Data sheets - Siemens SIMOTICS GP motors

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Data sheet

SIMOTICS GP low-voltage motor - aluminum series 1LA7

1LA7083-6AA10

0.55 kW / 1000 rpm

Frame size 080 M | Article No. 1LA7083-6AA10 | mounting IM B3

GENERAL DATA

Motor series	**1LA7 (aluminum)**
Article No.	**1LA7083-6AA10**
Frame size	**080 M**
Number of poles	**6**
Housing material	**Aluminum**
Degree of protection	**IP55**
Cooling	**Self-ventilated (IC 411)**
Insulation / utilization	**Thermal class 155 (F) / utilized to 130 (B)**
Duty type	**S1 (continuous duty)**
Rotor	**Squirrel-cage**
Efficiency class (IEC 60034-30)	**not classified (below IE1 range)**
Voltage / connection	**230 V Δ / 400 V Y (50 Hz), 460 V Y (60 Hz)**
Type of construction	**IM B3 (also B6, B7, B8, V5, V6)**
Net weight (IM B3)	**9.8 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**0.55 kW (0.74 HP)**
Rated speed, 50 Hz	**910 rpm (synchronous 1000 rpm)**
Rated torque	**5.8 Nm**
Rated current at 400 V	**1.59 A**
No-load current	**1.45 A**
Power factor cos φ	**0.74**
Efficiency at 4/4 | 3/4 | 2/4 load	**67.5 | 67.0 | 63.5 %**
Locked-rotor current ratio (I_LR/I_N)	**3.4**
Locked-rotor torque ratio (T_LR/T_N)	**2.1**
Breakdown torque ratio (T_B/T_N)	**2.2**
Moment of inertia J	**0.0017 kgm²**
Torque class	**16**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**0.63 kW**
Synchronous speed at 60 Hz	**1200 rpm**
Speed / efficiency / current at 60 Hz	**not listed in the catalog (DT Configurator)**

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Source: Siemens Distribution brochure (07/2014), Chapter 2, p. 18. Dimensions: see the same catalog.
Compiled from the manufacturer's catalog data for reference. It is not an official Siemens document - verify against the current Siemens data sheet before ordering.
Data at rated power, 400 V / 50 Hz, ambient 40 °C, altitude up to 1000 m.

Data sheet

SIMOTICS GP low-voltage motor - aluminum series 1LA7

1LA7083-6AA11

0.55 kW / 1000 rpm

Frame size 080 M | Article No. 1LA7083-6AA11 | mounting IM B5

GENERAL DATA

Motor series	**1LA7 (aluminum)**
Article No.	**1LA7083-6AA11**
Frame size	**080 M**
Number of poles	**6**
Housing material	**Aluminum**
Degree of protection	**IP55**
Cooling	**Self-ventilated (IC 411)**
Insulation / utilization	**Thermal class 155 (F) / utilized to 130 (B)**
Duty type	**S1 (continuous duty)**
Rotor	**Squirrel-cage**
Efficiency class (IEC 60034-30)	**not classified (below IE1 range)**
Voltage / connection	**230 V Δ / 400 V Y (50 Hz), 460 V Y (60 Hz)**
Type of construction	**IM B5 (also V1, V3)**
Net weight (IM B3)	**9.8 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**0.55 kW (0.74 HP)**
Rated speed, 50 Hz	**910 rpm (synchronous 1000 rpm)**
Rated torque	**5.8 Nm**
Rated current at 400 V	**1.59 A**
No-load current	**1.45 A**
Power factor cos φ	**0.74**
Efficiency at 4/4 | 3/4 | 2/4 load	**67.5 | 67.0 | 63.5 %**
Locked-rotor current ratio (I_LR/I_N)	**3.4**
Locked-rotor torque ratio (T_LR/T_N)	**2.1**
Breakdown torque ratio (T_B/T_N)	**2.2**
Moment of inertia J	**0.0017 kgm²**
Torque class	**16**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**0.63 kW**
Synchronous speed at 60 Hz	**1200 rpm**
Speed / efficiency / current at 60 Hz	**not listed in the catalog (DT Configurator)**

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Data at rated power, 400 V / 50 Hz, ambient 40 °C, altitude up to 1000 m.

