# Data sheets - Siemens SIMOTICS GP motors

15 kW / 1000 rpm - 38 article numbers in this file


| Article No. | Page |
|---|---|
| 1LE1001-1DC63-4AA4 | 2 |
| 1LE1001-1DC63-4FA4 | 3 |
| 1LE1001-1DC63-4KA4 | 4 |
| 1LE1002-1EC43-4AA4 | 5 |
| 1LE1002-1EC43-4FA4 | 6 |
| 1LE1002-1DC63-4AA4 | 7 |
| 1LE1002-1DC63-4FA4 | 8 |
| 1LE1002-1DC63-4KA4 | 9 |
| 1LE1041-1DC63-4FA4 | 10 |
| 1LE1041-1DC63-4KA4 | 11 |
| 1LE1001-1EC43-4AA4 | 12 |
| 1LE1001-1EC43-4FA4 | 13 |
| 1LE1003-1EC43-4AA4 | 14 |
| 1LE1003-1EC43-4FA4 | 15 |
| 1LE1043-1EC43-4AA4 | 16 |
| 1LE1043-1EC43-4FA4 | 17 |
| 1LE0102-1EC43-4AA4 | 18 |
| 1LE0102-1EC43-4FA4 | 19 |
| 1LE0102-1EC44-1AA4 | 20 |
| 1LE0102-1EC44-1FA4 | 21 |
| 1LE1501-1DC63-4AA4 | 22 |
| 1LE1501-1DC63-4FA4 | 23 |
| 1LE1501-1DC63-4KA4 | 24 |
| 1LE1502-1EC43-4FA4 | 25 |
| 1LE1502-1DC63-4AA4 | 26 |
| 1LE1502-1DC63-4FA4 | 27 |
| 1LE1502-1DC63-4KA4 | 28 |
| 1LE0101-1EC43-4AB4 | 29 |
| 1LE0101-1EC43-4FB4 | 30 |
| 1LE0101-1EC44-1AB4 | 31 |
| 1LE0101-1EC44-1FB4 | 32 |
| 1LE1501-1EC43-4AA4 | 33 |
| 1LE1501-1EC43-4FA4 | 34 |
| 1LE1503-1EC43-4AA4 | 35 |
| 1LE1503-1EC43-4FA4 | 36 |
| 1LE1541-1EC43-4FA4 | 37 |
| 1LE1543-1EC43-4AA4 | 38 |
| 1LE1543-1EC43-4FA4 | 39 |



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# Data sheet

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

**1LE1001-1DC63-4AA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B3 | Article No. 1LE1001-1DC63-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1001 / IE2** |
| Housing | **Aluminum** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **115 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **32 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.4 \| 89.7 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **5.2 \| 2 \| 2.4** |
| Moment of inertia J | **0.12 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1001, p. 2/31 (PDF 149)** |

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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)

**1LE1001-1DC63-4FA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B5 | Article No. 1LE1001-1DC63-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1001 / IE2** |
| Housing | **Aluminum** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **115 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **32 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.4 \| 89.7 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **5.2 \| 2 \| 2.4** |
| Moment of inertia J | **0.12 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
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# Data sheet

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

**1LE1001-1DC63-4KA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B14 | Article No. 1LE1001-1DC63-4KA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1001 / IE2** |
| Housing | **Aluminum** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **115 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **32 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.4 \| 89.7 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **5.2 \| 2 \| 2.4** |
| Moment of inertia J | **0.12 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
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# Data sheet

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

**1LE1002-1EC43-4AA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE1002-1EC43-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1002 / IE1** |
| Housing | **Aluminum** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **119 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **32 A** |
| Power factor | **0.77** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 88.5 \| 87.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.1 \| 2.3 \| 3** |
| Moment of inertia J | **0.17 kgm2** |
| Sound pressure / power LpfA \| LWA | **56 \| 69 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)

**1LE1002-1EC43-4FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE1002-1EC43-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1002 / IE1** |
| Housing | **Aluminum** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **119 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **32 A** |
| Power factor | **0.77** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 88.5 \| 87.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.1 \| 2.3 \| 3** |
| Moment of inertia J | **0.17 kgm2** |
| Sound pressure / power LpfA \| LWA | **56 \| 69 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)

**1LE1002-1DC63-4AA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B3 | Article No. 1LE1002-1DC63-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1002 / IE1** |
| Housing | **Aluminum** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **109 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **965 rpm** |
| Rated torque | **148 Nm** |
| Rated current | **33 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 87.9 \| 86.5 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6 \| 2.9 \| 3.4** |
| Moment of inertia J | **0.094 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1002, p. 2/47 (PDF 165)** |

