Data sheets - Siemens SIMOTICS GP motors

45 kW / 1000 rpm - 26 article numbers in this file

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Data sheet

1LE1502-2DC03-4AA4

SIMOTICS GP low-voltage motor - cast-iron series 1LE1502 Basic Line (IE1)

45 kW / 1000 rpm

Frame size 280 S | Article No. 1LE1502-2DC03-4AA4 | mounting IM B3

GENERAL DATA

Motor series	**1LE1502 Basic Line (cast iron)**
Article No.	**1LE1502-2DC03-4AA4**
Frame size	**280 S**
Number of poles	**6**
Housing material	**Cast iron**
Degree of protection	**IP55**
Cooling	**Self-ventilated (IC 411)**
Insulation / utilization	**Thermal class 155 (F) / utilized to 130 (B)**
Duty type	**S1 (continuous duty)**
Rotor	**Squirrel-cage**
Efficiency class (IEC 60034-30)	**IE1**
Voltage / connection	**400 V Δ / 690 V Y (50 Hz), 460 V Δ (60 Hz)**
Type of construction	**IM B3 (basic type, without flange)**
Net weight (IM B3)	**440 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**45 kW (60 HP)**
Rated speed, 50 Hz	**986 rpm (synchronous 1000 rpm)**
Rated torque	**436 Nm**
Rated current at 400 V	**85 A**
Power factor cos φ	**0.84**
Efficiency at 4/4 | 3/4 | 2/4 load	**91.4 | 92.0 | 91.6 %**
Locked-rotor current ratio (I_LR/I_N)	**7**
Locked-rotor torque ratio (T_LR/T_N)	**2.6**
Breakdown torque ratio (T_B/T_N)	**2.6**
Moment of inertia J	**1.1 kgm²**
Sound pressure level LpfA (50 Hz)	**63 dB(A)**
Sound power level LWA (50 Hz)	**77 dB(A)**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**54 kW**
Synchronous speed at 60 Hz	**1200 rpm**
Speed / efficiency / current at 60 Hz	**not listed in the catalog (DT Configurator)**

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Source: Siemens Catalog D 81.1 (05/2018), p. 2/50. Dimensions: see the same catalog.
Compiled from the manufacturer's catalog data for reference. It is not an official Siemens document - verify against the current Siemens data sheet before ordering.
Data at rated power, 400 V / 50 Hz, ambient 40 °C, altitude up to 1000 m.

Data sheet

1LE1502-2DC03-4FA4

SIMOTICS GP low-voltage motor - cast-iron series 1LE1502 Basic Line (IE1)

45 kW / 1000 rpm

Frame size 280 S | Article No. 1LE1502-2DC03-4FA4 | mounting IM B5

GENERAL DATA

Motor series	**1LE1502 Basic Line (cast iron)**
Article No.	**1LE1502-2DC03-4FA4**
Frame size	**280 S**
Number of poles	**6**
Housing material	**Cast iron**
Degree of protection	**IP55**
Cooling	**Self-ventilated (IC 411)**
Insulation / utilization	**Thermal class 155 (F) / utilized to 130 (B)**
Duty type	**S1 (continuous duty)**
Rotor	**Squirrel-cage**
Efficiency class (IEC 60034-30)	**IE1**
Voltage / connection	**400 V Δ / 690 V Y (50 Hz), 460 V Δ (60 Hz)**
Type of construction	**IM B5 (flange)**
Net weight (IM B3)	**440 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**45 kW (60 HP)**
Rated speed, 50 Hz	**986 rpm (synchronous 1000 rpm)**
Rated torque	**436 Nm**
Rated current at 400 V	**85 A**
Power factor cos φ	**0.84**
Efficiency at 4/4 | 3/4 | 2/4 load	**91.4 | 92.0 | 91.6 %**
Locked-rotor current ratio (I_LR/I_N)	**7**
Locked-rotor torque ratio (T_LR/T_N)	**2.6**
Breakdown torque ratio (T_B/T_N)	**2.6**
Moment of inertia J	**1.1 kgm²**
Sound pressure level LpfA (50 Hz)	**63 dB(A)**
Sound power level LWA (50 Hz)	**77 dB(A)**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**54 kW**
Synchronous speed at 60 Hz	**1200 rpm**
Speed / efficiency / current at 60 Hz	**not listed in the catalog (DT Configurator)**

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Data at rated power, 400 V / 50 Hz, ambient 40 °C, altitude up to 1000 m.

