# Data sheets - Siemens SIMOTICS GP motors

1.5 kW / 750 rpm - 12 article numbers in this file


| Article No. | Page |
|---|---|
| 1LE1502-1BD22-2AA4 | 2 |
| 1LE1502-1BD22-2FA4 | 3 |
| 1LE1502-1BD22-2KA4 | 4 |
| 1LE1002-1BD22-2AA4 | 5 |
| 1LE1002-1BD22-2FA4 | 6 |
| 1LE1002-1BD22-2KA4 | 7 |
| 1LE1001-1BD22-2AA4 | 8 |
| 1LE1001-1BD22-2FA4 | 9 |
| 1LE1001-1BD22-2KA4 | 10 |
| 1LE1501-1BD22-2AA4 | 11 |
| 1LE1501-1BD22-2FA4 | 12 |
| 1LE1501-1BD22-2KA4 | 13 |



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# Data sheet

**1LE1502-1BD22-2AA4**

SIMOTICS GP low-voltage motor - cast-iron series 1LE1502 Basic Line (IE1)

# 1.5 kW / 750 rpm

Frame size 112 M | Article No. 1LE1502-1BD22-2AA4 | mounting IM B3

## GENERAL DATA

| | |
|---|---|
| Motor series | **1LE1502 Basic Line (cast iron)** |
| Article No. | **1LE1502-1BD22-2AA4** |
| Frame size | **112 M** |
| Number of poles | **8** |
| Housing material | **Cast iron** |
| 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 (basic type, without flange)** |
| Net weight (IM B3) | **42 kg** |

## ELECTRICAL DATA - 400 V, 50 HZ

| | |
|---|---|
| Rated power, 50 Hz | **1.5 kW (2 HP)** |
| Rated speed, 50 Hz | **700 rpm (synchronous 750 rpm)** |
| Rated torque | **20 Nm** |
| Rated current at 400 V | **4.65 A** |
| Power factor cos φ | **0.66** |
| Efficiency at 4/4 \| 3/4 \| 2/4 load | **70.2 \| 71.1 \| 68.7 %** |
| Locked-rotor current ratio (I_LR/I_N) | **3.5** |
| Locked-rotor torque ratio (T_LR/T_N) | **1.9** |
| Breakdown torque ratio (T_B/T_N) | **2.1** |
| Moment of inertia J | **0.0094 kgm²** |
| Sound pressure level LpfA (50 Hz) | **67 dB(A)** |
| Sound power level LWA (50 Hz) | **78 dB(A)** |

## 60 HZ OPERATION

| | |
|---|---|
| Rated power at 60 Hz (460 V) | **1.75 kW** |
| Synchronous speed at 60 Hz | **900 rpm** |
| Speed / efficiency / current at 60 Hz | **not listed in the catalog (DT Configurator)** |

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Source: Siemens Catalog D 81.1 (05/2018), p. 2/51. Dimensions: see the same catalog.
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Data at rated power, 400 V / 50 Hz, ambient 40 °C, altitude up to 1000 m.

# Data sheet

**1LE1502-1BD22-2FA4**

SIMOTICS GP low-voltage motor - cast-iron series 1LE1502 Basic Line (IE1)

# 1.5 kW / 750 rpm

Frame size 112 M | Article No. 1LE1502-1BD22-2FA4 | mounting IM B5

## GENERAL DATA

| | |
|---|---|
| Motor series | **1LE1502 Basic Line (cast iron)** |
| Article No. | **1LE1502-1BD22-2FA4** |
| Frame size | **112 M** |
| Number of poles | **8** |
| Housing material | **Cast iron** |
| 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 (flange)** |
| Net weight (IM B3) | **42 kg** |

## ELECTRICAL DATA - 400 V, 50 HZ

| | |
|---|---|
| Rated power, 50 Hz | **1.5 kW (2 HP)** |
| Rated speed, 50 Hz | **700 rpm (synchronous 750 rpm)** |
| Rated torque | **20 Nm** |
| Rated current at 400 V | **4.65 A** |
| Power factor cos φ | **0.66** |
| Efficiency at 4/4 \| 3/4 \| 2/4 load | **70.2 \| 71.1 \| 68.7 %** |
| Locked-rotor current ratio (I_LR/I_N) | **3.5** |
| Locked-rotor torque ratio (T_LR/T_N) | **1.9** |
| Breakdown torque ratio (T_B/T_N) | **2.1** |
| Moment of inertia J | **0.0094 kgm²** |
| Sound pressure level LpfA (50 Hz) | **67 dB(A)** |
| Sound power level LWA (50 Hz) | **78 dB(A)** |

## 60 HZ OPERATION

| | |
|---|---|
| Rated power at 60 Hz (460 V) | **1.75 kW** |
| Synchronous speed at 60 Hz | **900 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

**1LE1502-1BD22-2KA4**

SIMOTICS GP low-voltage motor - cast-iron series 1LE1502 Basic Line (IE1)