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# Data sheet

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

**1LE1002-1DC63-4FA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B5 | Article No. 1LE1002-1DC63-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1002 / IE1** |
| Housing | **Aluminum** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **109 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **965 rpm** |
| Rated torque | **148 Nm** |
| Rated current | **33 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 87.9 \| 86.5 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6 \| 2.9 \| 3.4** |
| Moment of inertia J | **0.094 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1002, p. 2/47 (PDF 165)** |

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# Data sheet

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

**1LE1002-1DC63-4KA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B14 | Article No. 1LE1002-1DC63-4KA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1002 / IE1** |
| Housing | **Aluminum** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **109 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **965 rpm** |
| Rated torque | **148 Nm** |
| Rated current | **33 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 87.9 \| 86.5 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6 \| 2.9 \| 3.4** |
| Moment of inertia J | **0.094 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1002, p. 2/47 (PDF 165)** |

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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)

**1LE1041-1DC63-4FA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B5 | Article No. 1LE1041-1DC63-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1041 / IE2** |
| Housing | **Aluminum** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **115 kg** |

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

| | |
|---|---|
| Rated power (P50 rating) | **15 kW (about 20 HP)** |
| Rated power (P60 rating) | **17.3 kW** |
| Rated speed (60 Hz) | **1180 rpm** |
| Rated torque (60 Hz) | **121 Nm** |
| Rated current (460 V, 60 Hz) | **28.5 A** |
| Power factor (60 Hz) | **0.73** |
| Efficiency 4/4 \| 3/4 \| 2/4 (60 Hz) | **90.2 \| 90.4 \| 89.3 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N (60 Hz) | **5.8 \| 2.3 \| 2.6** |
| Moment of inertia J | **0.12 kgm2** |
| Sound pressure / power LpfA \| LWA (60 Hz) | **70 \| 82 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1041, p. 2/67 (PDF 185)** |

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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)

**1LE1041-1DC63-4KA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B14 | Article No. 1LE1041-1DC63-4KA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1041 / IE2** |
| Housing | **Aluminum** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **115 kg** |

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

| | |
|---|---|
| Rated power (P50 rating) | **15 kW (about 20 HP)** |
| Rated power (P60 rating) | **17.3 kW** |
| Rated speed (60 Hz) | **1180 rpm** |
| Rated torque (60 Hz) | **121 Nm** |
| Rated current (460 V, 60 Hz) | **28.5 A** |
| Power factor (60 Hz) | **0.73** |
| Efficiency 4/4 \| 3/4 \| 2/4 (60 Hz) | **90.2 \| 90.4 \| 89.3 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N (60 Hz) | **5.8 \| 2.3 \| 2.6** |
| Moment of inertia J | **0.12 kgm2** |
| Sound pressure / power LpfA \| LWA (60 Hz) | **70 \| 82 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1041, p. 2/67 (PDF 185)** |

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# Data sheet

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

**1LE1001-1EC43-4AA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE1001-1EC43-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1001 / IE2** |
| Housing | **Aluminum** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **121 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **31 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.1 \| 89.5 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6 \| 2.5 \| 3.1** |
| Moment of inertia J | **0.17 kgm2** |
| Sound pressure / power LpfA \| LWA | **57 \| 70 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1001, p. 2/28 (PDF 146)** |

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# Data sheet

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

**1LE1001-1EC43-4FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE1001-1EC43-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1001 / IE2** |
| Housing | **Aluminum** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **121 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **31 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.1 \| 89.5 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6 \| 2.5 \| 3.1** |
| Moment of inertia J | **0.17 kgm2** |
| Sound pressure / power LpfA \| LWA | **57 \| 70 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
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# Data sheet

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

**1LE1003-1EC43-4AA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE1003-1EC43-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1003 / IE3** |
| Housing | **Aluminum** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **130 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **not listed (catalog 09/2023)** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **29.5 A** |
| Power factor | **0.8** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **91.2 \| 92 \| 91.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **5.9 \| 2.3 \| 2.8** |
| Moment of inertia J | **0.19 kgm2** |
| Sound pressure / power LpfA \| LWA | **61 \| 68 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)