Data sheet

1LA7083-6AA12

SIMOTICS GP low-voltage motor - aluminum series 1LA7

0.55 kW / 1000 rpm

Frame size 080 M | Article No. 1LA7083-6AA12 | mounting IM B14

GENERAL DATA

Motor series	**1LA7 (aluminum)**
Article No.	**1LA7083-6AA12**
Frame size	**080 M**
Number of poles	**6**
Housing material	**Aluminum**
Degree of protection	**IP55**
Cooling	**Self-ventilated (IC 411)**
Insulation / utilization	**Thermal class 155 (F) / utilized to 130 (B)**
Duty type	**S1 (continuous duty)**
Rotor	**Squirrel-cage**
Efficiency class (IEC 60034-30)	**not classified (below IE1 range)**
Voltage / connection	**230 V Δ / 400 V Y (50 Hz), 460 V Y (60 Hz)**
Type of construction	**IM B14 (also V18, V19)**
Net weight (IM B3)	**9.8 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**0.55 kW (0.74 HP)**
Rated speed, 50 Hz	**910 rpm (synchronous 1000 rpm)**
Rated torque	**5.8 Nm**
Rated current at 400 V	**1.59 A**
No-load current	**1.45 A**
Power factor cos φ	**0.74**
Efficiency at 4/4 | 3/4 | 2/4 load	**67.5 | 67.0 | 63.5 %**
Locked-rotor current ratio (I_LR/I_N)	**3.4**
Locked-rotor torque ratio (T_LR/T_N)	**2.1**
Breakdown torque ratio (T_B/T_N)	**2.2**
Moment of inertia J	**0.0017 kgm²**
Torque class	**16**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**0.63 kW**
Synchronous speed at 60 Hz	**1200 rpm**
Speed / efficiency / current at 60 Hz	**not listed in the catalog (DT Configurator)**

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Data at rated power, 400 V / 50 Hz, ambient 40 °C, altitude up to 1000 m.

Data sheet

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

1LE1002-0DC32-2AA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B3 | Article No. 1LE1002-0DC32-2AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**80 M**
Poles	**6**
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)	**12 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**900 rpm**
Rated torque	**5.8 Nm**
Rated current	**1.68 A**
Power factor	**0.72**
Efficiency 4/4 | 3/4 | 2/4	**65.8 | 66.6 | 62.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**2.7 | 1.7 | 1.9**
Moment of inertia J	**0.0017 kgm2**
Sound pressure / power LpfA | LWA	**56 | 64 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/46 (PDF 164)**

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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)

1LE1002-0DC32-2FA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B5 | Article No. 1LE1002-0DC32-2FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**80 M**
Poles	**6**
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)	**12 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**900 rpm**
Rated torque	**5.8 Nm**
Rated current	**1.68 A**
Power factor	**0.72**
Efficiency 4/4 | 3/4 | 2/4	**65.8 | 66.6 | 62.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**2.7 | 1.7 | 1.9**
Moment of inertia J	**0.0017 kgm2**
Sound pressure / power LpfA | LWA	**56 | 64 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/46 (PDF 164)**

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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)

1LE1002-0DC32-2KA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B14 | Article No. 1LE1002-0DC32-2KA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**80 M**
Poles	**6**
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)	**12 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**900 rpm**
Rated torque	**5.8 Nm**
Rated current	**1.68 A**
Power factor	**0.72**
Efficiency 4/4 | 3/4 | 2/4	**65.8 | 66.6 | 62.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**2.7 | 1.7 | 1.9**
Moment of inertia J	**0.0017 kgm2**
Sound pressure / power LpfA | LWA	**56 | 64 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/46 (PDF 164)**

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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)

1LE1001-0DC32-2AA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B3 | Article No. 1LE1001-0DC32-2AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**80 M**
Poles	**6**
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)	**12 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**935 rpm**
Rated torque	**5.6 Nm**
Rated current	**1.65 A**
Power factor	**0.66**
Efficiency 4/4 | 3/4 | 2/4	**73.1 | 73.8 | 70.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.4 | 2.5 | 2.9**
Moment of inertia J	**0.0025 kgm2**
Sound pressure / power LpfA | LWA	**42 | 53 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/28 (PDF 146)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 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 1LE1001 (IE2)

