Data sheets - Siemens SIMOTICS GP motors

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Data sheet

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

1LE1002-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1002-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**20 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2835 rpm**
Rated torque	**10 Nm**
Rated current	**6.1 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.2 | 82.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 3.2 | 3.5**
Moment of inertia J	**0.0034 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 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)

1LE1002-1AA42-2KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1002-1AA42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**20 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2835 rpm**
Rated torque	**10 Nm**
Rated current	**6.1 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.2 | 82.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 3.2 | 3.5**
Moment of inertia J	**0.0034 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 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 1LE1001 (IE2)

1LE1001-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1001-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**21 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.5 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.3 | 3.3**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 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)

1LE1001-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1001-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**21 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.5 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.3 | 3.3**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 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)

1LE1001-1AA42-2KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1001-1AA42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**21 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.5 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.3 | 3.3**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 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)

1LE1001-0EA62-2AA4

3 kW / 3000 rpm

Frame 90 L | 2 poles | IM B3 | Article No. 1LE1001-0EA62-2AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**15 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2895 rpm**
Rated torque	**9.9 Nm**
Rated current	**6 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.5 | 84.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 3.4 | 3.6**
Moment of inertia J	**0.0031 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1001-0EA62-2FA4

3 kW / 3000 rpm

Frame 90 L | 2 poles | IM B5 | Article No. 1LE1001-0EA62-2FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**15 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2895 rpm**
Rated torque	**9.9 Nm**
Rated current	**6 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.5 | 84.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 3.4 | 3.6**
Moment of inertia J	**0.0031 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1001-0EA62-2KA4

3 kW / 3000 rpm

Frame 90 L | 2 poles | IM B14 | Article No. 1LE1001-0EA62-2KA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**15 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2895 rpm**
Rated torque	**9.9 Nm**
Rated current	**6 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.5 | 84.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.9 | 3.4 | 3.6**
Moment of inertia J	**0.0031 kgm2**
Sound pressure / power LpfA | LWA	**65 | 77 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1003-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1003-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**25 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**87.1 | 87.7 | 87 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9.4 | 4.4 | 4.5**
Moment of inertia J	**0.0041 kgm2**
Sound pressure / power LpfA | LWA	**72 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/13**

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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)

1LE1003-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1003-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**25 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**87.1 | 87.7 | 87 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9.4 | 4.4 | 4.5**
Moment of inertia J	**0.0041 kgm2**
Sound pressure / power LpfA | LWA	**72 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/13**

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Data sheet

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

1LE1003-1AA42-2KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1003-1AA42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**25 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**87.1 | 87.7 | 87 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9.4 | 4.4 | 4.5**
Moment of inertia J	**0.0041 kgm2**
Sound pressure / power LpfA | LWA	**72 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/13**

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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)

1LE1043-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1043-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

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

Rated power (P50 rating)	**3 kW (about 4 HP)**
Rated power (P60 rating)	**3.45 kW**
Rated speed (60 Hz)	**3525 rpm**
Rated torque (60 Hz)	**8.1 Nm**
Rated current (460 V, 60 Hz)	**4.9 A**
Power factor (60 Hz)	**0.87**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 88.7 | 87.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.7 | 3.8 | 5.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 83 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)

1LE1043-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1043-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

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

Rated power (P50 rating)	**3 kW (about 4 HP)**
Rated power (P60 rating)	**3.45 kW**
Rated speed (60 Hz)	**3525 rpm**
Rated torque (60 Hz)	**8.1 Nm**
Rated current (460 V, 60 Hz)	**4.9 A**
Power factor (60 Hz)	**0.87**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 88.7 | 87.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.7 | 3.8 | 5.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 83 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)

1LE1043-1AA42-2KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1043-1AA42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

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

Rated power (P50 rating)	**3 kW (about 4 HP)**
Rated power (P60 rating)	**3.45 kW**
Rated speed (60 Hz)	**3525 rpm**
Rated torque (60 Hz)	**8.1 Nm**
Rated current (460 V, 60 Hz)	**4.9 A**
Power factor (60 Hz)	**0.87**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 88.7 | 87.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.7 | 3.8 | 5.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 83 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)