**1LE1003-1EC43-4FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE1003-1EC43-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1003 / IE3** |
| Housing | **Aluminum** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **130 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **not listed (catalog 09/2023)** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **29.5 A** |
| Power factor | **0.8** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **91.2 \| 92 \| 91.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **5.9 \| 2.3 \| 2.8** |
| Moment of inertia J | **0.19 kgm2** |
| Sound pressure / power LpfA \| LWA | **61 \| 68 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 1LE1043 (IE3)

**1LE1043-1EC43-4AA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE1043-1EC43-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1043 / IE3** |
| Housing | **Aluminum** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **130 kg** |

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

| | |
|---|---|
| Rated power (P50 rating) | **15 kW (about 20 HP)** |
| Rated power (P60 rating) | **18 kW** |
| Rated speed (60 Hz) | **1178 rpm** |
| Rated torque (60 Hz) | **122 Nm** |
| Rated current (460 V, 60 Hz) | **26 A** |
| Power factor (60 Hz) | **0.79** |
| Efficiency 4/4 \| 3/4 \| 2/4 (60 Hz) | **91.7 \| 92 \| 91.4 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N (60 Hz) | **6.8 \| 2.5 \| 3** |
| Moment of inertia J | **0.19 kgm2** |
| Sound pressure / power LpfA \| LWA (60 Hz) | **61 \| 68 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1043, p. 2/55 (PDF 173)** |

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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 1LE1043 (IE3)

**1LE1043-1EC43-4FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE1043-1EC43-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1043 / IE3** |
| Housing | **Aluminum** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **130 kg** |

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

| | |
|---|---|
| Rated power (P50 rating) | **15 kW (about 20 HP)** |
| Rated power (P60 rating) | **18 kW** |
| Rated speed (60 Hz) | **1178 rpm** |
| Rated torque (60 Hz) | **122 Nm** |
| Rated current (460 V, 60 Hz) | **26 A** |
| Power factor (60 Hz) | **0.79** |
| Efficiency 4/4 \| 3/4 \| 2/4 (60 Hz) | **91.7 \| 92 \| 91.4 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N (60 Hz) | **6.8 \| 2.5 \| 3** |
| Moment of inertia J | **0.19 kgm2** |
| Sound pressure / power LpfA \| LWA (60 Hz) | **61 \| 68 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1043, p. 2/55 (PDF 173)** |

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# Data sheet

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

**1LE0102-1EC43-4AA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE0102-1EC43-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE0102 / IE1** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **169 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **970 rpm** |
| Rated torque | **148 Nm** |
| Rated current | **32 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 88.7 \| 88.4 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.5 \| 2.3 \| 3** |
| Moment of inertia J | **0.18 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 (IE1)

**1LE0102-1EC43-4FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE0102-1EC43-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE0102 / IE1** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **169 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **970 rpm** |
| Rated torque | **148 Nm** |
| Rated current | **32 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 88.7 \| 88.4 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.5 \| 2.3 \| 3** |
| Moment of inertia J | **0.18 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 (IE1)

**1LE0102-1EC44-1AA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE0102-1EC44-1AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE0102 / IE1** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| 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) | **169 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **970 rpm** |
| Rated torque | **148 Nm** |
| Rated current | **24.5 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 88.7 \| 88.4 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.5 \| 2.3 \| 3** |
| Moment of inertia J | **0.18 kgm2** |

## SOURCE OF DATA

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

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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)

**1LE0102-1EC44-1FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE0102-1EC44-1FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE0102 / IE1** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| 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) | **169 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **970 rpm** |
| Rated torque | **148 Nm** |
| Rated current | **24.5 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 88.7 \| 88.4 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.5 \| 2.3 \| 3** |
| Moment of inertia J | **0.18 kgm2** |

## SOURCE OF DATA

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

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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)

**1LE1501-1DC63-4AA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B3 | Article No. 1LE1501-1DC63-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1501 / IE2** |
| Housing | **Cast iron** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **147 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **32 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.4 \| 89.7 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **5.2 \| 2 \| 2.4** |
| Moment of inertia J | **0.12 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1501, p. 2/41 (PDF 159)** |

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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)

**1LE1501-1DC63-4FA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B5 | Article No. 1LE1501-1DC63-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1501 / IE2** |
| Housing | **Cast iron** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **147 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **32 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.4 \| 89.7 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **5.2 \| 2 \| 2.4** |
| Moment of inertia J | **0.12 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1501, p. 2/41 (PDF 159)** |

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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)

