Data sheets - Siemens SIMOTICS GP motors

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Data sheet

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

1LE0102-3AB03-4AA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B3 | Article No. 1LE0102-3AB03-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 S**
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)	**745 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1490 rpm**
Rated torque	**706 Nm**
Rated current	**200 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.4 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.6 | 2.8 | 3.1**
Moment of inertia J	**2.2 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)

1LE0102-3AB03-4FA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B5 | Article No. 1LE0102-3AB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 S**
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)	**745 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1490 rpm**
Rated torque	**706 Nm**
Rated current	**200 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.4 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.6 | 2.8 | 3.1**
Moment of inertia J	**2.2 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)

1LE0102-3AB04-1AA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B3 | Article No. 1LE0102-3AB04-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 S**
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)	**745 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1490 rpm**
Rated torque	**706 Nm**
Rated current	**153 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.4 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.6 | 2.8 | 3.1**
Moment of inertia J	**2.2 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-3AB04-1FA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B5 | Article No. 1LE0102-3AB04-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 S**
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)	**745 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1490 rpm**
Rated torque	**706 Nm**
Rated current	**153 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.4 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.6 | 2.8 | 3.1**
Moment of inertia J	**2.2 kgm2**

SOURCE OF DATA

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Data sheet

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

1LE1502-3AB03-4FA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B5 | Article No. 1LE1502-3AB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**315 S**
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)	**690 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**706 Nm**
Rated current	**205 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.4 | 92.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.3 | 2.7**
Moment of inertia J	**1.9 kgm2**
Sound pressure / power LpfA | LWA	**76 | 90 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)

1LE1502-2DB63-4AA4

110 kW / 1500 rpm

Frame 280 M | 4 poles | IM B3 | Article No. 1LE1502-2DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**280 M**
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)	**670 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1486 rpm**
Rated torque	**707 Nm**
Rated current	**200 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.5 | 93 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 2.6 | 3.3**
Moment of inertia J	**1.7 kgm2**
Sound pressure / power LpfA | LWA	**75 | 89 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)

1LE1502-2DB63-4FA4

110 kW / 1500 rpm

Frame 280 M | 4 poles | IM B5 | Article No. 1LE1502-2DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**280 M**
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)	**670 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1486 rpm**
Rated torque	**707 Nm**
Rated current	**200 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**93.3 | 93.5 | 93 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8 | 2.6 | 3.3**
Moment of inertia J	**1.7 kgm2**
Sound pressure / power LpfA | LWA	**75 | 89 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)

1LE0101-3AB03-4AB4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B3 | Article No. 1LE0101-3AB03-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
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)	**750 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**706 Nm**
Rated current	**195 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 94.5 | 93.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.8 | 2.9**
Moment of inertia J	**2.2 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)

1LE0101-3AB03-4FB4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B5 | Article No. 1LE0101-3AB03-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
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)	**750 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**706 Nm**
Rated current	**195 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 94.5 | 93.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.8 | 2.9**
Moment of inertia J	**2.2 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)

1LE0101-3AB04-1AB4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B3 | Article No. 1LE0101-3AB04-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
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)	**750 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**706 Nm**
Rated current	**148 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 94.5 | 93.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.8 | 2.9**
Moment of inertia J	**2.2 kgm2**

SOURCE OF DATA

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

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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)

1LE0101-3AB04-1FB4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B5 | Article No. 1LE0101-3AB04-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
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)	**750 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**706 Nm**
Rated current	**148 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 94.5 | 93.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.8 | 2.9**
Moment of inertia J	**2.2 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 1LE1501 (IE2)

1LE1501-3AB03-4AA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B3 | Article No. 1LE1501-3AB03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
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)	**740 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1490 rpm**
Rated torque	**705 Nm**
Rated current	**195 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 94.6 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.7 | 3**
Moment of inertia J	**2 kgm2**
Sound pressure / power LpfA | LWA	**72 | 86 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)

1LE1501-3AB03-4FA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B5 | Article No. 1LE1501-3AB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
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)	**740 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1490 rpm**
Rated torque	**705 Nm**
Rated current	**195 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 94.6 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.7 | 3**
Moment of inertia J	**2 kgm2**
Sound pressure / power LpfA | LWA	**72 | 86 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)

1LE1501-2DB63-4AA4

110 kW / 1500 rpm

Frame 280 M | 4 poles | IM B3 | Article No. 1LE1501-2DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**280 M**
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)	**680 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1485 rpm**
Rated torque	**707 Nm**
Rated current	**193 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 94.9 | 94.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 2.5 | 3**
Moment of inertia J	**1.7 kgm2**
Sound pressure / power LpfA | LWA	**73 | 87 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)

1LE1501-2DB63-4FA4

110 kW / 1500 rpm

Frame 280 M | 4 poles | IM B5 | Article No. 1LE1501-2DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**280 M**
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)	**680 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1485 rpm**
Rated torque	**707 Nm**
Rated current	**193 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**94.5 | 94.9 | 94.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 2.5 | 3**
Moment of inertia J	**1.7 kgm2**
Sound pressure / power LpfA | LWA	**73 | 87 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 1LE1503 (IE3)

1LE1503-2DB63-4AA4

110 kW / 1500 rpm

Frame 280 M | 4 poles | IM B3 | Article No. 1LE1503-2DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**280 M**
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)	**710 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1486 rpm**
Rated torque	**707 Nm**
Rated current	**196 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**95.4 | 95.5 | 95 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.3 | 3 | 3.4**
Moment of inertia J	**1.8 kgm2**
Sound pressure / power LpfA | LWA	**73 | 87 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)

