Data sheets - Siemens SIMOTICS GP motors

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Data sheet

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

1LE1001-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE1001-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1455 rpm**
Rated torque	**20 Nm**
Rated current	**6.2 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.4 | 85.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 2 | 3.1**
Moment of inertia J	**0.011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/27 (PDF 145)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 19)**

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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 1LE1001 (IE2)

1LE1001-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE1001-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1455 rpm**
Rated torque	**20 Nm**
Rated current	**6.2 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.4 | 85.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 2 | 3.1**
Moment of inertia J	**0.011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/27 (PDF 145)**
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Data sheet

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

1LE1001-1AB52-2KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE1001-1AB52-2KA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1455 rpm**
Rated torque	**20 Nm**
Rated current	**6.2 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.4 | 85.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 2 | 3.1**
Moment of inertia J	**0.011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/27 (PDF 145)**
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Data sheet

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

1LE1003-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE1003-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1450 rpm**
Rated torque	**19.8 Nm**
Rated current	**6.2 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**87.7 | 88.1 | 87.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 3.1 | 3.8**
Moment of inertia J	**0.01 kgm2**
Sound pressure / power LpfA | LWA	**67 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/14**

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Data sheet

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

1LE1003-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE1003-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1450 rpm**
Rated torque	**19.8 Nm**
Rated current	**6.2 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**87.7 | 88.1 | 87.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 3.1 | 3.8**
Moment of inertia J	**0.01 kgm2**
Sound pressure / power LpfA | LWA	**67 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/14**

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Data sheet

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

1LE1003-1AB52-2KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE1003-1AB52-2KA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1450 rpm**
Rated torque	**19.8 Nm**
Rated current	**6.2 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**87.7 | 88.1 | 87.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 3.1 | 3.8**
Moment of inertia J	**0.01 kgm2**
Sound pressure / power LpfA | LWA	**67 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/14**

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Data sheet

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

1LE1043-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE1043-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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)	**30 kg**

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

Rated power (P50 rating)	**3 kW (about 4 HP)**
Rated power (P60 rating)	**3.45 kW**
Rated speed (60 Hz)	**1760 rpm**
Rated torque (60 Hz)	**16.3 Nm**
Rated current (460 V, 60 Hz)	**5.1 A**
Power factor (60 Hz)	**0.82**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**89.5 | 89.5 | 88.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.5 | 3.1 | 4.6**
Moment of inertia J	**0.014 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**62 | 74 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)

1LE1043-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE1043-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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)	**30 kg**

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

Rated power (P50 rating)	**3 kW (about 4 HP)**
Rated power (P60 rating)	**3.45 kW**
Rated speed (60 Hz)	**1760 rpm**
Rated torque (60 Hz)	**16.3 Nm**
Rated current (460 V, 60 Hz)	**5.1 A**
Power factor (60 Hz)	**0.82**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**89.5 | 89.5 | 88.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.5 | 3.1 | 4.6**
Moment of inertia J	**0.014 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**62 | 74 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)

1LE1043-1AB52-2KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE1043-1AB52-2KA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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)	**30 kg**

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

Rated power (P50 rating)	**3 kW (about 4 HP)**
Rated power (P60 rating)	**3.45 kW**
Rated speed (60 Hz)	**1760 rpm**
Rated torque (60 Hz)	**16.3 Nm**
Rated current (460 V, 60 Hz)	**5.1 A**
Power factor (60 Hz)	**0.82**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**89.5 | 89.5 | 88.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.5 | 3.1 | 4.6**
Moment of inertia J	**0.014 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**62 | 74 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)

1LE1004-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE1004-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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)	**38 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**20 Nm**
Rated current	**5.9 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**90.4 | 91 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 3.5 | 4.2**
Moment of inertia J	**0.016 kgm2**
Sound pressure / power LpfA | LWA	**59 | 71 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)

1LE1004-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE1004-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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)	**38 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**20 Nm**
Rated current	**5.9 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**90.4 | 91 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 3.5 | 4.2**
Moment of inertia J	**0.016 kgm2**
Sound pressure / power LpfA | LWA	**59 | 71 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)

1LE1004-1AB52-2KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE1004-1AB52-2KA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**4**
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)	**38 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**20 Nm**
Rated current	**5.9 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**90.4 | 91 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 3.5 | 4.2**
Moment of inertia J	**0.016 kgm2**
Sound pressure / power LpfA | LWA	**59 | 71 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)