**1LE1501-1DC63-4KA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B14 | Article No. 1LE1501-1DC63-4KA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1501 / IE2** |
| Housing | **Cast iron** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **147 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **32 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.4 \| 89.7 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **5.2 \| 2 \| 2.4** |
| Moment of inertia J | **0.12 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1501, p. 2/41 (PDF 159)** |

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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 1LE1502 (IE1)

**1LE1502-1EC43-4FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE1502-1EC43-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1502 / IE1** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **155 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **32 A** |
| Power factor | **0.77** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 88.5 \| 87.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.1 \| 2.3 \| 3** |
| Moment of inertia J | **0.17 kgm2** |
| Sound pressure / power LpfA \| LWA | **56 \| 69 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1502, p. 2/50 (PDF 168)** |

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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 1LE1502 (IE1)

**1LE1502-1DC63-4AA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B3 | Article No. 1LE1502-1DC63-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1502 / IE1** |
| Housing | **Cast iron** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **140 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **965 rpm** |
| Rated torque | **148 Nm** |
| Rated current | **33 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 87.9 \| 86.5 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6 \| 2.9 \| 3.4** |
| Moment of inertia J | **0.094 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1502, p. 2/53 (PDF 171)** |

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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 1LE1502 (IE1)

**1LE1502-1DC63-4FA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B5 | Article No. 1LE1502-1DC63-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1502 / IE1** |
| Housing | **Cast iron** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **140 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **965 rpm** |
| Rated torque | **148 Nm** |
| Rated current | **33 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 87.9 \| 86.5 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6 \| 2.9 \| 3.4** |
| Moment of inertia J | **0.094 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1502, p. 2/53 (PDF 171)** |

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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 1LE1502 (IE1)

**1LE1502-1DC63-4KA4**

# 15 kW / 1000 rpm

Frame 160 L | 6 poles | IM B14 | Article No. 1LE1502-1DC63-4KA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1502 / IE1** |
| Housing | **Cast iron** |
| Frame size | **160 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **140 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **17.3 kW** |
| Rated speed (50 Hz) | **965 rpm** |
| Rated torque | **148 Nm** |
| Rated current | **33 A** |
| Power factor | **0.75** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **87.7 \| 87.9 \| 86.5 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6 \| 2.9 \| 3.4** |
| Moment of inertia J | **0.094 kgm2** |
| Sound pressure / power LpfA \| LWA | **67 \| 79 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1502, p. 2/53 (PDF 171)** |

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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)

**1LE0101-1EC43-4AB4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE0101-1EC43-4AB4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE0101 / IE2** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **170 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **31 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.4 \| 89.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.5 \| 2.3 \| 3** |
| Moment of inertia J | **0.18 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 (IE2)

**1LE0101-1EC43-4FB4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE0101-1EC43-4FB4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE0101 / IE2** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **170 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **31 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.4 \| 89.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.5 \| 2.3 \| 3** |
| Moment of inertia J | **0.18 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 (IE2)

**1LE0101-1EC44-1AB4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE0101-1EC44-1AB4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE0101 / IE2** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| 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) | **170 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **23.5 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.4 \| 89.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.5 \| 2.3 \| 3** |
| Moment of inertia J | **0.18 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 (IE2)

**1LE0101-1EC44-1FB4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE0101-1EC44-1FB4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE0101 / IE2** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| 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) | **170 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **23.5 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.4 \| 89.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6.5 \| 2.3 \| 3** |
| Moment of inertia J | **0.18 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 1LE1501 (IE2)

**1LE1501-1EC43-4AA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE1501-1EC43-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1501 / IE2** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **155 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **31 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.1 \| 89.5 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6 \| 2.5 \| 3.1** |
| Moment of inertia J | **0.17 kgm2** |
| Sound pressure / power LpfA \| LWA | **57 \| 70 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)

**1LE1501-1EC43-4FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE1501-1EC43-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1501 / IE2** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **155 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **18 kW** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **31 A** |
| Power factor | **0.78** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **89.7 \| 90.1 \| 89.5 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **6 \| 2.5 \| 3.1** |
| Moment of inertia J | **0.17 kgm2** |
| Sound pressure / power LpfA \| LWA | **57 \| 70 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)

**1LE1503-1EC43-4AA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE1503-1EC43-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1503 / IE3** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **180 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **not listed (catalog 09/2023)** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **29.5 A** |
| Power factor | **0.8** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **91.2 \| 92 \| 91.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **5.9 \| 2.3 \| 2.8** |
| Moment of inertia J | **0.19 kgm2** |
| Sound pressure / power LpfA \| LWA | **61 \| 68 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)

