Data sheets - Siemens SIMOTICS GP motors

4 kW / 3000 rpm - 64 article numbers in this file

Article No.	Page
1LE1002-1BA22-2FA4	2
1LE1002-1BA22-2KA4	3
1LE1002-1AA62-2AA4	4
1LE1002-1AA62-2FA4	5
1LE1002-1AA62-2KA4	6
1LE1001-1BA22-2AA4	7
1LE1001-1BA22-2FA4	8
1LE1001-1BA22-2KA4	9
1LE1001-1AA62-2AA4	10
1LE1001-1AA62-2FA4	11
1LE1001-1AA62-2KA4	12
1LE1003-1BA22-2AA4	13
1LE1003-1BA22-2FA4	14
1LE1003-1BA22-2KA4	15
1LE1041-1BA22-2FA4	16
1LE1041-1BA22-2KA4	17
1LE1041-1AA62-2FA4	18
1LE1041-1AA62-2KA4	19
1LE1043-1BA22-2AA4	20
1LE1043-1BA22-2FA4	21
1LE1043-1BA22-2KA4	22
1LE1043-1AA62-2AA4	23
1LE1043-1AA62-2FA4	24
1LE1043-1AA62-2KA4	25
1LE1004-1BA22-2AA4	26
1LE1004-1BA22-2FA4	27
1LE1004-1BA22-2KA4	28
1LE0102-1BA22-2AA4	29
1LE0102-1BA22-2FA4	30
1LE0102-1BA22-2KA4	31
1LE0102-1BA23-4AA4	32
1LE0102-1BA23-4FA4	33
1LE0102-1BA23-4KA4	34
1LE0102-1BA24-1AA4	35
1LE0102-1BA24-1FA4	36
1LE0102-1BA24-1KA4	37
1LE1502-1BA22-2AA4	38
1LE1502-1BA22-2FA4	39
1LE1502-1BA22-2KA4	40
1LE1502-1AA62-2AA4	41
1LE1502-1AA62-2FA4	42
1LE1502-1AA62-2KA4	43
1LE0101-1BA22-2AA4	44
1LE0101-1BA22-2FA4	45
1LE0101-1BA22-2KA4	46
1LE0101-1BA23-4AA4	47
1LE0101-1BA23-4FA4	48
1LE0101-1BA23-4KA4	49
1LE0101-1BA24-1AA4	50
1LE0101-1BA24-1FA4	51
1LE0101-1BA24-1KA4	52
1LE1501-1BA22-2AA4	53
1LE1501-1BA22-2FA4	54
1LE1501-1BA22-2KA4	55
1LE1501-1AA62-2AA4	56
1LE1501-1AA62-2FA4	57
1LE1501-1AA62-2KA4	58
1LE1503-1BA22-2AA4	59
1LE1503-1BA22-2FA4	60
1LE1543-1AA62-2AA4	61
1LE1543-1AA62-2FA4	62
1LE1504-1BA22-2AA4	63
1LE1504-1BA22-2FA4	64
1LE1504-1BA22-2KA4	65

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1002 (IE1)

1LE1002-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE1002-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**25 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83 | 80.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.3 | 3.3 | 4.2**
Moment of inertia J	**0.0067 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/44 (PDF 162)**
Catalog 2	**Brochure 07/2014 (14050629), p. 18 (PDF 18)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1002 (IE1)

1LE1002-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE1002-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**25 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83 | 80.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.3 | 3.3 | 4.2**
Moment of inertia J	**0.0067 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/44 (PDF 162)**
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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1002 (IE1)

1LE1002-1AA62-2AA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1002-1AA62-2AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**25 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.9 | 83 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 4.5 | 4.1**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/47 (PDF 165)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1002 (IE1)

1LE1002-1AA62-2FA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1002-1AA62-2FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**25 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.9 | 83 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 4.5 | 4.1**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/47 (PDF 165)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1002 (IE1)

1LE1002-1AA62-2KA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1002-1AA62-2KA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**25 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.9 | 83 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 4.5 | 4.1**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/47 (PDF 165)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1001 (IE2)

1LE1001-1BA22-2AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE1001-1BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.9 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.2 | 85.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 2.1 | 3.6**
Moment of inertia J	**0.0092 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/26 (PDF 144)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 19)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1001 (IE2)

1LE1001-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE1001-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.9 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.2 | 85.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 2.1 | 3.6**
Moment of inertia J	**0.0092 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/26 (PDF 144)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 19)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1001 (IE2)

