Data sheets - Siemens SIMOTICS GP motors

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Data sheet

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

1LE0102-3AA03-4AA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B3 | Article No. 1LE0102-3AA03-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**735 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**353 Nm**
Rated current	**189 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.1 | 91.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 3.1**
Moment of inertia J	**1.4 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-3AA03-4FA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B5 | Article No. 1LE0102-3AA03-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**735 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**353 Nm**
Rated current	**189 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.1 | 91.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 3.1**
Moment of inertia J	**1.4 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-3AA04-1AA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B3 | Article No. 1LE0102-3AA04-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**735 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**353 Nm**
Rated current	**144 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.1 | 91.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 3.1**
Moment of inertia J	**1.4 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)

1LE0102-3AA04-1FA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B5 | Article No. 1LE0102-3AA04-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**735 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**353 Nm**
Rated current	**144 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.1 | 91.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 3.1**
Moment of inertia J	**1.4 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)

1LE1502-3AA03-4FA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B5 | Article No. 1LE1502-3AA03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**680 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**352 Nm**
Rated current	**198 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 92.9 | 91.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.3 | 3.3**
Moment of inertia J	**1.2 kgm2**
Sound pressure / power LpfA | LWA	**80 | 94 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1502-2DA63-4AA4

110 kW / 3000 rpm

Frame 280 M | 2 poles | IM B3 | Article No. 1LE1502-2DA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**280 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**620 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2975 rpm**
Rated torque	**353 Nm**
Rated current	**189 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.5 | 93.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.4 | 3.1**
Moment of inertia J	**1 kgm2**
Sound pressure / power LpfA | LWA	**77 | 90 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1502-2DA63-4FA4

110 kW / 3000 rpm

Frame 280 M | 2 poles | IM B5 | Article No. 1LE1502-2DA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**280 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**620 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2975 rpm**
Rated torque	**353 Nm**
Rated current	**189 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.5 | 93.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.4 | 3.1**
Moment of inertia J	**1 kgm2**
Sound pressure / power LpfA | LWA	**77 | 90 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE0101-3AA03-4AB4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B3 | Article No. 1LE0101-3AA03-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**740 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**352 Nm**
Rated current	**187 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**94.3 | 94.3 | 93.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.6**
Moment of inertia J	**1.4 kgm2**

SOURCE OF DATA

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

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

Data sheet

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

1LE0101-3AA03-4FB4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B5 | Article No. 1LE0101-3AA03-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**740 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**352 Nm**
Rated current	**187 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**94.3 | 94.3 | 93.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.6**
Moment of inertia J	**1.4 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0101-3AA04-1AB4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B3 | Article No. 1LE0101-3AA04-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**740 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**352 Nm**
Rated current	**143 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**94.3 | 94.3 | 93.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.6**
Moment of inertia J	**1.4 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)

1LE0101-3AA04-1FB4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B5 | Article No. 1LE0101-3AA04-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**740 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**352 Nm**
Rated current	**143 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**94.3 | 94.3 | 93.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.2 | 2.6**
Moment of inertia J	**1.4 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)

1LE1501-3AA03-4AA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B3 | Article No. 1LE1501-3AA03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**720 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**352 Nm**
Rated current	**187 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**94.3 | 94.2 | 93.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.4 | 3**
Moment of inertia J	**1.3 kgm2**
Sound pressure / power LpfA | LWA	**77 | 91 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1501-3AA03-4FA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B5 | Article No. 1LE1501-3AA03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**720 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**352 Nm**
Rated current	**187 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**94.3 | 94.2 | 93.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.4 | 3**
Moment of inertia J	**1.3 kgm2**
Sound pressure / power LpfA | LWA	**77 | 91 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1501-2DA63-4AA4

110 kW / 3000 rpm

Frame 280 M | 2 poles | IM B3 | Article No. 1LE1501-2DA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**280 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**650 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2978 rpm**
Rated torque	**353 Nm**
Rated current	**187 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**94.3 | 94.5 | 94.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.5 | 2.9 | 3.6**
Moment of inertia J	**1.2 kgm2**
Sound pressure / power LpfA | LWA	**80 | 91 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1501-2DA63-4FA4

110 kW / 3000 rpm

Frame 280 M | 2 poles | IM B5 | Article No. 1LE1501-2DA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**280 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**650 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2978 rpm**
Rated torque	**353 Nm**
Rated current	**187 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**94.3 | 94.5 | 94.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.5 | 2.9 | 3.6**
Moment of inertia J	**1.2 kgm2**
Sound pressure / power LpfA | LWA	**80 | 91 dB(A)**

SOURCE OF DATA

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

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

Data sheet

SIMOTICS GP low-voltage motor - series 1LE1541 (IE2)

1LE1541-3AA03-4FA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B5 | Article No. 1LE1541-3AA03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**720 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**123 kW**
Rated speed (60 Hz)	**3585 rpm**
Rated torque (60 Hz)	**293 Nm**
Rated current (460 V, 60 Hz)	**162 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.9 | 2.6 | 3.3**
Moment of inertia J	**1.3 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**82 | 96 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 1LE1541 (IE2)

