Data sheets - Siemens SIMOTICS GP motors

160 kW / 1500 rpm - 12 article numbers in this file

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Data sheet

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

1LE0102-3AB53-4AA4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B3 | Article No. 1LE0102-3AB53-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 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)	**950 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**1030 Nm**
Rated current	**285 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**93.8 | 94 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 3 | 2.9**
Moment of inertia J	**3 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)

1LE0102-3AB53-4FA4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B5 | Article No. 1LE0102-3AB53-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 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)	**950 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**1030 Nm**
Rated current	**285 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**93.8 | 94 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 3 | 2.9**
Moment of inertia J	**3 kgm2**

SOURCE OF DATA

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Data sheet

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

1LE0102-3AB54-1AA4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B3 | Article No. 1LE0102-3AB54-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 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)	**950 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**1030 Nm**
Rated current	**215 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**93.8 | 94 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 3 | 2.9**
Moment of inertia J	**3 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)

1LE0102-3AB54-1FA4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B5 | Article No. 1LE0102-3AB54-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**315 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)	**950 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**1030 Nm**
Rated current	**215 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**93.8 | 94 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 3 | 2.9**
Moment of inertia J	**3 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 1LE0101 (IE2)

1LE0101-3AB53-4AB4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B3 | Article No. 1LE0101-3AB53-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 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)	**960 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**1027 Nm**
Rated current	**275 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**94.9 | 94.9 | 95.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 3 | 2.9**
Moment of inertia J	**3 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)

1LE0101-3AB53-4FB4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B5 | Article No. 1LE0101-3AB53-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 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)	**960 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**1027 Nm**
Rated current	**275 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**94.9 | 94.9 | 95.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 3 | 2.9**
Moment of inertia J	**3 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)

1LE0101-3AB54-1AB4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B3 | Article No. 1LE0101-3AB54-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 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)	**960 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**1027 Nm**
Rated current	**210 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**94.9 | 94.9 | 95.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 3 | 2.9**
Moment of inertia J	**3 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)

1LE0101-3AB54-1FB4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B5 | Article No. 1LE0101-3AB54-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**315 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)	**960 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1488 rpm**
Rated torque	**1027 Nm**
Rated current	**210 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**94.9 | 94.9 | 95.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 3 | 2.9**
Moment of inertia J	**3 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)

1LE1501-3AB43-4AA4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B3 | Article No. 1LE1501-3AB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**315 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)	**940 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1490 rpm**
Rated torque	**1025 Nm**
Rated current	**280 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**94.9 | 95 | 94.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.8 | 3.1**
Moment of inertia J	**2.8 kgm2**
Sound pressure / power LpfA | LWA	**76 | 91 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 1LE1503 (IE3)

1LE1503-3AB43-4AA4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B3 | Article No. 1LE1503-3AB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**315 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)	**990 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1490 rpm**
Rated torque	**1025 Nm**
Rated current	**275 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**95.8 | 96.1 | 96.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.9 | 3.1**
Moment of inertia J	**3.1 kgm2**
Sound pressure / power LpfA | LWA	**73 | 87 dB(A)**

SOURCE OF DATA

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

1LE1543-3AB43-4AA4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B3 | Article No. 1LE1543-3AB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**315 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)	**990 kg**

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

Rated power (P50 rating)	**160 kW (about 220 HP)**
Rated power (P60 rating)	**184 kW**
Rated speed (60 Hz)	**1791 rpm**
Rated torque (60 Hz)	**853 Nm**
Rated current (460 V, 60 Hz)	**240 A**
Power factor (60 Hz)	**0.87**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**96.2 | 96.2 | 95.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3.3 | 3.3**
Moment of inertia J	**3.1 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**76 | 90 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)

1LE1504-3AB43-4AA4

160 kW / 1500 rpm

Frame 315 L | 4 poles | IM B3 | Article No. 1LE1504-3AB43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**315 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)	**1180 kg**

ELECTRICAL DATA

Rated power 50 Hz	**160 kW (about 220 HP)**
Rated power 60 Hz	**184 kW**
Rated speed (50 Hz)	**1490 rpm**
Rated torque	**1025 Nm**
Rated current	**280 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**96.6 | 96.7 | 96.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 3.6 | 3.2**
Moment of inertia J	**3.7 kgm2**
Sound pressure / power LpfA | LWA	**76 | 90 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).