1LE1001-0DC32-2FA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B5 | Article No. 1LE1001-0DC32-2FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**80 M**
Poles	**6**
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)	**12 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**935 rpm**
Rated torque	**5.6 Nm**
Rated current	**1.65 A**
Power factor	**0.66**
Efficiency 4/4 | 3/4 | 2/4	**73.1 | 73.8 | 70.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.4 | 2.5 | 2.9**
Moment of inertia J	**0.0025 kgm2**
Sound pressure / power LpfA | LWA	**42 | 53 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/28 (PDF 146)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 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 1LE1001 (IE2)

1LE1001-0DC32-2KA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B14 | Article No. 1LE1001-0DC32-2KA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**80 M**
Poles	**6**
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)	**12 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**935 rpm**
Rated torque	**5.6 Nm**
Rated current	**1.65 A**
Power factor	**0.66**
Efficiency 4/4 | 3/4 | 2/4	**73.1 | 73.8 | 70.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.4 | 2.5 | 2.9**
Moment of inertia J	**0.0025 kgm2**
Sound pressure / power LpfA | LWA	**42 | 53 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/28 (PDF 146)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 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 1LE1003 (IE3)

1LE1003-0DC32-2AA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B3 | Article No. 1LE1003-0DC32-2AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**80 M**
Poles	**6**
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)	**13 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**935 rpm**
Rated torque	**5.6 Nm**
Rated current	**1.53 A**
Power factor	**0.67**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77 | 73.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.5 | 2.8**
Moment of inertia J	**0.0031 kgm2**
Sound pressure / power LpfA | LWA	**42 | 53 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/15**

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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)

1LE1003-0DC32-2FA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B5 | Article No. 1LE1003-0DC32-2FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**80 M**
Poles	**6**
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)	**13 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**935 rpm**
Rated torque	**5.6 Nm**
Rated current	**1.53 A**
Power factor	**0.67**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77 | 73.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.5 | 2.8**
Moment of inertia J	**0.0031 kgm2**
Sound pressure / power LpfA | LWA	**42 | 53 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/15**

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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)

1LE1003-0DC32-2KA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B14 | Article No. 1LE1003-0DC32-2KA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**80 M**
Poles	**6**
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)	**13 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**935 rpm**
Rated torque	**5.6 Nm**
Rated current	**1.53 A**
Power factor	**0.67**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77 | 73.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.5 | 2.8**
Moment of inertia J	**0.0031 kgm2**
Sound pressure / power LpfA | LWA	**42 | 53 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/15**

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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

1LE0102-0DC32-2AA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B3 | Article No. 1LE0102-0DC32-2AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
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)	**18 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**910 rpm**
Rated torque	**5.8 Nm**
Rated current	**1.6 A**
Power factor	**0.74**
Efficiency 4/4 | 3/4 | 2/4	**67.5 | 68.7 | 65.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0024 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 22 (PDF 22)**

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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

1LE0102-0DC32-2FA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B5 | Article No. 1LE0102-0DC32-2FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
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)	**18 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**910 rpm**
Rated torque	**5.8 Nm**
Rated current	**1.6 A**
Power factor	**0.74**
Efficiency 4/4 | 3/4 | 2/4	**67.5 | 68.7 | 65.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0024 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 22 (PDF 22)**

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info@mehvarniro.com | mehvarniro.com
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 1LE0102

1LE0102-0DC32-2KA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B14 | Article No. 1LE0102-0DC32-2KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
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)	**18 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**910 rpm**
Rated torque	**5.8 Nm**
Rated current	**1.6 A**
Power factor	**0.74**
Efficiency 4/4 | 3/4 | 2/4	**67.5 | 68.7 | 65.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0024 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 22 (PDF 22)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102

1LE0102-0DC34-1AA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B3 | Article No. 1LE0102-0DC34-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**18 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**910 rpm**
Rated torque	**5.8 Nm**
Rated current	**1.21 A**
Power factor	**0.74**
Efficiency 4/4 | 3/4 | 2/4	**67.5 | 68.7 | 65.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0024 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 27 (PDF 27)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102

1LE0102-0DC34-1FA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B5 | Article No. 1LE0102-0DC34-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**18 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**910 rpm**
Rated torque	**5.8 Nm**
Rated current	**1.21 A**
Power factor	**0.74**
Efficiency 4/4 | 3/4 | 2/4	**67.5 | 68.7 | 65.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0024 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 27 (PDF 27)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0102