1LE0102-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE0102-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1420 rpm**
Rated torque	**20.2 Nm**
Rated current	**6.4 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.1 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.8 | 3.1**
Moment of inertia J	**0.0081 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 21 (PDF 21)**

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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)

1LE0102-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE0102-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1420 rpm**
Rated torque	**20.2 Nm**
Rated current	**6.4 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.1 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.8 | 3.1**
Moment of inertia J	**0.0081 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 21 (PDF 21)**

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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)

1LE0102-1AB52-2KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE0102-1AB52-2KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1420 rpm**
Rated torque	**20.2 Nm**
Rated current	**6.4 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.1 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.8 | 3.1**
Moment of inertia J	**0.0081 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 21 (PDF 21)**

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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)

1LE0102-1AB53-4AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE0102-1AB53-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1420 rpm**
Rated torque	**20.2 Nm**
Rated current	**6.4 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.1 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.8 | 3.1**
Moment of inertia J	**0.0081 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 21 (PDF 21)**

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Data sheet

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

1LE0102-1AB53-4FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE0102-1AB53-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1420 rpm**
Rated torque	**20.2 Nm**
Rated current	**6.4 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.1 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.8 | 3.1**
Moment of inertia J	**0.0081 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 21 (PDF 21)**

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Data sheet

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

1LE0102-1AB53-4KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE0102-1AB53-4KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1420 rpm**
Rated torque	**20.2 Nm**
Rated current	**6.4 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.1 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.8 | 3.1**
Moment of inertia J	**0.0081 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 21 (PDF 21)**

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Data sheet

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

1LE0102-1AB54-1AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE0102-1AB54-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1420 rpm**
Rated torque	**20.2 Nm**
Rated current	**4.85 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.1 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.8 | 3.1**
Moment of inertia J	**0.0081 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)

1LE0102-1AB54-1FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE0102-1AB54-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1420 rpm**
Rated torque	**20.2 Nm**
Rated current	**4.85 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.1 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.8 | 3.1**
Moment of inertia J	**0.0081 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)

1LE0102-1AB54-1KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE0102-1AB54-1KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1420 rpm**
Rated torque	**20.2 Nm**
Rated current	**4.85 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.1 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.8 | 3.1**
Moment of inertia J	**0.0081 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)

1LE1502-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE1502-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1425 rpm**
Rated torque	**20 Nm**
Rated current	**6.3 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.6 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.4 | 2.4 | 2.6**
Moment of inertia J	**0.0078 kgm2**
Sound pressure / power LpfA | LWA	**60 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/49 (PDF 167)**

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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)

1LE1502-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE1502-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1425 rpm**
Rated torque	**20 Nm**
Rated current	**6.3 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.6 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.4 | 2.4 | 2.6**
Moment of inertia J	**0.0078 kgm2**
Sound pressure / power LpfA | LWA	**60 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/49 (PDF 167)**

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Data sheet

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

1LE1502-1AB52-2KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE1502-1AB52-2KA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1425 rpm**
Rated torque	**20 Nm**
Rated current	**6.3 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.6 | 81.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.4 | 2.4 | 2.6**
Moment of inertia J	**0.0078 kgm2**
Sound pressure / power LpfA | LWA	**60 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/49 (PDF 167)**

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Data sheet

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

1LE0101-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE0101-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**20 Nm**
Rated current	**6.4 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.3 | 84.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.2**
Moment of inertia J	**0.01 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 24 (PDF 24)**

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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)

1LE0101-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE0101-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**20 Nm**
Rated current	**6.4 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.3 | 84.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.2**
Moment of inertia J	**0.01 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 24 (PDF 24)**

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Data sheet

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

1LE0101-1AB52-2KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE0101-1AB52-2KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**20 Nm**
Rated current	**6.4 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.3 | 84.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.2**
Moment of inertia J	**0.01 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 24 (PDF 24)**

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Data sheet

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

1LE0101-1AB53-4AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE0101-1AB53-4AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**20 Nm**
Rated current	**6.4 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.3 | 84.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.2**
Moment of inertia J	**0.01 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 24 (PDF 24)**

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Data sheet

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

1LE0101-1AB53-4FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE0101-1AB53-4FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**20 Nm**
Rated current	**6.4 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.3 | 84.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.2**
Moment of inertia J	**0.01 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 24 (PDF 24)**

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Data sheet

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

1LE0101-1AB53-4KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE0101-1AB53-4KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**20 Nm**
Rated current	**6.4 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.3 | 84.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.2**
Moment of inertia J	**0.01 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 24 (PDF 24)**

