030.–	1240.–	1440.–	1750.–	2060.–	2370.–	2780.–	3300.–	3910.–	4640.–	Only for: 1MB1.3. – Ex ec (zone 2)		
Special technology																	
Mounting of explosion-proof rotary pulse encoder LL 841 (HTL); 1024 I [18]	**G30**	–	–	–	8030.–	8030.–	8030.–	8030.–	8030.–	8030.–	9170.–	9170.–	9170.–	9170.–			
Mechanical design and degrees of protection																	
Low-noise version for 2-pole motors with clockwise direction of rotation	**F77**	–	–	–	–	–	613.–	870.–	1130.–	1390.–	1640.–	1900.–	2160.–	2420.–			
Low-noise version for 2-pole motors with counter-clockwise direction of rotation	**F78**	–	–	–	–	–	613.–	870.–	1130.–	1390.–	1640.–	1900.–	2160.–	2420.–			
Mechanical protection for encoders	**G43**	–	–	–	□	□	□	□	□	□	208.–	208.–	208.–	208.–			
Protective cover	**H00**	55.60	55.60	55.60	80.80	80.80	141.–	141.–	188.–	283.–	375.–	469.–	562.–	751.–			
Screwed-on (instead of cast) feet	**H01**	–	–	–	104–	113.–	123.–	132.–	371.–	437.–	517.–	768.–	863.–	993.–			
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994 [27]	**H02**	127.–	145.–	165.–	185.–	205.–	222.–	258.–	309.–	371.–	433.–	515.–	597.–	680.–			
Condensation drainage holes [7]	**H03**	62.–	64.40	71.80	□	□	□	□	□	□	□	□	□	□			
Rust-resistant screws (externally)	**H07**	65.90	67.–	67.–	81.10	81.10	95.90	95.90	110.–	125.–	167.–	199.–	207.–	275.–			
IP66 degree of protection	**H19**	310.–	310.–	310.–	310.–	310.–	310.–	462.–	618.–	772.–	930.–	1090.–	1240.–	1390.–			
IP65 degree of protection [5]	**H20**	147.–	147.–	147.–	147.–	147.–	147.–	220.–	296.–	367.–	443.–	517.–	589.–	663.–			
IP56 degree of protection [6]	**H22**	163.–	163.–	163.–	163.–	163.–	163.–	242.–	322.–	405.–	487.–	568.–	650.–	728.–			
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar Not possible for type of construction IM V3.	**H23**	44.90	47.40	50.70	56.40	61.70	75.30	110.–	142.–	176.–	234.–	311.–	390.–	469.–			
Coolant temperature and installation altitude																	
Coolant temperature –40 °C to +40 °C [26]	**D03**	325.–	390.–	456.–	585.–	715.–	909.–	1300.–	1570.–	1820.–	2200.–	2730.–	3640.–	4810.–			
Designs in accordance with standards and specifications																	
Ex certification for China	**D32**	217.–	217.–	217.–	217.–	217.–	217.–	228.–	228.–	332.–	332.–	439.–	643.–	764.–	Only for: 1MB15..		
		–	–	–	217.–	217.–	217.–	228.–	228.–	332.–	332.–	439.–	643.–	764.–	Only for: 1MB16..		
China Energy Efficiency Label	**D34**	○	○	○	○	○	○	○	○	○	○	○	○	○	Only for: 1MB15..		
		–	–	–	○	○	○	○	○	○	○	○	○	○	Only for: 1MB16..		
Ex certificate EAC for the Eurasian customs union [13]	**D35**	–	–	–	217.–	217.–	217.–	228.–	228.–	332.–	332.–	439.–	643.–	764.–			
IECEx certification	**D37**	217.–	217.–	217.–	217.–	217.–	217.–	228.–	228.–	332.–	332.–	439.–	643.–	764.–			
MEPS Australia	**D70**	–	692.–	692.–	962.–	692.–	692.–	713.–	713.–	921.–	921.–	1130.–	1550.–	1380.–	Only for: 1MB15.3, 1MB16.3		
Bearings and lubrication																	
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A	**L19**	–	–	–	–	–	–	–	375.–	422.–	469.–	562.–	○	○			
Located bearing DE	**L20**	39.–	39.–	41.40	71.40	84.60	104.–	142.–	300.–	416.–	585.–	753.–	974.–	1050.–			
Located bearing NDE	**L21**	39.–	39.–	41.40	43.30	45.60	48.30	□	□	□	□	□	□	□			
Bearing design for increased cantilever forces [14]	**L22**	72.10	79.30	87.60	98.80	115.–	130.–	172.–	273.–	316.–	356.–	412.–	461.–	515.–			
Regreasing device	**L23**	–	–	–	311.–	319.–	329.–	356.–	375.–	422.–	469.–	562.–	□	□	Only for: 1MB15..		
		–	–	–	311.–	319.–	329.–	□	□	□	□	□	□	□	Only for: 1MB16..		

For legends and footnotes, see Page 4/77.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Options · Cast-iron series 1MB15 Basic Line, 1MB16 Performance Line

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3 / IE2
		1MB15.3 Basic Line			1MB16.3 Performance Line												
		1MB15.1 Basic Line			1MB16.1 Performance Line												
1MB15 . . - . . . . . - . . . . -Z **1MB16 . . - . . . . . - . . . . -Z**	Order code																
Bearings and lubrication (continued)																	
Reinforced bearings at both ends for DE and NDE, bearing size 63	**L25**	134.–	165.–	199.–	199.–	232.–	260.–	346.–	459.–	565.–	803.–	1110.–	□	□	Only for: 1MB15..		
		–	–	–	□	□	□	□	□	□	□	□	□	□	Only for: 1MB16..		
Bearing insulation NDE [20]	**L51**	–	–	–	–	–	–	–	1320.–	1340.–	1730.–	1850.–	1920.–	2010.–			
Measuring nipple for SPM shock pulse measurement for bearing inspection	**Q01**	–	–	–	252.–	282.–	311.–	343.–	370.–	400.–	430.–	459.–	488.–	518.–			
Balance and vibration quantity																	
Vibration quantity level A		□	□	□	□	□	□	□	□	□	□	□	□	□			
Vibration quantity level B [21] [22] [23]	**L00**	237.–	250.–	265.–	278.–	321.–	411.–	509.–	798.–	803.–	882.–	1120.–	1310.–	1680.–			
Half-key balancing		□	□	□	□	□	□	□	□	□	□	□	□	□			
Balancing without key	**L01**	21.40	21.40	21.40	28.–	28.–	33.–	33.–	43.–	43.–	58.10	58.10	70.70	82.–			
Full-key balancing	**L02**	94.20	94.20	109.–	109.–	109.–	126.–	126.–	159.–	159.–	205.–	205.–	205.–	205.–			
Shaft and rotor																	
Shaft extension with standard dimensions, without feather keyway	**L04**	–	–	–	515.–	542.–	569.–	598.–	694.–	764.–	833.–	903.–	972.–	1040.–			
Standard cylindrical shaft extension (second shaft extension) NDE in acc. with EN 50347 [25]	**L05**	83.20	95.90	95.90	140.–	140.–	185.–	213.–	322.–	357.–	376.–	392.–	464.–	509.–			
Standard shaft made of stainless steel (e.g. 1.4021)	**L06**	124.–	124.–	144.–	165.–	227.–	350.–	556.–	662.–	988.–	1360.–	1620.–	2700.–	3290.–			
Concentricity of shaft extension in acc. with DIN 42955 Tolerance R	**L07**	239.–	239.–	239.–	263.–	263.–	400.–	400.–	207.–	233.–	277.–	363.–	363.–	554.–			
Concentricity of shaft extension, coaxiality and linear movement in acc. with DIN 42955 Tolerance R for flange-mounting motors	**L08**	148.–	176.–	207.–	236.–	265.–	296.–	367.–	443.–	517.–	589.–	663.–	739.–	811.–			
Non-standard cylindrical shaft extension DE [8]	**Y58** • and customer specifications	430.–	459.–	486.–	515.–	542.–	569.–	598.–	694.–	764.–	833.–	903.–	972.–	1040.–			
Non-standard cylindrical shaft extension NDE [8]	**Y59** • and customer specifications	430.–	459.–	486.–	515.–	542.–	569.–	598.–	694.–	764.–	833.–	903.–	972.–	1040.–			
Heating and ventilation																	
Metal external fan [9]	**F76**	147.–	147.–	147.–	185.–	220.–	256.–	296.–	332.–	367.–	405.–	443.–	479.–	517.–	Only for: 1MB1.3. – Ex ec (zone 2)		
Anti-condensation heating for 230 V [3]	**Q02**	1020.–	1020.–	1020.–	1020.–	1030.–	1080.–	1130.–	1180.–	1240.–	1290.–	1340.–	1340.–	1390.–			
Anti-condensation heating for 115 V [3]	**Q03**	1020.–	1020.–	1020.–	1020.–	1030.–	1080.–	1130.–	1180.–	1240.–	1290.–	1340.–	1340.–	1390.–			
Rating plate and extra rating plates																	
Second rating plate, loose	**M10**	20.70	20.70	20.70	20.70	20.70	20.70	20.70	66.30	66.30	66.30	66.30	66.30	66.30			
Rating plate, stainless steel	**M11**	41.40	41.40	41.40	41.40	41.40	41.40	41.40	50.60	50.60	□	□	□	□	Only for: 1MB15..		
		–	–	–	□	□	□	□	□	□	□	□	□	□	Only for: 1MB16..		
Extra rating plate with deviating rating plate data	**Y80** • and customer specifications	72.10	72.10	72.10	103.–	103.–	103.–	103.–	155.–	155.–	206.–	206.–	206.–	206.–			
Extra rating plate with identification codes	**Y82** • and customer specifications	40.70	40.70	40.70	40.70	40.70	40.70	40.70	68.–	68.–	68.–	84.90	84.90	107.–			
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	40.70	40.70	40.70	40.70	40.70	40.70	40.70	68.–	68.–	68.–	84.90	84.90	107.–			
Packaging, safety notes, documentation and test certificates																	
Printed Operating Instructions (compact) for explosion-proof motors enclosed in English and German [11]		□	□	□	□	□	□	□	□	□	□	□	□	□			
Acceptance test certificate 3.1 in accordance with EN 10204 [10]	**B02**	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10			

For legends and footnotes, see Page 4/77.

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Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE3 / IE2
		1MB15.3 Basic Line															
					1MB16.3 Performance Line												
		1MB15.1 Basic Line															
					1MB16.1 Performance Line												
1MB15 . . - . . . . . - . . . . -Z **1MB16 . . - . . . . . - . . . . -Z**	Order code																
Packaging, safety notes, documentation and test certificates (continued)																	
Document – Electrical data-sheet	**B60**	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–			
Document – Order dimensional drawing	**B61**	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–	309,–			
Type test with heat run for hori-zontal motors, with acceptance	**B83**	4860.–	5620.–	6390.–	7150.–	7910.–	8670.–	9430.–	10200.–	11000.–	11700.–	12500.–	13200.–	14000.–			
Documentation package “Basic”	**B90**	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–			
Documentation package “Advanced”	**B91**	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–			
Documentation package “Projects”	**B92**	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–			
Wire-lattice pallet packaging	**B99**	○	○	○	○	○	○	○	–	–	–	–	–	–			
Connected in star for dispatch	**M01**	23.50	23.50	23.50	28.30	28.30	28.30	28.30	37.20	37.20	37.20	46.–	46.–	46.–			
Connected in delta for dispatch	**M02**	23.50	23.50	23.50	28.30	28.30	28.30	28.30	37.20	37.20	□	□	□	□			

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
– Not possible

1) Please inquire regarding combination with order codes D03 and C02. Not possible in combination with order codes **H20** and **H22**.

2) Evaluation with appropriate tripping unit (see Catalog IC 10) is recommended. A certified tripping unit is necessary for use in hazardous areas.

3) Order codes **Q02** and **Q03** are not possible for frame sizes 100 to 160 in combination with 15th position of the Article No. “**H**”. It can only be supplied with a star or delta winding for direct switch-on (3 terminals).

4) There is no derating in combination with the order codes **M2A**, **M2B**, **M2C**, **M2D**, **M2E**, **M2F**, **M2G**, **M2H**.

5) Order code **H20** (IP65 degree of protection) can only be ordered for zone 2. For zone 21, IP65 degree of protection is standard. Not possible for zone 22, because only IP55 degree of protection is required.

6) Order code **H22** (IP56 degree of protection) can only be ordered for zone 2. IP56 degree of protection is not admissible for zone 21 (IP65 degree of protection) and zone 22 (IP55 degree of protection).

7) 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.

8) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer in accordance with the appropriate standard. Not valid for: Conical shafts, non-standard threaded stems, 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**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under “Dimensions”)
– Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension
For explanation of the order codes, see Catalog D 81.1 Section 1 “Introduction”.

9) The metal external fan is not possible in combination with the low-noise version – order code **F77** or **F78**.

10) The delivery time for the factory test certificate may differ from the delivery time for the motor.

11) The Operating Instructions are available in PDF format for all official EU languages at http://support.automation.siemens.com/WW/view/en/10803948/133300

12) Order code **S06** cannot be combined with order code **S00**, **S01** and **S02**. It can be combined with **Y53** and **Y56** on request.

13) Not admissible in combination with anti-condensation heating (order code **Q02**/**Q03**). For this component, no TR CU certificate is available yet.

14) A minimum cantilever force F_{min} of 0.5 · F_{max} is required for NU bearings (cylindrical roller bearings) in contrast to ball bearings. Cylindrical roller bearings are not suitable for coupling power or for brief periods of no-load operation without cantilever force.

15) Standard version in combination with order code **Q02**, **Q03** and/or 15th position of the Article No. “**H**” for frame sizes 71 to 90.

16) The Ex motor is not permitted if a potentially explosive gas and dust atmosphere occurs (hybrid). No standard exists until now which describes the product requirements for a hybrid mixture.

17) In combination with order code **B40** and **B41**, “**B**” or “**C**” must be added to the 15th position of the Article No. For compliance with the admissible temperature class 130 (B), derating is necessary in the case of converter operation in zones 2, 21 and 22! The operating data for Siemens SINAMICS converters are on the rating plate - the torque moment is reduced, compared to the line operation. The operating data of the motor at converter operation are available in the selection and ordering tool Drive Technology Configurator. For converter operation, voltage codes/order codes are only admissible with one voltage only. The frequency converter for motors of category 1 (zone 21) needs a certified tripping unit for use in hazardous areas. For motors of category 3 (zone 2 and 22) a certified tripping unit is recommended. Alternatively, an external tripping unit can be used (see Catalog IC 10).

18) It can be combined with order code **N30**, **N31**, **L51** and **F70** on request. Not possible in combination with order code **L05**. Combination with protective cover is standard for FS 100 to 200. Protective cover not possible for FS 225 to 315.

19) Please inquire regarding combinations with order codes **N05**, **N06**, **N07**, **N08**, **N30**, **N31**, **D03**, **G30**, **C02**, **H20** and **H22**. Not permissible with order code **L05**. The type of protection of the separately driven fan must be selected to comply with that of the motor.

20) The frame sizes 280 and 315 in combination with order code **B40** or **B41** are equipped with "Bearing insulation NDE" as standard (order code **L51** is included in **B40**/**B41**).

21) Not admissible for frame size 315, 2-pole. An exception is elastic installation (please inquire).

22) Not admissible in combination with converter operation (order code **B40**, **B41**).

23) On request for 2-pole motors for line operation (concerns frame sizes 225 to 315).

24) Permissible paint film thickness up to 2 mm.

25) Not possible in vertical version with downward shaft extension DE.

26) Not possible in combination with order code **Q02** or **Q03**.

27) Not possible in combination with order code **R50**.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Selection and ordering data

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	Ex eb (zone 1)	IE3
		1MB1042																
		1MB1543 Basic Line																
						1MB1643 Performance Line												
1MB1042 - . . . . . - . . . . -Z												1MB5543 Basic Line						
1MB . 5 . . - . . . . . - . . . . -Z	Order code																	
1MB . 6 . . - . . . . . - . . . . -Z												1MB5643 Performance Line						
Explosion-proof version																		
Design IIC with marking IIB [1]	**B31**	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
Version additionally for dust Ex tb – Zone 21; IP65 [2]	**B32**	278.–	278.–	288.–	303.–	316.–	335.–	398.–	556.–	845.–	1030.–	1170.–	1290.–	1400.–	1510.–			
T1/T2 on rating plate [3]	**B33**	–	–	–	–	–	–	○	○	○	○	○	○	○	○			
VIK version [19]	**C02**	86.50	86.50	86.50	86.50	86.50	88.60	105.–	105.–	181.–	190.–	214.–	327.–	563.–	874.–			
Motor protection																		
2 Pt100 screw-in thermometers in basic configuration for bearing (2 terminals) [4]	**Q72**	–	–	–	–	–	–	–	–	4220.–	4220.–	4220.–	4220.–	4220.–	4220.–			
2 Pt100 screw-in thermometers in 3-wire input for bearing (6 terminals) [4]	**Q78**	–	–	–	–	–	–	–	–	4640.–	4640.–	4640.–	4640.–	4640.–	4640.–			
2 Pt100 double screw-in thermometers in 3-wire input for bearing (12 terminals) [4]	**Q79**	–	–	–	–	–	–	–	–	–	–	–	–	5560.–	5560.–			
Motor connection and terminal box																		
External grounding		◘	◘	◘	◘	◘	◘	◘	◘	◘	◘	◘	◘	◘	◘			
Second external grounding	**H70**	–	–	–	–	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50			
Rotation of the terminal box through 90°, entry from DE	**R10**	○	○	○	○	○	○	○	○	44.20	57.30	70.70	84.90	101.–	122.–			
Rotation of the terminal box through 90°, entry from NDE	**R11**	○	○	○	○	○	○	○	○	44.20	57.30	70.70	84.90	101.–	122.–			
Rotation of the terminal box through 180°	**R12**	○	○	○	○	○	○	○	○	44.20	57.30	70.70	84.90	101.–	122.–			
Metal cable gland, maximum configuration	**R18**	127.–	127.–	127.–	127.–	231.–	231.–	231.–	284.–	284.–	315.–	315.–	433.–	433.–	433.–			
Saddle terminals for connection without cable lug, accessories pack (6 items)		–	–	–	–	–	–	–	–	–	–	◘	◘	◘	◘			
Larger terminal box [15]	**R50**	48.50	48.50	101.–	101.–	210.–	210.–	269.–	307.–	466.–	513.–	1630.–	1860.–	1860.–	2190.–			
Drilled removable entry plate	**R52**	–	–	–	–	–	–	–	–	–	–	431.–	716.–	716.–	500.–			
Undrilled removable entry plate	**R53**	–	–	–	–	–	–	–	–	–	–	375.–	623.–	623.–	650.–			
Cast-iron auxiliary terminal box (small)	**R62**	–	–	–	–	278.–	278.–	278.–	278.–	278.–	278.–	278.–	278.–	278.–	278.–			
Cast-iron auxiliary terminal box (large)	**R63**	–	–	–	–	–	–	–	–	–	–	695.–	695.–	695.–	695.–			
2 small cast-iron auxiliary terminal boxes	**R67**	–	–	–	–	556.–	556.–	556.–	556.–	556.–	556.–	556.–	556.–	556.–	556.–			
Windings and insulation																		
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 % [5]	**N05**	41.20	41.20	41.20	41.20	47.40	47.40	63.–	63.–	80.30	80.30	91.30	91.30	107.–	107.–			
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 % [5]	**N06**	41.20	41.20	41.20	41.20	47.40	47.40	63.–	63.–	80.30	80.30	91.30	91.30	107.–	107.–			
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 % [5]	**N07**	64.40	64.40	72.90	85.80	106.–	129.–	164.–	204.–	263.–	320.–	474.–	597.–	764.–	993.–			
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 % [5]	**N08**	64.40	64.40	72.90	85.80	106.–	129.–	164.–	204.–	263.–	320.–	474.–	597.–	764.–	993.–			
Increased air humidity/ temperature with 30 to 60 g water per m^3 of air	**N30**	134.–	134.–	134.–	134.–	134.–	134.–	134.–	206.–	299.–	412.–	639.–	855.–	1080.–	1320.–			
Increased air humidity/ temperature with 60 to 100 g water per m^3 of air	**N31**	196.–	196.–	216.–	216.–	216.–	247.–	278.–	391.–	505.–	649.–	917.–	1180.–	1490.–	1780.–			
Colors and paint finish																		
Standard finish C2 in RAL 7030 stone gray		◘	◘	◘	◘	◘	◘	◘	◘	◘	◘	◘	◘	◘	◘	Only for: 1MB.5..		
Unpainted (only cast-iron parts primed)	**S00**	○	○	○	○	○	○	○	○	○	○	○	○	○	○			

For legends and footnotes, see Page 4/81.

