Data sheets - Siemens SIMOTICS GP motors

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Data sheet

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

1LE1001-2AA63-4AA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1001-2AA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**200 L**
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)	**194 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**146 Nm**
Rated current	**81 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**92.9 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.176 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/30 (PDF 148)**

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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 1LE1001 (IE2)

1LE1001-2AA63-4FA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1001-2AA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**200 L**
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)	**194 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**146 Nm**
Rated current	**81 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**92.9 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.176 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/30 (PDF 148)**

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Data sheet

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

1LE1003-2AA63-4AA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1003-2AA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
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)	**194 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**146 Nm**
Rated current	**79 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**94 | 94.3 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.16 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/16 (PDF 134)**

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Data sheet

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

1LE1003-2AA63-4FA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1003-2AA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
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)	**194 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**146 Nm**
Rated current	**79 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**94 | 94.3 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.16 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/16 (PDF 134)**

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Data sheet

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

1LE1043-2AA63-4AA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1043-2AA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
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)	**194 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**51 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**121 Nm**
Rated current (460 V, 60 Hz)	**70 A**
Power factor (60 Hz)	**0.86**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.7 | 93 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 3.7**
Moment of inertia J	**0.17 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 84 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/56 (PDF 174)**

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

Data sheet

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

1LE1043-2AA63-4FA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1043-2AA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
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)	**194 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**51 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**121 Nm**
Rated current (460 V, 60 Hz)	**70 A**
Power factor (60 Hz)	**0.86**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.7 | 93 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 3.7**
Moment of inertia J	**0.17 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 84 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/56 (PDF 174)**

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Data sheet

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

1LE0102-2BA23-4AA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B3 | Article No. 1LE0102-2BA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**225 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)	**304 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**145 Nm**
Rated current	**81 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.7 | 91.9 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.8 | 3.3**
Moment of inertia J	**0.23 kgm2**

SOURCE OF DATA

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

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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)

1LE0102-2BA23-4FA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B5 | Article No. 1LE0102-2BA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**225 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)	**304 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**145 Nm**
Rated current	**81 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.7 | 91.9 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.8 | 3.3**
Moment of inertia J	**0.23 kgm2**

SOURCE OF DATA

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

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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)

1LE0102-2BA24-1AA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B3 | Article No. 1LE0102-2BA24-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**225 M**
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)	**304 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**145 Nm**
Rated current	**62 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.7 | 91.9 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.8 | 3.3**
Moment of inertia J	**0.23 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 26 (PDF 26)**

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

Data sheet

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

1LE0102-2BA24-1FA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B5 | Article No. 1LE0102-2BA24-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**225 M**
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)	**304 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**145 Nm**
Rated current	**62 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.7 | 91.9 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.8 | 3.3**
Moment of inertia J	**0.23 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 26 (PDF 26)**

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

Data sheet

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

1LE1502-2BA23-4FA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B5 | Article No. 1LE1502-2BA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**225 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)	**280 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**145 Nm**
Rated current	**80 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**91.7 | 92 | 91.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.7 | 2.3 | 3**
Moment of inertia J	**0.22 kgm2**
Sound pressure / power LpfA | LWA	**73 | 86 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)

1LE1502-2AA63-4AA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1502-2AA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**145 Nm**
Rated current	**83 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.7 | 92.3 | 92.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 2.5 | 3.6**
Moment of inertia J	**0.176 kgm2**
Sound pressure / power LpfA | LWA	**71 | 85 dB(A)**

SOURCE OF DATA

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

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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)

1LE1502-2AA63-4FA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1502-2AA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**145 Nm**
Rated current	**83 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.7 | 92.3 | 92.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 2.5 | 3.6**
Moment of inertia J	**0.176 kgm2**
Sound pressure / power LpfA | LWA	**71 | 85 dB(A)**

SOURCE OF DATA

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

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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)

1LE0101-2BA23-4AB4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B3 | Article No. 1LE0101-2BA23-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**225 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)	**307 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2965 rpm**
Rated torque	**145 Nm**
Rated current	**80 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.9 | 93.1 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.5 | 3.1**
Moment of inertia J	**0.24 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)

1LE0101-2BA23-4FB4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B5 | Article No. 1LE0101-2BA23-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**225 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)	**307 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2965 rpm**
Rated torque	**145 Nm**
Rated current	**80 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.9 | 93.1 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.5 | 3.1**
Moment of inertia J	**0.24 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)

1LE0101-2BA24-1AB4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B3 | Article No. 1LE0101-2BA24-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**225 M**
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)	**307 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2965 rpm**
Rated torque	**145 Nm**
Rated current	**61 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.9 | 93.1 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.5 | 3.1**
Moment of inertia J	**0.24 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 28 (PDF 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 1LE0101 (IE2)

1LE0101-2BA24-1FB4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B5 | Article No. 1LE0101-2BA24-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**225 M**
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)	**307 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2965 rpm**
Rated torque	**145 Nm**
Rated current	**61 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.9 | 93.1 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.5 | 3.1**
Moment of inertia J	**0.24 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 28 (PDF 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 1LE1501 (IE2)

1LE1501-2BA23-4AA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B3 | Article No. 1LE1501-2BA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**225 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)	**295 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2965 rpm**
Rated torque	**145 Nm**
Rated current	**79 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.9 | 93.1 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.7 | 3.7**
Moment of inertia J	**0.23 kgm2**
Sound pressure / power LpfA | LWA	**76 | 89 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)