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Data sheet

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

1LE0101-1AB54-1AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE0101-1AB54-1AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**20 Nm**
Rated current	**4.85 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.3 | 84.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.2**
Moment of inertia J	**0.01 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)

1LE0101-1AB54-1FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE0101-1AB54-1FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**20 Nm**
Rated current	**4.85 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.3 | 84.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.2**
Moment of inertia J	**0.01 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)

1LE0101-1AB54-1KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE0101-1AB54-1KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**20 Nm**
Rated current	**4.85 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.3 | 84.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.2**
Moment of inertia J	**0.01 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)

1LE1501-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE1501-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1455 rpm**
Rated torque	**20 Nm**
Rated current	**6.2 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.4 | 85.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 2 | 3.1**
Moment of inertia J	**0.011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/33 (PDF 151)**

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Data sheet

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

1LE1501-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE1501-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1455 rpm**
Rated torque	**20 Nm**
Rated current	**6.2 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.4 | 85.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 2 | 3.1**
Moment of inertia J	**0.011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/33 (PDF 151)**

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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)

1LE1501-1AB52-2KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE1501-1AB52-2KA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1455 rpm**
Rated torque	**20 Nm**
Rated current	**6.2 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**85.5 | 86.4 | 85.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 2 | 3.1**
Moment of inertia J	**0.011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/33 (PDF 151)**

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Data sheet

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

1LE1503-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE1503-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1450 rpm**
Rated torque	**19.8 Nm**
Rated current	**6.2 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**87.7 | 88.1 | 87.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 3.1 | 3.8**
Moment of inertia J	**0.01 kgm2**
Sound pressure / power LpfA | LWA	**67 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/20**

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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 1LE1503 (IE3)

1LE1503-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE1503-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1450 rpm**
Rated torque	**19.8 Nm**
Rated current	**6.2 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**87.7 | 88.1 | 87.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 3.1 | 3.8**
Moment of inertia J	**0.01 kgm2**
Sound pressure / power LpfA | LWA	**67 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/20**

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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 1LE1543 (IE3)

1LE1543-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE1543-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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 - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**3 kW (about 4 HP)**
Rated power (P60 rating)	**3.45 kW**
Rated speed (60 Hz)	**1760 rpm**
Rated torque (60 Hz)	**16.3 Nm**
Rated current (460 V, 60 Hz)	**5.1 A**
Power factor (60 Hz)	**0.82**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**89.5 | 89.5 | 88.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.5 | 3.1 | 4.6**
Moment of inertia J	**0.014 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**62 | 74 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/58 (PDF 176)**

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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)

1LE1543-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE1543-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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 - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**3 kW (about 4 HP)**
Rated power (P60 rating)	**3.45 kW**
Rated speed (60 Hz)	**1760 rpm**
Rated torque (60 Hz)	**16.3 Nm**
Rated current (460 V, 60 Hz)	**5.1 A**
Power factor (60 Hz)	**0.82**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**89.5 | 89.5 | 88.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.5 | 3.1 | 4.6**
Moment of inertia J	**0.014 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**62 | 74 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/58 (PDF 176)**

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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)

1LE1504-1AB52-2AA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B3 | Article No. 1LE1504-1AB52-2AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**50 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**20 Nm**
Rated current	**5.9 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**90.4 | 91 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 3.5 | 4.2**
Moment of inertia J	**0.016 kgm2**
Sound pressure / power LpfA | LWA	**59 | 71 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1504, p. 2/10 (PDF 128)**

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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 1LE1504 (IE4)

1LE1504-1AB52-2FA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B5 | Article No. 1LE1504-1AB52-2FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**50 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**20 Nm**
Rated current	**5.9 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**90.4 | 91 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 3.5 | 4.2**
Moment of inertia J	**0.016 kgm2**
Sound pressure / power LpfA | LWA	**59 | 71 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1504, p. 2/10 (PDF 128)**

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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 1LE1504 (IE4)

1LE1504-1AB52-2KA4

3 kW / 1500 rpm

Frame 100 L | 4 poles | IM B14 | Article No. 1LE1504-1AB52-2KA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**4**
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)	**50 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**20 Nm**
Rated current	**5.9 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**90.4 | 91 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 3.5 | 4.2**
Moment of inertia J	**0.016 kgm2**
Sound pressure / power LpfA | LWA	**59 | 71 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1504, p. 2/10 (PDF 128)**

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