Data sheets - Siemens SIMOTICS GP motors

22 kW / 1000 rpm - 24 article numbers in this file

Article No.	Page
1LE1001-2AC53-4AA4	2
1LE1001-2AC53-4FA4	3
1LE1002-2AC53-4AA4	4
1LE1002-2AC53-4FA4	5
1LE1003-2AC53-4AA4	6
1LE1003-2AC53-4FA4	7
1LE1043-2AC53-4AA4	8
1LE1043-2AC53-4FA4	9
1LE0102-2AC53-4AA4	10
1LE0102-2AC53-4FA4	11
1LE0102-2AC54-1AA4	12
1LE0102-2AC54-1FA4	13
1LE1501-2AC53-4AA4	14
1LE1501-2AC53-4FA4	15
1LE1502-2AC53-4FA4	16
1LE1541-2AC53-4FA4	17
1LE0101-2AC53-4AB4	18
1LE0101-2AC53-4FB4	19
1LE0101-2AC54-1AB4	20
1LE0101-2AC54-1FB4	21
1LE1503-2AC53-4AA4	22
1LE1503-2AC53-4FA4	23
1LE1543-2AC53-4AA4	24
1LE1543-2AC53-4FA4	25

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Data sheet

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

1LE1001-2AC53-4AA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE1001-2AC53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**200 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)	**173 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**978 rpm**
Rated torque	**215 Nm**
Rated current	**42.5 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.7 | 91.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.2 | 2.5 | 2.6**
Moment of inertia J	**0.3 kgm2**
Sound pressure / power LpfA | LWA	**63 | 76 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)

1LE1001-2AC53-4FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE1001-2AC53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**200 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)	**173 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**978 rpm**
Rated torque	**215 Nm**
Rated current	**42.5 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.7 | 91.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.2 | 2.5 | 2.6**
Moment of inertia J	**0.3 kgm2**
Sound pressure / power LpfA | LWA	**63 | 76 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 1LE1002 (IE1)

1LE1002-2AC53-4AA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE1002-2AC53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**200 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)	**166 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**980 rpm**
Rated torque	**214 Nm**
Rated current	**45 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**89.2 | 90 | 89.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.8 | 2.9**
Moment of inertia J	**0.3 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 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)

1LE1002-2AC53-4FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE1002-2AC53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**200 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)	**166 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**980 rpm**
Rated torque	**214 Nm**
Rated current	**45 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**89.2 | 90 | 89.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.8 | 2.9**
Moment of inertia J	**0.3 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 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 1LE1003 (IE3)

1LE1003-2AC53-4AA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE1003-2AC53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**200 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)	**179 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**978 rpm**
Rated torque	**215 Nm**
Rated current	**43.5 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**92.2 | 92.8 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2.5 | 2.6**
Moment of inertia J	**0.32 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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Data sheet

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

1LE1003-2AC53-4FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE1003-2AC53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**200 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)	**179 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**978 rpm**
Rated torque	**215 Nm**
Rated current	**43.5 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**92.2 | 92.8 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2.5 | 2.6**
Moment of inertia J	**0.32 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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Data sheet

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

1LE1043-2AC53-4AA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE1043-2AC53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**200 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)	**179 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**26.5 kW**
Rated speed (60 Hz)	**1180 rpm**
Rated torque (60 Hz)	**178 Nm**
Rated current (460 V, 60 Hz)	**37.5 A**
Power factor (60 Hz)	**0.79**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 93.5 | 93.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**6.3 | 2.6 | 2.8**
Moment of inertia J	**0.32 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**63 | 70 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)

1LE1043-2AC53-4FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE1043-2AC53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**200 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)	**179 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**26.5 kW**
Rated speed (60 Hz)	**1180 rpm**
Rated torque (60 Hz)	**178 Nm**
Rated current (460 V, 60 Hz)	**37.5 A**
Power factor (60 Hz)	**0.79**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 93.5 | 93.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**6.3 | 2.6 | 2.8**
Moment of inertia J	**0.32 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**63 | 70 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 1LE0102 (IE1)

1LE0102-2AC53-4AA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE0102-2AC53-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**200 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)	**237 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**975 rpm**
Rated torque	**215 Nm**
Rated current	**43 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**89.2 | 90.5 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.3 | 2.8**
Moment of inertia J	**0.31 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)

1LE0102-2AC53-4FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE0102-2AC53-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**200 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)	**237 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**975 rpm**
Rated torque	**215 Nm**
Rated current	**43 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**89.2 | 90.5 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.3 | 2.8**
Moment of inertia J	**0.31 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)

1LE0102-2AC54-1AA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE0102-2AC54-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**200 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)	**237 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**975 rpm**
Rated torque	**215 Nm**
Rated current	**33 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**89.2 | 90.5 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.3 | 2.8**
Moment of inertia J	**0.31 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)

