Data sheets - Siemens SIMOTICS GP motors

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Data sheet

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

1LE1001-2AB63-4AA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B3 | Article No. 1LE1001-2AB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**4**
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)	**189 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**69 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.5 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.4 | 3**
Moment of inertia J	**0.246 kgm2**
Sound pressure / power LpfA | LWA	**68 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/30 (PDF 148)**

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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)

1LE1001-2AB63-4FA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B5 | Article No. 1LE1001-2AB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**4**
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)	**189 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**69 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.5 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.4 | 3**
Moment of inertia J	**0.246 kgm2**
Sound pressure / power LpfA | LWA	**68 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/30 (PDF 148)**

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Data sheet

1LE1003-2AB63-4AA4

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

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B3 | Article No. 1LE1003-2AB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**4**
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)	**205 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**240 Nm**
Rated current (400 V)	**70 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**93.9 | 94.0 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 3.1 | 3.5**
Moment of inertia J	**0.275 kgm2**
Sound pressure / power LpfA | LWA	**65 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (12/2021), table 1LE1003 (increased power), p. 3/16**

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

Data sheet

1LE1003-2AB63-4FA4

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

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B5 | Article No. 1LE1003-2AB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**4**
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)	**205 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**240 Nm**
Rated current (400 V)	**70 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**93.9 | 94.0 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 3.1 | 3.5**
Moment of inertia J	**0.275 kgm2**
Sound pressure / power LpfA | LWA	**65 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (12/2021), table 1LE1003 (increased power), p. 3/16**

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Data sheet

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

1LE1043-2AB63-4AA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B3 | Article No. 1LE1043-2AB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**4**
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)	**205 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**42.5 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**198 Nm**
Rated current (460 V, 60 Hz)	**61 A**
Power factor (60 Hz)	**0.8**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.7 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9 | 3.3 | 4**
Moment of inertia J	**0.275 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**70 | 77 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/56 (PDF 174)**

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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)

1LE1043-2AB63-4FA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B5 | Article No. 1LE1043-2AB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**4**
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)	**205 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**42.5 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**198 Nm**
Rated current (460 V, 60 Hz)	**61 A**
Power factor (60 Hz)	**0.8**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.7 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9 | 3.3 | 4**
Moment of inertia J	**0.275 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**70 | 77 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/56 (PDF 174)**

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Data sheet

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

1LE0102-2BB03-4AA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B3 | Article No. 1LE0102-2BB03-4AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**295 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**68 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.3 | 2.8**
Moment of inertia J	**0.44 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 21 (PDF 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 1LE0102 (IE1)

1LE0102-2BB03-4FA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B5 | Article No. 1LE0102-2BB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**295 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**68 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.3 | 2.8**
Moment of inertia J	**0.44 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 21 (PDF 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 1LE0102 (IE1)

1LE0102-2BB04-1AA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B3 | Article No. 1LE0102-2BB04-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**295 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**52 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.3 | 2.8**
Moment of inertia J	**0.44 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 26 (PDF 26)**

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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)

1LE0102-2BB04-1FA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B5 | Article No. 1LE0102-2BB04-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**295 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**52 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 91.8 | 91 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.3 | 2.8**
Moment of inertia J	**0.44 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0102, p. 26 (PDF 26)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1502 (IE1)

1LE1502-2AB63-4AA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B3 | Article No. 1LE1502-2AB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**4**
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	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**71 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 92 | 92.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.4 | 2.9**
Moment of inertia J	**0.246 kgm2**
Sound pressure / power LpfA | LWA	**64 | 78 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/52 (PDF 170)**

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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)

1LE1502-2AB63-4FA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B5 | Article No. 1LE1502-2AB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**4**
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	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**71 A**
Power factor	**0.82**
Efficiency 4/4 | 3/4 | 2/4	**91.2 | 92 | 92.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 2.4 | 2.9**
Moment of inertia J	**0.246 kgm2**
Sound pressure / power LpfA | LWA	**64 | 78 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/52 (PDF 170)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE0101 (IE2)

1LE0101-2BB03-4AB4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B3 | Article No. 1LE0101-2BB03-4AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**298 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**240 Nm**
Rated current	**67 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.7 | 3.2**
Moment of inertia J	**0.45 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 24 (PDF 24)**

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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)