# 1.5 kW / 750 rpm

Frame size 112 M | Article No. 1LE1502-1BD22-2KA4 | mounting IM B14

## GENERAL DATA

| | |
|---|---|
| Motor series | **1LE1502 Basic Line (cast iron)** |
| Article No. | **1LE1502-1BD22-2KA4** |
| Frame size | **112 M** |
| Number of poles | **8** |
| Housing material | **Cast iron** |
| 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 (flange)** |
| Net weight (IM B3) | **42 kg** |

## ELECTRICAL DATA - 400 V, 50 HZ

| | |
|---|---|
| Rated power, 50 Hz | **1.5 kW (2 HP)** |
| Rated speed, 50 Hz | **700 rpm (synchronous 750 rpm)** |
| Rated torque | **20 Nm** |
| Rated current at 400 V | **4.65 A** |
| Power factor cos φ | **0.66** |
| Efficiency at 4/4 \| 3/4 \| 2/4 load | **70.2 \| 71.1 \| 68.7 %** |
| Locked-rotor current ratio (I_LR/I_N) | **3.5** |
| Locked-rotor torque ratio (T_LR/T_N) | **1.9** |
| Breakdown torque ratio (T_B/T_N) | **2.1** |
| Moment of inertia J | **0.0094 kgm²** |
| Sound pressure level LpfA (50 Hz) | **67 dB(A)** |
| Sound power level LWA (50 Hz) | **78 dB(A)** |

## 60 HZ OPERATION

| | |
|---|---|
| Rated power at 60 Hz (460 V) | **1.75 kW** |
| Synchronous speed at 60 Hz | **900 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)

**1LE1002-1BD22-2AA4**

# 1.5 kW / 750 rpm

Frame 112 M | 8 poles | IM B3 | Article No. 1LE1002-1BD22-2AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1002 / IE1** |
| Housing | **Aluminum** |
| Frame size | **112 M** |
| Poles | **8** |
| 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) | **29 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **1.5 kW (about 2 HP)** |
| Rated power 60 Hz | **1.75 kW** |
| Rated speed (50 Hz) | **700 rpm** |
| Rated torque | **20 Nm** |
| Rated current | **4.65 A** |
| Power factor | **0.66** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **70.2 \| 71.1 \| 68.7 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **3.5 \| 1.9 \| 2.1** |
| Moment of inertia J | **0.0094 kgm2** |
| Sound pressure / power LpfA \| LWA | **63 \| 75 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)

**1LE1002-1BD22-2FA4**

# 1.5 kW / 750 rpm

Frame 112 M | 8 poles | IM B5 | Article No. 1LE1002-1BD22-2FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1002 / IE1** |
| Housing | **Aluminum** |
| Frame size | **112 M** |
| Poles | **8** |
| 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) | **29 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **1.5 kW (about 2 HP)** |
| Rated power 60 Hz | **1.75 kW** |
| Rated speed (50 Hz) | **700 rpm** |
| Rated torque | **20 Nm** |
| Rated current | **4.65 A** |
| Power factor | **0.66** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **70.2 \| 71.1 \| 68.7 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **3.5 \| 1.9 \| 2.1** |
| Moment of inertia J | **0.0094 kgm2** |
| Sound pressure / power LpfA \| LWA | **63 \| 75 dB(A)** |

## SOURCE OF DATA

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

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# Data sheet

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

**1LE1002-1BD22-2KA4**

# 1.5 kW / 750 rpm

Frame 112 M | 8 poles | IM B14 | Article No. 1LE1002-1BD22-2KA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1002 / IE1** |
| Housing | **Aluminum** |
| Frame size | **112 M** |
| Poles | **8** |
| 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) | **29 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **1.5 kW (about 2 HP)** |
| Rated power 60 Hz | **1.75 kW** |
| Rated speed (50 Hz) | **700 rpm** |
| Rated torque | **20 Nm** |
| Rated current | **4.65 A** |
| Power factor | **0.66** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **70.2 \| 71.1 \| 68.7 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **3.5 \| 1.9 \| 2.1** |
| Moment of inertia J | **0.0094 kgm2** |
| Sound pressure / power LpfA \| LWA | **63 \| 75 dB(A)** |

## SOURCE OF DATA

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

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# Data sheet

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

**1LE1001-1BD22-2AA4**

# 1.5 kW / 750 rpm

Frame 112 M | 8 poles | IM B3 | Article No. 1LE1001-1BD22-2AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1001 / IE2** |
| Housing | **Aluminum** |
| Frame size | **112 M** |
| Poles | **8** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **230 D / 400 Y V (50 Hz)** |
| Net weight (IM B3) | **34 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **1.5 kW (about 2 HP)** |
| Rated power 60 Hz | **1.75 kW** |
| Rated speed (50 Hz) | **725 rpm** |
| Rated torque | **20 Nm** |
| Rated current | **4.65 A** |
| Power factor | **0.63** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **74.1 \| 73.9 \| 71.2 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **4 \| 1.6 \| 2.4** |
| Moment of inertia J | **0.017 kgm2** |
| Sound pressure / power LpfA \| LWA | **63 \| 75 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1001, p. 2/29 (PDF 147)** |

