Data sheets - Siemens SIMOTICS GP motors

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1002 (IE1)

1LE1002-1EB23-4AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE1002-1EB23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**180 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)	**131 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1468 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 90.2 | 90.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.2 | 3.1**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**63 | 76 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/45 (PDF 163)**

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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 1LE1002 (IE1)

1LE1002-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE1002-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**180 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)	**131 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1468 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 90.2 | 90.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.2 | 3.1**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**63 | 76 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/45 (PDF 163)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1002 (IE1)

1LE1002-1DB63-4AA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B3 | Article No. 1LE1002-1DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**160 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)	**85 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**121 Nm**
Rated current	**35 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.8 | 89.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/47 (PDF 165)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1002 (IE1)

1LE1002-1DB63-4FA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B5 | Article No. 1LE1002-1DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**160 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)	**85 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**121 Nm**
Rated current	**35 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.8 | 89.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/47 (PDF 165)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1002 (IE1)

1LE1002-1DB63-4KA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B14 | Article No. 1LE1002-1DB63-4KA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**160 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)	**85 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**121 Nm**
Rated current	**35 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.8 | 89.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/47 (PDF 165)**

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Data sheet

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

1LE1001-1EB23-4AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE1001-1EB23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**180 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)	**128 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**121 Nm**
Rated current	**35 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 92 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.5 | 3.4**
Moment of inertia J	**0.12 kgm2**
Sound pressure / power LpfA | LWA	**61 | 74 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/27 (PDF 145)**

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Data sheet

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

1LE1001-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE1001-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**180 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)	**128 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**121 Nm**
Rated current	**35 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 92 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.5 | 3.4**
Moment of inertia J	**0.12 kgm2**
Sound pressure / power LpfA | LWA	**61 | 74 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/27 (PDF 145)**

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Data sheet

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

1LE1001-1DB63-4AA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B3 | Article No. 1LE1001-1DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**160 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)	**100 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**120 Nm**
Rated current	**34.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.3**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 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)

1LE1001-1DB63-4FA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B5 | Article No. 1LE1001-1DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**160 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)	**100 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**120 Nm**
Rated current	**34.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.3**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 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 1LE1001 (IE2)

1LE1001-1DB63-4KA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B14 | Article No. 1LE1001-1DB63-4KA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**160 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)	**100 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**120 Nm**
Rated current	**34.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.3**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 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)

1LE1003-1DB63-4AA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B3 | Article No. 1LE1003-1DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**111 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1480 rpm**
Rated torque	**119 Nm**
Rated current	**38 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**92.6 | 92.7 | 91.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 2.7 | 3.8**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**62 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/17**

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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 1LE1003 (IE3)

1LE1003-1DB63-4FA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B5 | Article No. 1LE1003-1DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**111 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1480 rpm**
Rated torque	**119 Nm**
Rated current	**38 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**92.6 | 92.7 | 91.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 2.7 | 3.8**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**62 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/17**

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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 1LE1041 (IE2)

1LE1041-1DB63-4FA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B5 | Article No. 1LE1041-1DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**160 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)	**100 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**30 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**92.4 | 92.4 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.8 | 2.9 | 3.6**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1041, p. 2/67 (PDF 185)**

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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 1LE1041 (IE2)

1LE1041-1DB63-4KA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B14 | Article No. 1LE1041-1DB63-4KA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**160 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)	**100 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**30 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**92.4 | 92.4 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.8 | 2.9 | 3.6**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**69 | 81 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1041, p. 2/67 (PDF 185)**

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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 1LE1003 (IE3)

1LE1003-1EB23-4AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE1003-1EB23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**180 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)	**134 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**92.6 | 93.1 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.5 | 3.3**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**66 | 73 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/14 (PDF 132)**

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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 1LE1003 (IE3)

1LE1003-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE1003-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**180 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)	**134 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**92.6 | 93.1 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.5 | 3.3**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**66 | 73 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/14 (PDF 132)**

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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 1LE1043 (IE3)

1LE1043-1EB23-4AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE1043-1EB23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**180 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)	**134 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1775 rpm**
Rated torque (60 Hz)	**100 Nm**
Rated current (460 V, 60 Hz)	**30.5 A**
Power factor (60 Hz)	**0.81**
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)	**7.8 | 2.7 | 3.6**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**68 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/54 (PDF 172)**