1LE0101-2BB03-4FB4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B5 | Article No. 1LE0101-2BB03-4FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**298 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**240 Nm**
Rated current	**67 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.7 | 3.2**
Moment of inertia J	**0.45 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 24 (PDF 24)**

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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)

1LE0101-2BB04-1AB4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B3 | Article No. 1LE0101-2BB04-1AB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**298 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**240 Nm**
Rated current	**51 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.7 | 3.2**
Moment of inertia J	**0.45 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 28 (PDF 28)**

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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)

1LE0101-2BB04-1FB4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B5 | Article No. 1LE0101-2BB04-1FB4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**525 V D**
Net weight (IM B3)	**298 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**240 Nm**
Rated current	**51 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.2 | 92.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.3 | 2.7 | 3.2**
Moment of inertia J	**0.45 kgm2**

SOURCE OF DATA

Catalog 1	**Brochure 07/2014 (14050629), table 1LE0101, p. 28 (PDF 28)**

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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)

1LE1501-2BB03-4AA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B3 | Article No. 1LE1501-2BB03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**280 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**65 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.5 | 93.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.6 | 2.3 | 2.9**
Moment of inertia J	**0.42 kgm2**
Sound pressure / power LpfA | LWA	**66 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/33 (PDF 151)**

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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)

1LE1501-2BB03-4FA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B5 | Article No. 1LE1501-2BB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**280 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**65 A**
Power factor	**0.88**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.5 | 93.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.6 | 2.3 | 2.9**
Moment of inertia J	**0.42 kgm2**
Sound pressure / power LpfA | LWA	**66 | 79 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/33 (PDF 151)**

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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)

1LE1501-2AB63-4AA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B3 | Article No. 1LE1501-2AB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**4**
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	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**69 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.5 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.4 | 3**
Moment of inertia J	**0.246 kgm2**
Sound pressure / power LpfA | LWA	**68 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/40 (PDF 158)**

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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)

1LE1501-2AB63-4FA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B5 | Article No. 1LE1501-2AB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**4**
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	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1470 rpm**
Rated torque	**240 Nm**
Rated current	**69 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**92.7 | 93.5 | 93.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 2.4 | 3**
Moment of inertia J	**0.246 kgm2**
Sound pressure / power LpfA | LWA	**68 | 75 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1501, p. 2/40 (PDF 158)**

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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)

1LE1503-2BB03-4AA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B3 | Article No. 1LE1503-2BB03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**285 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1478 rpm**
Rated torque	**239 Nm**
Rated current	**66 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**93.9 | 94.5 | 94.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 2.5 | 2.7**
Moment of inertia J	**0.42 kgm2**
Sound pressure / power LpfA | LWA	**65 | 78 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1503, p. 2/18 (PDF 136)**

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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)

1LE1503-2BB03-4FA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B5 | Article No. 1LE1503-2BB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**285 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1478 rpm**
Rated torque	**239 Nm**
Rated current	**66 A**
Power factor	**0.86**
Efficiency 4/4 | 3/4 | 2/4	**93.9 | 94.5 | 94.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 2.5 | 2.7**
Moment of inertia J	**0.42 kgm2**
Sound pressure / power LpfA | LWA	**65 | 78 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1503, p. 2/18 (PDF 136)**

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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)

1LE1541-2BB03-4FA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B5 | Article No. 1LE1541-2BB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**280 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**42.5 kW**
Rated speed (60 Hz)	**1778 rpm**
Rated torque (60 Hz)	**199 Nm**
Rated current (460 V, 60 Hz)	**57 A**
Power factor (60 Hz)	**0.87**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 93.2 | 92.5 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.2 | 2.7 | 3.3**
Moment of inertia J	**0.42 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**69 | 82 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1541, p. 2/68 (PDF 186)**

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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 1LE1541 (IE2)

1LE1541-2AB63-4FA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B5 | Article No. 1LE1541-2AB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1541 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**4**
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 - CATALOG VALUES AT 60 HZ (APAC LINE)

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**42.5 kW**
Rated speed (60 Hz)	**1775 rpm**
Rated torque (60 Hz)	**199 Nm**
Rated current (460 V, 60 Hz)	**59 A**
Power factor (60 Hz)	**0.84**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**93 | 93.4 | 93.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 2.6 | 3.3**
Moment of inertia J	**0.246 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**71 | 78 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1541, p. 2/70 (PDF 188)**