Data sheet

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

1LE0102-2DC03-4AA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B3 | Article No. 1LE0102-2DC03-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**500 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**437 Nm**
Rated current	**84 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.4 | 92.4 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 2.8**
Moment of inertia J	**1.1 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 22 (PDF 22)**

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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)

1LE0102-2DC03-4FA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B5 | Article No. 1LE0102-2DC03-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**500 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**437 Nm**
Rated current	**84 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.4 | 92.4 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 2.8**
Moment of inertia J	**1.1 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 22 (PDF 22)**

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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)

1LE0102-2DC04-1AA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B3 | Article No. 1LE0102-2DC04-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**500 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**437 Nm**
Rated current	**64 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.4 | 92.4 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 2.8**
Moment of inertia J	**1.1 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 27 (PDF 27)**

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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)

1LE0102-2DC04-1FA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B5 | Article No. 1LE0102-2DC04-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**500 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**437 Nm**
Rated current	**64 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.4 | 92.4 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 2.8**
Moment of inertia J	**1.1 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 27 (PDF 27)**

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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)

1LE1501-2DC03-4AA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B3 | Article No. 1LE1501-2DC03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**460 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**436 Nm**
Rated current	**83 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.4 | 93.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.3 | 2.7 | 2.6**
Moment of inertia J	**1.1 kgm2**
Sound pressure / power LpfA | LWA	**65 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/34 (PDF 152)**

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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)

1LE1501-2DC03-4FA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B5 | Article No. 1LE1501-2DC03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**460 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**436 Nm**
Rated current	**83 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.4 | 93.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.3 | 2.7 | 2.6**
Moment of inertia J	**1.1 kgm2**
Sound pressure / power LpfA | LWA	**65 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/34 (PDF 152)**

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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)

1LE1501-2CC63-4AA4

45 kW / 1000 rpm

Frame 250 M | 6 poles | IM B3 | Article No. 1LE1501-2CC63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**250 M**
Poles	**6**
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)	**410 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**436 Nm**
Rated current	**83 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.4 | 93.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.6 | 2.4 | 2.7**
Moment of inertia J	**1 kgm2**
Sound pressure / power LpfA | LWA	**67 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/41 (PDF 159)**

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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)

1LE1501-2CC63-4FA4

45 kW / 1000 rpm

Frame 250 M | 6 poles | IM B5 | Article No. 1LE1501-2CC63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**250 M**
Poles	**6**
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)	**410 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**436 Nm**
Rated current	**83 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.4 | 93.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.6 | 2.4 | 2.7**
Moment of inertia J	**1 kgm2**
Sound pressure / power LpfA | LWA	**67 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/41 (PDF 159)**

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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)

1LE1502-2CC63-4AA4

45 kW / 1000 rpm

Frame 250 M | 6 poles | IM B3 | Article No. 1LE1502-2CC63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**250 M**
Poles	**6**
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)	**390 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**982 rpm**
Rated torque	**438 Nm**
Rated current	**86 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**91.4 | 92.2 | 92.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.6 | 2.7 | 2.3**
Moment of inertia J	**0.93 kgm2**
Sound pressure / power LpfA | LWA	**76 | 95 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/53 (PDF 171)**

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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)

1LE1502-2CC63-4FA4

45 kW / 1000 rpm

Frame 250 M | 6 poles | IM B5 | Article No. 1LE1502-2CC63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**250 M**
Poles	**6**
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)	**390 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**982 rpm**
Rated torque	**438 Nm**
Rated current	**86 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**91.4 | 92.2 | 92.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.6 | 2.7 | 2.3**
Moment of inertia J	**0.93 kgm2**
Sound pressure / power LpfA | LWA	**76 | 95 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/53 (PDF 171)**

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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)

1LE1541-2DC03-4FA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B5 | Article No. 1LE1541-2DC03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**460 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**54 kW**
Rated speed (60 Hz)	**1188 rpm**
Rated torque (60 Hz)	**362 Nm**
Rated current (460 V, 60 Hz)	**72 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.8 | 93.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.4 | 3.1 | 3**
Moment of inertia J	**1.1 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**67 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1541, p. 2/69 (PDF 187)**

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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 1LE1541 (IE2)

1LE1541-2CC63-4FA4

45 kW / 1000 rpm

Frame 250 M | 6 poles | IM B5 | Article No. 1LE1541-2CC63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**250 M**
Poles	**6**
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)	**410 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**54 kW**
Rated speed (60 Hz)	**1186 rpm**
Rated torque (60 Hz)	**362 Nm**
Rated current (460 V, 60 Hz)	**72 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.9 | 93.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.8 | 2.7 | 3**
Moment of inertia J	**1 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**70 | 84 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1541, p. 2/70 (PDF 188)**

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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 1LE0101 (IE2)

1LE0101-2DC03-4AB4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B3 | Article No. 1LE0101-2DC03-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**510 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**436 Nm**
Rated current	**83 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.3 | 93.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 2.8**
Moment of inertia J	**1.2 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 25 (PDF 25)**

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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)