**1LE1503-1EC43-4FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE1503-1EC43-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1503 / IE3** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **180 kg** |

## ELECTRICAL DATA

| | |
|---|---|
| Rated power 50 Hz | **15 kW (about 20 HP)** |
| Rated power 60 Hz | **not listed (catalog 09/2023)** |
| Rated speed (50 Hz) | **975 rpm** |
| Rated torque | **147 Nm** |
| Rated current | **29.5 A** |
| Power factor | **0.8** |
| Efficiency 4/4 \| 3/4 \| 2/4 | **91.2 \| 92 \| 91.9 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N | **5.9 \| 2.3 \| 2.8** |
| Moment of inertia J | **0.19 kgm2** |
| Sound pressure / power LpfA \| LWA | **61 \| 68 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 1LE1541 (IE2)

**1LE1541-1EC43-4FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE1541-1EC43-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1541 / IE2** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **155 kg** |

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

| | |
|---|---|
| Rated power (P50 rating) | **15 kW (about 20 HP)** |
| Rated power (P60 rating) | **18 kW** |
| Rated speed (60 Hz) | **1178 rpm** |
| Rated torque (60 Hz) | **122 Nm** |
| Rated current (460 V, 60 Hz) | **27 A** |
| Power factor (60 Hz) | **0.77** |
| Efficiency 4/4 \| 3/4 \| 2/4 (60 Hz) | **90.2 \| 90.2 \| 89 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N (60 Hz) | **6.9 \| 2.8 \| 3.4** |
| Moment of inertia J | **0.17 kgm2** |
| Sound pressure / power LpfA \| LWA (60 Hz) | **60 \| 73 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1541, p. 2/69 (PDF 187)** |

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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)

**1LE1543-1EC43-4AA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B3 | Article No. 1LE1543-1EC43-4AA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1543 / IE3** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **180 kg** |

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

| | |
|---|---|
| Rated power (P50 rating) | **15 kW (about 20 HP)** |
| Rated power (P60 rating) | **18 kW** |
| Rated speed (60 Hz) | **1178 rpm** |
| Rated torque (60 Hz) | **122 Nm** |
| Rated current (460 V, 60 Hz) | **26 A** |
| Power factor (60 Hz) | **0.79** |
| Efficiency 4/4 \| 3/4 \| 2/4 (60 Hz) | **91.7 \| 92 \| 91.4 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N (60 Hz) | **6.8 \| 2.5 \| 3** |
| Moment of inertia J | **0.19 kgm2** |
| Sound pressure / power LpfA \| LWA (60 Hz) | **61 \| 68 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1543, p. 2/59 (PDF 177)** |

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# Data sheet

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

**1LE1543-1EC43-4FA4**

# 15 kW / 1000 rpm

Frame 180 L | 6 poles | IM B5 | Article No. 1LE1543-1EC43-4FA4

## GENERAL DATA

| | |
|---|---|
| Series / efficiency class | **1LE1543 / IE3** |
| Housing | **Cast iron** |
| Frame size | **180 L** |
| Poles | **6** |
| Degree of protection | **IP55** |
| Duty type | **S1** |
| Insulation | **Thermal class 155 (F), utilized to 130 (B)** |
| Voltage | **400 D / 690 Y V (50 Hz)** |
| Net weight (IM B3) | **180 kg** |

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

| | |
|---|---|
| Rated power (P50 rating) | **15 kW (about 20 HP)** |
| Rated power (P60 rating) | **18 kW** |
| Rated speed (60 Hz) | **1178 rpm** |
| Rated torque (60 Hz) | **122 Nm** |
| Rated current (460 V, 60 Hz) | **26 A** |
| Power factor (60 Hz) | **0.79** |
| Efficiency 4/4 \| 3/4 \| 2/4 (60 Hz) | **91.7 \| 92 \| 91.4 %** |
| I_LR/I_N \| T_LR/T_N \| T_B/T_N (60 Hz) | **6.8 \| 2.5 \| 3** |
| Moment of inertia J | **0.19 kgm2** |
| Sound pressure / power LpfA \| LWA (60 Hz) | **61 \| 68 dB(A)** |

## SOURCE OF DATA

| | |
|---|---|
| Catalog 1 | **Catalog D 81.1 (05/2018), table 1LE1543, p. 2/59 (PDF 177)** |

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