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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)

1LE1043-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE1043-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**180 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)	**134 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1775 rpm**
Rated torque (60 Hz)	**100 Nm**
Rated current (460 V, 60 Hz)	**30.5 A**
Power factor (60 Hz)	**0.81**
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)	**7.8 | 2.7 | 3.6**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**68 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/54 (PDF 172)**

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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)

1LE1043-1DB63-4AA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B3 | Article No. 1LE1043-1DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**110 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**33 A**
Power factor (60 Hz)	**0.75**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.3 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.6 | 3.9 | 4.5**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**69 | 81 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)

1LE1043-1DB63-4FA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B5 | Article No. 1LE1043-1DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**110 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**33 A**
Power factor (60 Hz)	**0.75**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.3 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.6 | 3.9 | 4.5**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**69 | 81 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)

1LE1043-1DB63-4KA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B14 | Article No. 1LE1043-1DB63-4KA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**110 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**33 A**
Power factor (60 Hz)	**0.75**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.3 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.6 | 3.9 | 4.5**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**69 | 81 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 1LE1004 (IE4)

1LE1004-1EB23-4AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE1004-1EB23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**180 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)	**153 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**94.2 | 94.7 | 94.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.7 | 3.6**
Moment of inertia J	**0.17 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1004, p. 2/8 (PDF 126)**

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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 1LE1004 (IE4)

1LE1004-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE1004-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**180 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)	**153 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**94.2 | 94.7 | 94.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.7 | 3.6**
Moment of inertia J	**0.17 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1004, p. 2/8 (PDF 126)**

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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)

1LE0102-1EB23-4AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE0102-1EB23-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 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)	**163 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 90.3 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.7 | 3.5**
Moment of inertia J	**0.13 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)

1LE0102-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE0102-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 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)	**163 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 90.3 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.7 | 3.5**
Moment of inertia J	**0.13 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)

1LE0102-1EB24-1AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE0102-1EB24-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 M**
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)	**163 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**27 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 90.3 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.7 | 3.5**
Moment of inertia J	**0.13 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)

1LE0102-1EB24-1FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE0102-1EB24-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 M**
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)	**163 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**27 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 90.3 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.8 | 2.7 | 3.5**
Moment of inertia J	**0.13 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)

1LE1502-1DB63-4AA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B3 | Article No. 1LE1502-1DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**160 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)	**125 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**121 Nm**
Rated current	**35 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.8 | 89.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 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)

1LE1502-1DB63-4FA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B5 | Article No. 1LE1502-1DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**160 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)	**125 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**121 Nm**
Rated current	**35 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.8 | 89.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 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)

1LE1502-1DB63-4KA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B14 | Article No. 1LE1502-1DB63-4KA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**160 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)	**125 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1460 rpm**
Rated torque	**121 Nm**
Rated current	**35 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.8 | 89.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 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)

1LE0101-1EB23-4AB4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE0101-1EB23-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**165 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**121 Nm**
Rated current	**34.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.5 | 3.2**
Moment of inertia J	**0.13 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)

1LE0101-1EB23-4FB4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE0101-1EB23-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**165 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**121 Nm**
Rated current	**34.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.5 | 3.2**
Moment of inertia J	**0.13 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)

1LE0101-1EB24-1AB4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE0101-1EB24-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 M**
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)	**165 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**121 Nm**
Rated current	**26.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.5 | 3.2**
Moment of inertia J	**0.13 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)

1LE0101-1EB24-1FB4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE0101-1EB24-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 M**
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)	**165 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**121 Nm**
Rated current	**26.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.5 | 3.2**
Moment of inertia J	**0.13 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)

1LE1501-1EB23-4AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE1501-1EB23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**160 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**121 Nm**
Rated current	**35 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 92 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.5 | 3.4**
Moment of inertia J	**0.12 kgm2**
Sound pressure / power LpfA | LWA	**61 | 74 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)

1LE1501-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE1501-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**160 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1465 rpm**
Rated torque	**121 Nm**
Rated current	**35 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 92 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.5 | 3.4**
Moment of inertia J	**0.12 kgm2**
Sound pressure / power LpfA | LWA	**61 | 74 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)

