Data sheets - Siemens SIMOTICS GP motors

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Data sheet

1LE1502-2AD53-4AA4

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

15 kW / 750 rpm

Frame size 200 L | Article No. 1LE1502-2AD53-4AA4 | mounting IM B3

GENERAL DATA

Motor series	**1LE1502 Basic Line (cast iron)**
Article No.	**1LE1502-2AD53-4AA4**
Frame size	**200 L**
Number of poles	**8**
Housing material	**Cast iron**
Degree of protection	**IP55**
Cooling	**Self-ventilated (IC 411)**
Insulation / utilization	**Thermal class 155 (F) / utilized to 130 (B)**
Duty type	**S1 (continuous duty)**
Rotor	**Squirrel-cage**
Efficiency class (IEC 60034-30)	**IE1**
Voltage / connection	**400 V Δ / 690 V Y (50 Hz), 460 V Δ (60 Hz)**
Type of construction	**IM B3 (basic type, without flange)**
Net weight (IM B3)	**220 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**15 kW (20 HP)**
Rated speed, 50 Hz	**718 rpm (synchronous 750 rpm)**
Rated torque	**199 Nm**
Rated current at 400 V	**33.5 A**
Power factor cos φ	**0.75**
Efficiency at 4/4 | 3/4 | 2/4 load	**86.2 | 87.9 | 88.4 %**
Locked-rotor current ratio (I_LR/I_N)	**5.5**
Locked-rotor torque ratio (T_LR/T_N)	**2.5**
Breakdown torque ratio (T_B/T_N)	**2.9**
Moment of inertia J	**0.3 kgm²**
Sound pressure level LpfA (50 Hz)	**55 dB(A)**
Sound power level LWA (50 Hz)	**69 dB(A)**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**18 kW**
Synchronous speed at 60 Hz	**900 rpm**
Speed / efficiency / current at 60 Hz	**not listed in the catalog (DT Configurator)**

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Source: Siemens Catalog D 81.1 (05/2018), p. 2/51. Dimensions: see the same catalog.
Compiled from the manufacturer's catalog data for reference. It is not an official Siemens document - verify against the current Siemens data sheet before ordering.
Data at rated power, 400 V / 50 Hz, ambient 40 °C, altitude up to 1000 m.

Data sheet

1LE1502-2AD53-4FA4

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

15 kW / 750 rpm

Frame size 200 L | Article No. 1LE1502-2AD53-4FA4 | mounting IM B5

GENERAL DATA

Motor series	**1LE1502 Basic Line (cast iron)**
Article No.	**1LE1502-2AD53-4FA4**
Frame size	**200 L**
Number of poles	**8**
Housing material	**Cast iron**
Degree of protection	**IP55**
Cooling	**Self-ventilated (IC 411)**
Insulation / utilization	**Thermal class 155 (F) / utilized to 130 (B)**
Duty type	**S1 (continuous duty)**
Rotor	**Squirrel-cage**
Efficiency class (IEC 60034-30)	**IE1**
Voltage / connection	**400 V Δ / 690 V Y (50 Hz), 460 V Δ (60 Hz)**
Type of construction	**IM B5 (flange)**
Net weight (IM B3)	**220 kg**

ELECTRICAL DATA - 400 V, 50 HZ

Rated power, 50 Hz	**15 kW (20 HP)**
Rated speed, 50 Hz	**718 rpm (synchronous 750 rpm)**
Rated torque	**199 Nm**
Rated current at 400 V	**33.5 A**
Power factor cos φ	**0.75**
Efficiency at 4/4 | 3/4 | 2/4 load	**86.2 | 87.9 | 88.4 %**
Locked-rotor current ratio (I_LR/I_N)	**5.5**
Locked-rotor torque ratio (T_LR/T_N)	**2.5**
Breakdown torque ratio (T_B/T_N)	**2.9**
Moment of inertia J	**0.3 kgm²**
Sound pressure level LpfA (50 Hz)	**55 dB(A)**
Sound power level LWA (50 Hz)	**69 dB(A)**

60 HZ OPERATION

Rated power at 60 Hz (460 V)	**18 kW**
Synchronous speed at 60 Hz	**900 rpm**
Speed / efficiency / current at 60 Hz	**not listed in the catalog (DT Configurator)**

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Data at rated power, 400 V / 50 Hz, ambient 40 °C, altitude up to 1000 m.