1LE1001-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE1001-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.9 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.2 | 85.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 2.1 | 3.6**
Moment of inertia J	**0.0092 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/26 (PDF 144)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 19)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1001 (IE2)

1LE1001-1AA62-2AA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1001-1AA62-2AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.9 | 86.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/30 (PDF 148)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1001 (IE2)

1LE1001-1AA62-2FA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1001-1AA62-2FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.9 | 86.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/30 (PDF 148)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1001 (IE2)

1LE1001-1AA62-2KA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1001-1AA62-2KA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.9 | 86.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/30 (PDF 148)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1003 (IE3)

1LE1003-1BA22-2AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE1003-1BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.3 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**88.1 | 89.1 | 88.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.2 | 1.8 | 3.5**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/13 (PDF 131)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1003 (IE3)

1LE1003-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE1003-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.3 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**88.1 | 89.1 | 88.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.2 | 1.8 | 3.5**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/13 (PDF 131)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1003 (IE3)

1LE1003-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE1003-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.3 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**88.1 | 89.1 | 88.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.2 | 1.8 | 3.5**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/13 (PDF 131)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1041 (IE2)

1LE1041-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE1041-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3555 rpm**
Rated torque (60 Hz)	**10 Nm**
Rated current (460 V, 60 Hz)	**6.4 A**
Power factor (60 Hz)	**0.83**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**87.5 | 86.9 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.9 | 2.7 | 4.5**
Moment of inertia J	**0.0092 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**73 | 85 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1041, p. 2/65 (PDF 183)**

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1041 (IE2)

1LE1041-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE1041-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3555 rpm**
Rated torque (60 Hz)	**10 Nm**
Rated current (460 V, 60 Hz)	**6.4 A**
Power factor (60 Hz)	**0.83**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**87.5 | 86.9 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.9 | 2.7 | 4.5**
Moment of inertia J	**0.0092 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**73 | 85 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1041, p. 2/65 (PDF 183)**

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1041 (IE2)

1LE1041-1AA62-2FA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1041-1AA62-2FA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3530 rpm**
Rated torque (60 Hz)	**10 Nm**
Rated current (460 V, 60 Hz)	**6.3 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**87.5 | 87.5 | 85.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.6 | 3.3 | 4.6**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1041, p. 2/67 (PDF 185)**

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1041 (IE2)

1LE1041-1AA62-2KA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1041-1AA62-2KA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3530 rpm**
Rated torque (60 Hz)	**10 Nm**
Rated current (460 V, 60 Hz)	**6.3 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**87.5 | 87.5 | 85.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.6 | 3.3 | 4.6**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1041, p. 2/67 (PDF 185)**

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1043 (IE3)

1LE1043-1BA22-2AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE1043-1BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**10 Nm**
Rated current (460 V, 60 Hz)	**6A**
Power factor (60 Hz)	**0.88**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 88 | 86.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**10.8 | 3.2 | 5.1**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**73 | 85 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/54 (PDF 172)**

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1043 (IE3)

1LE1043-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE1043-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**10 Nm**
Rated current (460 V, 60 Hz)	**6A**
Power factor (60 Hz)	**0.88**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 88 | 86.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**10.8 | 3.2 | 5.1**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**73 | 85 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/54 (PDF 172)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1043 (IE3)

1LE1043-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE1043-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**10 Nm**
Rated current (460 V, 60 Hz)	**6A**
Power factor (60 Hz)	**0.88**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 88 | 86.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**10.8 | 3.2 | 5.1**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**73 | 85 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/54 (PDF 172)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1043 (IE3)

1LE1043-1AA62-2AA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1043-1AA62-2AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3500 rpm**
Rated torque (60 Hz)	**12 Nm**
Rated current (460 V, 60 Hz)	**7.3 A**
Power factor (60 Hz)	**0.89**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 89.6 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 4**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/56 (PDF 174)**

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1043 (IE3)

1LE1043-1AA62-2FA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1043-1AA62-2FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3500 rpm**
Rated torque (60 Hz)	**12 Nm**
Rated current (460 V, 60 Hz)	**7.3 A**
Power factor (60 Hz)	**0.89**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 89.6 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 4**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/56 (PDF 174)**

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1043 (IE3)

1LE1043-1AA62-2KA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1043-1AA62-2KA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3500 rpm**
Rated torque (60 Hz)	**12 Nm**
Rated current (460 V, 60 Hz)	**7.3 A**
Power factor (60 Hz)	**0.89**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 89.6 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 4**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/56 (PDF 174)**