1LE1501-2BA23-4FA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B5 | Article No. 1LE1501-2BA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**225 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)	**295 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2965 rpm**
Rated torque	**145 Nm**
Rated current	**79 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.9 | 93.1 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.7 | 3.7**
Moment of inertia J	**0.23 kgm2**
Sound pressure / power LpfA | LWA	**76 | 89 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)

1LE1501-2AA63-4AA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1501-2AA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**146 Nm**
Rated current	**81 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**92.9 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.176 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 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)

1LE1501-2AA63-4FA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1501-2AA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**146 Nm**
Rated current	**81 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**92.9 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.176 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 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)

1LE1541-2BA23-4FA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B5 | Article No. 1LE1541-2BA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**225 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)	**295 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**51 kW**
Rated speed (60 Hz)	**3570 rpm**
Rated torque (60 Hz)	**120 Nm**
Rated current (460 V, 60 Hz)	**69 A**
Power factor (60 Hz)	**0.88**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 92.7 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.7 | 3.1 | 3.8**
Moment of inertia J	**0.23 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 90 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)

1LE1541-2AA63-4FA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1541-2AA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**51 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**121 Nm**
Rated current (460 V, 60 Hz)	**71 A**
Power factor (60 Hz)	**0.86**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 93.1 | 92.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 3.7**
Moment of inertia J	**0.176 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**82 | 89 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 1LE1503 (IE3)

1LE1503-2BA23-4AA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B3 | Article No. 1LE1503-2BA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**225 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)	**315 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**145 Nm**
Rated current	**78 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**94 | 94.5 | 94.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 2.4 | 3.3**
Moment of inertia J	**0.26 kgm2**
Sound pressure / power LpfA | LWA	**73 | 87 dB(A)**

SOURCE OF DATA

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

1LE1503-2BA23-4FA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B5 | Article No. 1LE1503-2BA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**225 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)	**315 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2960 rpm**
Rated torque	**145 Nm**
Rated current	**78 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**94 | 94.5 | 94.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 2.4 | 3.3**
Moment of inertia J	**0.26 kgm2**
Sound pressure / power LpfA | LWA	**73 | 87 dB(A)**

SOURCE OF DATA

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

1LE1503-2AA63-4AA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1503-2AA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**146 Nm**
Rated current	**79 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**94 | 94.3 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.16 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 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)

1LE1503-2AA63-4FA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1503-2AA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**146 Nm**
Rated current	**79 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**94 | 94.3 | 94 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.1 | 2.5 | 3.2**
Moment of inertia J	**0.16 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 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 1LE1543 (IE3)

1LE1543-2BA23-4AA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B3 | Article No. 1LE1543-2BA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**225 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)	**315 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**51 kW**
Rated speed (60 Hz)	**3570 rpm**
Rated torque (60 Hz)	**120 Nm**
Rated current (460 V, 60 Hz)	**69 A**
Power factor (60 Hz)	**0.88**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.7 | 93.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.6 | 2.7 | 3.5**
Moment of inertia J	**0.26 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**75 | 89 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)

1LE1543-2BA23-4FA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B5 | Article No. 1LE1543-2BA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**225 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)	**315 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**51 kW**
Rated speed (60 Hz)	**3570 rpm**
Rated torque (60 Hz)	**120 Nm**
Rated current (460 V, 60 Hz)	**69 A**
Power factor (60 Hz)	**0.88**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.7 | 93.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.6 | 2.7 | 3.5**
Moment of inertia J	**0.26 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**75 | 89 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)

1LE1543-2AA63-4AA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B3 | Article No. 1LE1543-2AA63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**51 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**121 Nm**
Rated current (460 V, 60 Hz)	**70 A**
Power factor (60 Hz)	**0.86**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.7 | 93 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 3.7**
Moment of inertia J	**0.17 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 84 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)

1LE1543-2AA63-4FA4

45 kW / 3000 rpm

Frame 200 L | 2 poles | IM B5 | Article No. 1LE1543-2AA63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
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)	**245 kg**

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

Rated power (P50 rating)	**45 kW (about 60 HP)**
Rated power (P60 rating)	**51 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**121 Nm**
Rated current (460 V, 60 Hz)	**70 A**
Power factor (60 Hz)	**0.86**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.7 | 93 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 3.7**
Moment of inertia J	**0.17 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 84 dB(A)**

SOURCE OF DATA

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

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Compiled from manufacturer catalog data for reference. NOT an official Siemens document - verify against the current Siemens data sheet before ordering.
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)

1LE1504-2BA23-4AA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B3 | Article No. 1LE1504-2BA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**225 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)	**330 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2970 rpm**
Rated torque	**145 Nm**
Rated current	**80 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**95 | 95 | 94.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 3.1 | 4.1**
Moment of inertia J	**0.26 kgm2**
Sound pressure / power LpfA | LWA	**73 | 86 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)

1LE1504-2BA23-4FA4

45 kW / 3000 rpm

Frame 225 M | 2 poles | IM B5 | Article No. 1LE1504-2BA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**225 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)	**330 kg**

ELECTRICAL DATA

Rated power 50 Hz	**45 kW (about 60 HP)**
Rated power 60 Hz	**51 kW**
Rated speed (50 Hz)	**2970 rpm**
Rated torque	**145 Nm**
Rated current	**80 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**95 | 95 | 94.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.8 | 3.1 | 4.1**
Moment of inertia J	**0.26 kgm2**
Sound pressure / power LpfA | LWA	**73 | 86 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).