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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)

**1LE1001-1BD22-2FA4**

# 1.5 kW / 750 rpm

Frame 112 M | 8 poles | IM B5 | Article No. 1LE1001-1BD22-2FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1001 / IE2** |
| Housing | **Aluminum** |
| Frame size | **112 M** |
| Poles | **8** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **230 D / 400 Y V (50 Hz)** |
| Net weight (IM B3) | **34 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **1.5 kW (about 2 HP)** |
| Rated power 60 Hz | **1.75 kW** |
| Rated speed (50 Hz) | **725 rpm** |
| Rated torque | **20 Nm** |
| Rated current | **4.65 A** |
| Power factor | **0.63** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **74.1 \| 73.9 \| 71.2 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **4 \| 1.6 \| 2.4** |
| Moment of inertia J | **0.017 kgm2** |
| Sound pressure / power LpfA \| LWA | **63 \| 75 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1001, p. 2/29 (PDF 147)** |

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# Data sheet

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

**1LE1001-1BD22-2KA4**

# 1.5 kW / 750 rpm

Frame 112 M | 8 poles | IM B14 | Article No. 1LE1001-1BD22-2KA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1001 / IE2** |
| Housing | **Aluminum** |
| Frame size | **112 M** |
| Poles | **8** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **230 D / 400 Y V (50 Hz)** |
| Net weight (IM B3) | **34 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **1.5 kW (about 2 HP)** |
| Rated power 60 Hz | **1.75 kW** |
| Rated speed (50 Hz) | **725 rpm** |
| Rated torque | **20 Nm** |
| Rated current | **4.65 A** |
| Power factor | **0.63** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **74.1 \| 73.9 \| 71.2 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **4 \| 1.6 \| 2.4** |
| Moment of inertia J | **0.017 kgm2** |
| Sound pressure / power LpfA \| LWA | **63 \| 75 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1001, p. 2/29 (PDF 147)** |

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# Data sheet

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

**1LE1501-1BD22-2AA4**

# 1.5 kW / 750 rpm

Frame 112 M | 8 poles | IM B3 | Article No. 1LE1501-1BD22-2AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1501 / IE2** |
| Housing | **Cast iron** |
| Frame size | **112 M** |
| Poles | **8** |
| 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) | **53 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **1.5 kW (about 2 HP)** |
| Rated power 60 Hz | **1.75 kW** |
| Rated speed (50 Hz) | **725 rpm** |
| Rated torque | **20 Nm** |
| Rated current | **4.65 A** |
| Power factor | **0.63** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **74.1 \| 73.9 \| 71.2 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **4 \| 1.6 \| 2.4** |
| Moment of inertia J | **0.017 kgm2** |
| Sound pressure / power LpfA \| LWA | **63 \| 75 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1501, p. 2/35 (PDF 153)** |

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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)

**1LE1501-1BD22-2FA4**

# 1.5 kW / 750 rpm

Frame 112 M | 8 poles | IM B5 | Article No. 1LE1501-1BD22-2FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1501 / IE2** |
| Housing | **Cast iron** |
| Frame size | **112 M** |
| Poles | **8** |
| 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) | **53 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **1.5 kW (about 2 HP)** |
| Rated power 60 Hz | **1.75 kW** |
| Rated speed (50 Hz) | **725 rpm** |
| Rated torque | **20 Nm** |
| Rated current | **4.65 A** |
| Power factor | **0.63** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **74.1 \| 73.9 \| 71.2 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **4 \| 1.6 \| 2.4** |
| Moment of inertia J | **0.017 kgm2** |
| Sound pressure / power LpfA \| LWA | **63 \| 75 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1501, p. 2/35 (PDF 153)** |

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# Data sheet

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

**1LE1501-1BD22-2KA4**

# 1.5 kW / 750 rpm

Frame 112 M | 8 poles | IM B14 | Article No. 1LE1501-1BD22-2KA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1501 / IE2** |
| Housing | **Cast iron** |
| Frame size | **112 M** |
| Poles | **8** |
| 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) | **53 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **1.5 kW (about 2 HP)** |
| Rated power 60 Hz | **1.75 kW** |
| Rated speed (50 Hz) | **725 rpm** |
| Rated torque | **20 Nm** |
| Rated current | **4.65 A** |
| Power factor | **0.63** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **74.1 \| 73.9 \| 71.2 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **4 \| 1.6 \| 2.4** |
| Moment of inertia J | **0.017 kgm2** |
| Sound pressure / power LpfA \| LWA | **63 \| 75 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1501, p. 2/35 (PDF 153)** |

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