Data sheets - Siemens SIMOTICS GP motors

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Data sheet

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

1LE1002-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1002-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**160 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)	**78 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**34.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.7 | 89.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.7 | 3.4**
Moment of inertia J	**0.044 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/44 (PDF 162)**
Catalog 2	**Brochure 07/2014 (14050629), p. 18 (PDF 18)**

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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)

1LE1002-1DA43-4KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1002-1DA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**160 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)	**78 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**34.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.7 | 89.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.7 | 3.4**
Moment of inertia J	**0.044 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/44 (PDF 162)**
Catalog 2	**Brochure 07/2014 (14050629), p. 18 (PDF 18)**

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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)

1LE1001-1DA43-4AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1001-1DA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**160 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)	**84 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**33.5 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.3 | 90.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.9 | 3.6**
Moment of inertia J	**0.061 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/26 (PDF 144)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 19)**

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Data sheet

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

1LE1001-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1001-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**160 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)	**84 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**33.5 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.3 | 90.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.9 | 3.6**
Moment of inertia J	**0.061 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/26 (PDF 144)**
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Data sheet

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

1LE1001-1DA43-4KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1001-1DA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**160 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)	**84 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**33.5 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.3 | 90.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.9 | 3.6**
Moment of inertia J	**0.061 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/26 (PDF 144)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 19)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1041 (IE2)

1LE1041-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1041-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**160 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)	**84 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)	**3565 rpm**
Rated torque (60 Hz)	**50 Nm**
Rated current (460 V, 60 Hz)	**29.5 A**
Power factor (60 Hz)	**0.87**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91 | 90.8 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.9 | 3.3 | 4.1**
Moment of inertia J	**0.061 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 89 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1041, p. 2/65 (PDF 183)**

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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)

1LE1041-1DA43-4KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1041-1DA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**160 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)	**84 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)	**3565 rpm**
Rated torque (60 Hz)	**50 Nm**
Rated current (460 V, 60 Hz)	**29.5 A**
Power factor (60 Hz)	**0.87**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91 | 90.8 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.9 | 3.3 | 4.1**
Moment of inertia J	**0.061 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 89 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1041, p. 2/65 (PDF 183)**

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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)

1LE1003-1DA43-4AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1003-1DA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**94 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**32 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**92.4 | 92.8 | 92.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 2.8 | 4.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/13 (PDF 131)**

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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)

1LE1003-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1003-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**94 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**32 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**92.4 | 92.8 | 92.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 2.8 | 4.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/13 (PDF 131)**

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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)

1LE1003-1DA43-4KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1003-1DA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**94 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**32 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**92.4 | 92.8 | 92.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 2.8 | 4.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/13 (PDF 131)**

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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)

1LE1043-1DA43-4AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1043-1DA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**94 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)	**3560 rpm**
Rated torque (60 Hz)	**50 Nm**
Rated current (460 V, 60 Hz)	**28 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.5 | 90.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.4 | 3.1 | 4.4**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 89 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)

1LE1043-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1043-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**94 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)	**3560 rpm**
Rated torque (60 Hz)	**50 Nm**
Rated current (460 V, 60 Hz)	**28 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.5 | 90.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.4 | 3.1 | 4.4**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 89 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)

1LE1043-1DA43-4KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1043-1DA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**160 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)	**94 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)	**3560 rpm**
Rated torque (60 Hz)	**50 Nm**
Rated current (460 V, 60 Hz)	**28 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.5 | 90.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.4 | 3.1 | 4.4**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 89 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 1LE1004 (IE4)

1LE1004-1DA43-4AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1004-1DA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**160 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)	**112 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**31.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.1 | 93.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.9 | 3.1 | 4.3**
Moment of inertia J	**0.074 kgm2**
Sound pressure / power LpfA | LWA	**74 | 87 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)

1LE1004-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1004-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**160 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)	**112 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**31.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.1 | 93.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.9 | 3.1 | 4.3**
Moment of inertia J	**0.074 kgm2**
Sound pressure / power LpfA | LWA	**74 | 87 dB(A)**

SOURCE OF DATA

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

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1004 (IE4)

1LE1004-1DA43-4KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1004-1DA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**160 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)	**112 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**31.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.1 | 93.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.9 | 3.1 | 4.3**
Moment of inertia J	**0.074 kgm2**
Sound pressure / power LpfA | LWA	**74 | 87 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-1DA43-4AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE0102-1DA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**160 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)	**120 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**35 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.9 | 89.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.4**
Moment of inertia J	**0.041 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE0102-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**160 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)	**120 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**35 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.9 | 89.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.4**
Moment of inertia J	**0.041 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-1DA43-4KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE0102-1DA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**160 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)	**120 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**35 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.9 | 89.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.4**
Moment of inertia J	**0.041 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-1DA44-1AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE0102-1DA44-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**160 L**
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)	**120 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**26.5 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.9 | 89.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.4**
Moment of inertia J	**0.041 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-1DA44-1FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE0102-1DA44-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**160 L**
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)	**120 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**26.5 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.9 | 89.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.4**
Moment of inertia J	**0.041 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-1DA44-1KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE0102-1DA44-1KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**160 L**
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)	**120 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**26.5 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.9 | 89.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.4**
Moment of inertia J	**0.041 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)

