# Data sheets - Siemens SIMOTICS GP motors

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# Data sheet

SIMOTICS GP low-voltage motor - aluminum series 1LA7

**1LA7063-2AA10**

# 0.25 kW / 3000 rpm

Frame size 063 M | Article No. 1LA7063-2AA10 | mounting IM B3

## GENERAL DATA

| | |
|---|---|
| Motor series | **1LA7 (aluminum)** |
| Article No. | **1LA7063-2AA10** |
| 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) | **4 kg** |

## ELECTRICAL DATA - 400 V, 50 HZ

| | |
|---|---|
| Rated power, 50 Hz | **0.25 kW (0.34 HP)** |
| Rated speed, 50 Hz | **2830 rpm (synchronous 3000 rpm)** |
| Rated torque | **0.84 Nm** |
| Rated current at 400 V | **0.7 A** |
| No-load current | **0.6 A** |
| Power factor cos φ | **0.82** |
| Efficiency at 4/4 \| 3/4 \| 2/4 load | **63.0 \| 62.0 \| 57.0 %** |
| Locked-rotor current ratio (I_LR/I_N) | **4** |
| Locked-rotor torque ratio (T_LR/T_N) | **2.3** |
| Breakdown torque ratio (T_B/T_N) | **2.2** |
| Moment of inertia J | **0.00022 kgm²** |
| Torque class | **16** |

## 60 HZ OPERATION

| | |
|---|---|
| Rated power at 60 Hz (460 V) | **0.29 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

SIMOTICS GP low-voltage motor - aluminum series 1LA7

**1LA7063-2AA11**

# 0.25 kW / 3000 rpm

Frame size 063 M | Article No. 1LA7063-2AA11 | mounting IM B5

## GENERAL DATA

| | |
|---|---|
| Motor series | **1LA7 (aluminum)** |
| Article No. | **1LA7063-2AA11** |
| 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) | **4 kg** |

## ELECTRICAL DATA - 400 V, 50 HZ

| | |
|---|---|
| Rated power, 50 Hz | **0.25 kW (0.34 HP)** |
| Rated speed, 50 Hz | **2830 rpm (synchronous 3000 rpm)** |
| Rated torque | **0.84 Nm** |
| Rated current at 400 V | **0.7 A** |
| No-load current | **0.6 A** |
| Power factor cos φ | **0.82** |
| Efficiency at 4/4 \| 3/4 \| 2/4 load | **63.0 \| 62.0 \| 57.0 %** |
| Locked-rotor current ratio (I_LR/I_N) | **4** |
| Locked-rotor torque ratio (T_LR/T_N) | **2.3** |
| Breakdown torque ratio (T_B/T_N) | **2.2** |
| Moment of inertia J | **0.00022 kgm²** |
| Torque class | **16** |

## 60 HZ OPERATION

| | |
|---|---|
| Rated power at 60 Hz (460 V) | **0.29 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

**1LA7063-2AA12**

# 0.25 kW / 3000 rpm

Frame size 063 M | Article No. 1LA7063-2AA12 | mounting IM B14

## GENERAL DATA

| | |
|---|---|
| Motor series | **1LA7 (aluminum)** |
| Article No. | **1LA7063-2AA12** |
| 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) | **4 kg** |

## ELECTRICAL DATA - 400 V, 50 HZ

| | |
|---|---|
| Rated power, 50 Hz | **0.25 kW (0.34 HP)** |
| Rated speed, 50 Hz | **2830 rpm (synchronous 3000 rpm)** |
| Rated torque | **0.84 Nm** |
| Rated current at 400 V | **0.7 A** |
| No-load current | **0.6 A** |
| Power factor cos φ | **0.82** |
| Efficiency at 4/4 \| 3/4 \| 2/4 load | **63.0 \| 62.0 \| 57.0 %** |
| Locked-rotor current ratio (I_LR/I_N) | **4** |
| Locked-rotor torque ratio (T_LR/T_N) | **2.3** |
| Breakdown torque ratio (T_B/T_N) | **2.2** |
| Moment of inertia J | **0.00022 kgm²** |
| Torque class | **16** |

## 60 HZ OPERATION

| | |
|---|---|
| Rated power at 60 Hz (460 V) | **0.29 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.