Data sheet

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

1LE1001-1ED63-4AA4

15 kW / 750 rpm

Frame 180 L | 8 poles | IM B3 | Article No. 1LE1001-1ED63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**180 L**
Poles	**8**
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)	**151 kg**

ELECTRICAL DATA

Rated power 50 Hz	**15 kW (about 20 HP)**
Rated power 60 Hz	**18 kW**
Rated speed (50 Hz)	**720 rpm**
Rated torque	**199 Nm**
Rated current	**33.5 A**
Power factor	**0.73**
Efficiency 4/4 | 3/4 | 2/4	**88 | 89.2 | 89 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.9 | 2.2 | 2.5**
Moment of inertia J	**0.263 kgm2**
Sound pressure / power LpfA | LWA	**67 | 75 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)

1LE1001-1ED63-4FA4

15 kW / 750 rpm

Frame 180 L | 8 poles | IM B5 | Article No. 1LE1001-1ED63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**180 L**
Poles	**8**
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)	**151 kg**

ELECTRICAL DATA

Rated power 50 Hz	**15 kW (about 20 HP)**
Rated power 60 Hz	**18 kW**
Rated speed (50 Hz)	**720 rpm**
Rated torque	**199 Nm**
Rated current	**33.5 A**
Power factor	**0.73**
Efficiency 4/4 | 3/4 | 2/4	**88 | 89.2 | 89 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.9 | 2.2 | 2.5**
Moment of inertia J	**0.263 kgm2**
Sound pressure / power LpfA | LWA	**67 | 75 dB(A)**

SOURCE OF DATA

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

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Data sheet

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

1LE1002-2AD53-4AA4

15 kW / 750 rpm

Frame 200 L | 8 poles | IM B3 | Article No. 1LE1002-2AD53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**8**
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)	**718 rpm**
Rated torque	**199 Nm**
Rated current	**33.5 A**
Power factor	**0.75**
Efficiency 4/4 | 3/4 | 2/4	**86.2 | 87.9 | 88.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.5 | 2.5 | 2.9**
Moment of inertia J	**0.3 kgm2**
Sound pressure / power LpfA | LWA	**55 | 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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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

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

1LE1002-2AD53-4FA4

15 kW / 750 rpm

Frame 200 L | 8 poles | IM B5 | Article No. 1LE1002-2AD53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**8**
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)	**718 rpm**
Rated torque	**199 Nm**
Rated current	**33.5 A**
Power factor	**0.75**
Efficiency 4/4 | 3/4 | 2/4	**86.2 | 87.9 | 88.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.5 | 2.5 | 2.9**
Moment of inertia J	**0.3 kgm2**
Sound pressure / power LpfA | LWA	**55 | 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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60 Hz speed/efficiency are not listed in the catalogs (see Siemens DT Configurator).

Data sheet

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

1LE1001-2AD53-4AA4

15 kW / 750 rpm

Frame 200 L | 8 poles | IM B3 | Article No. 1LE1001-2AD53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**8**
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)	**172 kg**

ELECTRICAL DATA

Rated power 50 Hz	**15 kW (about 20 HP)**
Rated power 60 Hz	**18 kW**
Rated speed (50 Hz)	**718 rpm**
Rated torque	**199 Nm**
Rated current	**32.5 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**88 | 89.5 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.4 | 2.4 | 2.8**
Moment of inertia J	**0.344 kgm2**
Sound pressure / power LpfA | LWA	**58 | 65 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1001-2AD53-4FA4

15 kW / 750 rpm

Frame 200 L | 8 poles | IM B5 | Article No. 1LE1001-2AD53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**8**
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)	**172 kg**

ELECTRICAL DATA

Rated power 50 Hz	**15 kW (about 20 HP)**
Rated power 60 Hz	**18 kW**
Rated speed (50 Hz)	**718 rpm**
Rated torque	**199 Nm**
Rated current	**32.5 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**88 | 89.5 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.4 | 2.4 | 2.8**
Moment of inertia J	**0.344 kgm2**
Sound pressure / power LpfA | LWA	**58 | 65 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1003-2AD53-4AA4

15 kW / 750 rpm

Frame 200 L | 8 poles | IM B3 | Article No. 1LE1003-2AD53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**8**
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)	**212 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)	**730 rpm**
Rated torque	**196 Nm**
Rated current	**33.5 A**
Power factor	**0.73**
Efficiency 4/4 | 3/4 | 2/4	**89.6 | 90.1 | 89.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 3 | 3.7**
Moment of inertia J	**0.42 kgm2**
Sound pressure / power LpfA | LWA	**57 | 70 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/16**

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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)

1LE1003-2AD53-4FA4

15 kW / 750 rpm

Frame 200 L | 8 poles | IM B5 | Article No. 1LE1003-2AD53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**200 L**
Poles	**8**
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)	**212 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)	**730 rpm**
Rated torque	**196 Nm**
Rated current	**33.5 A**
Power factor	**0.73**
Efficiency 4/4 | 3/4 | 2/4	**89.6 | 90.1 | 89.4 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.8 | 3 | 3.7**
Moment of inertia J	**0.42 kgm2**
Sound pressure / power LpfA | LWA	**57 | 70 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (09/2023), table 1LE1003, p. 3/16**

