Data sheets - Siemens SIMOTICS GP motors

22 kW / 1500 rpm - 27 article numbers in this file

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Data sheet

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

1LE1002-1EB43-4AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE1002-1EB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**180 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)	**132 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**42.5 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.8 | 90.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 2.7 | 3.6**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**63 | 76 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/45 (PDF 163)**

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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)

1LE1002-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE1002-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**180 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)	**132 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**42.5 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.8 | 90.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 2.7 | 3.6**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**63 | 76 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/45 (PDF 163)**

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Data sheet

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

1LE1001-1EB43-4AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE1001-1EB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**180 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)	**132 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**41.5 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**91.6 | 92.2 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.6 | 3.5**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**69 | 76 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)

1LE1001-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE1001-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**180 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)	**132 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**41.5 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**91.6 | 92.2 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.6 | 3.5**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**69 | 76 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)

1LE1003-1EB43-4AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE1003-1EB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**180 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)	**142 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**143 Nm**
Rated current	**41 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**93 | 93.7 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.3 | 3.3**
Moment of inertia J	**0.14 kgm2**
Sound pressure / power LpfA | LWA	**68 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/14 (PDF 132)**

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Data sheet

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

1LE1003-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE1003-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**180 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)	**142 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**143 Nm**
Rated current	**41 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**93 | 93.7 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.3 | 3.3**
Moment of inertia J	**0.14 kgm2**
Sound pressure / power LpfA | LWA	**68 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/14 (PDF 132)**

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Data sheet

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

1LE1043-1EB43-4AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE1043-1EB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**180 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)	**142 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**1775 rpm**
Rated torque (60 Hz)	**118 Nm**
Rated current (460 V, 60 Hz)	**36.5 A**
Power factor (60 Hz)	**0.81**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.8 | 93.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.7 | 2.8 | 3.7**
Moment of inertia J	**0.14 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**70 | 77 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)

1LE1043-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE1043-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**180 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)	**142 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**1775 rpm**
Rated torque (60 Hz)	**118 Nm**
Rated current (460 V, 60 Hz)	**36.5 A**
Power factor (60 Hz)	**0.81**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.8 | 93.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.7 | 2.8 | 3.7**
Moment of inertia J	**0.14 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**70 | 77 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)

1LE1004-1EB43-4AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE1004-1EB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**180 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)	**158 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**142 Nm**
Rated current	**41.5 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 95 | 94.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.9 | 3.8**
Moment of inertia J	**0.18 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 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)

1LE1004-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE1004-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**180 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)	**158 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**142 Nm**
Rated current	**41.5 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 95 | 94.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.9 | 3.8**
Moment of inertia J	**0.18 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 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)

1LE0102-1EB43-4AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE0102-1EB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 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)	**179 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**41.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.9 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.4 | 3.2**
Moment of inertia J	**0.14 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)

1LE0102-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE0102-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 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)	**179 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**41.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.9 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.4 | 3.2**
Moment of inertia J	**0.14 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)

1LE0102-1EB44-1AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE0102-1EB44-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 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)	**179 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**31.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.9 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.4 | 3.2**
Moment of inertia J	**0.14 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)

1LE0102-1EB44-1FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE0102-1EB44-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 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)	**179 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**31.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.9 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.4 | 3.2**
Moment of inertia J	**0.14 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 1LE0101 (IE2)

1LE0101-1EB43-4AB4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE0101-1EB43-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**180 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**41 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.6 | 92.3 | 92.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.4 | 3.2**
Moment of inertia J	**0.14 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)

1LE0101-1EB43-4FB4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE0101-1EB43-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**180 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**41 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.6 | 92.3 | 92.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.4 | 3.2**
Moment of inertia J	**0.14 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)

1LE0101-1EB44-1AB4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE0101-1EB44-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**180 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**31 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.6 | 92.3 | 92.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.4 | 3.2**
Moment of inertia J	**0.14 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)

1LE0101-1EB44-1FB4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE0101-1EB44-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**180 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**31 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.6 | 92.3 | 92.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.4 | 3.2**
Moment of inertia J	**0.14 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)

1LE1501-1EB43-4AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE1501-1EB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**170 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**41.5 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**91.6 | 92.2 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.6 | 3.5**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**69 | 76 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)

1LE1501-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE1501-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**170 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**143 Nm**
Rated current	**41.5 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**91.6 | 92.2 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.6 | 3.5**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**69 | 76 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 1LE1541 (IE2)

1LE1541-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE1541-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**170 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**1770 rpm**
Rated torque (60 Hz)	**119 Nm**
Rated current (460 V, 60 Hz)	**36 A**
Power factor (60 Hz)	**0.83**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**92.4 | 92.5 | 91.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 3.9**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**72 | 79 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)

1LE1503-1EB43-4AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE1503-1EB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**180 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)	**170 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**143 Nm**
Rated current	**41 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**93 | 93.7 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.3 | 3.3**
Moment of inertia J	**0.14 kgm2**
Sound pressure / power LpfA | LWA	**68 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1503, p. 2/18 (PDF 136)**

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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)

1LE1503-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE1503-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**180 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)	**170 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**143 Nm**
Rated current	**41 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**93 | 93.7 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.3 | 3.3**
Moment of inertia J	**0.14 kgm2**
Sound pressure / power LpfA | LWA	**68 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1503, p. 2/18 (PDF 136)**

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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)

1LE1543-1EB43-4AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE1543-1EB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**180 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)	**170 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**1775 rpm**
Rated torque (60 Hz)	**118 Nm**
Rated current (460 V, 60 Hz)	**36.5 A**
Power factor (60 Hz)	**0.81**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.8 | 93.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.7 | 2.8 | 3.7**
Moment of inertia J	**0.14 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**70 | 77 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)

1LE1543-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE1543-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**180 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)	**170 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**1775 rpm**
Rated torque (60 Hz)	**118 Nm**
Rated current (460 V, 60 Hz)	**36.5 A**
Power factor (60 Hz)	**0.81**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.8 | 93.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.7 | 2.8 | 3.7**
Moment of inertia J	**0.14 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**70 | 77 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)

1LE1504-1EB43-4AA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B3 | Article No. 1LE1504-1EB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**180 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)	**192 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**142 Nm**
Rated current	**41.5 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 95 | 94.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.9 | 3.8**
Moment of inertia J	**0.18 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 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)

1LE1504-1EB43-4FA4

22 kW / 1500 rpm

Frame 180 L | 4 poles | IM B5 | Article No. 1LE1504-1EB43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**180 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)	**192 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**142 Nm**
Rated current	**41.5 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 95 | 94.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.9 | 3.8**
Moment of inertia J	**0.18 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 dB(A)**

SOURCE OF DATA

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

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