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Options · Aluminum serie 1MB1024; Cast-iron series 1MB1543, 1MB5543 Basic Line; 1MB1643, 1MB5643 Performance Line

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version IEC	Ex eb (zone 1)	IE3
		1MB1042																
		1MB1543 Basic Line																
						1MB1643 Performance Line												
												1MB5543 Basic Line						
												1MB5643 Performance Line						
1MB1042 - . . . . . - . . . . -Z **1MB . 5 . . - . . . . . - . . . . -Z** **1MB . 6 . . - . . . . . - . . . . -Z**	Order code																	
Colors and paint finish (continued)																		
Unpainted, only primed	**S01**	20.50	20.50	20.50	27.30	27.30	27.30	43.50	43.50	81.70	81.70	81.70	81.70	81.70	81.70			
Special finish C3	**S02**	36.10	36.10	36.10	36.10	61.80	61.80	82.40	82.40	113.–	124.–	185.–	227.–	268.–	299.–	Only for: 1MB.5..		
		–	–	–	–	□	□	□	□	□	□	□	□	□	□	Only for: 1MB.6..		
Special finish sea air resistant C4	**S03**	494.–	494.–	494.–	494.–	525.–	525.–	577.–	577.–	618.–	659.–	700.–	742.–	783.–	814.–			
Special paint for use offshore C5	**S04**	–	2010.–	2010.–	2010.–	2110.–	2220.–	2340.–	2460.–	2590.–	2720.–	3140.–	4090.–	5120.–	7910.–			
Internal coating	**S05**	–	–	–	–	87.60	87.60	87.60	87.60	87.60	87.60	87.60	108.–	124.–	134.–			
Top coat polyurethane [6]	**S06**	30.90	30.90	30.90	50.50	72.10	71.10	147.–	206.–	247.–	303.–	389.–	485.–	613.–	779.–			
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53 •** and finish RAL ….	25.80	25.80	25.80	25.80	41.20	41.20	56.70	56.70	82.40	113.–	124.–	155.–	185.–	258.–	Only for: 1MB.5..		
Finish in special RAL colors: RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56 •** and finish RAL ….	608.–	608.–	608.–	608.–	649.–	649.–	680.–	680.–	690.–	700.–	711.–	721.–	731.–	742.–			
Mechanical version and degrees of protection																		
Low-noise version for 2-pole motors with clockwise direction of rotation [7] [19]	**F77**	–	–	–	–	–	–	O. R.	O. R.	O. R.	O. R.	1640.–	1900.–	2160.–	2420.–			
Low-noise version for 2-pole motors with counter-clockwise direction of rotation [7] [19]	**F78**	–	–	–	–	–	–	O. R.	O. R.	O. R.	O. R.	1640.–	1900.–	2160.–	2420.–			
Protective cover	**H00**	55.60	55.60	55.60	55.60	80.80	80.80	141.–	141.–	188.–	283.–	375.–	469.–	562.–	751.–			
Screwed-on (instead of cast) feet	**H01**	–	–	–	–	102.–	111.–	121.–	129.–	364.–	428.–	507.–	753.–	846.–	974.–			
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994	**H02**	–	127.–	145.–	165.–	185.–	205.–	222.–	258.–	309.–	371.–	433.–	515.–	597.–	680.–			
Condensation drainage holes [8]	**H03**	63.90	63.90	66.30	74.–	□	□	□	□	□	□	□	□	□	□			
Rust-resistant screws (externally)	**H07**	65.90	65.90	67.–	67.–	81.10	81.10	95.90	95.90	110.–	125.–	167.–	199.–	207.–	275.–			
IP66 degree of protection	**H19**	–	310.–	310.–	310.–	310.–	310.–	310.–	462.–	618.–	772.–	930.–	1090.–	1240.–	1390.–			
IP65 degree of protection [9]	**H20**	147.–	147.–	147.–	147.–	147.–	147.–	147.–	220.–	296.–	367.–	443.–	517.–	589.–	663.–			
IP56 degree of protection [9]	**H22**	163.–	163.–	163.–	163.–	163.–	163.–	163.–	242.–	322.–	405.–	487.–	568.–	650.–	728.–			
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar Not possible for type of construction IM V3.	**H23**	44.90	44.90	47.40	50.70	56.40	61.70	75.30	110.–	142.–	176.–	234.–	311.–	390.–	469.–			
Coolant temperature and installation altitude																		
Coolant temperature –40 °C to +40 °C [10]	**D03**	325.–	325.–	390.–	456.–	585.–	715.–	909.–	1300.–	1570.–	1820.–	2200.–	2730.–	3640.–	5120.–			
Versions in accordance with standards and specifications																		
IEC Ex certification	**D37**	–	217.–	217.–	217.–	217.–	217.–	217.–	228.–	228.–	332.–	332.–	439.–	643.–	764.–			
Bearings and lubrication																		
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A	**L19**	–	–	–	–	–	–	–	–	375.–	422.–	469.–	562.–	O	O			
Located bearing DE	**L20**	39.–	39.–	39.–	41.40	71.40	84.60	104.–	142.–	300.–	416.–	585.–	753.–	974.–	1050.–			
Located bearing NDE	**L21**	39.–	39.–	39.–	41.40	71.40	84.60	104.–	□	□	□	□	□	□	□			
Bearing design for increased cantilever forces [11]	**L22**	–	72.10	79.30	87.60	98.80	115.–	130.–	172.–	273.–	316.–	356.–	412.–	461.–	515.–			
Regreasing device	**L23**	–	–	–	–	311.–	319.–	329.–	356.–	375.–	422.–	469.–	562.–	□	□	Only for: 1MB.5..		
		–	–	–	–	311.–	319.–	329.–	□	□	□	□	□	□	□	Only for: 1MB.6..		
Reinforced bearings at both ends for DE and NDE, bearing size 63	**L25**	–	134.–	165.–	199.–	199.–	232.–	260.–	346.–	459.–	565.–	803.–	1110.–	□	□	Only for: 1MB.5..		
		–	–	–	–	□	□	□	□	□	□	□	□	□	□	Only for: 1MB.6..		
Reinforced bearings at both DE and NDE, DE bearing for increased cantilever forces	**L28**	–	–	–	–	–	–	–	–	732.–	882.–	1150.–	1520.–	–	–			

For legends and footnotes, see Page 4/81.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Options · Aluminum serie 1MB1024; Cast-iron series 1MB1543, 1MB5543 Basic Line; 1MB1643, 1MB5643 Performance Line

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version
		1MB1042														IEC Ex eb (zone 1) IE3
		1MB1543 Basic Line														
1MB1042 - . . . . . - . . . . -Z						1MB1643 Performance Line										
1MB . 5 . . - . . . . . - . . . . -Z	Order code														1MB5543 Basic Line	
1MB . 6 . . - . . . . . - . . . . -Z															1MB5643 Performance Line	
Bearings and lubrication (continued)																
Bearing insulation DE [23]	**L50**	–	–	–	–	–	–	–	–	–	–	1730.–	1850.–	1920.–	2010.–	
Bearing insulation NDE [23]	**L51**	–	–	–	–	–	–	–	–	–	–	1730.–	1850.–	1920.–	2010.–	
Measuring nipple for SPM shock pulse measurement for bearing inspection	**Q01**	–	–	–	–	252.–	282.–	311.–	343.–	370.–	400.–	430.–	459.–	488.–	518.–	
Balance and vibration quantity																
Vibration quantity level A		□	□	□	□	□	□	□	□	□	□	□	□	□	□	
Vibration quantity level B	**L00**	237.–	237.–	250.–	265.–	278.–	321.–	411.–	509.–	798.–	803.–	882.–	1120.–	1310.–	1680.–	
Half-key balancing		□	□	□	□	□	□	□	□	□	□	□	□	□	□	
Balancing without key	**L01**	21.40	21.40	21.40	21.40	27.80	27.80	32.90	32.90	42.80	42.80	58.10	58.10	70.70	82.–	
Full-key balancing	**L02**	94.20	94.20	94.20	109.–	109.–	109.–	126.–	126.–	159.–	159.–	205.–	205.–	205.–	205.–	
Shaft and rotor																
Shaft extension with standard dimensions, without feather keyway	**L04**	–	–	–	–	515.–	542.–	569.–	598.–	694.–	764.–	833.–	903.–	972.–	1040.–	
Standard cylindrical shaft extension (second shaft extension) NDE in acc. with EN 50347 [12]	**L05**	83.20	83.20	95.90	95.90	140.–	140.–	185.–	213.–	322.–	357.–	376.–	392.–	464.–	509.–	
Standard shaft made of stainless steel (e.g. 1.4021)	**L06**	124.–	124.–	124.–	144.–	165.–	227.–	350.–	556.–	662.–	988.–	1360.–	1620.–	2700.–	5770.–	
Concentricity of shaft extension in acc. with DIN 42955 Tolerance R [13]	**L07**	239.–	239.–	239.–	239.–	263.–	263.–	400.–	400.–	207.–	233.–	277.–	363.–	363.–	554.–	
Concentricity of shaft extension, coaxiality and linear movement in acc. with DIN 42955 Tolerance R for flange-mounting motors [13]	**L08**	148.–	148.–	176.–	207.–	236.–	265.–	296.–	367.–	443.–	517.–	589.–	663.–	739.–	811.–	
Non-standard cylindrical shaft extension DE [14]	**Y58** • and customer specifications	430.–	430.–	459.–	486.–	515.–	542.–	569.–	598.–	694.–	764.–	833.–	903.–	972.–	1040.–	
Non-standard cylindrical shaft extension NDE [14]	**Y59** • and customer specifications	430.–	430.–	459.–	486.–	515.–	542.–	569.–	598.–	694.–	764.–	833.–	903.–	972.–	1040.–	
Heating and ventilation																
Sheet metal fan cover		□	□	□	□	□	□	□	□	□	□	□	□	□	□	
Metal external fan [15]	**F76**	□	□	□	□	□	□	□	□	□	□	□	□	□	□	
Anti-condensation heating for 230 V [20]	**Q02**	1020.–	1020.–	1020.–	1020.–	1020.–	1030.–	1080.–	1130.–	1180.–	1240.–	1290.–	1340.–	1340.–	1390.–	
Anti-condensation heating for 115 V [20]	**Q03**	1020.–	1020.–	1020.–	1020.–	1020.–	1030.–	1080.–	1130.–	1180.–	1240.–	1290.–	1340.–	1340.–	1390.–	
Rating plate and extra rating plates																
Second rating plate, loose	**M10**	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	66.30	66.30	66.30	66.30	66.30	66.30	
Rating plate, stainless steel	**M11**	41.40	41.40	41.40	41.40	41.40	41.40	41.40	41.40	50.60	50.60	□	□	□	□	Only for: 1MB.5..
		–	–	–	–	□	□	□	□	□	□	□	□	□	□	Only for: 1MB.6..
Extra rating plate with deviating rating plate data	**Y80** • and customer specifications	72.10	72.10	72.10	72.10	103.–	103.–	103.–	103.–	155.–	155.–	206.–	206.–	206.–	206.–	
Extra rating plate with identification codes	**Y82** • and customer specifications	40.70	40.70	40.70	40.70	40.70	40.70	40.70	40.70	68.–	68.–	68.–	84.90	84.90	107.–	
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	40.70	40.70	40.70	40.70	40.70	40.70	40.70	40.70	68.–	68.–	68.–	84.90	84.90	107.–	
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 [15]	**Q80**	–	–	–	–	–	–	–	–	252.–	338.–	423.–	536.–	731.–	1490.–	Only for: 1MB.5..
		–	–	–	–	□	□	□	□	□	□	□	□	□	□	Only for: 1MB.6..
Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery [16]	**Q82**	–	–	–	–	–	–	–	–	379.–	507.–	634.–	804.–	1100.–	2240.–	Only for: 1MB.5..
		–	–	–	–	□	□	□	□	□	□	□	□	□	□	Only for: 1MB.6..

For legends and footnotes, see Page 4/81.

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Options · Aluminum serie 1MB1024; Cast-iron series 1MB1543, 1MB5543 Basic Line; 1MB1643, 1MB5643 Performance Line

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 63	71	80	90	100	112	132	160	180	200	225	250	280	315	Motor version
		1MB1042														IEC Ex eb (zone 1) IE3
			1MB1543 Basic Line													
						1MB1643 Performance Line										
1MB1042 - . . . . . - . . . . -Z																
1MB . 5 . . - . . . . . - . . . . -Z	Order code											1MB5543 Basic Line				
1MB . 6 . . - . . . . . - . . . . -Z												1MB5643 Performance Line				
Packaging, safety notes, documentation and test certificates																
Printed Operating Instructions (compact) for explosion-proof motors enclosed in English and German [17]		□	□	□	□	□	□	□	□	□	□	□	□	□	□	
Acceptance test certificate 3.1 in accordance with EN 10204 [18]	**B02**	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	
Document – Electrical data-sheet	**B60**	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	
Document – Order dimensional drawing	**B61**	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	
Standard test (routine test) with acceptance	**B65**	–	–	–	–	1240.–	1240.–	1240.–	1390.–	1390.–	1390.–	1680.–	1720.–	1660.–	2010.–	
Type test with heat run for horizontal motors, without acceptance	**B82**	3090.–	3320.–	4080.–	4840.–	5600.–	6370.–	7130.–	7890.–	8650.–	9410.–	10200.–	10900.–	11700.–	12500.–	
Type test with heat run for horizontal motors, with acceptance	**B83**	4860.–	4860.–	5620.–	6390.–	7150.–	7910.–	8670.–	9430.–	10200.–	11000.–	11700.–	12500.–	13200.–	14000.–	
Documentation package “Basic”	**B90**	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	
Documentation package “Advanced”	**B91**	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	
Documentation package “Projects”	**B92**	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	
Connected in star for dispatch	**M01**	23.50	23.50	23.50	23.50	28.30	28.30	28.30	28.30	37.20	37.20	37.20	46.–	46.–	46.–	
Connected in delta for dispatch	**M02**	23.50	23.50	23.50	23.50	28.30	28.30	28.30	28.30	37.20	37.20	□	□	□	□	

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
– Not possible
O. R.Possibile on request

1) Permissible paint film thickness up to 2 mm.

2) Please inquire regarding combination with order codes **D03** and **C02**. Not possible in combination with order codes **H20** and **H22**.

3) Motors in these frame sizes have a second rating plate (T1/T2 and T3) as standard.
The T3 power is stamped on the rating plate as standard if the following motors are selected with PTC thermistor (protection by PTC thermistor only) or voltage code "**90**":
- 2-pole motors: Frame sizes 132 to 160
- 4-pole motors: Frame size 180
Alternatively, with order code **B33**, the "T1/T2 power is stamped on the rating plate".
- 2-pole motors: Frame sizes 132 to 200
- 4-pole motors: Frame sizes 180 to 200

4) Evaluation with appropriate tripping unit (see Catalog IC 10) is recommended. A certified tripping unit is necessary for use in hazardous areas.

5) The maximum possible certified power will be supplied.
For motors with T1/T2, T3 power, T3 power is supplied.
The T1/T2 power must be ordered with the order code **B33**.

6) Order code S06 cannot be combined with order code **B32**.

7) The motors are up to 80 mm longer than normal. A second shaft extension is not possible.

8) Supplied with the condensation drainage holes sealed at the drive end DE and non-drive end NDE for IP55, IP56 and IP65 degrees of protection. If condensation drainage holes are required in motors of the IM B6, IM B7 or IM B8 type of construction (feet located on side or top), it is necessary to relocate the bearing plates at the drive end (DE) and non-drive end (NDE) so that the condensation drainage holes situated between the feet on delivery are underneath.

9) Not possible in combination with version additionally for dust Ex tb – Zone 21; IP65 – order code **B32**. Degree of protection IP65 is prescribed for the version for Zone 21.

10) Not possible in combination with vibration-proof version, order code **H02**.

11) Not possible for 2-pole motors, frame size 315 L in vertical frame sizes; bearings for increased cantilever forces for vibration severity grade B are available on request for motors of frame size 225 M and above. Not possible for motors of frame size 225 M and above in combination with concentricity of shaft extension, coaxiality and linear movement according to DIN 42955 tolerance R for flange-mounting types.

12) For motors of frame size 180 M and above in vertical type of construction in version with second shaft extension on request. Not possible for low-noise version (2-pole) for frame sizes 132 S to 160 L. Version with protective cover not possible.

13) Can be combined with deep-groove bearings of series 60.., 62.. and 63… Not possible in combination with parallel roller bearings (e.g. bearings for increased cantilever forces, order code **L22**).

14) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer in accordance with the appropriate standard. Not valid for: Conical shafts, non-standard threaded stems, 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**:
–Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under “Dimensions”)
–Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension
For explanation of the order codes, see Catalog D 81.1 Section 1 “Introduction”.

15) During a transition time, the metal outer fan will be standard without additional price. The metal external fan is not possible in combination with the low-noise version – order code **F77** or **F78**.

16) Wearing parts (bearings) are excluded from the warranty extension.

17) The Operating Instructions contain a DVD with all official EU languages, Chinese and Russian in PDF format. It is also available on the Internet at http://support.automation.siemens.com/WW/view/en/10803948/133300

18) The delivery time for the factory test certificate may differ from the delivery time for the motor.

19) The motors may exceed the noise levels defined by VIK.

20) For frame sizes 71 to 90 in combination with the order codes **Q02** and **Q03**, **R50** is the standard version (the additional price R50 is already contained in **Q02** and **Q03**).

21) Not permissible for frame size 315, 2-pole, except for elastic installation.

22) For frame sizes 100 and 112, only permissible in combination with order code **R50**.

23) It is not permissible to combine order codes **L50** and **L51**.

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Selection and ordering data

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	355	Motor version
		1MB15.3, 1MB15.6, 1MB15.7														IEC Ex db, IE3 Ex eb (zone 1)
								1MB5553, 1MB5555, 1MB5556, 1MB5557								
1MB1 . . . - . . . . . - . . . . -Z					1MB1853											
1MB5 . 5 . - . . . . . - . . . . -Z	Order code													1MB5853		
Explosion-proof version																
Version additionally for dust Ex tb – Zone 21; IP65 21) 26)	**B32**	278.–	288.–	303.–	316.–	335.–	398.–	556.–	845.–	1030.–	1170.–	1290.–	1400.–	1510.–	1600.–	
VIK version 18)	**C02**	86.50	86.50	86.50	86.50	88.60	105.–	105.–	181.–	190.–	214.–	327.–	563.–	874.–	1110.–	
Version Chemstar chemical Industry	**C03**	650.–	660.–	660.–	850.–	870.–	970.–	1100.–	1300.–	1400.–	1800.–	2200.–	2500.–	2800.–	4290.–	Only for: 1MB..5. Ex db IIC
Version Chemstar Oil & Gas Industry	**C04**	190.–	190.–	200.–	310.–	340.–	390.–	510.–	650.–	810.–	1000.–	1300.–	1350.–	1400.–	2670.–	Only for: 1MB..5. Ex db IIC
Version for converter operation																
Version for converter operation with power data on the PWM converter 6	**B43**	92.70	103.–	113.–	134.–	155.–	175.–	206.–	237.–	268.–	309.–	361.–	2330.–	2470.–	2590.–	
Version for converter operation with power data on the PWM converter, utilization in accordance with temperature class 155 (F) 6)	**B44**	92.70	103.–	113.–	134.–	155.–	175.–	206.–	237.–	268.–	309.–	361.–	2330.–	2470.–	2590.–	
Motor protection																
2 Pt100 screw-in thermometers in basic configuration for bearing (2 terminals) 1)	**Q72**	–	–	–	–	–	–	4220.–	4220.–	4220.–	4220.–	4220.–	4220.–	4220.–	4220.–	
2 Pt100 screw-in thermometers in 3-wire input for bearing (6 terminals) 1)	**Q78**	–	–	–	–	–	–	4640.–	4640.–	4640.–	4640.–	4640.–	4640.–	4640.–	4640.–	
2 Pt100 double screw-in thermometers in 3-wire input for bearing (12 terminals) 1)	**Q79**	–	–	–	–	–	–	–	–	–	–	5560.–	5560.–	5560.–	5560.–	
Motor connection and terminal box																
External grounding		□	□	□	□	□	□	□	□	□	□	□	□	□	□	
Second external grounding	**H70**	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	
Rotation of the terminal box through 90°, entry from DE	**R10**	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	57.30	70.70	84.90	101.–	122.–	137.–	
Rotation of the terminal box through 90°, entry from NDE	**R11**	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	57.30	70.70	84.90	101.–	122.–	137.–	
Rotation of the terminal box through 180°	**R12**	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	57.30	70.70	84.90	101	122	137	
Metal cable gland, maximum configuration 20)	**R18**	127.–	127.–	127.–	231.–	231.–	231.–	284.–	284.–	315.–	315.–	433.–	433.–	433.–	433.–	
1 cable gland, Ex eb, for armored cables (main supply)	**R45**	240.–	240.–	240.–	290.–	290.–	290.–	340.–	340.–	410.–	410.–	500.–	500.–	500.–	900.–	
2 cable glands, Ex eb, for armored cables (main supply)	**R46**	–	–	–	580.–	580.–	580.–	680.–	680.–	820.–	820.–	1000.–	1000.–	1000.–	1000.–	
Main terminal box in in Ex db IIC 28)	**R48**	956.–	956.–	956.–	956.–	956.–	1250.–	1250.–	1840.–	1840.–	1840.–	2120.–	2120.–	3420.–	3420.–	Only for: 1MB..5. Ex db IIC
Auxiliary terminal box in Ex db IIC 28)	**R49**	–	–	–	–	–	–	1510.–	1510.–	1900.–	1900.–	1900.–	1900.–	1900.–	2390.–	Only for: 1MB..5. Ex db IIC
Larger terminal box 17)	**R50**	48.50	101.–	101.–	210.–	210.–	269.–	307.–	466.–	513.–	1630.–	1860.–	1860.–	2190.–	–	
Enlarged connection system for main terminal box 17)	**R54**	459.–	459.–	459.–	678.–	678.–	795.–	871.–	1190.–	1280.–	–	–	–	–	–	
Cast-iron auxiliary terminal box (small)	**R62**	278.– 24)	278.– 24)	278.– 24)	278.– 23)	278.– 23)	278.– 23)	278.–	278.–	278.–	278.–	278.–	278.–	278.–	278.–	
Cast-iron auxiliary terminal box (large)	**R63**	–	–	–	–	–	–	–	–	695.– 24)	695.– 23)	695.–	695.–	695.–	695.–	
2 small cast-iron auxiliary terminal boxes	**R67**	556.– 24)	556.– 24)	556.– 24)	556.– 23)	556.– 23)	556.– 23)	556.–	556.–	556.–	556.–	556.–	556.–	556.–	556.–	
Non-standard threaded through hole (NPT or G thread)	**Y61** • and customer specifications	152.–	152.–	152.–	152.–	152.–	152.–	152.–	199.–	265.–	331.–	394.–	530.–	657.–	752.–	
Windings and insulation																
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 %	**N05**	41.20	41.20	41.20	47.40	47.40	63.–	63.–	80.30	80.30	91.30	91.30	107.–	107.–	107.–	

For legends and footnotes, see Page 4/86.

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Options · Cast-iron series 1MB15.3, 1MB15.6, 1MB15.7, 1MB1853, 1MB5553, 1MB5556, 1MB5557, 1MB5853

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size														Motor version
		71	**80**	**90**	**100**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	**315**	**355**	
		1MB15.3, 1MB15.6, 1MB15.7														IEC Ex db, Ex eb (zone 1) IE3
													1MB5553, 1MB5555, 1MB5556, 1MB5557			
1MB1 . . . - . . . . . - . . . . -Z					**1MB1853**											
1MB5 . 5 . - . . . . . - . . . . -Z	Order code													**1MB5853**		
Windings and insulation (continued)																
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 %	**N06**	41.20	41.20	41.20	47.40	47.40	63.–	63.–	80.30	80.30	91.30	91.30	107.–	107.–	107.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 %	**N07**	64.40	72.90	85.80	106.–	129.–	164.–	204.–	263.–	320.–	474.–	597.–	764.–	993.–	1160.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 %	**N08**	64.40	72.90	85.80	106.–	129.–	164.–	204.–	263.–	320.–	474.–	597.–	764.–	993.–	1160.–	
Increased air humidity/ temperature with 30 to 60 g water per m^3 of air	**N30**	134.–	134.–	134.–	134.–	134.–	134.–	206.–	299.–	412.–	639.–	855.–	1080.–	1320.–	1490.–	
Increased air humidity/ temperature with 60 to 100 g water per m^3 of air [22]	**N31**	196.–	216.–	216.–	216.–	247.–	278.–	391.–	505.–	649.–	917.–	1180.–	1490.–	1780.–	2000.–	
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude	**Y50 •** and spec. power, CT .. °C or 'IA …. m above sea level	159.–	159.–	159.–	159.–	192.–	247.–	304.–	393.–	483.–	711.–	894.–	1140.–	1480.–	1740.–	
Colors and paint finish																
Standard finish C2 in RAL 7030 stone gray		□	□	□	□	□	□	□	□	□	□	□	□	□	□	
Unpainted (only cast-iron parts primed)	**S00**	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Unpainted, only primed	**S01**	20.50	20.50	27.30	27.30	27.30	43.50	43.50	81.70	81.70	81.70	81.70	81.70	81.70	81.70	
Special finish C3	**S02**	36.10	36.10	36.10	61.80	61.80	82.40	82.40	113.–	124.–	185.–	227.–	268.–	299.–	322.–	
Special finish sea air resistant C4	**S03**	494.–	494.–	494.–	525.–	525.–	577.–	577.–	618.–	659.–	700.–	742.–	783.–	814.–	837.–	
Special paint for use offshore C5	**S04**	2010.–	2010.–	2010.–	2110.–	2220.–	2340.–	2460.–	2590.–	2720.–	3140.–	4090.–	5120.–	7910.–	10000.–	
Internal coating	**S05**	87.60	87.60	87.60	87.60	87.60	87.60	87.60	87.60	87.60	87.60	108.–	124.–	134.–	142.–	
Top coat polyurethane [16]	**S06**	30.90	30.90	50.50	72.10	71.10	147.–	206.–	247.–	303.–	389.–	485.–	613.–	779.–	903.–	
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53 •** and finish RAL ….	25.80	25.80	25.80	41.20	41.20	56.70	56.70	82.40	113.–	124.–	155.–	185.–	258.–	312.–	
Finish in special RAL colors: RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56 •** and finish RAL ….	608.–	608.–	608.–	649.–	649.–	680.–	680.–	690.–	700.–	711.–	721.–	731.–	742.–	752.–	
Modular technology – Basic versions																
Mounting of separately driven fan [27]	**F70**	–	–	–	–	–	–	–	–	–	6800.–	6800.–	6800.–	7400.–	7400.–	Only for: 1MB..5. Ex db IIC
Modular technology – Additional versions																
Brake supply voltage 24 V DC	**F10**	–	○	○	○	○	○	○	○	○	–	–	–	–	–	Only for: 1MB..5. Ex db IIC
Brake supply voltage 230 V AC, 50/60 Hz	**F11**	–	○	○	○	○	○	○	○	○	–	–	–	–	–	Only for: 1MB..5. Ex db IIC
Brake supply voltage 400 V AC, 50/60 Hz	**F12**	–	○	○	○	○	○	○	○	○	–	–	–	–	–	Only for: 1MB..5. Ex db IIC
Mechanical manual brake release with lever (no locking)	**F50**	–	1300.–	1300.–	1300.–	1300.–	1300.–	1300.–	1300.–	1300.–	–	–	–	–	–	Only for: 1MB..5. Ex db IIC

For legends and footnotes, see Page 4/86.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors

Article No. supplements and special versions

Options · Cast-iron series 1MB15.3, 1MB15.6, 1MB15.7, 1MB1853, 1MB5553, 1MB5556, 1MB5557, 1MB5853

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size														Motor version
		71	80	90	100	112	132	160	180	200	225	250	280	315	355	
		1MB15.3, 1MB15.6, 1MB15.7														IEC Ex db, Ex eb (zone 1) IE3
											1MB5553, 1MB5555, 1MB5556, 1MB5557					
1MB1 . . . - . . . . . - . . . . -Z					1MB1853											
1MB5 . 5 . - . . . . . - . . . . -Z	Order code													1MB5853		
Special technology																
Mounting of brake in Ex db version [29]	**F20**		7270.–	7730.–	8220.–	8740.–	9300.–	9860.–	10500.–	11100.–						Only for: 1MB..5. Ex db IIC Not for: Combination with order code **D32**
Mounting of explosion-proof rotary pulse encoder LL 841 (HTL); 1024 I [18]	**G30**	–	–	–	8030.–	8030.–	8030.–	8030.–	8030.–	8030.–	9170.–	9170.–	9170.–	9170.–	9170.–	Only for: 1MB..5. Ex db IIC Not for: Combination with order code **D32**
Mechanical version and degrees of protection																
Low-noise version for 2-pole motors with clockwise direction of rotation [27]	**F77**	–	–	–	–	–	–	870.–	1130.–	1390.–	1640.–	1900.–	2160.–	2420.–	2610.–	Only for: 1MB..5. Ex db IIC
Low-noise version for 2-pole motors with counter-clockwise direction of rotation [27]	**F78**	–	–	–	–	–	–	870.–	1130.–	1390.–	1640.–	1900.–	2160.–	2420.–	2610.–	Only for: 1MB..5. Ex db IIC
Protective cover [4]	**H00**	55.60	55.60	55.60	80.80	80.80	141.–	141.–	188.–	283.–	375.–	469.–	562.–	751.–	892.–	
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994	**H02**	127.–	145.–	165.–	185.–	205.–	222.–	258.–	309.–	371.–	433.–	515.–	597.–	680.–	742.–	Not for: Combination with order code **F20**, **F70**, **R50**
External screws, bolts and unpainted materials made of stainless steel (V4A) [5]	**H06**	227.–	228.–	228.–	244.–	244.–	260.–	260.–	276.–	292.–	338.–	373.–	382.–	457.–	513.–	
Rust-resistant screws (externally)	**H07**	65.90	67.–	67.–	81.10	81.10	95.90	95.90	110.–	125.–	167.–	199.–	207.–	275.–	326.–	
IP66 degree of protection	**H19**	310.–	310.–	310.–	310.–	310.–	310.–	462.–	618.–	772.–	930.–	1090.–	1240.–	1390.–	2120.–	
IP65 degree of protection [5]	**H20**	147.–	147.–	147.–	147.–	147.–	147.–	220.–	296.–	367.–	443.–	517.–	589.–	663.–	719.–	
IP56 degree of protection [6]	**H22**	163.–	163.–	163.–	163.–	163.–	163.–	242.–	322.–	405.–	487.–	568.–	650.–	728.–	787.–	
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar Not possible for type of construction IM V3.	**H23**	44.90	47.40	50.70	56.40	61.70	75.30	110.–	142.–	176.–	234.–	311.–	390.–	469.–	527.–	Only for: 1MB..5. Ex db IIC
Adjustment screws for feet in horizontal installation [7]	**H30**	–	–	–	–	–	–	–	–	494.–	549.–	609.–	676.–	751.–	833.–	Only for: 1MB..5. Ex db IIC
Coolant temperature and installation altitude																
Coolant temperature –40 °C to +40 °C	**D03**	325.–	390.–	456.–	585.–	715.–	909.–	1300.–	1570.–	1820.–	2200.–	2730.–	3640.–	5120.–	5700.–	Only for: 1MB..5. Ex db IIC
Versions in accordance with standards and specifications																
Version IIC with stamping of IIB	**B31**	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Only for: 1MB..5. Ex db IIC
Ex certification for China [25]	**D32**	217.–	217.–	217.–	217.–	217.–	217.–	228.–	228.–	332.–	332.–	439.–	643.–	764.–	892.–	Only for: 1MB..5. Ex db IIC
China Energy Efficiency Label [25]	**D34**	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Only for: 1MB..5. Ex db IIC
EAC Ex certificate for the Eurasian customs union [25]	**D35**	217.–	217.–	217.–	217.–	217.–	217.–	228.–	228.–	332.–	332.–	439.–	643.–	764.–	855.–	Only for: 1MB..5. Ex db IIC
IEC Ex certification	**D37**	217.–	217.–	217.–	217.–	217.–	217.–	228.–	228.–	332.–	332.–	439.–	643.–	764.–	855.–	
MEPS Australia [25]	**D70**	692.–	692.–	692.–	692.–	692.–	692.–	713.–	713.–	921.–	921.–	1130.–	1550.–	1780.–	1970.–	Only for: 1MB..5. Ex db IIC
Bearings and lubrication																
Preparation for SPM measuring nipple – thread M8	**G50**	–	–	–	151.–	169.–	187.–	206.–	222.–	240.–	258.–	276.–	293.–	311.–	324.–	
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A	**L19**	–	–	–	–	–	–	351.–	375.–	422.–	469.–	562.–	○	○	○	
Located bearing DE	**L20**	□	□	□	□	□	□	□	□	□	□	□	□	□	□	
Located bearing NDE	**L21**	39.–	39.–	41.40	71.40	84.60	104.–	142.–	300.–	416.–	585.–	753.–	974.–	1050.–	1110.–	
Bearing design for increased cantilever forces [19]	**L22**	–	–	–	–	–	–	172.–	273.–	316.–	356.–	412.–	461.–	515.–	555.–	
Regreasing device	**L23**	–	–	–	–	–	–	356.–	375.–	422.–	469.–	562.–	□	□	□	
Bearing insulation NDE [3]	**L51**	–	–	–	–	–	–	1620.–	1640.–	1670.–	1730.–	1850.–	1920.–	2010.–	2080.–	
Measuring nipple for SPM shock pulse measurement for bearing inspection	**Q01**	–	–	–	252.–	282.–	311.–	343.–	370.–	400.–	430.–	459.–	488.–	518.–	540.–	

For legends and footnotes, see Page 4/86.

