Data sheets - Siemens SIMOTICS GP motors

0.75 kW / 3000 rpm - 38 article numbers in this file

Article No.	Page
1LA7080-2AA10	2
1LA7080-2AA11	3
1LA7080-2AA12	4
1LE1002-0DA22-2AA4	5
1LE1002-0DA22-2FA4	6
1LE1002-0DA22-2KA4	7
1LE1002-0CA62-2AA4	8
1LE1002-0CA62-2FA4	9
1LE1002-0CA62-2KA4	10
1LE1001-0DA22-2AA4	11
1LE1001-0DA22-2FA4	12
1LE1001-0DA22-2KA4	13
1LE1041-0DA22-2FA4	14
1LE1041-0DA22-2KA4	15
1LE1003-0DA22-2AA4	16
1LE1003-0DA22-2FA4	17
1LE1003-0DA22-2KA4	18
1LE1043-0DA22-2AA4	19
1LE1043-0DA22-2FA4	20
1LE1043-0DA22-2KA4	21
1LE0102-0DA22-2AA4	22
1LE0102-0DA22-2FA4	23
1LE0102-0DA22-2KA4	24
1LE0102-0DA24-1AA4	25
1LE0102-0DA24-1FA4	26
1LE0102-0DA24-1KA4	27
1LE0101-0DA22-2AA4	28
1LE0101-0DA22-2FA4	29
1LE0101-0DA22-2KA4	30
1LE0101-0DA24-1AA4	31
1LE0101-0DA24-1FA4	32
1LE0101-0DA24-1KA4	33
1LE1501-0DA22-2AA4	34
1LE1501-0DA22-2FA4	35
1LE1503-0DA22-2AA4	36
1LE1503-0DA22-2FA4	37
1LE1543-0DA22-2AA4	38
1LE1543-0DA22-2FA4	39

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Data sheet

1LA7080-2AA10

SIMOTICS GP low-voltage motor - aluminum series 1LA7 (IE1)

0.75 kW / 3000 rpm

Frame size 080 M | Article No. 1LA7080-2AA10 | mounting IM B3

GENERAL DATA

Motor series	**1LA7 (aluminum)**
Article No.	**1LA7080-2AA10**
Frame size	**080 M**
Number of poles	**2**
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)	**IE1**
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 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**0.75 kW (1 HP)**
Rated speed, 50 Hz	**2855 rpm (synchronous 3000 rpm)**
Rated torque	**2.5 Nm**
Rated current at 400 V	**1.75 A**
No-load current	**1.34 A**
Power factor cos φ	**0.86**
Efficiency at 4/4 | 3/4 | 2/4 load	**72.1 | 72.1 | 68.1 %**
Locked-rotor current ratio (I_LR/I_N)	**5.6**
Locked-rotor torque ratio (T_LR/T_N)	**2.6**
Breakdown torque ratio (T_B/T_N)	**2.4**
Moment of inertia J	**0.00079 kgm²**
Torque class	**16**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**0.86 kW**
Synchronous speed at 60 Hz	**3600 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

1LA7080-2AA11

SIMOTICS GP low-voltage motor - aluminum series 1LA7 (IE1)

0.75 kW / 3000 rpm

Frame size 080 M | Article No. 1LA7080-2AA11 | mounting IM B5

GENERAL DATA

Motor series	**1LA7 (aluminum)**
Article No.	**1LA7080-2AA11**
Frame size	**080 M**
Number of poles	**2**
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)	**IE1**
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 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**0.75 kW (1 HP)**
Rated speed, 50 Hz	**2855 rpm (synchronous 3000 rpm)**
Rated torque	**2.5 Nm**
Rated current at 400 V	**1.75 A**
No-load current	**1.34 A**
Power factor cos φ	**0.86**
Efficiency at 4/4 | 3/4 | 2/4 load	**72.1 | 72.1 | 68.1 %**
Locked-rotor current ratio (I_LR/I_N)	**5.6**
Locked-rotor torque ratio (T_LR/T_N)	**2.6**
Breakdown torque ratio (T_B/T_N)	**2.4**
Moment of inertia J	**0.00079 kgm²**
Torque class	**16**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**0.86 kW**
Synchronous speed at 60 Hz	**3600 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

1LA7080-2AA12

SIMOTICS GP low-voltage motor - aluminum series 1LA7 (IE1)