1LE1501-1DB63-4AA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B3 | Article No. 1LE1501-1DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**160 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)	**116 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**120 Nm**
Rated current	**34.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.3**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 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)

1LE1501-1DB63-4FA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B5 | Article No. 1LE1501-1DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**160 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)	**116 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**120 Nm**
Rated current	**34.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.3**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 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)

1LE1501-1DB63-4KA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B14 | Article No. 1LE1501-1DB63-4KA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**160 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)	**116 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**120 Nm**
Rated current	**34.5 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.3**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 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)

1LE1541-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE1541-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**180 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)	**160 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1770 rpm**
Rated torque (60 Hz)	**100 Nm**
Rated current (460 V, 60 Hz)	**30.5 A**
Power factor (60 Hz)	**0.83**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**92.4 | 92.6 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.7 | 2.8 | 3.9**
Moment of inertia J	**0.12 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**64 | 77 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 1LE1503 (IE3)

1LE1503-1EB23-4AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE1503-1EB23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**180 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)	**165 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**92.6 | 93.1 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.5 | 3.3**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**66 | 73 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 1LE1503 (IE3)

1LE1503-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE1503-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**180 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)	**165 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**92.6 | 93.1 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.5 | 3.3**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA	**66 | 73 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 1LE1503 (IE3)

1LE1503-1DB63-4AA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B3 | Article No. 1LE1503-1DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**160 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)	**126 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1480 rpm**
Rated torque	**119 Nm**
Rated current	**38 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**92.6 | 92.7 | 91.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 2.7 | 3.8**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**62 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/27**

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

Data sheet

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

1LE1503-1DB63-4FA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B5 | Article No. 1LE1503-1DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**160 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)	**126 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1480 rpm**
Rated torque	**119 Nm**
Rated current	**38 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**92.6 | 92.7 | 91.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 2.7 | 3.8**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**62 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/27**

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

Data sheet

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

1LE1503-1DB63-4KA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B14 | Article No. 1LE1503-1DB63-4KA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**160 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)	**126 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1480 rpm**
Rated torque	**119 Nm**
Rated current	**38 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**92.6 | 92.7 | 91.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 2.7 | 3.8**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA	**62 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/27**

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

Data sheet

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

1LE1543-1EB23-4AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE1543-1EB23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**180 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)	**165 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1775 rpm**
Rated torque (60 Hz)	**100 Nm**
Rated current (460 V, 60 Hz)	**30.5 A**
Power factor (60 Hz)	**0.81**
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)	**7.8 | 2.7 | 3.6**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**68 | 75 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 1LE1543 (IE3)

1LE1543-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE1543-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**180 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)	**165 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1775 rpm**
Rated torque (60 Hz)	**100 Nm**
Rated current (460 V, 60 Hz)	**30.5 A**
Power factor (60 Hz)	**0.81**
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)	**7.8 | 2.7 | 3.6**
Moment of inertia J	**0.13 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**68 | 75 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)

1LE1543-1DB63-4AA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B3 | Article No. 1LE1543-1DB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**160 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)	**140 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**33 A**
Power factor (60 Hz)	**0.75**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.3 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.6 | 3.9 | 4.5**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**69 | 81 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)

1LE1543-1DB63-4FA4

18.5 kW / 1500 rpm

Frame 160 L | 4 poles | IM B5 | Article No. 1LE1543-1DB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**160 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)	**140 kg**

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

Rated power (P50 rating)	**18.5 kW (about 25 HP)**
Rated power (P60 rating)	**21.3 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**99 Nm**
Rated current (460 V, 60 Hz)	**33 A**
Power factor (60 Hz)	**0.75**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93.6 | 93.3 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.6 | 3.9 | 4.5**
Moment of inertia J	**0.099 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**69 | 81 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)

1LE1504-1EB23-4AA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B3 | Article No. 1LE1504-1EB23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**180 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)	**187 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**94.2 | 94.7 | 94.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.7 | 3.6**
Moment of inertia J	**0.17 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 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)

1LE1504-1EB23-4FA4

18.5 kW / 1500 rpm

Frame 180 M | 4 poles | IM B5 | Article No. 1LE1504-1EB23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**180 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)	**187 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**120 Nm**
Rated current	**35 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**94.2 | 94.7 | 94.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.7 | 3.6**
Moment of inertia J	**0.17 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 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).