1LE1004-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1004-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2920 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.1 | 89.8 | 89.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 3.7 | 4.9**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**62 | 74 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)

1LE1004-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1004-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2920 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.1 | 89.8 | 89.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 3.7 | 4.9**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**62 | 74 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)

1LE1004-1AA42-2KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1004-1AA42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1004 / IE4**
Housing	**Aluminum**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2920 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.1 | 89.8 | 89.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 3.7 | 4.9**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**62 | 74 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE0102-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE0102-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**10 Nm**
Rated current	**6.3 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.1 | 79.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 3 | 3.7**
Moment of inertia J	**0.0033 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)

1LE0102-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE0102-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**10 Nm**
Rated current	**6.3 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.1 | 79.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 3 | 3.7**
Moment of inertia J	**0.0033 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)

1LE0102-1AA42-2KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE0102-1AA42-2KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**10 Nm**
Rated current	**6.3 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.1 | 79.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 3 | 3.7**
Moment of inertia J	**0.0033 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)

1LE0102-1AA43-4AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE0102-1AA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 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)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**10 Nm**
Rated current	**6.3 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.1 | 79.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 3 | 3.7**
Moment of inertia J	**0.0033 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)

1LE0102-1AA43-4FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE0102-1AA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 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)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**10 Nm**
Rated current	**6.3 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.1 | 79.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 3 | 3.7**
Moment of inertia J	**0.0033 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)

1LE0102-1AA43-4KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE0102-1AA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 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)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**10 Nm**
Rated current	**6.3 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.1 | 79.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 3 | 3.7**
Moment of inertia J	**0.0033 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)

1LE0102-1AA44-1AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE0102-1AA44-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 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)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**10 Nm**
Rated current	**4.8 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.1 | 79.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 3 | 3.7**
Moment of inertia J	**0.0033 kgm2**

SOURCE OF DATA

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

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

Data sheet

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

1LE0102-1AA44-1FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE0102-1AA44-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 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)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**10 Nm**
Rated current	**4.8 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.1 | 79.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 3 | 3.7**
Moment of inertia J	**0.0033 kgm2**

SOURCE OF DATA

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

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

Data sheet

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

1LE0102-1AA44-1KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE0102-1AA44-1KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**100 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)	**33 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**10 Nm**
Rated current	**4.8 A**
Power factor	**0.85**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 82.1 | 79.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.9 | 3 | 3.7**
Moment of inertia J	**0.0033 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)

1LE1502-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1502-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**31 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2835 rpm**
Rated torque	**10 Nm**
Rated current	**6.1 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.2 | 82.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 3.2 | 3.5**
Moment of inertia J	**0.0034 kgm2**
Sound pressure / power LpfA | LWA	**66 | 80 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)

1LE1502-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1502-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**31 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2835 rpm**
Rated torque	**10 Nm**
Rated current	**6.1 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.2 | 82.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 3.2 | 3.5**
Moment of inertia J	**0.0034 kgm2**
Sound pressure / power LpfA | LWA	**66 | 80 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

1LE1502-1AA42-2KA4

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

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1502-1AA42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**31 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2835 rpm**
Rated torque	**10 Nm**
Rated current	**6.1 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**81.5 | 83.2 | 82.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 3.2 | 3.5**
Moment of inertia J	**0.0034 kgm2**
Sound pressure / power LpfA | LWA	**66 | 80 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)

1LE0101-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE0101-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2885 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.1 | 84.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 4 | 4.5**
Moment of inertia J	**0.0036 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)

1LE0101-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE0101-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2885 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.1 | 84.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 4 | 4.5**
Moment of inertia J	**0.0036 kgm2**

SOURCE OF DATA

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

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محور نیرو

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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)

1LE0101-1AA42-2KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE0101-1AA42-2KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2885 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.1 | 84.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 4 | 4.5**
Moment of inertia J	**0.0036 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)

1LE0101-1AA43-4AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE0101-1AA43-4AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 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)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2885 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.1 | 84.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 4 | 4.5**
Moment of inertia J	**0.0036 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)