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Options · Cast-iron series 1MB15.3, 1MB15.6, 1MB15.7, 1MB1853, 1MB5553, 1MB5556, 1MB5557, 1MB5853

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 71	80	90	100	112	132	160	180	200	225	250	280	315	355	Motor version IEC	Ex db, Ex eb (zone 1)	IE3
		1MB15.3, 1MB15.6, 1MB15.7																
											1MB5553, 1MB5555, 1MB5556, 1MB5557							
1MB1 . . . - . . . . . - . . . . -Z					1MB1853													
1MB5 . 5 - . . . . . - . . . . -Z	Order code													1MB5853				
Balance and vibration quantity																		
Vibration quantity level A		□	□	□	□	□	□	□	□	□	□	□	□	□	□			
Vibration quantity level B [2]	**L00**	237.–	250.–	265.–	278.–	321.–	411.–	509.–	798.–	803.–	882.–	1120.–	1310.–	1680.–	1960.–			
Half-key balancing		□	□	□	□	□	□	□	□	□	□	□	□	□	□			
Balancing without key	**L01**	21.40	21.40	21.40	27.80	27.80	32.90	32.90	42.80	42.80	58.10	58.10	70.70	82.–	90.50			
Full-key balancing	**L02**	94.20	94.20	109.–	109.–	109.–	126.–	126.–	159.–	159.–	205.–	205.–	205.–	205.–	205.–			
Shaft and rotor																		
Shaft extension with standard dimensions, without feather keyway	**L04**	–	–	–	515.–	542.–	569.–	598.–	694.–	764.–	833.–	903.–	972.–	1040.–	1090.–			
Standard cylindrical shaft extension (second shaft extension) NDE in acc. with EN 50347	**L05**	83.20	95.90	95.90	140.–	140.–	185.–	213.–	322.–	357.–	376.–	392.–	464.–	509.–	543.–			
Standard shaft made of stainless steel (e.g. 1.4021)		124.–	124.–	144.–	165.–	227.–	350.–	556.–	662.–	988.–	1360.–	1620.–	2700.–	5770.–	6900.–			
Concentricity of shaft extension in acc. with DIN 42955 Tolerance R	**L07**	239.–	239.–	239.–	263.–	263.–	400.–	400.–	207.–	233.–	277.–	363.–	363.–	554.–	698.–			
Concentricity of shaft extension, coaxiality and linear movement in acc. with DIN 42955 Tolerance R for flange-mounting motors	**L08**	148.–	176.–	207.–	236.–	265.–	296.–	367.–	443.–	517.–	589.–	663.–	739.–	811.–	865.–			
Non-standard cylindrical shaft extension DE [8]	**Y58** • and customer specifications	430.–	459.–	486.–	515.–	542.–	569.–	598.–	694.–	764.–	833.–	903.–	972.–	1040.–	1090.–			
Non-standard cylindrical shaft extension NDE [8]	**Y59** • and customer specifications	430.–	459.–	486.–	515.–	542.–	569.–	598.–	694.–	764.–	833.–	903.–	972.–	1040.–	1090.–			
Heating and ventilation																		
Sheet metal fan cover		□	□	□	□	□	□	□	□	□	□	□	□	□	□			
Metal fan made of brass	**F68**	151.–	671.–	671.–	728.–	780.–	834.–	894.–	948.–	1000.–	1060.–	1110.–	1170.–	1230.–	1270.–			
Metal external fan [9]	**F76**	147.–	147.–	147.–	185.–	220.–	256.–	296.–	332.–	367.–	405.–	443.–	479.–	517.–	546.–			
Anti-condensation heating for 230 V [1] [10]	**Q02**	1020.–	1020.–	1020.–	1020.–	1030.–	1080.–	1130.–	1180.–	1240.–	1290.–	1340.–	1340.–	1390.–	1430.–			
Anti-condensation heating for 115 V [1] [10]	**Q03**	1020.–	1020.–	1020.–	1020.–	1030.–	1080.–	1130.–	1180.–	1240.–	1290.–	1340.–	1340.–	1390.–	1430.–			
Anti-condensation heating for 220 V [1] [10]	**Q04**	1020.–	1020.–	1020.–	1020.–	1030.–	1080.–	1130.–	1180.–	1240.–	1290.–	1340.–	1340.–	1390.–	1430.–			
Separately driven fan with non-standard voltage and/or frequency	**Y81** • and customer specifications	–	–	–	–	–	–	–	–	–	7200.–	7200.–	7200.–	7800.–	7800.–	Only for:	1MB..5. Ex db IIC	
Rating plate and extra rating plates																		
Second rating plate, loose	**M10**	20.70	20.70	20.70	20.70	20.70	20.70	20.70	66.30	66.30	66.30	66.30	66.30	66.30	66.30			
Rating plate, stainless steel	**M11**	□	□	□	□	□	□	□	□	□	□	□	□	□	□			
Extra rating plate with deviating rating plate data	**Y80** • and customer specifications	72.10	72.10	72.10	103.–	103.–	103.–	103.–	155.–	155.–	206.–	206.–	206.–	206.–	206.–			
Extra rating plate with identification codes	**Y82** • and customer specifications	40.70	40.70	40.70	40.70	40.70	40.70	40.70	68.–	68.–	68.–	85.–	85.–	107.–	107.–			
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	40.70	40.70	40.70	40.70	40.70	40.70	40.70	68.–	68.–	68.–	85.–	85.–	107.–	107.–			
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	**Q80**	48.10	52.60	64.60	74.70	92.–	122.–	199.–	252.–	338.–	423.–	536.–	731.–	1490.–	2590.–			
Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery	**Q82**	72.10	78.90	96.90	112.–	138.–	182.–	299.–	379.–	507.–	634.–	804.–	1100.–	2240.–	3880.–			
Packaging, safety notes, documentation and test certificates																		
Printed Operating Instructions (compact) for explosion-proof motors enclosed in English and German [11]		□	□	□	□	□	□	□	□	□	□	□	□	□	□			

For legends and footnotes, see Page 4/86.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors

Article No. supplements and special versions

Options · Cast-iron series 1MB15.3, 1MB15.6, 1MB15.7, 1MB1853, 1MB5553, 1MB5556, 1MB5557, 1MB5853

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size														Motor version		
		71	80	90	100	112	132	160	180	200	225	250	280	315	355			
		1MB15.3, 1MB15.6, 1MB15.7														IEC	Ex db, Ex eb (zone 1)	IE3
											1MB5553, 1MB5555, 1MB5556, 1MB5557							
1MB1 . . . - . . . . . - . . . . -Z					1MB1853													
1MB5 . 5 . - . . . . . - . . . . -Z	Order code													1MB5853				
Packaging, safety notes, documentation and test certificates (continued)																		
Acceptance test certificate 3.1 in accordance with EN 10204 [12]	**B02**	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10			
Document – Electrical datasheet	**B60**	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–			
Document – Order dimensional drawing	**B61**	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–	309.–			
Standard test (routine test) with acceptance	**B65**	1240.–	1240.–	1240.–	1240.–	1240.–	1240.–	1390.–	1390.–	1390.–	1680.–	1720.–	1660.–	2010.–	2060.–			
Noise measurement without load with octave band analysis, without acceptance [13]	**B71**	1220.–	1350.–	1480.–	1620.–	1740.–	1880.–	2010.–	2150.–	2280.–	2420.–	2540.–	2680.–	2810.–	2930.–			
Noise measurement without load with octave band analysis, with acceptance [14]	**B72**	1730.–	1930.–	2110.–	2310.–	2490.–	2690.–	2870.–	3070.–	3250.–	3450.–	3640.–	3830.–	4020.–	4170.–			
Type test with heat run for vertical motors, without acceptance [13]	**B80**	4090.–	4850.–	5610.–	6380.–	7140.–	7900.–	8510.–	9270.–	10000.–	10500.–	11200.–	12100.–	12500.–	13100.–			
Type test with heat run for vertical motors, with acceptance [14]	**B81**	4860.–	5620.–	6390.–	7150.–	7910.–	8670.–	9430.–	10200.–	11000.–	11700.–	12500.–	13200.–	14000.–	14600.–			
Type test with heat run for horizontal motors, without acceptance [13]	**B82**	4090.–	4850.–	5610.–	6380.–	7140.–	7900.–	8510.–	9270.–	10000.–	10500.–	11200.–	12100.–	12500.–	13100.–			
Type test with heat run for horizontal motors, with acceptance	**B83**	4860.–	5620.–	6390.–	7150.–	7910.–	8670.–	9430.–	10200.–	11000.–	11700.–	12500.–	13200.–	14000.–	14600.–			
Documentation package "Basic" [15]	**B90**	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–	597.–			
Documentation package "Advanced" [15]	**B91**	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–	906.–			
Documentation package "Projects" [15]	**B92**	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–	2470.–			
Wire-lattice pallet packaging	**B99**	○	○	○	○	○	○	○	–	–	–	–	–	–	–			
Connected in star for dispatch	**M01**	23.50	23.50	23.50	28.30	28.30	28.30	28.30	37.20	37.20	37.20	46.–	46.–	46.–	46.–			
Connected in delta for dispatch	**M02**	23.50	23.50	23.50	28.30	28.30	28.30	28.30	37.20	37.20	□	□	□	□	□			

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
– Not possible

1) Maximum number of connections for accessories, see terminal box concept.

2) Not admissible in combination with converter operation (order codes **B43**, **B44**).

3) The frame sizes 280, 315, and 355 in combination with order code **B43** or **B44** are equipped with "Bearing insulation NDE" as standard (order code **L51** is included in **B43**/**B44**).

4) The following applies for explosion-proof motors: In the case of the types of construction with shaft extension down, the version "with protective cover" is required. For types of construction with shaft extension pointing upwards, a suitable cover must be implemented to prevent small parts from falling into the fan cover (see the standard IEC/EN 60079-0). The cover must not block the cooling air flow.

5) 5) Rating plate, screws, grounding, and options with order codes **L19**, **L23**, **Q01** made of stainless steel (V4A).

6) 6) Power data in converter operation according to the VSD rating lists. Winding monitoring with PTC thermistor mandatory.
- Only in combination with single voltages, e.g.: **M4A**.
- Frame size 280 and larger with insulated bearings on the fan side (NDE).

7) 4 adjustment screws with lock nut for types of construction with feet.

8) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer in accordance with the appropriate standard. Not valid for: Conical shafts, non-standard threaded stems, 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**:
–Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under "Dimensions")
–Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension
For explanation of the order codes, see Catalog D 81.1 Section 1 "Introduction".

9) The material of the fan is aluminum, for frames sizes 225 to 355 steel . metal fans are painted with paint systems with film thickness 90 µm or more.

10) Connection in the main terminal box in the standard version.

11) The Operating Instructions are available in the Internet in PDF format for all official EU languages.

12) The delivery time for the acceptance test certificate may differ from the delivery time for the motor.

13) The delivery time is then approx. 20 working days longer.

14) The delivery time is then approx. 25 working days longer or the confirmed acceptance date.

15) Version and content of the documentation, see Catalog D 81.1 Chapter 1.

16) Not in combination with order codes **S00**, **S01**, and **S02**. Other colors, order codes **Y53** and **Y56**, on request.

17) Not in combination with order codes **R48** and **R49**.

18) For installation in a hostile and corrosive environment, paint system with order code S03 or better is recommended.

19) Only in combination with regreasing, order code **L19** or **L23**.

20) Cable glands in Ex e version.

21) Frame size 315 only in combination with order code **R50**, frame sizes 250 and 280 not in combination with order code **R50**.

22) Standard paint finish C2, we recommend C3 or better (e.g. order code **S02**, **S03**, **S04**).

23) Only possible in combination with order code **R50**.

24) Only possible in combination with order code **R54**.

25) Not possible in combination with **1MB..56** or **1MB..57**.

26) Only in combination with paint finish option, order code **S04**.

27) Not available in combination with order code **D03**.

28) Supplied without cable gland.

29) Select brake connection voltage separately, order codes **F10**, **F11**, or **F12** . note further details in Chapter 1 under "Modular technology", "Brakes".

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Selection and ordering data

Special versions **1MB55 . 4 - . . . . . - . . . . -Z** **1MB55 . 3 - . . . . . - . . . . -Z** **1MB58 . 3 - . . . . . - . . . . -Z**	Additional identification code **-Z** with order code and plain text if required Order code		Frame size **315**	**355**	**400**	**450**	Motor version IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE4 / IE3
			1MB5514, 1MB5524, 1MB5534						
			1MB5513, 1MB5523, 1MB5533						
					1MB5813, 1MB5823, 1MB5833				
Explosion-proof version									
Design additional for dust Ex tc – zone 22	**B30**		788.–	854.–	894.–	941.–	Only for: 1MB553. - Ex ec (zone 2) frame sizes 315, 355		
Design IIC with marking IIB [20]	**B31**		O	O	204.–	204.–	Only for: 1MB553. - Ex ec (zone 2) frame sizes 315, 355		
VIK version	**C02**		874.–	1360.–	1680.–	1910.–	Only for: 1MB553. - Ex ec (zone 2) frame sizes 315, 355		
Design for converter data									
Design for converter operation in basic version with operating data SINAMICS G120 with PM240-2.	**B40**		O. R.	O. R.	O. R.	O. R.			
Design for converter operation in basic version with operating data SINAMICS S150.	**B41**		O. R.	O. R.	O. R.	O. R.			
Version of converter operation with operating data for voltage-source converter	**B43**		O. R.	O. R.	O. R.	O. R.			
Operating data such as the **B40** order code with alternative SINAMICS converter on the rating plate • G120 with PM230 • G120 with PM240 • G120C • G120P with PM230 • G120P with PM240-2 • G120P with PM240P-2 • G120P with PM330 • G130, G150, G180 • S120 (BLM/SLM) • V20 Operating data such as order code **B41** with alternative SINAMICS converters on the rating plate • S120 (ALM)	**Y68** • and converter type		O. R.	O. R.	O. R.	O. R.			
Motor protection									
1 or 3 PTC thermistors – for tripping (2 terminals) [1]	**Q11**		398.–	398.–	935.–	935.–	Not for:	Combination with Motor protection code **B** (15th position of the Article No.); Frame sizes 315 and 355 in combination with order code **L50**, **L51**	
2 or 6 PTC thermistors – for alarm and tripping (4 terminals) [1]	**Q12**		666.–	666.–	1040.–	1040.–	Not for:	Combination with Motor protection code **C** (15th position of the Article No.)	
3 NTC thermistors – for tripping (6 terminals)	**Q21**		–	–	1800.–	1800.–	Not for:	Combination with Motor protection code **F** (15th position of the Article No.)	
1 KTY84-130 temperature sensor (2 terminals) [1]	**Q23**		–	–	1250.–	1250.–	Not for:	Combination with Motor protection code **F** (15th position of the Article No.)	
2 KTY84-130 temperature sensors (4 terminals) [1]	**Q25**		–	–	1960.–	1960.–	Not for:	Combination with Motor protection code **G** (15th position of the Article No.)	
1 Pt1000 resistance thermometer (2 terminals)	**Q35**		868.–	868.–	1250.–	1250.–			
2 Pt1000 resistance thermometers (4 terminals)	**Q36**		1470.–	1470.–	1960.–	1960.–			
6 Pt1000 resistance thermometers (12 terminals)	**Q37**		–	–	2300.–	2300.–			
3 Pt100 resistance thermometers – 2-wire input (6 terminals) [1]	**Q60**		1640.–	1640.–	1670.–	1670.–	Not for:	Combination with Motor protection code **H** (15th position of the Article No.)	
6 Pt100 resistance thermometers – 2-wire input (12 terminals) [1]	**Q61**		2420.–	2420.–	2470.–	2470.–	Not for:	Combination with Motor protection code **J** (15th position of the Article No.)	
1 Pt100 resistance thermometer – 2-wire input (2 terminals)	**Q62**		1310.–	1310.–	1340.–	1340.–			
3 Pt100 resistance thermometers – 3-wire input (9 terminals)	**Q63**		1970.–	1970.–	2010.–	2010.–			
6 Pt100 resistance thermometers – 3-wire input (18 terminals)	**Q64**		2900.–	2900.–	2960.–	2960.–			
2 Pt100 screw-in thermometers in basic circuit for bearings (2 terminals) [1]	**Q72**		1630.–	1630.–	1660.–	1660.–			
2 Pt100 screw-in thermometers in 3-wire circuit for bearings (6 terminals) [1]	**Q78**		2060.–	2060.–	2100.–	2100.–			
2 double Pt100 screw-in thermometers in 3-wire circuit for bearings (12 terminals) [1]	**Q79**		2370.–	2370.–	2950.–	2950.–			

For legends and footnotes, see Page 4/92.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Options · Cast-iron series 1MB5514, 1MB5524, 1MB5534, 1MB5.13, 1MB5.23, 1MB5.33

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 315	355	400	450	Motor version
1MB55 . 4 - . . . . . - . . . . -Z 1MB55 . 3 - . . . . . - . . . . -Z 1MB58 . 3 - . . . . . - . . . . -Z	Order code	1MB5514, 1MB5524, 1MB5534 1MB5513, 1MB5523, 1MB5533		1MB5813, 1MB5823, 1MB5833		IEC Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2) IE4 / IE3
Motor connection and terminal box						
External grounding		□	□	□	□	
Terminal box at NDE	**H08**	1180.–	1240.–	2710.–	2710.–	
Two terminal boxes at NDE [17]	**H09**	–	–	5420.–	5420.–	
Second external grounding	**H70**	15.50	15.50	15.80	15.80	
Subsequently rotatable main terminal box	**R09**	–	–	691.–	804.–	
Rotation of the terminal box through 90°, entry from DE [12] [22]	**R10**	122.–	122.–	124.–	124.–	Not for: Combination with Type of construction letter **F, G, J** (15th position of the Article No.)
Rotation of the terminal box through 90°, entry from NDE	**R11**	122.–	122.–	124.–	124.–	
Rotation of the terminal box through 180°	**R12**	122.–	122.–	124.–	124.–	
One metal cable gland	**R15**	231.–	515.–	–	–	
EMC cable gland, maximum configuration	**R16**	–	–	4750.–	4750.–	
Stud terminals for cable connection, accessories pack (3 items)	**R17**	185.–	227.–	–	–	Only for: 1MB551. - Ex tb (zone 21) 1MB552. - Ex tc (zone 22) frame sizes 315 and 355
Metal cable gland, maximum configuration	**R18**	409.–	618.–	3270.–	3270.–	
Saddle terminals for connection without cable lug, accessories pack (6 items)	**R19**	721.–	1550.–	1580.–	1580.–	Only for: 1MB551. - Ex tb (zone 21) 1MB552. - Ex tc (zone 22) frame sizes 315 and 355
		□	□	–	–	Only for: 1MB553. - Ex ec (zone 2) frame sizes 315 and 355
Larger terminal box [13]	**R50**	2190.–	–	9810.–	9810.–	
Drilled removable entry plate	**R52**	500.–	618.–	□	□	
Undrilled removable entry plate	**R53**	–	–	□	□	
Cast-iron auxiliary terminal box (small)	**R62**	278.–	309.–	533.–	533.–	
Cast-iron auxiliary terminal box (large)	**R63**	618.–	618.–	2070.–	2070.–	
Stainless steel auxiliary terminal box (large)	**R65**	–	–	2030.–	2030.–	
Non-standard threaded through hole (NPT or G thread) [2]	**Y61** • and customer specifications	657.–	773.–	1580.–	1580.–	
Windings and insulation						
Temperature class 155 (F), utilized acc. to 155 (F), with service factor [9]	**N01**	–	–	□	□	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 % [15] [23]	**N05**	107.–	107.–	109.–	109.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 50 °C, derating approx. 8 % [15] [23]	**N06**	107.–	107.–	109.–	109.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 55 °C, derating approx. 13 % [15] [23]	**N07**	107.–	107.–	109.–	109.–	
Temperature class 155 (F), utilized acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 % [15]	**N08**	993.–	107.–	1010.–	109.–	
Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N30**	1320.–	1440.–	4780.–	5300.–	
Increased air humidity/temperature with 60 to 100 g water per m^3 of air	**N31**	1780.–	1960.–	5300.–	6040.–	
Temperature class 155 (F), utilized acc. to 130 (B), with higher coolant temperature and/or installation altitude [9]	**Y50** • and spec. power, CT .. °C or IA .... m above sea level	1480.–	2060.–	2630.–	3150.–	

For legends and footnotes, see Page 4/92.