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1004 (IE4)

1LE1004-1BA22-2AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE1004-1BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**13 Nm**
Rated current	**7.2 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90 | 90.4 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 2.6 | 4.1**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**68 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1004, p. 2/8 (PDF 126)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1004 (IE4)

1LE1004-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE1004-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**13 Nm**
Rated current	**7.2 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90 | 90.4 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 2.6 | 4.1**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**68 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1004, p. 2/8 (PDF 126)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1004 (IE4)

1LE1004-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE1004-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**13 Nm**
Rated current	**7.2 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90 | 90.4 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 2.6 | 4.1**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**68 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1004, p. 2/8 (PDF 126)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102 (IE1)

1LE0102-1BA22-2AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE0102-1BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**13.1 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.7 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4.2**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 20 (PDF 20)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102 (IE1)

1LE0102-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE0102-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**13.1 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.7 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4.2**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 20 (PDF 20)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102 (IE1)

1LE0102-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE0102-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**13.1 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.7 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4.2**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 20 (PDF 20)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102 (IE1)

1LE0102-1BA23-4AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE0102-1BA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**13.1 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.7 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4.2**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 20 (PDF 20)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102 (IE1)

1LE0102-1BA23-4FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE0102-1BA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**13.1 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.7 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4.2**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 20 (PDF 20)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102 (IE1)

1LE0102-1BA23-4KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE0102-1BA23-4KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**13.1 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.7 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4.2**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 20 (PDF 20)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102 (IE1)

1LE0102-1BA24-1AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE0102-1BA24-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**13.1 Nm**
Rated current	**6.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.7 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4.2**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 26 (PDF 26)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102 (IE1)

1LE0102-1BA24-1FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE0102-1BA24-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**13.1 Nm**
Rated current	**6.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.7 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4.2**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 26 (PDF 26)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102 (IE1)

1LE0102-1BA24-1KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE0102-1BA24-1KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**13.1 Nm**
Rated current	**6.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.7 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4.2**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 26 (PDF 26)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1502 (IE1)

1LE1502-1BA22-2AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE1502-1BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**36 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83 | 80.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.3 | 3.3 | 4.2**
Moment of inertia J	**0.0067 kgm2**
Sound pressure / power LpfA | LWA	**70 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/48 (PDF 166)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1502 (IE1)

1LE1502-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE1502-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**36 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83 | 80.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.3 | 3.3 | 4.2**
Moment of inertia J	**0.0067 kgm2**
Sound pressure / power LpfA | LWA	**70 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/48 (PDF 166)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1502 (IE1)

1LE1502-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE1502-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**36 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83 | 80.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.3 | 3.3 | 4.2**
Moment of inertia J	**0.0067 kgm2**
Sound pressure / power LpfA | LWA	**70 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/48 (PDF 166)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1502 (IE1)

1LE1502-1AA62-2AA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1502-1AA62-2AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.6 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.9 | 83 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 4.5 | 4.1**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/52 (PDF 170)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1502 (IE1)

1LE1502-1AA62-2FA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1502-1AA62-2FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.6 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.9 | 83 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 4.5 | 4.1**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/52 (PDF 170)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1502 (IE1)

1LE1502-1AA62-2KA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1502-1AA62-2KA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.6 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**13 Nm**
Rated current	**8.2 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**83.1 | 83.9 | 83 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 4.5 | 4.1**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/52 (PDF 170)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101 (IE2)

1LE0101-1BA22-2AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE0101-1BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**40 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2930 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.6 | 84.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.9**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 23 (PDF 23)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101 (IE2)

1LE0101-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE0101-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**40 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2930 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.6 | 84.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.9**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 23 (PDF 23)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101 (IE2)

1LE0101-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE0101-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**40 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2930 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.6 | 84.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.9**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 23 (PDF 23)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101 (IE2)

1LE0101-1BA23-4AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE0101-1BA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**40 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2930 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.6 | 84.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.9**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 23 (PDF 23)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101 (IE2)

1LE0101-1BA23-4FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE0101-1BA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**40 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2930 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.6 | 84.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.9**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 23 (PDF 23)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101 (IE2)

1LE0101-1BA23-4KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE0101-1BA23-4KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**40 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2930 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.6 | 84.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.9**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 23 (PDF 23)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101 (IE2)