1LE0101-2DC03-4FB4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B5 | Article No. 1LE0101-2DC03-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**510 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**436 Nm**
Rated current	**83 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.3 | 93.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 2.8**
Moment of inertia J	**1.2 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 25 (PDF 25)**

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Data sheet

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

1LE0101-2DC04-1AB4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B3 | Article No. 1LE0101-2DC04-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**510 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**436 Nm**
Rated current	**63 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.3 | 93.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 2.8**
Moment of inertia J	**1.2 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 29 (PDF 29)**

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Data sheet

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

1LE0101-2DC04-1FB4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B5 | Article No. 1LE0101-2DC04-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**510 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**54 kW**
Rated speed (50 Hz)	**985 rpm**
Rated torque	**436 Nm**
Rated current	**63 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.3 | 93.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 2.8**
Moment of inertia J	**1.2 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 29 (PDF 29)**

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Data sheet

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

1LE1503-2DC03-4AA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B3 | Article No. 1LE1503-2DC03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**510 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**988 rpm**
Rated torque	**435 Nm**
Rated current	**82 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.3 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 3 | 2.8**
Moment of inertia J	**1.4 kgm2**
Sound pressure / power LpfA | LWA	**60 | 74 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/21**

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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 1LE1503 (IE3)

1LE1503-2DC03-4FA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B5 | Article No. 1LE1503-2DC03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**510 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**988 rpm**
Rated torque	**435 Nm**
Rated current	**82 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.3 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 3 | 2.8**
Moment of inertia J	**1.4 kgm2**
Sound pressure / power LpfA | LWA	**60 | 74 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/21**

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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 1LE1503 (IE3)

1LE1503-2CC63-4AA4

45 kW / 1000 rpm

Frame 250 M | 6 poles | IM B3 | Article No. 1LE1503-2CC63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**250 M**
Poles	**6**
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)	**480 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**986 rpm**
Rated torque	**435 Nm**
Rated current	**83 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.3 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.8 | 2.9**
Moment of inertia J	**1.3 kgm2**
Sound pressure / power LpfA | LWA	**68 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/28**

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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 1LE1503 (IE3)

1LE1503-2CC63-4FA4

45 kW / 1000 rpm

Frame 250 M | 6 poles | IM B5 | Article No. 1LE1503-2CC63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**250 M**
Poles	**6**
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)	**480 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**986 rpm**
Rated torque	**435 Nm**
Rated current	**83 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.3 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.8 | 2.9**
Moment of inertia J	**1.3 kgm2**
Sound pressure / power LpfA | LWA	**68 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/28**

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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 1LE1543 (IE3)

1LE1543-2DC03-4AA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B3 | Article No. 1LE1543-2DC03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**510 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**54 kW**
Rated speed (60 Hz)	**1190 rpm**
Rated torque (60 Hz)	**361 Nm**
Rated current (460 V, 60 Hz)	**72 A**
Power factor (60 Hz)	**0.83**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.6 | 94.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.7 | 3.3 | 3.1**
Moment of inertia J	**1.4 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**66 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/59 (PDF 177)**

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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)

1LE1543-2DC03-4FA4

45 kW / 1000 rpm

Frame 280 S | 6 poles | IM B5 | Article No. 1LE1543-2DC03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**280 S**
Poles	**6**
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)	**510 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**54 kW**
Rated speed (60 Hz)	**1190 rpm**
Rated torque (60 Hz)	**361 Nm**
Rated current (460 V, 60 Hz)	**72 A**
Power factor (60 Hz)	**0.83**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.6 | 94.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.7 | 3.3 | 3.1**
Moment of inertia J	**1.4 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**66 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/59 (PDF 177)**

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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)

1LE1543-2CC63-4AA4

45 kW / 1000 rpm

Frame 250 M | 6 poles | IM B3 | Article No. 1LE1543-2CC63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**250 M**
Poles	**6**
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)	**480 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**54 kW**
Rated speed (60 Hz)	**1188 rpm**
Rated torque (60 Hz)	**362 Nm**
Rated current (460 V, 60 Hz)	**72 A**
Power factor (60 Hz)	**0.83**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.7 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.1 | 2.8 | 3.2**
Moment of inertia J	**1.3 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**69 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/63 (PDF 181)**

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Data sheet

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

1LE1543-2CC63-4FA4

45 kW / 1000 rpm

Frame 250 M | 6 poles | IM B5 | Article No. 1LE1543-2CC63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**250 M**
Poles	**6**
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)	**480 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**54 kW**
Rated speed (60 Hz)	**1188 rpm**
Rated torque (60 Hz)	**362 Nm**
Rated current (460 V, 60 Hz)	**72 A**
Power factor (60 Hz)	**0.83**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.7 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.1 | 2.8 | 3.2**
Moment of inertia J	**1.3 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**69 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/63 (PDF 181)**

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