Data sheets - Siemens SIMOTICS GP motors

0.18 kW / 3000 rpm - 9 article numbers in this file

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Data sheet

SIMOTICS GP low-voltage motor - aluminum series 1LA7

1LA7060-2AA10

0.18 kW / 3000 rpm

Frame size 063 M | Article No. 1LA7060-2AA10 | mounting IM B3

GENERAL DATA

Motor series	**1LA7 (aluminum)**
Article No.	**1LA7060-2AA10**
Frame size	**063 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)	**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)	**3.6 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**0.18 kW (0.24 HP)**
Rated speed, 50 Hz	**2820 rpm (synchronous 3000 rpm)**
Rated torque	**0.61 Nm**
Rated current at 400 V	**0.51 A**
No-load current	**0.43 A**
Power factor cos φ	**0.82**
Efficiency at 4/4 | 3/4 | 2/4 load	**62.0 | 60.5 | 56.0 %**
Locked-rotor current ratio (I_LR/I_N)	**3.7**
Locked-rotor torque ratio (T_LR/T_N)	**2**
Breakdown torque ratio (T_B/T_N)	**2.2**
Moment of inertia J	**0.00018 kgm²**
Torque class	**16**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**0.21 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

1LA7060-2AA11

SIMOTICS GP low-voltage motor - aluminum series 1LA7

0.18 kW / 3000 rpm

Frame size 063 M | Article No. 1LA7060-2AA11 | mounting IM B5

GENERAL DATA

Motor series	**1LA7 (aluminum)**
Article No.	**1LA7060-2AA11**
Frame size	**063 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)	**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)	**3.6 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**0.18 kW (0.24 HP)**
Rated speed, 50 Hz	**2820 rpm (synchronous 3000 rpm)**
Rated torque	**0.61 Nm**
Rated current at 400 V	**0.51 A**
No-load current	**0.43 A**
Power factor cos φ	**0.82**
Efficiency at 4/4 | 3/4 | 2/4 load	**62.0 | 60.5 | 56.0 %**
Locked-rotor current ratio (I_LR/I_N)	**3.7**
Locked-rotor torque ratio (T_LR/T_N)	**2**
Breakdown torque ratio (T_B/T_N)	**2.2**
Moment of inertia J	**0.00018 kgm²**
Torque class	**16**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**0.21 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 - aluminum series 1LA7

1LA7060-2AA12

0.18 kW / 3000 rpm

Frame size 063 M | Article No. 1LA7060-2AA12 | mounting IM B14

GENERAL DATA

Motor series	**1LA7 (aluminum)**
Article No.	**1LA7060-2AA12**
Frame size	**063 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)	**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)	**3.6 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**0.18 kW (0.24 HP)**
Rated speed, 50 Hz	**2820 rpm (synchronous 3000 rpm)**
Rated torque	**0.61 Nm**
Rated current at 400 V	**0.51 A**
No-load current	**0.43 A**
Power factor cos φ	**0.82**
Efficiency at 4/4 | 3/4 | 2/4 load	**62.0 | 60.5 | 56.0 %**
Locked-rotor current ratio (I_LR/I_N)	**3.7**
Locked-rotor torque ratio (T_LR/T_N)	**2**
Breakdown torque ratio (T_B/T_N)	**2.2**
Moment of inertia J	**0.00018 kgm²**
Torque class	**16**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**0.21 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.

0.18 kW / 3000 rpm

Frame 63 M | 2 poles | IM B3 | Article No. 1LE1001-0BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**63 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)	**4 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.18 kW (about 0.24 HP)**
Rated power 60 Hz	**0.21 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**0.6 Nm**
Rated current (400 V)	**0.55 A**
Power factor	**0.78**
Efficiency 4/4 | 3/4 | 2/4	**60.4 | 59.4 | 53.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.2 | 2.7**
Moment of inertia J	**0.00022 kgm2**
Sound pressure / power LpfA | LWA	**57 | 64 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (12/2021), table 1LE1001, p. 3/32**

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

0.18 kW / 3000 rpm

Frame 63 M | 2 poles | IM B5 | Article No. 1LE1001-0BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**63 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)	**4 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.18 kW (about 0.24 HP)**
Rated power 60 Hz	**0.21 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**0.6 Nm**
Rated current (400 V)	**0.55 A**
Power factor	**0.78**
Efficiency 4/4 | 3/4 | 2/4	**60.4 | 59.4 | 53.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.2 | 2.7**
Moment of inertia J	**0.00022 kgm2**
Sound pressure / power LpfA | LWA	**57 | 64 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (12/2021), table 1LE1001, p. 3/32**

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0.18 kW / 3000 rpm

Frame 63 M | 2 poles | IM B14 | Article No. 1LE1001-0BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**63 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)	**4 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.18 kW (about 0.24 HP)**
Rated power 60 Hz	**0.21 kW**
Rated speed (50 Hz)	**2850 rpm**
Rated torque	**0.6 Nm**
Rated current (400 V)	**0.55 A**
Power factor	**0.78**
Efficiency 4/4 | 3/4 | 2/4	**60.4 | 59.4 | 53.7 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.5 | 2.2 | 2.7**
Moment of inertia J	**0.00022 kgm2**
Sound pressure / power LpfA | LWA	**57 | 64 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (12/2021), table 1LE1001, p. 3/32**

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0.18 kW / 3000 rpm

Frame 63 M | 2 poles | IM B3 | Article No. 1LE1002-0BA22-2AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**63 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)	**4 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.18 kW (about 0.24 HP)**
Rated power 60 Hz	**0.21 kW**
Rated speed (50 Hz)	**2805 rpm**
Rated torque	**0.61 Nm**
Rated current (400 V)	**0.62 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**52.8 | 50.1 | 44.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.4 | 1.7 | 2.2**
Moment of inertia J	**0.00018 kgm2**
Sound pressure / power LpfA | LWA	**55 | 62 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (12/2021), table 1LE1002, p. 3/50**

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0.18 kW / 3000 rpm

Frame 63 M | 2 poles | IM B5 | Article No. 1LE1002-0BA22-2FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**63 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)	**4 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.18 kW (about 0.24 HP)**
Rated power 60 Hz	**0.21 kW**
Rated speed (50 Hz)	**2805 rpm**
Rated torque	**0.61 Nm**
Rated current (400 V)	**0.62 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**52.8 | 50.1 | 44.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.4 | 1.7 | 2.2**
Moment of inertia J	**0.00018 kgm2**
Sound pressure / power LpfA | LWA	**55 | 62 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (12/2021), table 1LE1002, p. 3/50**

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0.18 kW / 3000 rpm

Frame 63 M | 2 poles | IM B14 | Article No. 1LE1002-0BA22-2KA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**63 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)	**4 kg**

ELECTRICAL DATA

Rated power 50 Hz	**0.18 kW (about 0.24 HP)**
Rated power 60 Hz	**0.21 kW**
Rated speed (50 Hz)	**2805 rpm**
Rated torque	**0.61 Nm**
Rated current (400 V)	**0.62 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**52.8 | 50.1 | 44.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**3.4 | 1.7 | 2.2**
Moment of inertia J	**0.00018 kgm2**
Sound pressure / power LpfA | LWA	**55 | 62 dB(A)**

SOURCE OF DATA

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