# 0.25 kW / 3000 rpm

Frame 63 M | 2 poles | IM B3 | Article No. 1LE1001-0BA32-2AA4

## 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) | **5 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **0.25 kW (about 0.34 HP)** |
| Rated power 60 Hz | **0.29 kW** |
| Rated speed (50 Hz) | **2835 rpm** |
| Rated torque | **0.84 Nm** |
| Rated current (400 V) | **0.69 A** |
| Power factor | **0.81** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **64.8 \| 63.5 \| 57.3 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **4.1 \| 1.9 \| 2.5** |
| Moment of inertia J | **0.00026 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).

# 0.25 kW / 3000 rpm

Frame 63 M | 2 poles | IM B5 | Article No. 1LE1001-0BA32-2FA4

## 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) | **5 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **0.25 kW (about 0.34 HP)** |
| Rated power 60 Hz | **0.29 kW** |
| Rated speed (50 Hz) | **2835 rpm** |
| Rated torque | **0.84 Nm** |
| Rated current (400 V) | **0.69 A** |
| Power factor | **0.81** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **64.8 \| 63.5 \| 57.3 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **4.1 \| 1.9 \| 2.5** |
| Moment of inertia J | **0.00026 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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# 0.25 kW / 3000 rpm

Frame 63 M | 2 poles | IM B14 | Article No. 1LE1001-0BA32-2KA4

## 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) | **5 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **0.25 kW (about 0.34 HP)** |
| Rated power 60 Hz | **0.29 kW** |
| Rated speed (50 Hz) | **2835 rpm** |
| Rated torque | **0.84 Nm** |
| Rated current (400 V) | **0.69 A** |
| Power factor | **0.81** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **64.8 \| 63.5 \| 57.3 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **4.1 \| 1.9 \| 2.5** |
| Moment of inertia J | **0.00026 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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# 0.25 kW / 3000 rpm

Frame 63 M | 2 poles | IM B3 | Article No. 1LE1002-0BA32-2AA4

## 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 | **0.25 kW (about 0.34 HP)** |
| Rated power 60 Hz | **0.29 kW** |
| Rated speed (50 Hz) | **2835 rpm** |
| Rated torque | **0.84 Nm** |
| Rated current (400 V) | **0.83 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **58.2 \| 55.5 \| 48.6 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **3.6 \| 1.9 \| 2.6** |
| Moment of inertia J | **0.00022 kgm2** |
| Sound pressure / power LpfA \| LWA | **56 \| 63 dB(A)** |

## SOURCE OF DATA

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

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

# 0.25 kW / 3000 rpm

Frame 63 M | 2 poles | IM B5 | Article No. 1LE1002-0BA32-2FA4

## 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 | **0.25 kW (about 0.34 HP)** |
| Rated power 60 Hz | **0.29 kW** |
| Rated speed (50 Hz) | **2835 rpm** |
| Rated torque | **0.84 Nm** |
| Rated current (400 V) | **0.83 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **58.2 \| 55.5 \| 48.6 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **3.6 \| 1.9 \| 2.6** |
| Moment of inertia J | **0.00022 kgm2** |
| Sound pressure / power LpfA \| LWA | **56 \| 63 dB(A)** |

## SOURCE OF DATA

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

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# Data sheet

1LE1002-0BA32-2KA4

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

# 0.25 kW / 3000 rpm

Frame 63 M | 2 poles | IM B14 | Article No. 1LE1002-0BA32-2KA4

## 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 | **0.25 kW (about 0.34 HP)** |
| Rated power 60 Hz | **0.29 kW** |
| Rated speed (50 Hz) | **2835 rpm** |
| Rated torque | **0.84 Nm** |
| Rated current (400 V) | **0.83 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **58.2 \| 55.5 \| 48.6 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **3.6 \| 1.9 \| 2.6** |
| Moment of inertia J | **0.00022 kgm2** |
| Sound pressure / power LpfA \| LWA | **56 \| 63 dB(A)** |

## SOURCE OF DATA

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

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