0.75 kW / 3000 rpm

Frame size 080 M | Article No. 1LA7080-2AA12 | mounting IM B14

GENERAL DATA

Motor series	**1LA7 (aluminum)**
Article No.	**1LA7080-2AA12**
Frame size	**080 M**
Number of poles	**2**
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)	**IE1**
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 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**0.75 kW (1 HP)**
Rated speed, 50 Hz	**2855 rpm (synchronous 3000 rpm)**
Rated torque	**2.5 Nm**
Rated current at 400 V	**1.75 A**
No-load current	**1.34 A**
Power factor cos φ	**0.86**
Efficiency at 4/4 | 3/4 | 2/4 load	**72.1 | 72.1 | 68.1 %**
Locked-rotor current ratio (I_LR/I_N)	**5.6**
Locked-rotor torque ratio (T_LR/T_N)	**2.6**
Breakdown torque ratio (T_B/T_N)	**2.4**
Moment of inertia J	**0.00079 kgm²**
Torque class	**16**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**0.86 kW**
Synchronous speed at 60 Hz	**3600 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)

1LE1002-0DA22-2AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE1002-0DA22-2AA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2835 rpm**
Rated torque	**2.5 Nm**
Rated current	**1.75 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 72.6 | 69.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.2 | 2.1 | 2.3**
Moment of inertia J	**0.00079 kgm2**
Sound pressure / power LpfA | LWA	**64 | 71 dB(A)**

SOURCE OF DATA

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

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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)

1LE1002-0DA22-2FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE1002-0DA22-2FA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2835 rpm**
Rated torque	**2.5 Nm**
Rated current	**1.75 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 72.6 | 69.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.2 | 2.1 | 2.3**
Moment of inertia J	**0.00079 kgm2**
Sound pressure / power LpfA | LWA	**64 | 71 dB(A)**

SOURCE OF DATA

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

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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)

1LE1002-0DA22-2KA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B14 | Article No. 1LE1002-0DA22-2KA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2835 rpm**
Rated torque	**2.5 Nm**
Rated current	**1.75 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 72.6 | 69.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.2 | 2.1 | 2.3**
Moment of inertia J	**0.00079 kgm2**
Sound pressure / power LpfA | LWA	**64 | 71 dB(A)**

SOURCE OF DATA

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

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

0.75 kW / 3000 rpm

Frame 71 M | 2 poles | IM B3 | Article No. 1LE1002-0CA62-2AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**71 M**
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)	**5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2780 rpm**
Rated torque	**2.6 Nm**
Rated current (400 V)	**1.81 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 72.5 | 70.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.2 | 2.2**
Moment of inertia J	**0.00051 kgm2**
Sound pressure / power LpfA | LWA	**65 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (12/2021), table 1LE1002, p. 3/53**

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

0.75 kW / 3000 rpm

Frame 71 M | 2 poles | IM B5 | Article No. 1LE1002-0CA62-2FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**71 M**
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)	**5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2780 rpm**
Rated torque	**2.6 Nm**
Rated current (400 V)	**1.81 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 72.5 | 70.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.2 | 2.2**
Moment of inertia J	**0.00051 kgm2**
Sound pressure / power LpfA | LWA	**65 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (12/2021), table 1LE1002, p. 3/53**

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

0.75 kW / 3000 rpm

Frame 71 M | 2 poles | IM B14 | Article No. 1LE1002-0CA62-2KA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**71 M**
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)	**5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2780 rpm**
Rated torque	**2.6 Nm**
Rated current (400 V)	**1.81 A**
Power factor	**0.83**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 72.5 | 70.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.2 | 2.2**
Moment of inertia J	**0.00051 kgm2**
Sound pressure / power LpfA | LWA	**65 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (12/2021), table 1LE1002, p. 3/53**

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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)

1LE1001-0DA22-2AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE1001-0DA22-2AA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2805 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.67 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 80 | 80.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.9 | 1.9 | 2.3**
Moment of inertia J	**0.0008 kgm2**
Sound pressure / power LpfA | LWA	**60 | 71 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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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

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

1LE1001-0DA22-2FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE1001-0DA22-2FA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2805 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.67 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 80 | 80.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.9 | 1.9 | 2.3**
Moment of inertia J	**0.0008 kgm2**
Sound pressure / power LpfA | LWA	**60 | 71 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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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

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

1LE1001-0DA22-2KA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B14 | Article No. 1LE1001-0DA22-2KA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2805 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.67 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 80 | 80.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.9 | 1.9 | 2.3**
Moment of inertia J	**0.0008 kgm2**
Sound pressure / power LpfA | LWA	**60 | 71 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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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

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

1LE1041-0DA22-2FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE1041-0DA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**80 M**
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)	**9 kg**