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Options · Cast-iron series 1MB5514, 1MB5524, 1MB5534, 1MB5.13, 1MB5.23, 1MB5.33

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 315	355	400	450	Motor version
1MB55 . 4 - . . . . . - . . . . -Z **1MB55 . 3 - . . . . . - . . . . -Z** **1MB58 . 3 - . . . . . - . . . . -Z**	Order code	**1MB5514, 1MB5524, 1MB5534** **1MB5513, 1MB5523, 1MB5533**		**1MB5813, 1MB5823, 1MB5833**		IEC: Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2) — IE4 / IE3
Colors and paint finish						
Standard finish C2 in RAL 7030 stone gray		◘	◘	◘	◘	
Unpainted (only cast-iron parts primed)	**S00**	O	O	O	O	
Unpainted, only primed	**S01**	81.70	81.70	315.–	315.–	
Special finish C3	**S02**	299.–	361.–	1360.–	1720.–	
Special finish sea air resistant C4 [14]	**S03**	814.–	876.–	2610.–	2990.–	
Special paint for use offshore C5 [14]	**S04**	7910.–	8340.–	12600.–	14200.–	
Internal coating	**S05**	134.–	155.–	1200.–	1420.–	
Top coat polyurethane [6]	**S06**	779.–	824.–	◘	◘	Only for: 1MB553. - Ex ec (zone 2) frame sizes 315 and 355
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog D 81.1 Section 1 "Introduction")	**Y53 •** and finish RAL ….	258.–	309.–	420.–	525.–	
Finish in special RAL colors: RAL colors, see "Special finish in special RAL colors" (see Catalog D 81.1 Section 1 "Introduction")	**Y56 •** and finish RAL ….	742.–	900.–	1840.–	2330.–	
Modular technology – Basic version						
Mounting of separately driven fan [10]	**F70**	O. R.	O. R.	13700.–	13700.–	
Special technology						
Mounting of explosion-proof rotary pulse encoder LL 841 (HTL); 1024 I [24]	**G30**	O. R.	O. R.	9540.–	9540.–	
Mounting of a special type of rotary pulse encoder	**Y70 •** and customer specifications	–	–	O. R.	O. R.	
Mechanical design and degrees of protection						
Low-noise version for 2-pole motors with clockwise direction of rotation	**F77**	2420.–	2610.–	◘	◘	Only for: 2-pole motors Not for: Frame sizes 315 and 355 in combination with order codes **L05** ,and **L51**
Low-noise version for 2-pole motors with counter-clockwise direction of rotation	**F78**	2420.–	2610.–	O	O	Only for: 2-pole motors Not for: Frame sizes 315 and 355 in combination with order codes **L05** ,and **L51**
Prepared for mounted components, centering hole only	**G40**	–	–	◘	◘	
Mechanical protection for encoders	**G43**	O. R.	O. R.	4520.–	4520.–	
Protective cover	**H00**	751.–	876.–	2150.–	2570.–	
Vibration-proof version; vibration resistance to Class 3M4 according to IEC 60721-3-3:1994	**H02**	680.–	773.–	–	–	
Condensation drainage holes	**H03**	◘	◘	◘	◘	
Rust-resistant screws (externally)	**H07**	275.–	309.–	1370.–	1370.–	
IP66 degree of protection	**H19**	1390.–	2120.–	–	–	
IP65 degree of protection [19] [25]	**H20**	663.–	680.–	9240.–	11100.–	Only for: 1MB553. - Ex ec (zone 2) frame sizes 315 and 355
IP56 degree of protection [26]	**H22**	721.–	1440.–	2020.–	2700.–	Only for: 1MB553. - Ex ec (zone 2) frame sizes 315 and 355
Drive-end seal for flange-mounting motors, oil-tight to 0.1 bar	**H23**	469.–	546.–	–	–	
Sealing ring made of fluoroelastomer (FKM)	**H25**	134.–	227.–	473.–	735.–	Not for: Frame sizes 315 and 355 in combination with order code **D03**
Adjustment screws for feet in horizontal installation	**H30**	O. R.	O. R.	–	–	
Increased corrosion protection for external components	**H90**	–	–	12600.–	14200.–	

For legends and footnotes, see Page 4/92.

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SIMOTICS XP 1MB1, 1MB5 explosion-protected motors
Article No. supplements and special versions

Options · Cast-iron series 1MB5514, 1MB5524, 1MB5534, 1MB5.13, 1MB5.23, 1MB5.33

Special versions	Additional identification code -Z with order code and plain text if required	Frame size 315	355	400	450	Motor version
1MB55 . 4 - . . . . . - . . . . -Z 1MB55 . 3 - . . . . . - . . . . -Z		1MB5514, 1MB5524, 1MB5534				IEC Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2) IE4/IE3
		1MB5513, 1MB5523, 1MB5533				
1MB58 . 3 - . . . . . - . . . . -Z	Order code			1MB5813, 1MB5823, 1MB5833		
Coolant temperature and installation altitude						
Coolant temperature –40 °C to +40 °C	**D03**	2580.–	2780.–	16700.–	18400.–	
Designs in accordance with standards and specifications						
Electrical according to NEMA MG1-12 [17]	**D30**	–	–	□	□	
IECEx certification	**D37**	764.–	856.–	1100.–	1310.–	
MEPS Australia	**D70**	1380.–	–	–	–	Only for: 1MB55.3
Bearings and lubrication						
Regreasing device with M10 × 1 grease nipple according to DIN 71412-A	**L19**	○	○	○	○	
Located bearing DE	**L20**	1050.–	1240.–	□	□	
Located bearing NDE [11]	**L21**	□	□	1370.–	1470.–	
Bearing design for increased cantilever forces [7] [8]	**L22**	618.–	1440.–	O. R.	O. R.	
Regreasing device	**L23**	□	□	□	□	
Reinforced bearings at both ends for DE and NDE, bearing size 63	**L25**	□	□	–	–	
Drainage for used grease	**L30**	185.–	□	O. R.	O. R.	
Special version with higher speeds	**L37**	O. R.	O. R.	–	–	
Bearing insulation DE [21]	**L50**	2010.–	2160.–	2630.–	3050.–	
Bearing insulation NDE [21]	**L51**	2010.–	2160.–	2630.–	3050.–	
Measuring nipple for SPM shock pulse measurement for bearing inspection	**Q01**	518.–	553.–	564.–	564.–	
Balance and vibration quantity						
Vibration quantity level A [21]		□	□	□	□	
Vibration quantity level B [21] [22] [23]	**L00**	1680.–	1850.–	4490.–	5300.–	Not for: Frame sizes 315 and 355 2-pole
Half-key balancing		□	□	□	□	
Balancing without key [16]	**L01**	82.–	87.60	210.–	210.–	
Full-key balancing [16]	**L02**	199.–	199.–	597.–	857.–	
Shaft and rotor						
Shaft extension with standard dimensions, without feather keyway	**L04**	1040.–	1080.–	1150.–	1200.–	
Standard cylindrical shaft extension (second shaft extension) NDE in acc. with EN 50347 [25]	**L05**	509.–	546.–	1580.–	1790.–	
Standard shaft made of stainless steel (e.g. 1.4021)	**L06**	5770.–	6900.–	–	–	
Concentricity of shaft extension in acc. with DIN 42955 Tolerance R	**L07**	554.–	554.–	–	–	
Concentricity of shaft extension, coaxiality and linear movement in acc. with DIN 42955 Tolerance R for flange-mounting motors	**L08**	811.–	811.–	1370.–	1370.–	
Non-standard cylindrical shaft extension DE [3]	**Y58** • and customer specifications	1040.–	1340.–	5100.–	5100.–	
Non-standard cylindrical shaft extension NDE [3]	**Y59** • and customer specifications	1040.–	1340.–	5100.–	5100.–	
Special shaft steel	**Y60** • and customer specifications	O. R.	O. R.	O. R.	O. R.	
Heating and ventilation						
Metal fan made of brass	**F68**	O. R.	O. R.	–	–	
Sheet metal fan cover	**F74**	□	□	□	□	
Metal external fan [27]	**F76**	□	□	□	□	
Without external fan and without fan cover	**F90**	–	–	210.–	210.–	
Anti-condensation heating for 230 V	**Q02**	929.–	1180.–	1350.–	1500.–	
Anti-condensation heating for 115 V	**Q03**	929.–	1180.–	1350.–	1500.–	
Anti-condensation heating for 400 V (2 terminals)	**Q06**	2710.–	3280.–	4020.–	4710.–	
Separately driven fan with non-standard voltage and/or frequency	**Y81** • and customer specifications	O. R.	O. R.	O. R.	O. R.	

For legends and footnotes, see Page 4/92.

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Special versions **1MB55 . 4 - . . . . . - . . . . -Z** **1MB55 . 3 - . . . . . - . . . . -Z** **1MB58 . 3 - . . . . . - . . . . -Z**	Additional identification code **-Z** with order code and plain text if required Order code	Frame size **315**	**355**	**400**	**450**	Motor version IEC	Ex tb (zone 21), Ex tc (zone 22), Ex ec (zone 2)	IE4 / IE3
		1MB5514, 1MB5524, 1MB5534						
		1MB5513, 1MB5523, 1MB5533						
				1MB5813, 1MB5823, 1MB5833				
Rating plate and extra rating plates								
Second rating plate, loose	**M10**	66.30	66.30	204.–	204.–			
Rating plate, stainless steel	**M11**	□	□	□	□			
Extra rating plate with deviating rating plate data	**Y80** • and customer specifications	206.–	206.–	349.–	349.–			
Extra rating plate with identification codes	**Y82** • and customer specifications	107.–	107.–	204.–	204.–			
Additional information on rating plate and on package label (max. 20 characters)	**Y84** • and customer specifications	107.–	107.–	204.–	204.–			
Adhesive label, supplied loose printed with: Article No., Serial No.; 2 lines of text)	**Y85** • and customer specifications	66.30	66.30	–	–			
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 [4) 28)]	**Q80**	2.30%	2.30%	2.3 %	2.3 %			
Extension of the liability for defects by 18 months to a total of 30 months (2.5 years) from delivery [4)]	**Q81**	–	–	3.4 %	3.4 %			
Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery [4) 28)]	**Q82**	4.40%	4.40 %	4.4 %	4.4 %			
Extension of the liability for defects by 30 months to a total of 42 months (3.5 years) from delivery [4)]	**Q83**	–	–	6.2 %	6.2 %			
Extension of the liability for defects by 36 months to a total of 48 months (4 years) from delivery [4)]	**Q84**	–	–	8.0 %	8.0 %			
Extension of the liability for defects by 48 months to a total of 60 months (5 years) from delivery [4)]	**Q85**	–	–	11.2 %	11.2 %			
Packaging, safety notes, documentation and test certificates								
Inspection certificate 3.1 according to EN 10204 [4)]	**B02**	28.10	28.10	28.70	28.70			
Printed German/English operating instructions enclosed [5)]	**B04**	□	□	□	□			
Equivalent circuit diagram	**B51**	1080.–	1080.–	1100.–	1100.–			
Starting diagram (torque vs. speed and current vs. speed)	**B52**	1550.–	1550.–	1580.–	1580.–			
Document – Electrical datasheet	**B60**	309.–	309.–	1190.–	1190.–			
Document – Order dimensional drawing	**B61**	309.–	309.–	315.–	315.–			
Standard test (routine test) with acceptance	**B65**	3810.–	7210.–	7350.–	8190.–			
Temperature test without acceptance	**B67**	16300.–	17800.–	18200.–	21400.–			
Temperature test with acceptance	**B68**	19400.–	20900.–	21300.–	24600.–			
Type test with heat run for vertical motors, without acceptance [29)]	**B80**	19300.–	19300.–	19700.–	19700.–			
Type test with heat run for vertical motors, with acceptance [29)]	**B81**	22600.–	22600.–	23100.–	23100.–			
Type test with heat run for horizontal motors, without acceptance	**B82**	12500.–	12500.–	27100.–	27100.–			
Type test with heat run for horizontal motors, with acceptance	**B83**	14000.–	14600.–	28700.–	28700.–			
"Basic" documentation package	**B90**	597,–	597,–	597.–	597.–			
"Advanced" documentation package	**B91**	898,–	898,–	898.–	898.–			
"Projects" documentation package	**B92**	2470,–	2470,–	2450.–	2450.–			
Connected in star for dispatch	**M01**	46.–	51.50	94.90	O. R.			
Connected in delta for dispatch	**M02**	46.–	51.50	94.90	O. R.			

For legends and footnotes, see Page 4/92.

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Options · Cast-iron series 1MB5514, 1MB5524, 1MB5534, 1MB5.13, 1MB5.23, 1MB5.33

- ◘ Standard version
- ○ Without additional charge
- • This order code only determines the price of the version – additional plain text is required.
- – Not possible

O. R. Possibile on request

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

2) 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.

3) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer in accordance with the appropriate standard. Not valid for: Conical shafts, non-standard threaded stems, 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**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under "Dimensions")
– Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension
For explanation of the order codes, see Catalog D 81.1 Section 1 "Introduction".

4) The delivery time for the factory test certificate may differ from the delivery time for the motor.

5) The Operating Instructions (compact) are available in PDF format for all official EU languages at
http://support.automation.siemens.com/WW/view/en/40761976

6) Order code **S06** cannot be combined with order codes **S00** and **S01**. It can be combined with **Y53** in frame sizes 315, 355 on request.

7) A minimum cantilever force F_{min} von 0.5 · F_{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.

8) Admissible cantilever forces with reinforced bearings for frame sizes 400 and 450 on request. Please indicate cantilever force and lever arm.

9) Only possible with motors for mains-fed operation.

10) Separately driven fan motor is carried out with voltage code **3**-**4** (4000 V/50 Hz; 460 V/60 Hz).

11) Not possible at vertical type of construction for frame sizes 400 and 450.

12) Only possible in combination with option **H08** for motors with flange (IM B5, IM B35, IM V1).

13) Restrictions are possible when terminal box mounted.

14) Only possible for 1MB552 (Ex tc zone 22).

15) Not possible for 8-pole motors frame size 450.

16) Not possible in combination with order code **C02**.

17) Not possible in combination with order code **R50**.

18) Customer specification: voltage between 380 V and 690 V (voltages outside this range on request), frequency, type of connection, requested rated power in kW.

19) Standard version at 1MB5.1 (Ex tb for zone 21).

20) Combination with order code **D03** and **C02** non request. Not possible in combination with order codes **H20** and **H22**

21) For IM V1-motors (frame sizes 315 and 355): (Load) tests are performed as IM B3 (horizontal) (IM-identification acc. to EN 60034-7)

22) Frame sizes 315 and 355: In combination with order code **B40** or **B41** "bearing insulation BS" is standard (order code **L51** is including in **B40**/**B41**

23) At frame sizes 315 and 355 there is no derating in combination with order codes **M2A**, **M2B**, **M2C**, **M2D**, **M2E**, **M2F**, **M2G**, **M2H**.

24) For frame sizes 315 and 355 applies: Can be combined with order codes **N30**, **N31**, **L51** on request. Not admissible in combination with order code **L05**. Protective cover not possible.

25) Order code **H20** (IP65 degree of protection) can only be ordered for zone 2. For zone 21, IP65 degree of protection is standard. Not possible for zone 22, because only IP55 degree of protection is required.

26) Order code **H22** IP56 degree of protection is only possible for zone 2. Degree of protection IP56 is not permissible for zone 21 (IP65 degree of protection) and zone 22 (IP55 degree of protection).

27) Not possible with flange A800 mounting on DE side – as standard for frame size 315. Not possible with flange A900 mounting on DE side – as standard for frame size 355, combination with option **H08** it is possible.

28) The delivery time for the factory test certificate may differ from the delivery time for the motor.

29) For chemical industry must be used steel fan.

30) Combination of **L50** and **L51** is not possible for explosion-proof motors.

