Data sheets - Siemens SIMOTICS GP motors

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Tel: 0935 186 4634
info@mehvarniro.com | mehvarniro.com
محور نیرو

Data sheet

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

1LE1002-1EA23-4AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE1002-1EA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**112 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**71 Nm**
Rated current	**40.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.6 | 90.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.5**
Moment of inertia J	**0.069 kgm2**
Sound pressure / power LpfA | LWA	**72 | 85 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/44 (PDF 162)**

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1002-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1002-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**112 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**71 Nm**
Rated current	**40.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.6 | 90.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.5**
Moment of inertia J	**0.069 kgm2**
Sound pressure / power LpfA | LWA	**72 | 85 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/44 (PDF 162)**

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Data sheet

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

1LE1002-1DA63-4AA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1002-1DA63-4AA4

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)	**85 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**72 Nm**
Rated current	**39 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.2 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.6 | 3.4**
Moment of inertia J	**0.049 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1002-1DA63-4FA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1002-1DA63-4FA4

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)	**85 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**72 Nm**
Rated current	**39 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.2 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.6 | 3.4**
Moment of inertia J	**0.049 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1002-1DA63-4KA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1002-1DA63-4KA4

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)	**85 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**72 Nm**
Rated current	**39 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.2 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.6 | 3.4**
Moment of inertia J	**0.049 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1001-1EA23-4AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE1001-1EA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**123 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2940 rpm**
Rated torque	**71 Nm**
Rated current	**40 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.7 | 3.6**
Moment of inertia J	**0.069 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 dB(A)**

SOURCE OF DATA

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

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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)

1LE1001-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1001-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**123 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2940 rpm**
Rated torque	**71 Nm**
Rated current	**40 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.7 | 3.6**
Moment of inertia J	**0.069 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 dB(A)**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1001-1DA63-4AA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1001-1DA63-4AA4

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)	**94 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**71 Nm**
Rated current	**39 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.4 | 3.1 | 3.7**
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 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)

1LE1001-1DA63-4FA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1001-1DA63-4FA4

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)	**94 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**71 Nm**
Rated current	**39 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.4 | 3.1 | 3.7**
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 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)

1LE1001-1DA63-4KA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1001-1DA63-4KA4

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)	**94 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**71 Nm**
Rated current	**39 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.4 | 3.1 | 3.7**
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 1LE1001, p. 2/30 (PDF 148)**

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1041-1DA63-4FA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1041-1DA63-4FA4

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)	**94 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**3565 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**34 A**
Power factor (60 Hz)	**0.89**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91 | 91 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.6 | 3.6 | 4.3**
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 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)

1LE1041-1DA63-4KA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1041-1DA63-4KA4

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)	**94 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**3565 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**34 A**
Power factor (60 Hz)	**0.89**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91 | 91 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.6 | 3.6 | 4.3**
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 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)

1LE1003-1EA23-4AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE1003-1EA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**122 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**71 Nm**
Rated current	**38.5 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.3 | 3.5**
Moment of inertia J	**0.08 kgm2**
Sound pressure / power LpfA | LWA	**67 | 80 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)

1LE1003-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1003-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**122 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**71 Nm**
Rated current	**38.5 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.3 | 3.5**
Moment of inertia J	**0.08 kgm2**
Sound pressure / power LpfA | LWA	**67 | 80 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)

1LE1003-1DA63-4AA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1003-1DA63-4AA4

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)	**108 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**71 Nm**
Rated current	**37.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 92.8 | 92.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9.9 | 3.5 | 4.4**
Moment of inertia J	**0.0603 kgm2**
Sound pressure / power LpfA | LWA	**76 | 84 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)

1LE1003-1DA63-4FA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1003-1DA63-4FA4

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)	**108 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**71 Nm**
Rated current	**37.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 92.8 | 92.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9.9 | 3.5 | 4.4**
Moment of inertia J	**0.0603 kgm2**
Sound pressure / power LpfA | LWA	**76 | 84 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 1LE1043 (IE3)

1LE1043-1EA23-4AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE1043-1EA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**129 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**24.5 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**34 A**
Power factor (60 Hz)	**0.89**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.4 | 90 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.2 | 2.8 | 3.9**
Moment of inertia J	**0.08 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)

1LE1043-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1043-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**129 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**24.5 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**34 A**
Power factor (60 Hz)	**0.89**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.4 | 90 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.2 | 2.8 | 3.9**
Moment of inertia J	**0.08 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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Data sheet

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

1LE1043-1DA63-4AA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1043-1DA63-4AA4

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)	**108 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**3555 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**33.5 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.2 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**11 | 3.9 | 5**
Moment of inertia J	**0.0603 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**85 | 93 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1043, p. 3/64**

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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)

1LE1043-1DA63-4FA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1043-1DA63-4FA4

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)	**108 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**3555 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**33.5 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.2 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**11 | 3.9 | 5**
Moment of inertia J	**0.0603 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**85 | 93 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1043, p. 3/64**

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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)

1LE1043-1DA63-4KA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1043-1DA63-4KA4