1LE1541-2DA63-4FA4

110 kW / 3000 rpm

Frame 280 M | 2 poles | IM B5 | Article No. 1LE1541-2DA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**280 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**650 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**123 kW**
Rated speed (60 Hz)	**3582 rpm**
Rated torque (60 Hz)	**293 Nm**
Rated current (460 V, 60 Hz)	**162 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.4 | 93.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.6 | 3.5 | 3.9**
Moment of inertia J	**1.2 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**82 | 96 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1503-3AA03-4AA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B3 | Article No. 1LE1503-3AA03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**750 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**352 Nm**
Rated current	**183 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**95.2 | 95.4 | 94.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.4 | 3.1**
Moment of inertia J	**1.4 kgm2**
Sound pressure / power LpfA | LWA	**75 | 89 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1503-3AA03-4FA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B5 | Article No. 1LE1503-3AA03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**750 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2982 rpm**
Rated torque	**352 Nm**
Rated current	**183 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**95.2 | 95.4 | 94.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.4 | 3.1**
Moment of inertia J	**1.4 kgm2**
Sound pressure / power LpfA | LWA	**75 | 89 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1503-2DA63-4AA4

110 kW / 3000 rpm

Frame 280 M | 2 poles | IM B3 | Article No. 1LE1503-2DA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**280 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**660 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2975 rpm**
Rated torque	**353 Nm**
Rated current	**183 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**95.2 | 95.4 | 95.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.2**
Moment of inertia J	**1.1 kgm2**
Sound pressure / power LpfA | LWA	**78 | 92 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1503, p. 2/24 (PDF 142)**

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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)

1LE1503-2DA63-4FA4

110 kW / 3000 rpm

Frame 280 M | 2 poles | IM B5 | Article No. 1LE1503-2DA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**280 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**660 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2975 rpm**
Rated torque	**353 Nm**
Rated current	**183 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**95.2 | 95.4 | 95.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.2**
Moment of inertia J	**1.1 kgm2**
Sound pressure / power LpfA | LWA	**78 | 92 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1503, p. 2/24 (PDF 142)**

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Data sheet

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

1LE1543-3AA03-4AA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B3 | Article No. 1LE1543-3AA03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**750 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**123 kW**
Rated speed (60 Hz)	**3585 rpm**
Rated torque (60 Hz)	**293 Nm**
Rated current (460 V, 60 Hz)	**160 A**
Power factor (60 Hz)	**0.91**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**95 | 94.8 | 93.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8 | 2.6 | 3.3**
Moment of inertia J	**1.4 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**79 | 93 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1543-3AA03-4FA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B5 | Article No. 1LE1543-3AA03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**750 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**123 kW**
Rated speed (60 Hz)	**3585 rpm**
Rated torque (60 Hz)	**293 Nm**
Rated current (460 V, 60 Hz)	**160 A**
Power factor (60 Hz)	**0.91**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**95 | 94.8 | 93.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8 | 2.6 | 3.3**
Moment of inertia J	**1.4 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**79 | 93 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1543-2DA63-4AA4

110 kW / 3000 rpm

Frame 280 M | 2 poles | IM B3 | Article No. 1LE1543-2DA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**280 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**660 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**123 kW**
Rated speed (60 Hz)	**3578 rpm**
Rated torque (60 Hz)	**294 Nm**
Rated current (460 V, 60 Hz)	**160 A**
Power factor (60 Hz)	**0.91**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**95 | 94.8 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.5 | 2.9 | 3.5**
Moment of inertia J	**1.1 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**82 | 96 dB(A)**

SOURCE OF DATA

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

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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)

1LE1543-2DA63-4FA4

110 kW / 3000 rpm

Frame 280 M | 2 poles | IM B5 | Article No. 1LE1543-2DA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**280 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**660 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**123 kW**
Rated speed (60 Hz)	**3578 rpm**
Rated torque (60 Hz)	**294 Nm**
Rated current (460 V, 60 Hz)	**160 A**
Power factor (60 Hz)	**0.91**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**95 | 94.8 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.5 | 2.9 | 3.5**
Moment of inertia J	**1.1 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**82 | 96 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 1LE1504 (IE4)

1LE1504-3AA03-4AA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B3 | Article No. 1LE1504-3AA03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**750 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2985 rpm**
Rated torque	**352 Nm**
Rated current	**186 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**96 | 96 | 95.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 2.6 | 3.4**
Moment of inertia J	**1.4 kgm2**
Sound pressure / power LpfA | LWA	**77 | 91 dB(A)**

SOURCE OF DATA

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

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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)

1LE1504-3AA03-4FA4

110 kW / 3000 rpm

Frame 315 S | 2 poles | IM B5 | Article No. 1LE1504-3AA03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**315 S**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**750 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**123 kW**
Rated speed (50 Hz)	**2985 rpm**
Rated torque	**352 Nm**
Rated current	**186 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**96 | 96 | 95.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 2.6 | 3.4**
Moment of inertia J	**1.4 kgm2**
Sound pressure / power LpfA | LWA	**77 | 91 dB(A)**

SOURCE OF DATA

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

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