1LE0101-1AA43-4FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE0101-1AA43-4FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 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)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2885 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.1 | 84.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 4 | 4.5**
Moment of inertia J	**0.0036 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)

1LE0101-1AA43-4KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE0101-1AA43-4KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 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)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2885 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.1 | 84.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 4 | 4.5**
Moment of inertia J	**0.0036 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)

1LE0101-1AA44-1AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE0101-1AA44-1AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 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)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2885 rpm**
Rated torque	**9.9 Nm**
Rated current	**4.65 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.1 | 84.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 4 | 4.5**
Moment of inertia J	**0.0036 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)

1LE0101-1AA44-1FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE0101-1AA44-1FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 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)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2885 rpm**
Rated torque	**9.9 Nm**
Rated current	**4.65 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.1 | 84.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 4 | 4.5**
Moment of inertia J	**0.0036 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0101-1AA44-1KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE0101-1AA44-1KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**100 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)	**34 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2885 rpm**
Rated torque	**9.9 Nm**
Rated current	**4.65 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.1 | 84.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.5 | 4 | 4.5**
Moment of inertia J	**0.0036 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE1501-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1501-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**32 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.5 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.3 | 3.3**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1501-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1501-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**32 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.5 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.3 | 3.3**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1501-1AA42-2KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1501-1AA42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**32 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2905 rpm**
Rated torque	**9.9 Nm**
Rated current	**6.1 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**84.6 | 85.5 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.3 | 3.3**
Moment of inertia J	**0.0044 kgm2**
Sound pressure / power LpfA | LWA	**67 | 79 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)

1LE1503-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1503-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**87.1 | 87.7 | 87 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9.4 | 4.4 | 4.5**
Moment of inertia J	**0.0041 kgm2**
Sound pressure / power LpfA | LWA	**72 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/19**

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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)

1LE1503-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1503-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**37 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2910 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.87**
Efficiency 4/4 | 3/4 | 2/4	**87.1 | 87.7 | 87 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9.4 | 4.4 | 4.5**
Moment of inertia J	**0.0041 kgm2**
Sound pressure / power LpfA | LWA	**72 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/19**

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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)

1LE1543-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1543-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**36 kg**

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

Rated power (P50 rating)	**3 kW (about 4 HP)**
Rated power (P60 rating)	**3.45 kW**
Rated speed (60 Hz)	**3525 rpm**
Rated torque (60 Hz)	**8.1 Nm**
Rated current (460 V, 60 Hz)	**4.9 A**
Power factor (60 Hz)	**0.87**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 88.7 | 87.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.7 | 3.8 | 5.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 83 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)

1LE1543-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1543-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**36 kg**

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

Rated power (P50 rating)	**3 kW (about 4 HP)**
Rated power (P60 rating)	**3.45 kW**
Rated speed (60 Hz)	**3525 rpm**
Rated torque (60 Hz)	**8.1 Nm**
Rated current (460 V, 60 Hz)	**4.9 A**
Power factor (60 Hz)	**0.87**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**88.5 | 88.7 | 87.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9.7 | 3.8 | 5.5**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 83 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)

1LE1504-1AA42-2AA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B3 | Article No. 1LE1504-1AA42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**38 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2920 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.1 | 89.8 | 89.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 3.7 | 4.9**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**62 | 74 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)

1LE1504-1AA42-2FA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B5 | Article No. 1LE1504-1AA42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**38 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2920 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.1 | 89.8 | 89.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 3.7 | 4.9**
Moment of inertia J	**0.0054 kgm2**
Sound pressure / power LpfA | LWA	**62 | 74 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)

1LE1504-1AA42-2KA4

3 kW / 3000 rpm

Frame 100 L | 2 poles | IM B14 | Article No. 1LE1504-1AA42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**100 L**
Poles	**2**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**38 kg**

ELECTRICAL DATA

Rated power 50 Hz	**3 kW (about 4 HP)**
Rated power 60 Hz	**3.45 kW**
Rated speed (50 Hz)	**2920 rpm**
Rated torque	**9.8 Nm**
Rated current	**5.7 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**89.1 | 89.8 | 89.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**9 | 3.7 | 4.9**
Moment of inertia J	**0.0054 kgm2**
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