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)	**108 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**3555 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**33.5 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.2 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**11 | 3.9 | 5**
Moment of inertia J	**0.0603 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**85 | 93 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1043, p. 3/64**

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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)

1LE1004-1EA23-4AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE1004-1EA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**139 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**71 Nm**
Rated current	**38 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**94 | 94.4 | 94.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.9 | 2.8 | 4.3**
Moment of inertia J	**0.091 kgm2**
Sound pressure / power LpfA | LWA	**71 | 84 dB(A)**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1004-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1004-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**139 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**71 Nm**
Rated current	**38 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**94 | 94.4 | 94.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.9 | 2.8 | 4.3**
Moment of inertia J	**0.091 kgm2**
Sound pressure / power LpfA | LWA	**71 | 84 dB(A)**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE0102-1EA23-4AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE0102-1EA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**151 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2925 rpm**
Rated torque	**72 Nm**
Rated current	**40.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.6 | 90 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.7 | 3.5**
Moment of inertia J	**0.072 kgm2**

SOURCE OF DATA

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

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

Data sheet

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

1LE0102-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE0102-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**151 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2925 rpm**
Rated torque	**72 Nm**
Rated current	**40.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.6 | 90 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.7 | 3.5**
Moment of inertia J	**0.072 kgm2**

SOURCE OF DATA

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

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

Data sheet

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

1LE0102-1EA24-1AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE0102-1EA24-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**151 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2925 rpm**
Rated torque	**72 Nm**
Rated current	**31 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.6 | 90 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.7 | 3.5**
Moment of inertia J	**0.072 kgm2**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE0102-1EA24-1FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE0102-1EA24-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**151 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2925 rpm**
Rated torque	**72 Nm**
Rated current	**31 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.6 | 90 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.7 | 3.5**
Moment of inertia J	**0.072 kgm2**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1502-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1502-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**150 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**71 Nm**
Rated current	**40.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.6 | 90.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.7 | 2.5 | 3.5**
Moment of inertia J	**0.069 kgm2**
Sound pressure / power LpfA | LWA	**72 | 85 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)

1LE1502-1DA63-4AA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1502-1DA63-4AA4

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)	**125 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**72 Nm**
Rated current	**39 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.2 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.6 | 3.4**
Moment of inertia J	**0.049 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 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)

1LE1502-1DA63-4FA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1502-1DA63-4FA4

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)	**125 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**72 Nm**
Rated current	**39 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.2 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.6 | 3.4**
Moment of inertia J	**0.049 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

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

Tel: 0935 186 4634
info@mehvarniro.com | mehvarniro.com
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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)

1LE1502-1DA63-4KA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1502-1DA63-4KA4

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)	**125 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**72 Nm**
Rated current	**39 A**
Power factor	**0.9**
Efficiency 4/4 | 3/4 | 2/4	**89.9 | 90.2 | 89.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.6 | 3.4**
Moment of inertia J	**0.049 kgm2**
Sound pressure / power LpfA | LWA	**70 | 82 dB(A)**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE0101-1EA23-4AB4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE0101-1EA23-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**152 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**71.6 Nm**
Rated current	**40 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.2**
Moment of inertia J	**0.072 kgm2**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com

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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)

1LE0101-1EA23-4FB4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE0101-1EA23-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**152 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**71.6 Nm**
Rated current	**40 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.2**
Moment of inertia J	**0.072 kgm2**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE0101-1EA24-1AB4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE0101-1EA24-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**152 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**71.6 Nm**
Rated current	**30.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.2**
Moment of inertia J	**0.072 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)

1LE0101-1EA24-1FB4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE0101-1EA24-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**152 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2935 rpm**
Rated torque	**71.6 Nm**
Rated current	**30.5 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.6 | 2.5 | 3.2**
Moment of inertia J	**0.072 kgm2**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1501-1EA23-4AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE1501-1EA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**145 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2940 rpm**
Rated torque	**71 Nm**
Rated current	**40 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.7 | 3.6**
Moment of inertia J	**0.069 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 dB(A)**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1501-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1501-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**145 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2940 rpm**
Rated torque	**71 Nm**
Rated current	**40 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.4 | 2.7 | 3.6**
Moment of inertia J	**0.069 kgm2**
Sound pressure / power LpfA | LWA	**77 | 84 dB(A)**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1501-1DA63-4AA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1501-1DA63-4AA4

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)	**126 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**71 Nm**
Rated current	**39 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.4 | 3.1 | 3.7**
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 1LE1501, p. 2/40 (PDF 158)**

Tel: 0935 186 4634
info@mehvarniro.com | mehvarniro.com
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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)

1LE1501-1DA63-4FA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1501-1DA63-4FA4

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)	**126 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**71 Nm**
Rated current	**39 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.4 | 3.1 | 3.7**
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 1LE1501, p. 2/40 (PDF 158)**

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Tel: 0935 186 4634
info@mehvarniro.com | mehvarniro.com

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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)

1LE1501-1DA63-4KA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1501-1DA63-4KA4