1LE1502-1DA43-4AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1502-1DA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**160 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)	**105 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**22 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**34.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.7 | 89.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.7 | 3.4**
Moment of inertia J	**0.044 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)

1LE1502-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1502-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**160 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)	**105 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**22 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**34.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.7 | 89.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.7 | 3.4**
Moment of inertia J	**0.044 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)

1LE1502-1DA43-4KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1502-1DA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**160 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)	**105 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**22 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**60 Nm**
Rated current	**34.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.3 | 89.7 | 89.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.7 | 3.4**
Moment of inertia J	**0.044 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 1LE0101 (IE2)

1LE0101-1DA43-4AB4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE0101-1DA43-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**160 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)	**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)	**2935 rpm**
Rated torque	**60.2 Nm**
Rated current	**33 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.7 | 91.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.4 | 3.2**
Moment of inertia J	**0.046 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)

1LE0101-1DA43-4FB4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE0101-1DA43-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**160 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)	**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)	**2935 rpm**
Rated torque	**60.2 Nm**
Rated current	**33 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.7 | 91.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.4 | 3.2**
Moment of inertia J	**0.046 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0101-1DA43-4KB4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE0101-1DA43-4KB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**160 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)	**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)	**2935 rpm**
Rated torque	**60.2 Nm**
Rated current	**33 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.7 | 91.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.4 | 3.2**
Moment of inertia J	**0.046 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)

1LE0101-1DA44-1AB4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE0101-1DA44-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**160 L**
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)	**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)	**2935 rpm**
Rated torque	**60.2 Nm**
Rated current	**25 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.7 | 91.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.4 | 3.2**
Moment of inertia J	**0.046 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)

1LE0101-1DA44-1FB4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE0101-1DA44-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**160 L**
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)	**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)	**2935 rpm**
Rated torque	**60.2 Nm**
Rated current	**25 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.7 | 91.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.4 | 3.2**
Moment of inertia J	**0.046 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)

1LE0101-1DA44-1KB4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE0101-1DA44-1KB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**160 L**
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)	**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)	**2935 rpm**
Rated torque	**60.2 Nm**
Rated current	**25 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.7 | 91.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.4 | 3.2**
Moment of inertia J	**0.046 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)

1LE1501-1DA43-4AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1501-1DA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**160 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)	**113 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**33.5 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.3 | 90.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.9 | 3.6**
Moment of inertia J	**0.061 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1501-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1501-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**160 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)	**113 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**33.5 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.3 | 90.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.9 | 3.6**
Moment of inertia J	**0.061 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1501-1DA43-4KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1501-1DA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**160 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)	**113 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**33.5 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.3 | 90.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 2.9 | 3.6**
Moment of inertia J	**0.061 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1503-1DA43-4AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1503-1DA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**160 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)	**127 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**32 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**92.4 | 92.8 | 92.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 2.8 | 4.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 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)

1LE1503-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1503-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**160 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)	**127 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**32 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**92.4 | 92.8 | 92.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 2.8 | 4.2**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1543-1DA43-4AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1543-1DA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**160 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)	**127 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)	**3560 rpm**
Rated torque (60 Hz)	**50 Nm**
Rated current (460 V, 60 Hz)	**28 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.5 | 90.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.4 | 3.1 | 4.4**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 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)

1LE1543-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1543-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**160 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)	**127 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)	**3560 rpm**
Rated torque (60 Hz)	**50 Nm**
Rated current (460 V, 60 Hz)	**28 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.5 | 90.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.4 | 3.1 | 4.4**
Moment of inertia J	**0.068 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**77 | 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 1LE1504 (IE4)

1LE1504-1DA43-4AA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1504-1DA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**160 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)	**147 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**31.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.1 | 93.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.9 | 3.1 | 4.3**
Moment of inertia J	**0.074 kgm2**
Sound pressure / power LpfA | LWA	**74 | 87 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)

1LE1504-1DA43-4FA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1504-1DA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**160 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)	**147 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**31.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.1 | 93.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.9 | 3.1 | 4.3**
Moment of inertia J	**0.074 kgm2**
Sound pressure / power LpfA | LWA	**74 | 87 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1504-1DA43-4KA4

18.5 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1504-1DA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**160 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)	**147 kg**

ELECTRICAL DATA

Rated power 50 Hz	**18.5 kW (about 25 HP)**
Rated power 60 Hz	**21.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**60 Nm**
Rated current	**31.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**93.7 | 94.1 | 93.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.9 | 3.1 | 4.3**
Moment of inertia J	**0.074 kgm2**
Sound pressure / power LpfA | LWA	**74 | 87 dB(A)**

SOURCE OF DATA

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

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