1LE0101-1BA24-1AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE0101-1BA24-1AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**40 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2930 rpm**
Rated torque	**13 Nm**
Rated current	**5.9 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.6 | 84.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.9**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 28 (PDF 28)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101 (IE2)

1LE0101-1BA24-1FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE0101-1BA24-1FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**40 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2930 rpm**
Rated torque	**13 Nm**
Rated current	**5.9 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.6 | 84.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.9**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 28 (PDF 28)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101 (IE2)

1LE0101-1BA24-1KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE0101-1BA24-1KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**40 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2930 rpm**
Rated torque	**13 Nm**
Rated current	**5.9 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.6 | 84.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.9**
Moment of inertia J	**0.0064 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 28 (PDF 28)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1501 (IE2)

1LE1501-1BA22-2AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE1501-1BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.9 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.2 | 85.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 2.1 | 3.6**
Moment of inertia J	**0.0092 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/32 (PDF 150)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1501 (IE2)

1LE1501-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE1501-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.9 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.2 | 85.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 2.1 | 3.6**
Moment of inertia J	**0.0092 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/32 (PDF 150)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1501 (IE2)

1LE1501-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE1501-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**39 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.9 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.2 | 85.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 2.1 | 3.6**
Moment of inertia J	**0.0092 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/32 (PDF 150)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1501 (IE2)

1LE1501-1AA62-2AA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1501-1AA62-2AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**45 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.9 | 86.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/40 (PDF 158)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1501 (IE2)

1LE1501-1AA62-2FA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1501-1AA62-2FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**45 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.9 | 86.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/40 (PDF 158)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1501 (IE2)

1LE1501-1AA62-2KA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1501-1AA62-2KA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**45 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**13 Nm**
Rated current	**7.8 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**85.8 | 86.9 | 86.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/40 (PDF 158)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1503 (IE3)

1LE1503-1BA22-2AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE1503-1BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**45 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.3 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**88.1 | 89.1 | 88.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.2 | 1.8 | 3.5**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1503, p. 2/17 (PDF 135)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1503 (IE3)

1LE1503-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE1503-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**45 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**13 Nm**
Rated current	**7.3 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**88.1 | 89.1 | 88.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.2 | 1.8 | 3.5**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1503, p. 2/17 (PDF 135)**

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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1543 (IE3)

1LE1543-1AA62-2AA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1543-1AA62-2AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3530 rpm**
Rated torque (60 Hz)	**10 Nm**
Rated current (460 V, 60 Hz)	**6.6 A**
Power factor (60 Hz)	**0.8**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 88 | 86.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**12.4 | 4.5 | 5.8**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**75 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1543, p. 3/71**

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1543 (IE3)

1LE1543-1AA62-2FA4

4 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1543-1AA62-2FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**4 kW (about 5.5 HP)**
Rated power (P60 rating)	**4.55 kW**
Rated speed (60 Hz)	**3530 rpm**
Rated torque (60 Hz)	**10 Nm**
Rated current (460 V, 60 Hz)	**6.6 A**
Power factor (60 Hz)	**0.8**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 88 | 86.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**12.4 | 4.5 | 5.8**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**75 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1543, p. 3/71**

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1504 (IE4)

1LE1504-1BA22-2AA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B3 | Article No. 1LE1504-1BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**45 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**13 Nm**
Rated current	**7.2 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90 | 90.4 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 2.6 | 4.1**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**68 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1504, p. 2/9 (PDF 127)**

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Compiled from manufacturer catalog data for reference. NOT an official Siemens document - verify against the current Siemens data sheet before ordering.
60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1504 (IE4)

1LE1504-1BA22-2FA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B5 | Article No. 1LE1504-1BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**45 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**13 Nm**
Rated current	**7.2 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90 | 90.4 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 2.6 | 4.1**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**68 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1504, p. 2/9 (PDF 127)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1504 (IE4)

1LE1504-1BA22-2KA4

4 kW / 3000 rpm

Frame 112 M | 2 poles | IM B14 | Article No. 1LE1504-1BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**112 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**45 kg**

ELECTRICAL DATA

Rated power 50 Hz	**4 kW (about 5.5 HP)**
Rated power 60 Hz	**4.55 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**13 Nm**
Rated current	**7.2 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90 | 90.4 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 2.6 | 4.1**
Moment of inertia J	**0.012 kgm2**
Sound pressure / power LpfA | LWA	**68 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1504, p. 2/9 (PDF 127)**

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