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size										Motor version	
		63	**71**	**80**	**90**	**100**	**112**	**132**	**160**	**180**	**200**		
						1LE1004						IEC	IE4
				1LE1003									IE3
		1LE1001											IE2
		1LE1002											IE1
				1LE1023								Eagle Line	NPE (NEMA)
					1LE1021								NEE (NEMA)
						1LE1011						Pole-changing	
1LE10 . . - . . . . . - . . . . -Z	Order code					**1LE1012**							
Marine version - Basic version													
With type test certificate according to Lloyds Register (LR), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E21**	–	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–		
With type test certificate according to Bureau Veritas (BV), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E31**	190.–	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–		
With type test certificate according to Registro Italiano Navale (RINA), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E41**	–	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–		
With type test certificate according to Russian Maritime Register (RS), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E46**	190.–	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–		
With type test certificate according to DNV GL Maritime, CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E51**	190.–	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–		
With type test certificate according to American Bureau of Shipping (ABS), CT 50 °C, temperature class 155 (F) utilized according to 155 (F)	**E52**	–	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–		
With type test certificate according to Korean Register of shipping (KR), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E54**	–	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–		
Marine version – Acceptance/certification													
Individual acceptance by marine classification society	**B10**	7280.–	7280.–	7280.–	7280.–	7280.–	7280.–	7280.–	7280.–	8200.–	8200.–		
Type test with heat run for horizontal motors, with acceptance	**B83**	4180.–	4960.–	5730.–	6520.–	7290.–	8070.–	8840.–	9620.–	10400.–	11200.–		

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size													Motor version		
		71	**80**	**90**	**100**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	**315**			
					1LE1504 Basic Line										IEC	IE4	①
					1LE1604 Performance Line												②
		1LE1503 Basic Line														IE3	③
					1LE1603 Performance Line												④
		1LE1501 Basic Line														IE2	⑤
					1LE1601 Performance Line												⑥
					1LE1502 Basic Line											IE1	⑦
			1LE1543 Basic Line												APAC Line	IE3	⑧
					1LE1643 Performance Line												⑨
									1LE1541 Basic Line							IE2	⑩
		1LE1523 Basic Line													Eagle Line	NPE (NEMA)	⑪
					1LE1623 Performance Line												⑫
1LE1 . . . - . . . . . - . . . . -Z	Order code				**1LE1521 Basic Line**											NEE (NEMA)	⑬
Marine version - Basic version																	
With type test certificate according to Lloyds Register (LR), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E21**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	1600.–	1800.–	2200.–	2550.–			
With type test certificate according to Bureau Veritas (BV), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E31**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	380.–	470.–	780.–			
With type test certificate according to Registro Italiano Navale (RINA), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E41**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	380.–	470.–	780.–			
With type test certificate according to Russian Maritime Register (RS), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E46**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	380.–	470.–	780.–			
With type test certificate according to DNV GL Maritime, CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E51**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	380.–	470.–	780.–			
With type test certificate according to American Bureau of Shipping (ABS), CT 50 °C, temperature class 155 (F) utilized according to 155 (F)	**E52**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	3850.–	470.–	780.–			
With type test certificate according to Korean Register of shipping (KR), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E54**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	380.–	470.–	780.–			
Marine version – Acceptance/certification																	
Individual acceptance by marine classification society	**B10**	7280.–	7280.–	7280.–	7280.–	7280.–	7280.–	7280.–	8200.–	8200.–	8200.–	9260.–	9260.–	9260.–			
Type test with heat run for horizontal motors, with acceptance	**B83**	4960.–	5730.–	6520.–	7290.–	8070.–	8840.–	9620.–	10400.–	11200.–	11900.–	12800.–	13500.–	14300.–			

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size		Motor version	
		315	**355**		
		1LE5504 Basic Line		IEC	IE4
		1LE5604 Performance Line			
		1LE5534 Basic Line			
		1LE5634 Performance Line			
		1LE5503 Basic Line			IE3
		1LE5603 Performance Line			
		1LE5533 Basic Line			
1LE5 . . . - . . . . . - . . . . -Z	Order code	**1LE5633 Performance Line**			
Marine version - Basic version					
With type test certificate according to Lloyds Register (LR), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E21**	780.–	1150.–		
With type test certificate according to Registro Italiano Navale (RINA), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E41**	780.–	1150.–		
With type test certificate according to Russian Maritime Register (RS), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E46**	780.–	1150.–		
With type test certificate according to DNV GL Maritime, CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E51**	780.–	1150.–		
With type test certificate according to American Bureau of Shipping (ABS), CT 50 °C, temperature class 155 (F) utilized according to 155 (F)	**E52**	780.–	1150.–		
Marine version – Acceptance/certification					
Individual acceptance by marine classification society	**B10**	9260.–	9260.–		
Type test with heat run for vertical motors, with acceptance	**B81**	23100.–	23100.–		
Type test with heat run for horizontal motors, with acceptance	**B83**	14300.–	14300.–		

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size												Motor version		
		71	**80**	**90**	**100**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	**315**			
Aluminum series			**1MB10.3**												IEC	Ex t (zone 21/22)	IE3
			1MB10.1														IE2
					1MB10.2											Ex n (zone 2)	IE1
Cast-iron series		**1MB15.3 Basic Line**															IE3
					1MB16.3 Performance Line												
		1MB15.1 Basic Line															IE2
1MB1 . . . -. . . . . -. . . . -Z	Order code				**1MB16.1 Performance Line**												
Marine version - Basic version																	
With type test certificate according to Lloyds Register (LR), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E21**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	1600.–	1800.–	2200.–	2550.–			
With type test certificate according to Bureau Veritas (BV), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E31**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	1600.–	1800.–	2200.–	2550.–			
With type test certificate according to Registro Italiano Navale (RINA), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E41**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	380.–	470.–	780.–			
With type test certificate according to Russian Maritime Register (RS), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E46**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	380.–	470.–	780.–			
With type test certificate according to DNV GL Maritime, CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E51**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	380.–	470.–	780.–			
With type test certificate according to American Bureau of Shipping (ABS), CT 50 °C, temperature class 155 (F) utilized according to 155 (F)	**E52**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	380.–	470.–	780.–			
With type test certificate according to Korean Register of shipping (KR), CT 45 °C, temperature class 155 (F) utilized according to 155 (F)	**E54**	190.–	250.–	290.–	320.–	360.–	430.–	823.–	1090.–	1450.–	380.–	380.–	470.–	780.–			
Marine version – Acceptance/certification																	
Individual acceptance by marine classification society	**B10**	7280.–	7280.–	7280.–	7280.–	7280.–	7280.–	7280.–	8200.–	8200.–	8200.–	9260.–	9260.–	9260.–			
Type test with heat run for horizontal motors, with acceptance	**B83**	4960.–	5730.–	6520.–	7290.–	8070.–	8840.–	9620.–	10200.–	11000.–	11700.–	12500.–	13200.–	14300.–			

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Overview of selection and ordering data with base prices and standard delivery times

Overview

Category	**Motors with IE3 Premium Efficiency**
Series version	**Cast-iron series 1PC1433**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Number of poles	4, 6
Frame sizes (FS)	112 M ... 280 M
Rated power at 50 Hz	2.2 ... 90 kW
Synchronous speed at 50 Hz	1000 ... 1500 rpm
Rated torque at 50 Hz	22 ... 579 Nm
Efficiency	IE3 High Efficiency
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3Z3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 5/9, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	IE class	Frame size FS	Article No.	Base price EUR
4-pole: 1500 rpm at 50 Hz				
4	**IE3**	**112 M**	**1PC1433-1BB2.-....**	**4960.–**
5.5	**IE3**	**132 S**	**1PC1433-1CB0.-....**	**6760.–**
7.5	**IE3**	**132 M**	**1PC1433-1CB2.-....**	**7910.–**
11	**IE3**	**160 M**	**1PC1433-1DB2.-....**	**9920.–**
15	**IE3**	**160 L**	**1PC1433-1DB4.-....**	**11100.–**
18.5	**IE3**	**180 M**	**1PC1433-1EB2.-....**	**13400.–**
22	**IE3**	**180 L**	**1PC1433-1EB4.-....**	**14600.–**
30	**IE3**	**200 L**	**1PC1433-2AB5.-....**	**18500.–**
37	**IE3**	**225 S**	**1PC1433-2BB0.-....**	**22000.–**
45	**IE3**	**225 M**	**1PC1433-2BB2.-....**	**23900.–**
55	**IE3**	**250 M**	**1PC1433-2CB2.-....**	**28400.–**
75	**IE3**	**280 S**	**1PC1433-2DB0.-....**	**35100.–**
90	**IE3**	**280 M**	**1PC1433-2DB2.-....**	**42800.–**
6-pole: 1000 rpm at 50 Hz				
2.2	**IE3**	**112 M**	**1PC1433-1BC2.-....**	**4790.–**
3	**IE3**	**132 S**	**1PC1433-1CC0.-....**	**6340.–**
4	**IE3**	**132 M**	**1PC1433-1CC2.-....**	**7200.–**
5.5	**IE3**	**132 M**	**1PC1433-1CC3.-....**	**9370.–**
5.5	**IE3**	**160 M**	**1PC1433-1DC2.-....**	**10600.–**
7.5	**IE3**	**160 L**	**1PC1433-1DC4.-....**	**13800.–**
15	**IE3**	**180 L**	**1PC1433-1EC4.-....**	**16600.–**
18.5	**IE3**	**200 L**	**1PC1433-2AC4.-....**	**17300.–**
18.5	**IE3**	**200 L**	**1PC1433-2AC5.-....**	**21400.–**
30	**IE3**	**225 M**	**1PC1433-2BC2.-....**	**22500.–**
37	**IE3**	**250 M**	**1PC1433-2CC2.-....**	**27900.–**
45	**IE3**	**280 S**	**1PC1433-2DC0.-....**	**33800.–**
55	**IE3**	**280 M**	**1PC1433-2DC2.-....**	**42100.–**

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Overview (continued)

Category	**Motors for converter operation**
Series version	**Cast-iron series 1PC1443**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Number of poles	4, 6
Frame sizes (FS)	112 M ... 280 M
Rated power at 50 Hz	2.2 ... 90 kW
Synchronous speed at 50 Hz	1000 ... 1500 rpm
Rated torque at 50 Hz	21 ... 525 Nm
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3Z3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 5/9, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	Frame size FS	Article No.	Base price EUR
4-pole: 1500 rpm at 50 Hz			
4	**112 M**	**1PC1443-1BB2.-....**	**4960.–**
5.5	**132 S**	**1PC1443-1CB0.-....**	**6760.–**
7.5	**132 M**	**1PC1443-1CB2.-....**	**7910.–**
11	**160 M**	**1PC1443-1DB2.-....**	**9920.–**
15	**160 L**	**1PC1443-1DB4.-....**	**11100.–**
18.5	**180 M**	**1PC1443-1EB2.-....**	**13400.–**
22	**180 L**	**1PC1443-1EB4.-....**	**14600.–**
30	**200 L**	**1PC1443-2AB5.-....**	**18500.–**
37	**225 S**	**1PC1443-2BB0.-....**	**22000.–**
45	**225 M**	**1PC1443-2BB2.-....**	**23900.–**
55	**250 M**	**1PC1443-2CB2.-....**	**28400.–**
75	**280 S**	**1PC1443-2DB0.-....**	**35100.–**
90	**280 M**	**1PC1443-2DB2.-....**	**42800.–**
6-pole: 1000 rpm at 50 Hz			
2.2	**112 M**	**1PC1443-1BC2.-....**	**4750.–**
3	**132 S**	**1PC1443-1CC0.-....**	**6330.–**
4	**132 M**	**1PC1443-1CC2.-....**	**7460.–**
5.5	**132 M**	**1PC1443-1CC3.-....**	**9380.–**
7.5	**160 M**	**1PC1443-1DC2.-....**	**10600.–**
11	**160 L**	**1PC1443-1DC4.-....**	**13800.–**
15	**180 L**	**1PC1443-1EC4.-....**	**16600.–**
18.5	**200 L**	**1PC1443-2AC4.-....**	**17400.–**
22	**200 L**	**1PC1443-2AC5.-....**	**21600.–**
30	**225 M**	**1PC1443-2BC2.-....**	**22500.–**
37	**250 M**	**1PC1443-2CC2.-....**	**28400.–**
45	**280 S**	**1PC1443-2DC0.-....**	**33800.–**
55	**280 M**	**1PC1443-2DC2.-....**	**42100.–**

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Overview (continued)

Category	**Motors for converter operation** (continued)
Series version	**Cast-iron series 1PC1463**
Cooling	Self-ventilated (IC 411)
Degree of protection	IP55, optionally IP56 or IP65
Insulation	Thermal class 155 (F)
Number of poles	4, 6
Frame sizes (FS)	112 M ... 280 M
Rated power at 50 Hz	3.1 ... 36 kW
Synchronous speed at 50 Hz	1000 ... 1500 rpm
Rated torque at 50 Hz	20 ... 346 Nm
Metal factor for metal surcharges (MS)	N - W - - -
Price group (PG)	3Z3

Range of motors in standard version with Article No., delivery time and base price plus MS
(for article number supplements and special versions see from Page 5/9, for delivery times refer to colored background following the respective price)

$P_{rated,\ 50\ Hz}$ kW	Frame size FS	Article No.	Base price EUR
4-pole: 1500 rpm at 50 Hz			
3.1	**112 M**	**1PC1463-1BB2.-....**	**4420.–**
4.8	**132 S**	**1PC1463-1CB0.-....**	**6000.–**
6.1	**132 M**	**1PC1463-1CB2.-....**	**7010.–**
8	**160 M**	**1PC1463-1DB4.-....**	**9610.–**
9.3	**160 L**	**1PC1463-1DB6.-....**	**10600.–**
11	**180 M**	**1PC1463-1EB2.-....**	**12600.–**
13	**180 L**	**1PC1463-1EB4.-....**	**13900.–**
6-pole: 1000 rpm at 50 Hz			
8.5	**180 L**	**1PC1463-1EC4.-....**	**15900.–**
14.5	**200 L**	**1PC1463-2AC5.-....**	**19900.–**
21	**225 M**	**1PC1463-2BC2.-....**	**21600.–**
25	**250 M**	**1PC1463-2CC2.-....**	**23700.–**
30	**280 S**	**1PC1463-2DC0.-....**	**30900.–**
36	**280 M**	**1PC1463-2DC2.-....**	**40200.–**

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Selection and ordering data

Voltages	Article No. supplement: Voltage code 12th and 13th position of the Article No.		Additional identification code with order code and plain text if required	Frame size: 112	132	160	180	200	225	250	280	Motor version: Operation	Cooling method	
				1PC1433								Line (DOL)	TEFC (IC411)	IE3
				1PC1443								Converter (VSD)		–
				1PC1463									TENV (IC410)	
1PC14 . . - . . . . ■ - ■ . . .			Order code											
Voltage at 50 Hz or 60 Hz														
50 Hz 400 VY, 60 Hz 460 VY	**0**	**2**	**–**	□	□	□	–	–	–	–	–	Only for:	1PC1443 1PC1463	
50 Hz 230 VΔ/400 VY, 60 Hz 460 VY	**2**	**2**	**–**	□	□	□	□	□	□	□	□	Only for:	1PC1433	
50 Hz 400 VΔ/690 VY, 60 Hz 460 VΔ	**3**	**4**	**–**	□	□	□	□	□	□	□	□	Only for:	1PC1433	
50 Hz 400 VΔ, 60 Hz 460 VΔ	**0**	**4**	**–**	–	–	–	□	□	□	□	□	Only for:	1PC1443 1PC1463	
50 Hz 500 VY	**2**	**7**	**–**	○	○	○	○	○	○	○	○	Only for:	1PC1433	
50 Hz 500 VΔ	**4**	**0**	**–**	○	○	○	○	○	○	○	○	Only for:	1PC1433	
50 Hz 220 VΔ/380 VY, 60 Hz 440 VΔ	**2**	**1**	**–**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
50 Hz 380 VΔ/660 VY, 60 Hz 440 VΔ	**3**	**3**	**–**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
50 Hz 380 VΔ				54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
50 Hz 240 VΔ/415 VY, 60 Hz 480 VY	**2**	**3**	**–**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
50 Hz 415 VΔ, 60 Hz 480 VΔ	**3**	**5**	**–**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
Voltage at 60 Hz and required power														
220 VΔ/380 VY; 50 Hz power	**9**	**0**	**M2A**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
220 VΔ/380 VY; 60 Hz power	**9**	**0**	**M1A**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
380 VΔ/660 VY; 50 Hz power	**9**	**0**	**M2B**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
380 VΔ; 50 Hz power				54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
380 VΔ/660 VY; 60 Hz power	**9**	**0**	**M1B**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
440 VY; 50 Hz power	**9**	**0**	**M2C**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
440 VY; 60 Hz power	**9**	**0**	**M1C**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
440 VΔ; 50 Hz power	**9**	**0**	**M2D**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
440 VΔ; 60 Hz power	**9**	**0**	**M1D**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
460 VY; 50 Hz power	**9**	**0**	**M2E**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
460 VY; 60 Hz power	**9**	**0**	**M1E**	○	○	○	○	○	○	○	○	Only for:	1PC1433	
460 VΔ; 50 Hz power	**9**	**0**	**M2F**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
460 VΔ; 60 Hz power	**9**	**0**	**M1F**	○	○	○	○	○	○	○	○	Only for:	1PC1433	
575 VY; 50 Hz power	**9**	**0**	**M2G**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
575 VY; 60 Hz power	**9**	**0**	**M1G**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
575 VΔ; 50 Hz power	**9**	**0**	**M2H**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
575 VΔ; 60 Hz power	**9**	**0**	**M1H**	54.–	65.30	83.70	103.–	139.–	159.–	215.–	246.–	Only for:	1PC1433	
Non-standard voltage and/or frequencies														
Non-standard winding [1]	**9**	**0**	**M1Y** • and customer specifications	108.–	132.–	167.–	208.–	268.–	326.–	483.–	609.–			

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
– Not possible

[1] Plain text must be specified in the order: Voltage between 200 and 690 V (voltages outside this range are available on request), frequency, circuit, for 60 Hz additionally required rated power in kW.

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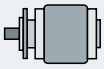
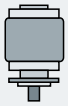
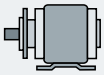
Selection and ordering data

Types of construction		Article No. supplement		Frame size								Motor version		
		Type of construction letter 14th position of the Article No.	For types of construction with order code(s) Article No. with additional identification code **-Z**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	Operation	Cooling method	
				1PC1433								Line (DOL)	TEFC (IC411)	IE3
				1PC1443								Converter (VSD)		–
				1PC1463									TENV (IC410)	
1PC14 . . - . . . . . - . ■ . . Z			Order code											
Without flange														
IM B3		**A**	**–**	□	□	□	□	□	□	□	□			
With flange		**acc. to EN 50347 acc. to DIN 42948**		**FF215 A 250**	**FF265 A 300**	**FF300 A 350**	**FF300 A 350**	**FF350 A 400**	**FF400 A 450**	**FF500 A 550**	**FF500 A 550**			
IM B5		**F**	**–**	101.–	132.–	170.–	269.–	326.–	422.–	507.–	738.–			
IM V1 without protective cover		**G**	**–**	101.–	132.–	170.–	268.–	324.–	424.–	517.–	742.–			
IM V1 with protective cover		**G**	**H00**	183.40	276.–	314.–	460.–	613.–	807.–	995.–	1315.–			
IM V3		**H**	**–**	101.–	132.–	170.–	269.–	326.–	422.–	507.–	738.–			
IM B35		**J**	**–**	110.–	137.–	189.–	315.–	420.–	525.–	735.–	946.–			

□ Standard version

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Selection and ordering data

Motor protection	Article No. supplement		Frame size								Motor version		
	Motor protection code 15th position of the Article No.	Additional identification code with order code and plain text if required	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	Operation	Cooling method	
			1PC1433								Line (DOL)	TEFC (IC411)	IE3
			1PC1443								Converter (VSD)		–
			1PC1463									TENV (IC410)	
1PC14 . . - . . . . . - . .	■	Order code											
Motor protection													
Without (Standard)	**A**	**–**	□	□	□	□	□	□	□	□	Only for:	1PC1433	
		–	–	–	–	–	–	–	–	–	Only for:	1PC1443 1PC1463	
3 PTC thermistors – for tripping (2 terminals)	**B**	**–**	119.–	180.–	180.–	239.–	239.–	325.–	325.–	406.–			
6 PTC thermistors – for alarm and tripping (4 terminals)	**C**	**–**	□	□	□	□	□	□	□	□	Only for:	1PC1443 1PC1463	
			205.–	274.–	274.–	421.–	421.–	548.–	548.–	679.–	Only for:	1PC1433	
1 temperature sensor KTY84-130 (2 terminals)	**F**	**–**	119.–	180.–	180.–	339.–	339.–	463.–	601.–	601.–			
2 temperature sensors KTY84-130 (4 terminals)	**G**	**–**	242.–	357.–	357.–	550.–	550.–	756.–	1020.–	1020.–			
3 Pt100 resistance thermometers – 2-wire circuit (6 terminals)	**H**	**–**	1240.–	1240.–	1240.–	1510.–	1510.–	1510.–	1670.–	1670.–			
6 Pt100 resistance thermometers – 2-wire circuit (12 terminals)	**J**	**–**	–	–	–	2470.–	2470.–	2470.–	2470.–	2470.–			

□ Standard version
– Not possible

Note:

Options are available specifically for bearing protection –
For order codes and descriptions, see from Page 5/13.

