Data sheets - Siemens SIMOTICS GP motors

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Data sheet

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

1LE1002-2AA53-4AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1002-2AA53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**200 L**
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)	**169 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**67 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.6 | 91.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.2 | 2.7 | 3.5**
Moment of inertia J	**0.15 kgm2**
Sound pressure / power LpfA | LWA	**72 | 85 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)

1LE1002-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1002-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**200 L**
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)	**169 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**67 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.6 | 91.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.2 | 2.7 | 3.5**
Moment of inertia J	**0.15 kgm2**
Sound pressure / power LpfA | LWA	**72 | 85 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 1LE1001 (IE2)

1LE1001-2AA53-4AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1001-2AA53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**200 L**
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)	**178 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**119 Nm**
Rated current	**66 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.5 | 93 | 92.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.7 | 3.5**
Moment of inertia J	**0.15 kgm2**
Sound pressure / power LpfA | LWA	**78 | 85 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/26 (PDF 144)**

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Data sheet

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

1LE1001-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1001-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**200 L**
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)	**178 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**119 Nm**
Rated current	**66 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.5 | 93 | 92.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.7 | 3.5**
Moment of inertia J	**0.15 kgm2**
Sound pressure / power LpfA | LWA	**78 | 85 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/26 (PDF 144)**

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Data sheet

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

1LE1003-2AA53-4AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1003-2AA53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
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)	**194 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**65 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.2 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.158 kgm2**
Sound pressure / power LpfA | LWA	**67 | 80 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)

1LE1003-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1003-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
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)	**194 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**65 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.2 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.158 kgm2**
Sound pressure / power LpfA | LWA	**67 | 80 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 1LE1043 (IE3)

1LE1043-2AA53-4AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1043-2AA53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
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)	**194 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**41.5 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**57 A**
Power factor (60 Hz)	**0.88**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 92.8 | 91.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.5 | 2.8 | 3.6**
Moment of inertia J	**0.158 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 84 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)

1LE1043-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1043-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
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)	**194 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**41.5 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**57 A**
Power factor (60 Hz)	**0.88**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 92.8 | 91.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.5 | 2.8 | 3.6**
Moment of inertia J	**0.158 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 84 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 1LE1004 (IE4)

1LE1004-2AA53-4AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1004-2AA53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**200 L**
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)	**214 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**64 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**94.8 | 95.1 | 94.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4**
Moment of inertia J	**0.2 kgm2**
Sound pressure / power LpfA | LWA	**69 | 83 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)

1LE1004-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1004-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**200 L**
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)	**214 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**64 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**94.8 | 95.1 | 94.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4**
Moment of inertia J	**0.2 kgm2**
Sound pressure / power LpfA | LWA	**69 | 83 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)

1LE0102-2AA53-4AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE0102-2AA53-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**200 L**
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)	**242 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**120 Nm**
Rated current	**67 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.6 | 90.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.6 | 3.2**
Moment of inertia J	**0.15 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)

1LE0102-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE0102-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**200 L**
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)	**242 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**120 Nm**
Rated current	**67 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.6 | 90.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.6 | 3.2**
Moment of inertia J	**0.15 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)

1LE0102-2AA54-1AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE0102-2AA54-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**200 L**
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)	**242 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**120 Nm**
Rated current	**51 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.6 | 90.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.6 | 3.2**
Moment of inertia J	**0.15 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)

1LE0102-2AA54-1FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE0102-2AA54-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**200 L**
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)	**242 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**120 Nm**
Rated current	**51 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.6 | 90.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.6 | 3.2**
Moment of inertia J	**0.15 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 1LE1502 (IE1)

1LE1502-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1502-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**200 L**
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)	**230 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**67 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.6 | 91.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.2 | 2.7 | 3.5**
Moment of inertia J	**0.15 kgm2**
Sound pressure / power LpfA | LWA	**72 | 85 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 1LE0101 (IE2)

1LE0101-2AA53-4AB4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE0101-2AA53-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**66 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.5 | 92.8 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.5 | 3.2**
Moment of inertia J	**0.15 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)

1LE0101-2AA53-4FB4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE0101-2AA53-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**66 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.5 | 92.8 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.5 | 3.2**
Moment of inertia J	**0.15 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)

1LE0101-2AA54-1AB4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE0101-2AA54-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**50 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.5 | 92.8 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.5 | 3.2**
Moment of inertia J	**0.15 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 1LE0101 (IE2)

1LE0101-2AA54-1FB4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE0101-2AA54-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**50 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.5 | 92.8 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.5 | 3.2**
Moment of inertia J	**0.15 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)

1LE1501-2AA53-4AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1501-2AA53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
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)	**225 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**119 Nm**
Rated current	**66 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.5 | 93 | 92.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.7 | 3.5**
Moment of inertia J	**0.15 kgm2**
Sound pressure / power LpfA | LWA	**78 | 85 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)

1LE1501-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1501-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
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)	**225 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**119 Nm**
Rated current	**66 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.5 | 93 | 92.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.7 | 3.5**
Moment of inertia J	**0.15 kgm2**
Sound pressure / power LpfA | LWA	**78 | 85 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 1LE1541 (IE2)

1LE1541-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1541-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
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)	**225 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**41.5 kW**
Rated speed (60 Hz)	**3565 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**58 A**
Power factor (60 Hz)	**0.87**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**92.4 | 92.2 | 91 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.1 | 3.3 | 3.8**
Moment of inertia J	**0.15 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**82 | 89 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1541, p. 2/68 (PDF 186)**

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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 1LE1503 (IE3)

1LE1503-2AA53-4AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1503-2AA53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
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)	**250 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**65 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.2 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.158 kgm2**
Sound pressure / power LpfA | LWA	**67 | 80 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)

1LE1503-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1503-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
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)	**250 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**65 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.2 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.158 kgm2**
Sound pressure / power LpfA | LWA	**67 | 80 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)

1LE1543-2AA53-4AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1543-2AA53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
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)	**250 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**41.5 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**57 A**
Power factor (60 Hz)	**0.88**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 92.8 | 91.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.5 | 2.8 | 3.6**
Moment of inertia J	**0.158 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 84 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/57 (PDF 175)**

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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)

1LE1543-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1543-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
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)	**250 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**41.5 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**57 A**
Power factor (60 Hz)	**0.88**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 92.8 | 91.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.5 | 2.8 | 3.6**
Moment of inertia J	**0.158 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 84 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/57 (PDF 175)**

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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)

1LE1504-2AA53-4AA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1504-2AA53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**200 L**
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)	**263 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**64 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**94.8 | 95.1 | 94.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4**
Moment of inertia J	**0.2 kgm2**
Sound pressure / power LpfA | LWA	**69 | 83 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)

1LE1504-2AA53-4FA4

37 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1504-2AA53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**200 L**
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)	**263 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**41.5 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**120 Nm**
Rated current	**64 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**94.8 | 95.1 | 94.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.9 | 4**
Moment of inertia J	**0.2 kgm2**
Sound pressure / power LpfA | LWA	**69 | 83 dB(A)**

SOURCE OF DATA

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

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