1LE1503-2DB63-4FA4

110 kW / 1500 rpm

Frame 280 M | 4 poles | IM B5 | Article No. 1LE1503-2DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**280 M**
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)	**710 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1486 rpm**
Rated torque	**707 Nm**
Rated current	**196 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**95.4 | 95.5 | 95 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.3 | 3 | 3.4**
Moment of inertia J	**1.8 kgm2**
Sound pressure / power LpfA | LWA	**73 | 87 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 1LE1541 (IE2)

1LE1541-3AB03-4FA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B5 | Article No. 1LE1541-3AB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**315 S**
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)	**740 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**127 kW**
Rated speed (60 Hz)	**1790 rpm**
Rated torque (60 Hz)	**587 Nm**
Rated current (460 V, 60 Hz)	**169 A**
Power factor (60 Hz)	**0.86**
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 | 3.1 | 3.3**
Moment of inertia J	**2 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**79 | 93 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)

1LE1541-2DB63-4FA4

110 kW / 1500 rpm

Frame 280 M | 4 poles | IM B5 | Article No. 1LE1541-2DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**280 M**
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)	**680 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**127 kW**
Rated speed (60 Hz)	**1786 rpm**
Rated torque (60 Hz)	**588 Nm**
Rated current (460 V, 60 Hz)	**169 A**
Power factor (60 Hz)	**0.86**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**95 | 95.1 | 94.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.9 | 2.9 | 3.3**
Moment of inertia J	**1.7 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**80 | 94 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 1LE1543 (IE3)

1LE1543-2DB63-4AA4

110 kW / 1500 rpm

Frame 280 M | 4 poles | IM B3 | Article No. 1LE1543-2DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**280 M**
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)	**710 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**127 kW**
Rated speed (60 Hz)	**1788 rpm**
Rated torque (60 Hz)	**587 Nm**
Rated current (460 V, 60 Hz)	**170 A**
Power factor (60 Hz)	**0.85**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**95.8 | 95.7 | 94.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.2 | 3.4 | 3.7**
Moment of inertia J	**1.8 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 1LE1543 (IE3)

1LE1543-2DB63-4FA4

110 kW / 1500 rpm

Frame 280 M | 4 poles | IM B5 | Article No. 1LE1543-2DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**280 M**
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)	**710 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**127 kW**
Rated speed (60 Hz)	**1788 rpm**
Rated torque (60 Hz)	**587 Nm**
Rated current (460 V, 60 Hz)	**170 A**
Power factor (60 Hz)	**0.85**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**95.8 | 95.7 | 94.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.2 | 3.4 | 3.7**
Moment of inertia J	**1.8 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 1LE1503 (IE3)

1LE1503-3AB03-4AA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B3 | Article No. 1LE1503-3AB03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**315 S**
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)	**760 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**706 Nm**
Rated current	**191 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**95.4 | 95.8 | 95.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.6 | 2.9**
Moment of inertia J	**2.2 kgm2**
Sound pressure / power LpfA | LWA	**70 | 84 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1503-3AB03-4FA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B5 | Article No. 1LE1503-3AB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**315 S**
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)	**760 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**706 Nm**
Rated current	**191 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**95.4 | 95.8 | 95.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.6 | 2.9**
Moment of inertia J	**2.2 kgm2**
Sound pressure / power LpfA | LWA	**70 | 84 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1543-3AB03-4AA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B3 | Article No. 1LE1543-3AB03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**315 S**
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)	**760 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**127 kW**
Rated speed (60 Hz)	**1790 rpm**
Rated torque (60 Hz)	**587 Nm**
Rated current (460 V, 60 Hz)	**168 A**
Power factor (60 Hz)	**0.86**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**95.8 | 95.9 | 95.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.5 | 3 | 3.1**
Moment of inertia J	**2.2 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**73 | 87 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1543-3AB03-4FA4

110 kW / 1500 rpm

Frame 315 S | 4 poles | IM B5 | Article No. 1LE1543-3AB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**315 S**
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)	**760 kg**

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

Rated power (P50 rating)	**110 kW (about 148 HP)**
Rated power (P60 rating)	**127 kW**
Rated speed (60 Hz)	**1790 rpm**
Rated torque (60 Hz)	**587 Nm**
Rated current (460 V, 60 Hz)	**168 A**
Power factor (60 Hz)	**0.86**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**95.8 | 95.9 | 95.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.5 | 3 | 3.1**
Moment of inertia J	**2.2 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**73 | 87 dB(A)**

SOURCE OF DATA

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

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1504 (IE4)

1LE1504-3AB03-4AA4

110 kW / 1500 rpm

Frame 315 M | 4 poles | IM B3 | Article No. 1LE1504-3AB03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**315 M**
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)	**910 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1491 rpm**
Rated torque	**705 Nm**
Rated current	**192 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**96.3 | 96.4 | 95.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.6 | 3.2 | 3.3**
Moment of inertia J	**2.7 kgm2**
Sound pressure / power LpfA | LWA	**73 | 87 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)

1LE1504-3AB03-4FA4

110 kW / 1500 rpm

Frame 315 M | 4 poles | IM B5 | Article No. 1LE1504-3AB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**315 M**
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)	**910 kg**

ELECTRICAL DATA

Rated power 50 Hz	**110 kW (about 148 HP)**
Rated power 60 Hz	**127 kW**
Rated speed (50 Hz)	**1491 rpm**
Rated torque	**705 Nm**
Rated current	**192 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**96.3 | 96.4 | 95.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.6 | 3.2 | 3.3**
Moment of inertia J	**2.7 kgm2**
Sound pressure / power LpfA | LWA	**73 | 87 dB(A)**

SOURCE OF DATA

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

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