1LE0102-0DC34-1KA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B14 | Article No. 1LE0102-0DC34-1KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**18 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**910 rpm**
Rated torque	**5.8 Nm**
Rated current	**1.21 A**
Power factor	**0.74**
Efficiency 4/4 | 3/4 | 2/4	**67.5 | 68.7 | 65.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0024 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 27 (PDF 27)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101

1LE0101-0DC32-2AA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B3 | Article No. 1LE0101-0DC32-2AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
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)	**18.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**895 rpm**
Rated torque	**5.9 Nm**
Rated current	**1.48 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**71 | 72 | 68.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0028 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 25 (PDF 25)**

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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

1LE0101-0DC32-2FA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B5 | Article No. 1LE0101-0DC32-2FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
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)	**18.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**895 rpm**
Rated torque	**5.9 Nm**
Rated current	**1.48 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**71 | 72 | 68.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0028 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 25 (PDF 25)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101

1LE0101-0DC32-2KA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B14 | Article No. 1LE0101-0DC32-2KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
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)	**18.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**895 rpm**
Rated torque	**5.9 Nm**
Rated current	**1.48 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**71 | 72 | 68.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0028 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 25 (PDF 25)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101

1LE0101-0DC34-1AA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B3 | Article No. 1LE0101-0DC34-1AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**18.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**895 rpm**
Rated torque	**5.9 Nm**
Rated current	**1.12 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**71 | 72 | 68.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0028 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 29 (PDF 29)**

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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

1LE0101-0DC34-1FA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B5 | Article No. 1LE0101-0DC34-1FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**18.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**895 rpm**
Rated torque	**5.9 Nm**
Rated current	**1.12 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**71 | 72 | 68.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0028 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 29 (PDF 29)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101

1LE0101-0DC34-1KA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B14 | Article No. 1LE0101-0DC34-1KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / no IE class in catalog**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**18.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**895 rpm**
Rated torque	**5.9 Nm**
Rated current	**1.12 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**71 | 72 | 68.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.8 | 2.1 | 2.4**
Moment of inertia J	**0.0028 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 29 (PDF 29)**

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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)

1LE1501-0DC32-2AA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B3 | Article No. 1LE1501-0DC32-2AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
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)	**19 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**935 rpm**
Rated torque	**5.6 Nm**
Rated current	**1.65 A**
Power factor	**0.66**
Efficiency 4/4 | 3/4 | 2/4	**73.1 | 73.8 | 70.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.4 | 2.5 | 2.9**
Moment of inertia J	**0.0025 kgm2**
Sound pressure / power LpfA | LWA	**42 | 53 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/34 (PDF 152)**

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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)

1LE1501-0DC32-2FA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B5 | Article No. 1LE1501-0DC32-2FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
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)	**19 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**0.63 kW**
Rated speed (50 Hz)	**935 rpm**
Rated torque	**5.6 Nm**
Rated current	**1.65 A**
Power factor	**0.66**
Efficiency 4/4 | 3/4 | 2/4	**73.1 | 73.8 | 70.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.4 | 2.5 | 2.9**
Moment of inertia J	**0.0025 kgm2**
Sound pressure / power LpfA | LWA	**42 | 53 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/34 (PDF 152)**

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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)

1LE1503-0DC32-2AA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B3 | Article No. 1LE1503-0DC32-2AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
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)	**22 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**935 rpm**
Rated torque	**5.6 Nm**
Rated current	**1.53 A**
Power factor	**0.67**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77 | 73.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.5 | 2.8**
Moment of inertia J	**0.0031 kgm2**
Sound pressure / power LpfA | LWA	**42 | 53 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/21**

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

Data sheet

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

1LE1503-0DC32-2FA4

0.55 kW / 1000 rpm

Frame 80 M | 6 poles | IM B5 | Article No. 1LE1503-0DC32-2FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**80 M**
Poles	**6**
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)	**22 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.55 kW (about 0.74 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**935 rpm**
Rated torque	**5.6 Nm**
Rated current	**1.53 A**
Power factor	**0.67**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77 | 73.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.5 | 2.8**
Moment of inertia J	**0.0031 kgm2**
Sound pressure / power LpfA | LWA	**42 | 53 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1503, p. 3/21**

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