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

Rated power (P50 rating)	**0.75 kW (about 1 HP)**
Rated power (P60 rating)	**0.86 kW**
Rated speed (60 Hz)	**3445 rpm**
Rated torque (60 Hz)	**2.1 Nm**
Rated current (460 V, 60 Hz)	**1.5 A**
Power factor (60 Hz)	**0.83**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**75.5 | 76.2 | 74.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**6 | 2.1 | 3**
Moment of inertia J	**0.0008 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**64 | 75 dB(A)**

SOURCE OF DATA

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

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

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

1LE1041-0DA22-2KA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B14 | Article No. 1LE1041-0DA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**80 M**
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)	**9 kg**

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

Rated power (P50 rating)	**0.75 kW (about 1 HP)**
Rated power (P60 rating)	**0.86 kW**
Rated speed (60 Hz)	**3445 rpm**
Rated torque (60 Hz)	**2.1 Nm**
Rated current (460 V, 60 Hz)	**1.5 A**
Power factor (60 Hz)	**0.83**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**75.5 | 76.2 | 74.8 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**6 | 2.1 | 3**
Moment of inertia J	**0.0008 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**64 | 75 dB(A)**

SOURCE OF DATA

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

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

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

1LE1003-0DA22-2AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE1003-0DA22-2AA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**2.5 Nm**
Rated current	**1.56 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**80.7 | 82.2 | 81.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.2 | 2.6 | 3**
Moment of inertia J	**0.0011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 71 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)

1LE1003-0DA22-2FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE1003-0DA22-2FA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**2.5 Nm**
Rated current	**1.56 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**80.7 | 82.2 | 81.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.2 | 2.6 | 3**
Moment of inertia J	**0.0011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 71 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)

1LE1003-0DA22-2KA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B14 | Article No. 1LE1003-0DA22-2KA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**2.5 Nm**
Rated current	**1.56 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**80.7 | 82.2 | 81.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.2 | 2.6 | 3**
Moment of inertia J	**0.0011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 71 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1043-0DA22-2AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE1043-0DA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**80 M**
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)	**11 kg**

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

Rated power (P50 rating)	**0.75 kW (about 1 HP)**
Rated power (P60 rating)	**0.86 kW**
Rated speed (60 Hz)	**3480 rpm**
Rated torque (60 Hz)	**2.1 Nm**
Rated current (460 V, 60 Hz)	**1.45 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**77 | 77.2 | 75.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.1 | 3 | 3.6**
Moment of inertia J	**0.0011 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**64 | 75 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1043-0DA22-2FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE1043-0DA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**80 M**
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)	**11 kg**

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

Rated power (P50 rating)	**0.75 kW (about 1 HP)**
Rated power (P60 rating)	**0.86 kW**
Rated speed (60 Hz)	**3480 rpm**
Rated torque (60 Hz)	**2.1 Nm**
Rated current (460 V, 60 Hz)	**1.45 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**77 | 77.2 | 75.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.1 | 3 | 3.6**
Moment of inertia J	**0.0011 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**64 | 75 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1043-0DA22-2KA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B14 | Article No. 1LE1043-0DA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**80 M**
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)	**11 kg**

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

Rated power (P50 rating)	**0.75 kW (about 1 HP)**
Rated power (P60 rating)	**0.86 kW**
Rated speed (60 Hz)	**3480 rpm**
Rated torque (60 Hz)	**2.1 Nm**
Rated current (460 V, 60 Hz)	**1.45 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**77 | 77.2 | 75.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.1 | 3 | 3.6**
Moment of inertia J	**0.0011 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**64 | 75 dB(A)**

SOURCE OF DATA

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

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APAC Line: the catalog lists operating values at 60 Hz only; 50 Hz speed/efficiency are not listed (see Siemens DT Configurator).

Data sheet

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

1LE0102-0DA22-2AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE0102-0DA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**80 M**
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	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2800 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.76 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 73 | 71.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.1 | 2.3 | 2.7**
Moment of inertia J	**0.0008 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)

1LE0102-0DA22-2FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE0102-0DA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**80 M**
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	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2800 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.76 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 73 | 71.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.1 | 2.3 | 2.7**
Moment of inertia J	**0.0008 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)

1LE0102-0DA22-2KA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B14 | Article No. 1LE0102-0DA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**80 M**
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	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2800 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.76 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 73 | 71.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.1 | 2.3 | 2.7**
Moment of inertia J	**0.0008 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)

1LE0102-0DA24-1AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE0102-0DA24-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**80 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)	**15 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2800 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.33 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 73 | 71.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.1 | 2.3 | 2.7**
Moment of inertia J	**0.0008 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)