1LE0102-2AC54-1FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE0102-2AC54-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**200 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)	**237 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**975 rpm**
Rated torque	**215 Nm**
Rated current	**33 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**89.2 | 90.5 | 90.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.3 | 2.8**
Moment of inertia J	**0.31 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)

1LE1501-2AC53-4AA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE1501-2AC53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**200 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)	**220 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**978 rpm**
Rated torque	**215 Nm**
Rated current	**42.5 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.7 | 91.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.2 | 2.5 | 2.6**
Moment of inertia J	**0.3 kgm2**
Sound pressure / power LpfA | LWA	**63 | 76 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)

1LE1501-2AC53-4FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE1501-2AC53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**200 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)	**220 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**978 rpm**
Rated torque	**215 Nm**
Rated current	**42.5 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.7 | 91.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.2 | 2.5 | 2.6**
Moment of inertia J	**0.3 kgm2**
Sound pressure / power LpfA | LWA	**63 | 76 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 1LE1502 (IE1)

1LE1502-2AC53-4FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE1502-2AC53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**200 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)	**220 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**980 rpm**
Rated torque	**214 Nm**
Rated current	**45 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**89.2 | 90 | 89.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.8 | 2.9**
Moment of inertia J	**0.3 kgm2**
Sound pressure / power LpfA | LWA	**59 | 72 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 1LE1541 (IE2)

1LE1541-2AC53-4FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE1541-2AC53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**200 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)	**220 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**26.5 kW**
Rated speed (60 Hz)	**1182 rpm**
Rated torque (60 Hz)	**178 Nm**
Rated current (460 V, 60 Hz)	**37 A**
Power factor (60 Hz)	**0.81**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**91.7 | 92.1 | 91.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.4 | 3 | 3**
Moment of inertia J	**0.3 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**66 | 79 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 1LE0101 (IE2)

1LE0101-2AC53-4AB4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE0101-2AC53-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**200 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)	**240 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**975 rpm**
Rated torque	**215 Nm**
Rated current	**43 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.4 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.3 | 2.8**
Moment of inertia J	**0.32 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)

1LE0101-2AC53-4FB4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE0101-2AC53-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**200 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)	**240 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**975 rpm**
Rated torque	**215 Nm**
Rated current	**43 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.4 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.3 | 2.8**
Moment of inertia J	**0.32 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)

1LE0101-2AC54-1AB4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE0101-2AC54-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**200 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)	**240 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**975 rpm**
Rated torque	**215 Nm**
Rated current	**32.5 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.4 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.3 | 2.8**
Moment of inertia J	**0.32 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 1LE0101 (IE2)

1LE0101-2AC54-1FB4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE0101-2AC54-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**200 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)	**240 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**26.5 kW**
Rated speed (50 Hz)	**975 rpm**
Rated torque	**215 Nm**
Rated current	**32.5 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**90.9 | 91.4 | 91.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.5 | 2.3 | 2.8**
Moment of inertia J	**0.32 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 1LE1503 (IE3)

1LE1503-2AC53-4AA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE1503-2AC53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**200 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)	**230 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**978 rpm**
Rated torque	**215 Nm**
Rated current	**43.5 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**92.2 | 92.8 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2.5 | 2.6**
Moment of inertia J	**0.32 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)

1LE1503-2AC53-4FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE1503-2AC53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**200 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)	**230 kg**

ELECTRICAL DATA

Rated power 50 Hz	**22 kW (about 30 HP)**
Rated power 60 Hz	**not listed (catalog 09/2023)**
Rated speed (50 Hz)	**978 rpm**
Rated torque	**215 Nm**
Rated current	**43.5 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**92.2 | 92.8 | 92.3 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2.5 | 2.6**
Moment of inertia J	**0.32 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 1LE1543 (IE3)

1LE1543-2AC53-4AA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B3 | Article No. 1LE1543-2AC53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**200 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)	**230 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**26.5 kW**
Rated speed (60 Hz)	**1180 rpm**
Rated torque (60 Hz)	**178 Nm**
Rated current (460 V, 60 Hz)	**37.5 A**
Power factor (60 Hz)	**0.79**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 93.5 | 93.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**6.3 | 2.6 | 2.8**
Moment of inertia J	**0.32 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**63 | 70 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)

1LE1543-2AC53-4FA4

22 kW / 1000 rpm

Frame 200 L | 6 poles | IM B5 | Article No. 1LE1543-2AC53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**200 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)	**230 kg**

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

Rated power (P50 rating)	**22 kW (about 30 HP)**
Rated power (P60 rating)	**26.5 kW**
Rated speed (60 Hz)	**1180 rpm**
Rated torque (60 Hz)	**178 Nm**
Rated current (460 V, 60 Hz)	**37.5 A**
Power factor (60 Hz)	**0.79**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 93.5 | 93.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**6.3 | 2.6 | 2.8**
Moment of inertia J	**0.32 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**63 | 70 dB(A)**

SOURCE OF DATA

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

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