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Data sheet

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

1LE1543-2BB03-4AA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B3 | Article No. 1LE1543-2BB03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**285 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**42.5 kW**
Rated speed (60 Hz)	**1782 rpm**
Rated torque (60 Hz)	**198 Nm**
Rated current (460 V, 60 Hz)	**58 A**
Power factor (60 Hz)	**0.85**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.7 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.5 | 2.8 | 3**
Moment of inertia J	**0.42 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**66 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/58 (PDF 176)**

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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)

1LE1543-2BB03-4FA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B5 | Article No. 1LE1543-2BB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**285 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**42.5 kW**
Rated speed (60 Hz)	**1782 rpm**
Rated torque (60 Hz)	**198 Nm**
Rated current (460 V, 60 Hz)	**58 A**
Power factor (60 Hz)	**0.85**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.7 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.5 | 2.8 | 3**
Moment of inertia J	**0.42 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**66 | 80 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/58 (PDF 176)**

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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 1LE1503 (IE3)

1LE1503-2AB63-4AA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B3 | Article No. 1LE1503-2AB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**4**
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)	**260 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**240 Nm**
Rated current	**70 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**93.9 | 94.3 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 3.1 | 3.5**
Moment of inertia J	**0.275 kgm2**
Sound pressure / power LpfA | LWA	**65 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1503, p. 2/24 (PDF 142)**

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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)

1LE1503-2AB63-4FA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B5 | Article No. 1LE1503-2AB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**4**
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)	**260 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1475 rpm**
Rated torque	**240 Nm**
Rated current	**70 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**93.9 | 94.3 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.1 | 3.1 | 3.5**
Moment of inertia J	**0.275 kgm2**
Sound pressure / power LpfA | LWA	**65 | 72 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1503, p. 2/24 (PDF 142)**

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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)

1LE1543-2AB63-4AA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B3 | Article No. 1LE1543-2AB63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**4**
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)	**258 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**42.5 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**198 Nm**
Rated current (460 V, 60 Hz)	**61 A**
Power factor (60 Hz)	**0.8**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.7 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9 | 3.3 | 4**
Moment of inertia J	**0.275 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**70 | 77 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/63 (PDF 181)**

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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)

1LE1543-2AB63-4FA4

37 kW / 1500 rpm

Frame 200 L | 4 poles | IM B5 | Article No. 1LE1543-2AB63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**4**
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)	**258 kg**

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

Rated power (P50 rating)	**37 kW (about 50 HP)**
Rated power (P60 rating)	**42.5 kW**
Rated speed (60 Hz)	**1780 rpm**
Rated torque (60 Hz)	**198 Nm**
Rated current (460 V, 60 Hz)	**61 A**
Power factor (60 Hz)	**0.8**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**94.5 | 94.7 | 94.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**9 | 3.3 | 4**
Moment of inertia J	**0.275 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**70 | 77 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1543, p. 2/63 (PDF 181)**

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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 1LE1504 (IE4)

1LE1504-2BB03-4AA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B3 | Article No. 1LE1504-2BB03-4AA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**345 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1485 rpm**
Rated torque	**238 Nm**
Rated current	**67 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**95.2 | 95.5 | 95.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.4 | 3.2 | 3.2**
Moment of inertia J	**0.52 kgm2**
Sound pressure / power LpfA | LWA	**69 | 83 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1504, p. 2/10 (PDF 128)**

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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 1LE1504 (IE4)

1LE1504-2BB03-4FA4

37 kW / 1500 rpm

Frame 225 S | 4 poles | IM B5 | Article No. 1LE1504-2BB03-4FA4

GENERAL DATA

Series / efficiency class	**1LE1504 / IE4**
Housing	**Cast iron**
Frame size	**225 S**
Poles	**4**
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)	**345 kg**

ELECTRICAL DATA

Rated power 50 Hz	**37 kW (about 50 HP)**
Rated power 60 Hz	**42.5 kW**
Rated speed (50 Hz)	**1485 rpm**
Rated torque	**238 Nm**
Rated current	**67 A**
Power factor	**0.84**
Efficiency 4/4 | 3/4 | 2/4	**95.2 | 95.5 | 95.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**8.4 | 3.2 | 3.2**
Moment of inertia J	**0.52 kgm2**
Sound pressure / power LpfA | LWA	**69 | 83 dB(A)**

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