1LE0102-0DA24-1FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE0102-0DA24-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**80 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)	**15 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2800 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.33 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 73 | 71.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.1 | 2.3 | 2.7**
Moment of inertia J	**0.0008 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)

1LE0102-0DA24-1KA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B14 | Article No. 1LE0102-0DA24-1KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**80 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)	**15 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2800 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.33 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**72.1 | 73 | 71.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.1 | 2.3 | 2.7**
Moment of inertia J	**0.0008 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 1LE0101 (IE2)

1LE0101-0DA22-2AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE0101-0DA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**80 M**
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)	**15.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2795 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.67 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 78.5 | 78.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2.4 | 2.4**
Moment of inertia J	**0.0008 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)

1LE0101-0DA22-2FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE0101-0DA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**80 M**
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)	**15.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2795 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.67 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 78.5 | 78.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2.4 | 2.4**
Moment of inertia J	**0.0008 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)

1LE0101-0DA22-2KA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B14 | Article No. 1LE0101-0DA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**80 M**
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)	**15.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2795 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.67 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 78.5 | 78.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2.4 | 2.4**
Moment of inertia J	**0.0008 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)

1LE0101-0DA24-1AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE0101-0DA24-1AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**80 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)	**15.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2795 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.27 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 78.5 | 78.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2.4 | 2.4**
Moment of inertia J	**0.0008 kgm2**

SOURCE OF DATA

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

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Compiled from manufacturer catalog data for reference. NOT an official Siemens document - verify against the current Siemens data sheet before ordering.
60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

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

1LE0101-0DA24-1FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE0101-0DA24-1FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**80 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)	**15.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2795 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.27 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 78.5 | 78.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2.4 | 2.4**
Moment of inertia J	**0.0008 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)

1LE0101-0DA24-1KA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B14 | Article No. 1LE0101-0DA24-1KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**80 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)	**15.5 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2795 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.27 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 78.5 | 78.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2.4 | 2.4**
Moment of inertia J	**0.0008 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)

1LE1501-0DA22-2AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE1501-0DA22-2AA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2805 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.67 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 80 | 80.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.9 | 1.9 | 2.3**
Moment of inertia J	**0.0008 kgm2**
Sound pressure / power LpfA | LWA	**60 | 71 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)

1LE1501-0DA22-2FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE1501-0DA22-2FA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2805 rpm**
Rated torque	**2.6 Nm**
Rated current	**1.67 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**77.4 | 80 | 80.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.9 | 1.9 | 2.3**
Moment of inertia J	**0.0008 kgm2**
Sound pressure / power LpfA | LWA	**60 | 71 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 1LE1503 (IE3)

1LE1503-0DA22-2AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE1503-0DA22-2AA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**2.5 Nm**
Rated current	**1.56 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**80.7 | 82.2 | 81.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.2 | 2.6 | 3**
Moment of inertia J	**0.0011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 71 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1503-0DA22-2FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE1503-0DA22-2FA4

GENERAL DATA

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

ELECTRICAL DATA

Rated power 50 Hz	**0.75 kW (about 1 HP)**
Rated power 60 Hz	**0.86 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**2.5 Nm**
Rated current	**1.56 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**80.7 | 82.2 | 81.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.2 | 2.6 | 3**
Moment of inertia J	**0.0011 kgm2**
Sound pressure / power LpfA | LWA	**60 | 71 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1543-0DA22-2AA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B3 | Article No. 1LE1543-0DA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**80 M**
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)	**18 kg**

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

Rated power (P50 rating)	**0.75 kW (about 1 HP)**
Rated power (P60 rating)	**0.86 kW**
Rated speed (60 Hz)	**3480 rpm**
Rated torque (60 Hz)	**2.1 Nm**
Rated current (460 V, 60 Hz)	**1.45 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**77 | 77.2 | 75.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.1 | 3 | 3.6**
Moment of inertia J	**0.0011 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**64 | 75 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)

1LE1543-0DA22-2FA4

0.75 kW / 3000 rpm

Frame 80 M | 2 poles | IM B5 | Article No. 1LE1543-0DA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**80 M**
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)	**18 kg**

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

Rated power (P50 rating)	**0.75 kW (about 1 HP)**
Rated power (P60 rating)	**0.86 kW**
Rated speed (60 Hz)	**3480 rpm**
Rated torque (60 Hz)	**2.1 Nm**
Rated current (460 V, 60 Hz)	**1.45 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**77 | 77.2 | 75.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.1 | 3 | 3.6**
Moment of inertia J	**0.0011 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**64 | 75 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).