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)	**126 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2955 rpm**
Rated torque	**71 Nm**
Rated current	**39 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**91.3 | 91.8 | 91.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.4 | 3.1 | 3.7**
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 1LE1501, p. 2/40 (PDF 158)**

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1541-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1541-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**145 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**24.5 kW**
Rated speed (60 Hz)	**3550 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**35.5 A**
Power factor (60 Hz)	**0.86**
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)	**8.4 | 3 | 4.1**
Moment of inertia J	**0.069 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**81 | 84 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1541, p. 2/68 (PDF 186)**

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1503-1EA23-4AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE1503-1EA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**160 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**71 Nm**
Rated current	**38.5 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.3 | 3.5**
Moment of inertia J	**0.08 kgm2**
Sound pressure / power LpfA | LWA	**67 | 80 dB(A)**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1503-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1503-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**160 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**71 Nm**
Rated current	**38.5 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 2.3 | 3.5**
Moment of inertia J	**0.08 kgm2**
Sound pressure / power LpfA | LWA	**67 | 80 dB(A)**

SOURCE OF DATA

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

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info@mehvarniro.com | mehvarniro.com
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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)

1LE1503-1DA63-4AA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1503-1DA63-4AA4

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)	**137 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**71 Nm**
Rated current	**37.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 92.8 | 92.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9.9 | 3.5 | 4.4**
Moment of inertia J	**0.0603 kgm2**
Sound pressure / power LpfA | LWA	**76 | 84 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)

1LE1503-1DA63-4FA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1503-1DA63-4FA4

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)	**137 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**71 Nm**
Rated current	**37.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 92.8 | 92.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9.9 | 3.5 | 4.4**
Moment of inertia J	**0.0603 kgm2**
Sound pressure / power LpfA | LWA	**76 | 84 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)

1LE1503-1DA63-4KA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B14 | Article No. 1LE1503-1DA63-4KA4

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)	**137 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**25.3 kW**
Rated speed (50 Hz)	**2945 rpm**
Rated torque	**71 Nm**
Rated current	**37.5 A**
Power factor	**0.91**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 92.8 | 92.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9.9 | 3.5 | 4.4**
Moment of inertia J	**0.0603 kgm2**
Sound pressure / power LpfA | LWA	**76 | 84 dB(A)**

SOURCE OF DATA

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

محور نیرو
Tel: 0935 186 4634
info@mehvarniro.com | mehvarniro.com

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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)

1LE1543-1EA23-4AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE1543-1EA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**160 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**24.5 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**34 A**
Power factor (60 Hz)	**0.89**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.4 | 90 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.2 | 2.8 | 3.9**
Moment of inertia J	**0.08 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)**

محور نیرو
Tel: 0935 186 4634
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Data sheet

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

1LE1543-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1543-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**160 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**24.5 kW**
Rated speed (60 Hz)	**3560 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**34 A**
Power factor (60 Hz)	**0.89**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.4 | 90 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.2 | 2.8 | 3.9**
Moment of inertia J	**0.08 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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Data sheet

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

1LE1543-1DA63-4AA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B3 | Article No. 1LE1543-1DA63-4AA4

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)	**137 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**3555 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**33.5 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.2 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**11 | 3.9 | 5**
Moment of inertia J	**0.0603 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**85 | 93 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1543, p. 3/71**

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Data sheet

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

1LE1543-1DA63-4FA4

22 kW / 3000 rpm

Frame 160 L | 2 poles | IM B5 | Article No. 1LE1543-1DA63-4FA4

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)	**137 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**25.3 kW**
Rated speed (60 Hz)	**3555 rpm**
Rated torque (60 Hz)	**59 Nm**
Rated current (460 V, 60 Hz)	**33.5 A**
Power factor (60 Hz)	**0.9**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 91.2 | 89.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**11 | 3.9 | 5**
Moment of inertia J	**0.0603 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**85 | 93 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1543, p. 3/71**

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Data sheet

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

1LE1504-1EA23-4AA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B3 | Article No. 1LE1504-1EA23-4AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**175 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**71 Nm**
Rated current	**38 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**94 | 94.4 | 94.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.9 | 2.8 | 4.3**
Moment of inertia J	**0.091 kgm2**
Sound pressure / power LpfA | LWA	**71 | 84 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)

1LE1504-1EA23-4FA4

22 kW / 3000 rpm

Frame 180 M | 2 poles | IM B5 | Article No. 1LE1504-1EA23-4FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**180 M**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**400 D / 690 Y V (50 Hz)**
Net weight (IM B3)	**175 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**24.5 kW**
Rated speed (50 Hz)	**2950 rpm**
Rated torque	**71 Nm**
Rated current	**38 A**
Power factor	**0.89**
Efficiency 4/4 | 3/4 | 2/4	**94 | 94.4 | 94.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.9 | 2.8 | 4.3**
Moment of inertia J	**0.091 kgm2**
Sound pressure / power LpfA | LWA	**71 | 84 dB(A)**

SOURCE OF DATA

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

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