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

[2] Not UL-certified. Not possible in combination with the option **D31**.

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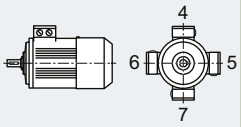
Selection and ordering data

Terminal box position	Article No. supplement		Frame size								Motor version		
	Terminal box position code 16th position of the Article No.	Additional identification code with order code and plain text if required	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	Operation	Cooling method	
			1PC1433								Line (DOL)	TEFC (IC411)	IE3
			1PC1443								Converter (VSD)		–
			1PC1463									TENV (IC410)	
1PC14 . . - . . . . . - . . . ■		Order code											
Terminal box position [1]													
Terminal box top	**4**	–	□	□	□	□	□	□	□	□			
Terminal box on RHS	**5**	–	113.–	113.–	113.–	113.–	113.–	113.–	113.–	113.–			
Terminal box on LHS	**6**	–	113.–	113.–	113.–	113.–	113.–	113.–	113.–	113.–			

□ Standard version

[1] For types of construction with feet, cast feet are standard.

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Selection and ordering data

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 112	132	160	180	200	225	250	280	Motor version Operation	Cooling method	
		1PC1433								Line (DOL)	TEFC (IC411)	IE3
		1PC1443								Converter (VSD)		–
		1PC1463									TENV (IC410)	
1PC14 . . - . . . . . - . . . . -Z	Order code											
Motor protection												
Prepared for mounting a SIPLUS CMS 1000 vibration sensor	**Q05**	318.–	332.–	347.–	377.–	408.–	439.–	468.–	498.–			
Motor connection and terminal box												
External grounding		□	□	□	□	□	□	□	□			
Terminal box on NDE	**H08**	–	–	–	967.–	999.–	1050.–	1100.–	1150.–			
Second external grounding	**H70**	15.80	15.80	15.80	15.80	15.80	15.80	15.80	15.80			
Rotation of the terminal box through 90°, entry from DE	**R10**	23.40	23.40	23.40	45.10	58.40	72.10	86.60	103.–			
Rotation of the terminal box through 90°, entry from NDE	**R11**	23.40	23.40	23.40	45.10	58.40	72.10	86.60	103.–			
Rotation of the terminal box through 180°	**R12**	○	○	○	45.10	58.40	72.10	86.60	103.–			
One metal cable gland	**R15**	112.–	112.–	143.–	143.–	165.–	165.–	236.–	236.–			
EMC cable gland, maximum configuration	**R16**	–	–	–	362.–	610.–	610.–	1090.–	1090.–			
Metal cable gland, maximum configuration	**R18**	159.–	159.–	209.–	209.–	241.–	241.–	417.–	417.–			
Larger terminal box	**R50**	214.–	274.–	313.–	475.–	523.–	1660.–	1900.–	1900.–			
Terminal box without cable entry opening	**R51**	–	–	–	○	○	○	○	○			
Silicon-free version	**R74**	□	□	□	□	□	□	357.–	357.–			
Windings and insulation												
Temperature class 180 (H) at rated power and max. CT 60 °C [1]	**N11**	305.–	405.–	494.–	702.–	982.–	1200.–	1470.–	1790.–			
Colors and paint finish												
Standard finish in RAL 7030 stone gray		□	□	□	□	□	□	□	□			
Special finish	**S02**	□	□	□	□	□	□	□	□			
Finish in other standard RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5002, 5007, 5009, 5010, 5012, 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005 (see Catalog Section 1 "Introduction")	**Y53 •** and finish RAL....	42.–	57.80	57.80	84.–	115.–	126.–	158.–	189.–			
Finish in special RAL colors: For RAL colors, see "Special finish in special RAL colors" (see Catalog Section 1 "Introduction")	**Y56 •** and finish RAL....	662.–	694.–	694.–	704.–	714.–	357.–	378.–	399.–			
Special technology												
Mounting of LL 861 900 220 rotary pulse encoder [3]	**G04**	3000.–	3000.–	3000.–	3000.–	3000.–	4180.–	4180.–	4180.–			
Mounting of HOG 9 D 1024 I rotary pulse encoder [3]	**G05**	3540.–	3540.–	3540.–	4570.–	4570.–	4950.–	4950.–	4950.–			
Mounting of HOG 10 D 1024 I rotary pulse encoder [3]	**G06**	4570.–	4570.–	4570.–	4570.–	4570.–	6000.–	6000.–	6000.–			
Designs in accordance with standards and specifications												
Design according to UL with "Recognition Mark" [9]	**D31**	119.–	153.–	187.–	300.–	411.–	517.–	610.–	756.–			
Canadian regulations (CSA) [10]	**D40**	119.–	153.–	187.–	253.–	338.–	422.–	507.–	675.–			
Mechanical design and degrees of protection												
Prepared for mountings with D16 shaft	**G42**	168.–	189.–	225.–	462.–	462.–	589.–	924.–	924.–			
Protective cover [2] [3] [4]	**H00**	82.40	144.–	144.–	192.–	289.–	383.–	478.–	573.–	Only for:	1PC1433 1PC1443	
Condensation drainage holes		□	□	□	□	□	□	□	□			
Rust-resistant screws (externally)	**H07**	○	○	○	○	○	170.–	203.–	211.–			
IP65 degree of protection [5]	**H19**	316.–	316.–	471.–	630.–	787.–	949.–	1106.–	1264.–			
IP65 degree of protection [5]	**H20**	150.–	150.–	224.–	302.–	374.–	452.–	527.–	601.–			
Bearings and lubrication												
Regreasing device	**L23**	325.–	336.–	363.–	383.–	430.–	□	□	□			
Bearing insulation NDE	**L51**	561,–	1250,–	1300,–	1350,–	1370,–	1760,–	1890,–	1960,–			

For legends and footnotes, see Page 5/14.

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Article No. supplements and special versions · Options · Cast-iron series 1PC1433, 1PC1443, 1PC1463

Special versions	Additional identification code **-Z** with order code and plain text if required	Frame size 112	132	160	180	200	225	250	280	Motor version Operation	Cooling method	
		1PC1433								Line (DOL)	TEFC (IC411)	IE3
		1PC1443								Converter (VSD)		–
		1PC1463									TENV (IC410)	
1PC14 . . - . . . . . - . . . . -Z	Order code											
Balance and vibration quantity												
Vibration quantity level A		□	□	□	□	□	□	□	□			
Vibration quantity level B	**L00**	327.–	419.–	519.–	814.–	819.–	900.–	1140.–	1340.–			
Balancing without key	**L01**	28.40	33.60	33.60	43.70	43.70	59.30	59.30	72.10			
Full-key balancing	**L02**	111.–	129.–	129.–	162.–	162.–	209.–	209.–	209.–			
Shaft and rotor												
Shaft extension with standard dimensions, without feather keyway	**L04**	553.–	580.–	610.–	708.–	779.–	850.–	921.–	991.–			
Standard shaft made of stainless steel (e.g. 1.4021)	**L06**	–	–	–	675.–	1010.–	1390.–	1650.–	2750.–			
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	**L07**	268.–	408.–	408.–	211.–	238.–	283.–	370.–	370.–			
Concentricity of shaft extension, coaxiality and linear movement in acc. with DIN 42955 Tolerance R for flange-mounting motors	**L08**	270.–	302.–	374.–	452.–	527.–	601.–	676.–	754.–			
Non-standard cylindrical shaft extension DE [6]	**Y58** • and customer specifications	553.–	580.–	610.–	708.–	779.–	610.–	708.–	779.–			
Special shaft steel as requested by customer	**Y60** • and customer specifications	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.			
Heating and ventilation												
Metal external fan	**F76**	224.–	261.–	302.–	339.–	374.–	413.–	452.–	489.–			
Anti-condensation heating for 230 V	**Q02**	459.–	519.–	576.–	639.–	734.–	881.–	910.–	910.–			
Anti-condensation heating for 115 V	**Q03**	459.–	519.–	576.–	639.–	734.–	881.–	910.–	910.–			
Rating plate and extra rating plates												
Second rating plate, loose	**M10**	21.10	21.10	21.10	67.60	67.60	67.60	67.60	67.60			
Extra rating plate with deviating rating plate data	**Y80** • and customer specifications	105.–	105.–	105.–	158.–	158.–	210.–	210.–	210.–			
Extra rating plate with customer specifications	**Y82** • and customer specifications	41.50	41.50	41.50	69.40	69.40	69.40	86.60	86.60			
Packaging, safety notes, documentation and test certificates												
Acceptance test certificate 3.1 according to EN 10204 [7]	**B02**	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70			
Documentation package "Basic"	**B90**	609.–	609.–	609.–	609.–	609.–	609.–	609.–	609.–			
Documentation package "Advanced"	**B91**	924.–	924.–	924.–	924.–	924.–	924.–	924.–	924.–			
Documentation package "Projects"	**B92**	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–	2520.–			

□ Standard version
○ Without additional charge
• This order code only determines the price of the version – additional plain text is required.
O. R. Possible on request
– Not possible

1) Cannot be used for motors in UL version (order code **D31**). The grease lifetime specified in Section 0 "Introduction" refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease service lifetime or relubrication interval is halved.

2) 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.

3) The LL and HOG rotary pulse encoders up to frame size 160 are fitted with a protective cover as standard. The protective cover is omitted at the factory when a rotary pulse encoder is combined with a separately driven fan, because in this case the rotary pulse encoder is installed under the fan cover.

4) Order code **H00** provides mechanical protection for encoders.

5) Not possible in combination with HOG 9 DN 1024 I rotary pulse encoder (order code **G05**) and/or brake 2LM8 (order code **F01**).

6) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the feather keyway must be specified in a sketch. It must be ensured that only feather keys in accordance with DIN 6885, Form A are permitted to be used. The feather keyway is positioned centrally on the shaft extension. The length is defined by the manufacturer in accordance with the appropriate standard. Not valid for: Conical shafts, non-standard threaded stems, 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 The feather keys are supplied in every case. For order code **Y58**:
– Dimensions D and DA ≤ Inner diameter of roller bearing (see tables under "Dimensions")
– Dimensions E and EA ≤ 2 × length E (normal) of the shaft extension.

7) The delivery time for the factory test certificate may differ from the delivery time for the motor.

8) The Operating Instructions are available in PDF format for all official EU languages at http://support.automation.siemens.com/WW/view/en/10803948/133300.

9) Possible up to 600 V max. The rated voltage is indicated on the rating plate without voltage range.

10) The rated voltage is indicated on the rating plate without voltage range.

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Appendix

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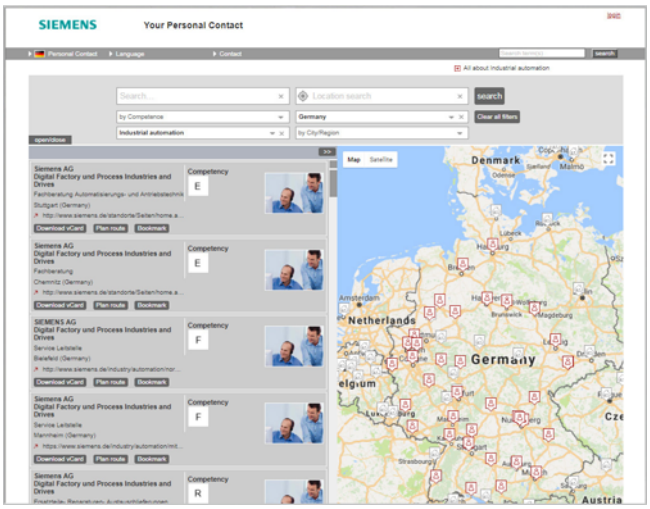
Partner at Siemens



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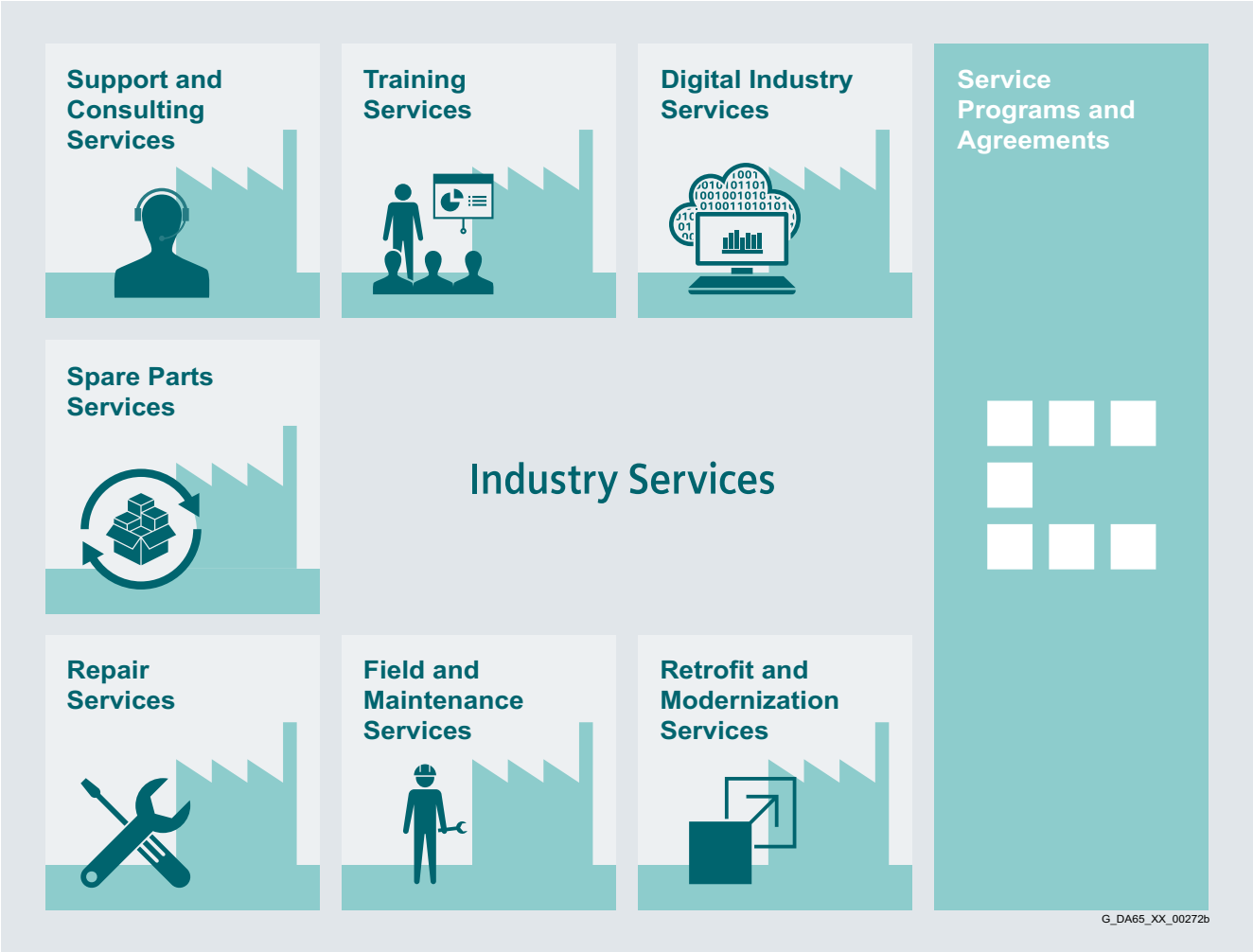
Overview



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Industry Services – Portfolio overview

Übersicht

Digital Industry Services

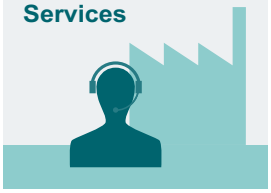
Digital Services make your industrial processes transparent to gain improvements in productivity, asset availability, and energy efficiency.

Production data is generated, filtered and translated with intelligent analytics to enhance decision-making.

This is done whilst taking data security into consideration and with continuous protection against cyber-attack threats.

https://www.siemens.com/global/en/home/products/services/industry/digital-services.html

Support and Consulting Services



Industry Online Support site for comprehensive information, application examples, FAQs and support requests.

Technical and Engineering Support for advice and answers for all inquiries about functionality, handling, and fault clearance. The Service Card as prepaid support for value added services such as Priority Call Back or Extended Support offers the clear advantage of quick and easy purchasing.

Information & Consulting Services, e.g. SIMATIC System Audit; clarity about the state and service capability of your automation system or Lifecycle Information Services; transparency on the lifecycle of the products in your plants.

https://support.industry.siemens.com/cs/ww/en/sc/2235

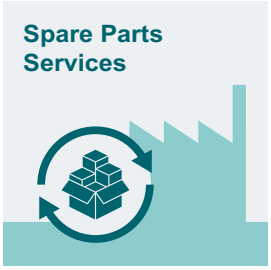
Training Services

From the basics and advanced to specialist skills, SITRAIN courses provide expertise right from the manufacturer – and encompass the entire spectrum of Siemens products and systems for the industry.

Worldwide, SITRAIN courses are available wherever you need a training course in more than 170 locations in over 60 countries.

https://support.industry.siemens.com/cs/ww/en/sc/2226

Spare Parts Services



Spare Parts Services are available worldwide for smooth and fast supply of spare parts – and thus optimal plant availability. Genuine spare parts are available for up to ten years. Logistic experts take care of procurement, transport, custom clearance, storage and order management. Reliable logistics processes ensure that components reach their destination as needed.

Since not all spare parts can be kept in stock at all times, Siemens offers a preventive measure for spare parts provisioning on the customer's premises with optimized **Spare Parts Packages** for individual products, custom-assembled drive components and entire integrated drive trains – including risk consulting.

Asset Optimization Services help you design a strategy for parts supply where your investment and carrying costs are reduced and the risk of obsolescence is avoided.

https://support.industry.siemens.com/cs/ww/en/sc/2110

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Overview (continued)

Repair Services are offered on-site and in regional repair centers for fast restoration of faulty devices' functionality.

Also available are extended repair services, which include additional diagnostic and repair measures, as well as emergency services.

https://support.industry.siemens.com/cs/ww/en/sc/2154

Provide a cost-effective solution for the expansion of entire plants, optimization of systems or upgrading existing products to the latest technology and software, e.g. migration services for automation systems.

Service experts support projects from planning through commissioning and, if desired over the entire extended lifespan, e.g. Retrofit for Integrated Drive Systems for an extended lifetime of your machines and plants.

https://support.industry.siemens.com/cs/ww/en/sc/2286

Siemens specialists are available globally to provide expert field and maintenance services, including commissioning, functional testing, preventive maintenance and fault clearance.
All services can be included in customized service agreements with defined reaction times or fixed maintenance intervals.

https://support.industry.siemens.com/cs/ww/en/sc/2265

A technical Service Program or Agreement enables you to easily bundle a wide range of services into a single annual or multi-year agreement.

You pick the services you need to match your unique requirements or fill gaps in your organization's maintenance capabilities.

Programs and agreements can be customized as KPI-based and/or performance-based contracts.

https://support.industry.siemens.com/cs/ww/en/sc/2275

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Overview

Siemens Industry and Online Support with some 1.7 million visitors per month is one of the most popular web services provided by Siemens. It is the central access point for comprehensive technical know-how about products, systems and services for automation and drives applications as well as for process industries.

In connection with the challenges and opportunities related to digitalization you can look forward to continued support with innovative offerings.

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Explanation of the raw material/metal surcharges[1)]

Surcharge calculation

To compensate for variations in the price of the raw materials silver, copper, aluminum, lead, gold, dysprosium[2)] and/or neodym[2)], surcharges are calculated on a daily basis using the so-called metal factor for products containing these raw materials. A surcharge for the respective raw material is calculated as a supplement to the price of a product if the basic official price of the raw material in question is exceeded.

The surcharges are calculated in accordance with the following criteria:

- Basic official price of the raw material
  Basic official price from the day prior to receipt of the order or prior to release order (daily price) for[3)]
  - Silver (sales price, processed)
  - Gold (sales price, processed)

  and for[4)]
  - Copper (lower DEL notation + 1 %)
  - Aluminum (aluminum in cables)
  - Lead (lead in cables)

Metal factor of the products
Certain products are displayed with a metal factor. The metal factor determines the official price (for those raw materials concerned) as of which the metal surcharges are applied and the calculation method used (weight or percentage method). An exact explanation is given below.

Structure of the metal factor

The metal factor consists of several digits; the first digit indicates whether the percentage method of calculation refers to the list price or a possible discounted price (customer net price) (L = list price / N = customer net price).

The remaining digits indicate the method of calculation used for the respective raw material. If no surcharge is added for a raw material, a "-" is used.

1st digit	List or customer net price using the percentage method
2nd digit	for silver (AG)
3rd digit	for copper (CU)
4th digit	for aluminum (AL)
5th digit	for lead (PB)
6th digit	for gold (AU)
7th digit	for dysprosium (Dy)[2)]
8th digit	for neodym (Nd)[2)]

Weight method

The weight method uses the basic official price, the daily price and the raw material weight. In order to calculate the surcharge, the basic official price must be subtracted from the daily price. The difference is then multiplied by the raw material weight.

The basic official price can be found in the table below using the number (1 to 9) of the respective digit of the metal factor. The raw material weight can be found in the respective product descriptions.

Percentage method

Use of the percentage method is indicated by the letters A-Z at the respective digit of the metal factor.

The surcharge is increased - dependent on the deviation of the daily price compared with the basic official price - using the percentage method in "steps" and consequently offers surcharges that remain constant within the framework of this "step range". A higher percentage rate is charged for each new step. The respective percentage level can be found in the table below.entnehmen.

Metal factor examples

L E A – – – – –

- Basis for % surcharge: List price
- Silver Basis 150 €, Step 50 €, 0.5 %
- Copper Basis 150 €, Step 50 €, 0.1 %
- No surcharge for aluminum
- No surcharge for lead
- No surcharge for gold
- No surcharge for dysprosium
- No surcharge for neodym

N – A 6 – – – –

- Basis for % surcharge: Customer net price
- No surcharge for silver
- Copper Basis 150 €, Step 50 €, 0.1 %
- Aluminum acc. to weight, basic offic. price 225 €
- No surcharge for lead
- No surcharge for gold
- No surcharge for dysprosium
- No surcharge for neodym

– – 3 – – – – –

- No basis necessary
- No surcharge for silver
- Copper acc. to weight, basic official price 150 €
- No surcharge for aluminum
- No surcharge for lead
- No surcharge for gold
- No surcharge for dysprosium
- No surcharge for neodym

1) Refer to the separate explanation on the next page regarding the raw materials dysprosium and neodym (= rare earths).
2) For a different method of calculation, refer to the separate explanation for these raw materials on the next page.
3) Source: Umicore, Hanau (www.metalsmanagement.umicore.com).
4) Source: Schutzvereinigung DEL-Notiz e.V. (www.del-notiz.org).

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Explanation of the raw material/metal surcharges for dysprosium and neodym (rare earths)

Surcharge calculation

To compensate for variations in the price of the raw materials silver[1], copper[1], aluminum[1], lead[1], gold[1], dysprosium and/or neodym, surcharges are calculated on a daily basis using the so-called metal factor for products containing these raw materials. The surcharge for dysprosium and neodym is calculated as a supplement to the price of a product if the basic official price of the raw material in question is exceeded.

The surcharge is calculated in accordance with the following criteria:

- Basic official price of the raw material[2]
  Three-month basic average price (see below) in the period before the quarter in which the order was received or the release order took place (= average official price) for
  - dysprosium (Dy metal, 99 % min. FOB China; USD/kg)
  - neodym (Nd metal, 99 % min. FOB China; USD/kg)
- Metal factor of the products
  Certain products are displayed with a metal factor. The metal factor indicates (for those raw materials concerned) the basic official price as of which the surcharges for dysprosium and neodym are calculated using the weight method. An exact explanation of the metal factor is given below.

Three-month average price

The prices of rare earths vary according to the foreign currency, and there is no freely accessible stock exchange listing. This makes it more difficult for all parties involved to monitor changes in price. In order to avoid continuous adjustment of the surcharges, but to still ensure fair, transparent pricing, an average price is calculated over a three-month period using the average monthly foreign exchange rate from USD to EUR (source: European Central Bank). Since not all facts are immediately available at the start of each month, a one-month buffer is allowed before the new average price applies.

Examples of calculation of the average official price:

Period for calculation of the average price:	Period during which the order/release order is effected and the average price applies:
Sep 2012 - Nov 2012	Q1 in 2013 (Jan - Mar)
Dec 2012 - Feb 2013	Q2 in 2013 (Apr - Jun)
Mar 2013 - May 2013	Q3 in 2013 (Jul - Sep)
Jun 2013 - Aug 2013	Q4 in 2013 (Oct - Dec)

Structure of the metal factor

The metal factor consists of several digits; the first digit is not relevant to the calculation of dysprosium and neodym.

The remaining digits indicate the method of calculation used for the respective raw material. If no surcharge is added for a raw material, a "-" is used.

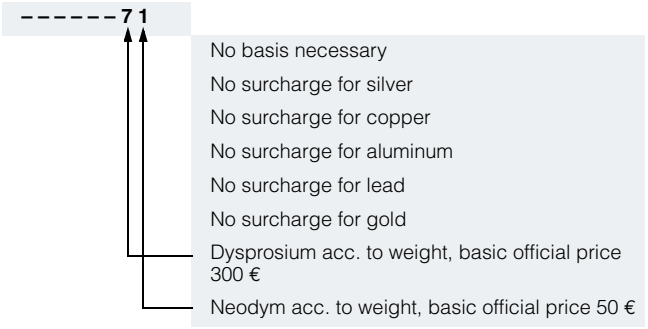
1st digit	List or customer net price using the percentage method
2nd digit	for silver (AG)[1]
3rd digit	for copper (CU)[1]
4th digit	for aluminum (AL)[1]
5th digit	for lead (PB)[1]
6th digit	for gold (AU)[1]
7th digit	for dysprosium (Dy)
8th digit	for neodym (Nd)

Weight method

The weight method uses the basic official price, the average price and the raw material weight. In order to calculate the surcharge, the basic official price must be subtracted from the average price. The difference is then multiplied by the raw material weight.

The basic official price can be found in the table below using the number (1 to 9) of the respective digit of the metal factor. Your Sales contact can inform you of the raw material weight.

Metal factor examples



[1] For a different method of calculation, refer to the separate explanation for these raw materials on the previous page.
[2] Source: Asian Metal Ltd (www.asianmetal.com)

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Values of the metal factor

Percentage method	Basic official price in €	Step range in €	% surcharge 1st step	% surcharge 2nd step	% surcharge 3rd step	% surcharge 4th step	% surcharge per additional step
			Price in €	Price in €	Price in €	Price in €	
			150.01 - 200.00	200.01 - 250.00	250.01 - 300.00	300.01 - 350.00	
A	150	50	0.1	0.2	0.3	0.4	0.1
B	150	50	0.2	0.4	0.6	0.8	0.2
C	150	50	0.3	0.6	0.9	1.2	0.3
D	150	50	0.4	0.8	1.2	1.6	0.4
E	150	50	0.5	1.0	1.5	2.0	0.5
F	150	50	0.6	1.2	1.8	2.4	0.6
G	150	50	1.0	2.0	3.0	4.0	1.0
H	150	50	1.2	2.4	3.6	4.8	1.2
I	150	50	1.6	3.2	4.8	6.4	1.6
J	150	50	1.8	3.6	5.4	7.2	1.8
			175.01 - 225.00	225.01 - 275.00	275.01 - 325.00	325.01 - 375.00	
O	175	50	0.1	0.2	0.3	0.4	0.1
P	175	50	0.2	0.4	0.6	0.8	0.2
R	175	50	0.5	1.0	1.5	2.0	0.5
			225.01 - 275.00	275.01 - 325.00	325.01 - 375.00	375.01 - 425.00	
S	225	50	0.2	0.4	0.6	0.8	0.2
U	225	50	1.0	2.0	3.0	4.0	1.0
V	225	50	1.0	1.5	2.0	3.0	1.0
W	225	50	1.2	2.5	3.5	4.5	1.0
			150.01 - 175.00	175.01 - 200.00	200.01 - 225.00	225.01 - 250.00	
Y	150	25	0.3	0.6	0.9	1.2	0.3
			400.01 - 425.00	425.01 - 450.00	450.01 - 475.00	475.01 - 500.00	
Z	400	25	0.1	0.2	0.3	0.4	0.1
	Price basis (1st digit)						
L	Calculation based on the list price						
N	Calculation based on the customer net price (discounted list price)						
Weight method	**Basic official price in €**						
1	50	Calculation based on raw material weight					
2	100						
3	150						
4	175						
5	200						
6	225						
7	300						
8	400						
9	555						
Miscellaneous							
-	No metal surcharge						

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1. General Provisions

By using this catalog you can purchase products (hardware, software and services) described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Please note that the scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

1.1 For customers with a seat or registered office in European Union

For customers with a seat or registered office in European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany"[1] and/or
- for consulting services the “Allgemeine Geschäftsbedingungen für Beratungsleistungen der Division DF – Deutschland” (available only in German) and/or
- for other services, the „Supplementary Terms and Conditions for Services (“BL”)[1] and/or
- for other supplies the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1].
  In case such supplies should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1], a notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. This shall apply mutatis mutandis for notices referring to other third party software components.

1.2 For customers with a seat or registered office outside European Union

For customers with a seat or registered office outside European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the "Standard Terms and Conditions for Consulting Services of the Division DF for Customers with a Seat or Registered Office Outside of Germany"[1] and/or
- for other services the "International Terms & Conditions for Services"[1] supplemented by "Software Licensing Conditions"[1] and/or
- for other supplies of hard- and software the "International Terms & Conditions for Products"[1] supplemented by "Software Licensing Conditions"[1]

1.3 For customers with master or framework agreement

To the extent our supplies and/or services offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

2. Prices

The prices are in € (Euro) ex point of delivery, exclusive of packaging.

The sales tax (value added tax) is not included in the prices. It shall be charged separately at the respective rate according to the applicable statutory legal regulations.

Prices are subject to change without prior notice. We will charge the prices valid at the time of delivery.

To compensate for variations in the price of raw materials (e.g. silver, copper, aluminum, lead, gold, dysprosium and neodym), surcharges are calculated on a daily basis using the so-called metal factor for products containing these raw materials.
A surcharge for the respective raw material is calculated as a supplement to the price of a product if the basic official price of the raw material in question is exceeded.

The metal factor of a product indicates the basic official price (for those raw materials concerned) as of which the surcharges on the price of the product are applied, and with what method of calculation.

You will find a detailed explanation of the metal factor on the page headed "Metal surcharges".

To calculate the surcharge (except in the cases of dysprosium and neodym), the official price from the day prior to that on which the order was received or the release order was effected is used.

To calculate the surcharge applicable to dysprosium and neodym ("rare earths"), the corresponding three-month basic average price in the quarter prior to that in which the order was received or the release order was effected is used with a one-month buffer (details on the calculation can be found in the explanation of the metal factor).

3. Additional Terms and Conditions

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog – especially with regard to data, dimensions and weights given – these are subject to change without prior notice.

[1] The text of the Terms and Conditions of Siemens AG can be downloaded at
https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

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4. Export regulations

We shall not be obligated to fulfill any agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes and/or other sanctions.

Export may be subject to license. We shall indicate in the delivery details whether licenses are required under German, European and US export lists.

Our products are controlled by the U.S. Government (when labeled with "ECCN" unequal "N") and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations. Products labeled with "AL" unequal "N" are subject to European / national export authorization.

The export indications can be viewed in advance in the description of the respective goods on the Industry Mall, our online catalog system. Only the export labels "AL" and "ECCN" indicated on order confirmations, delivery notes and invoices are authoritative.

Products without label, with label "AL:N" / "ECCN:N", or label "AL:9X9999" / "ECCN: 9X9999" may require authorization from responsible authorities depending on the final end-use, or the destination.

If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you shall comply with all applicable national and international (re-)export control regulations. In any event of such transfer of goods, works and services you shall comply with the (re-) export control regulations of the Federal Republic of Germany, of the European Union and of the United States of America.

Prior to any transfer of goods, works and services provided by us to a third party you shall in particular check and guarantee by appropriate measures that

- there will be no infringement of an embargo imposed by the European Union, by the United States of America and/ or by the United Nations by such transfer, by brokering of contracts concerning those goods, works and services or by provision of other economic resources in connection with those goods, works and services, also considering the limitations of domestic business and prohibitions of by-passing those embargos;
- such goods, works and services are not intended for use in connection with armaments, nuclear technology or weapons, if and to the extent such use is subject to prohibition or authorization, unless required authorization is provided;
- the regulations of all applicable Sanctioned Party Lists of the European Union and the United States of America concerning the trading with entities, persons and organizations listed therein are considered.

If required to enable authorities or us to conduct export control checks, you, upon request by us, shall promptly provide us with all information pertaining to the particular end customer, the particular destination and the particular intended use of goods, works and services provided by us, as well as any export control restrictions existing.

You acknowledge that under the EU embargo regulations against Iran, Syria and Russia respectively the sale of certain listed goods and related services is subject to authorization by the competent export control authorities of the European Union. If (i) the goods or services ordered by you are destined for Iran, Syria or Russia, and (ii) the contract for our supplies and/or services is subject to prior authorization of the competent export control authorities of the European Union, the contract between you and us shall come into force in this respect only upon granting of such authorization.

The products listed in this catalog may be subject to European/German and/or US export regulations. Any export requiring approval is therefore subject to authorization by the relevant authorities.

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Notes

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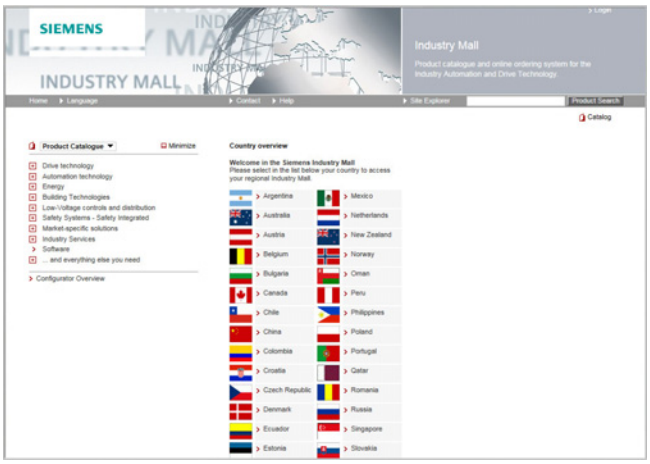
Easy product selection and ordering: Industry Mall



Industry Mall

The Industry Mall is a Siemens AG Internet ordering platform. It provides you with online access to a comprehensive product spectrum that is presented in an informative, well-organized way.

Powerful search functions help you select the required products, while configurators enable you to configure complex product and system components quickly and easily. CAx data are also available for you to use.

Data transfer allows the entire procedure, from selection through ordering to tracking and tracing, to be carried out online. Availability checks, individual customer discounting, and quotation preparation are also possible.

www.siemens.com/industrymall

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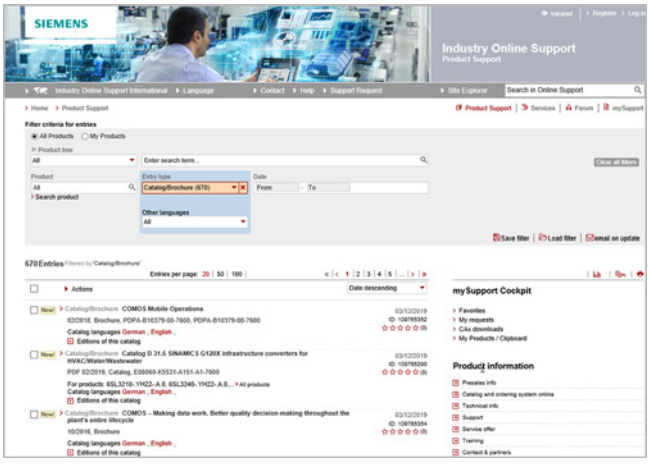

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The filter box makes it possible to perform targeted searches.

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Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit
https://www.siemens.com/industrialsecurity

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under
https://www.siemens.com/industrialsecurity

Please scan the QR code for more information on Siemens Motors.