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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)

1LE1501-1ED63-4AA4

15 kW / 750 rpm

Frame 180 L | 8 poles | IM B3 | Article No. 1LE1501-1ED63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**180 L**
Poles	**8**
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)	**190 kg**

ELECTRICAL DATA

Rated power 50 Hz	**15 kW (about 20 HP)**
Rated power 60 Hz	**18 kW**
Rated speed (50 Hz)	**720 rpm**
Rated torque	**199 Nm**
Rated current	**33.5 A**
Power factor	**0.73**
Efficiency 4/4 | 3/4 | 2/4	**88 | 89.2 | 89 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.9 | 2.2 | 2.5**
Moment of inertia J	**0.263 kgm2**
Sound pressure / power LpfA | LWA	**67 | 75 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)

1LE1501-1ED63-4FA4

15 kW / 750 rpm

Frame 180 L | 8 poles | IM B5 | Article No. 1LE1501-1ED63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**180 L**
Poles	**8**
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)	**190 kg**

ELECTRICAL DATA

Rated power 50 Hz	**15 kW (about 20 HP)**
Rated power 60 Hz	**18 kW**
Rated speed (50 Hz)	**720 rpm**
Rated torque	**199 Nm**
Rated current	**33.5 A**
Power factor	**0.73**
Efficiency 4/4 | 3/4 | 2/4	**88 | 89.2 | 89 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.9 | 2.2 | 2.5**
Moment of inertia J	**0.263 kgm2**
Sound pressure / power LpfA | LWA	**67 | 75 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)

1LE1502-1ED63-4AA4

15 kW / 750 rpm

Frame 180 L | 8 poles | IM B3 | Article No. 1LE1502-1ED63-4AA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**180 L**
Poles	**8**
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)	**190 kg**

ELECTRICAL DATA

Rated power 50 Hz	**15 kW (about 20 HP)**
Rated power 60 Hz	**18 kW**
Rated speed (50 Hz)	**718 rpm**
Rated torque	**199 Nm**
Rated current	**34 A**
Power factor	**0.74**
Efficiency 4/4 | 3/4 | 2/4	**86.2 | 87.5 | 87.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.7 | 2.1 | 2.3**
Moment of inertia J	**0.263 kgm2**
Sound pressure / power LpfA | LWA	**64 | 78 dB(A)**

SOURCE OF DATA

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

1LE1502-1ED63-4FA4

15 kW / 750 rpm

Frame 180 L | 8 poles | IM B5 | Article No. 1LE1502-1ED63-4FA4

GENERAL DATA

Series / efficiency class	**1LE1502 / IE1**
Housing	**Cast iron**
Frame size	**180 L**
Poles	**8**
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)	**190 kg**

ELECTRICAL DATA

Rated power 50 Hz	**15 kW (about 20 HP)**
Rated power 60 Hz	**18 kW**
Rated speed (50 Hz)	**718 rpm**
Rated torque	**199 Nm**
Rated current	**34 A**
Power factor	**0.74**
Efficiency 4/4 | 3/4 | 2/4	**86.2 | 87.5 | 87.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.7 | 2.1 | 2.3**
Moment of inertia J	**0.263 kgm2**
Sound pressure / power LpfA | LWA	**64 | 78 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1502, p. 2/53 (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 1LE1501 (IE2)

1LE1501-2AD53-4AA4

15 kW / 750 rpm

Frame 200 L | 8 poles | IM B3 | Article No. 1LE1501-2AD53-4AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**8**
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	**15 kW (about 20 HP)**
Rated power 60 Hz	**18 kW**
Rated speed (50 Hz)	**718 rpm**
Rated torque	**199 Nm**
Rated current	**32.5 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**88 | 89.5 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.4 | 2.4 | 2.8**
Moment of inertia J	**0.344 kgm2**
Sound pressure / power LpfA | LWA	**58 | 65 dB(A)**

SOURCE OF DATA

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

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

Data sheet

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

1LE1501-2AD53-4FA4

15 kW / 750 rpm

Frame 200 L | 8 poles | IM B5 | Article No. 1LE1501-2AD53-4FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**200 L**
Poles	**8**
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	**15 kW (about 20 HP)**
Rated power 60 Hz	**18 kW**
Rated speed (50 Hz)	**718 rpm**
Rated torque	**199 Nm**
Rated current	**32.5 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**88 | 89.5 | 89.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.4 | 2.4 | 2.8**
Moment of inertia J	**0.344 kgm2**
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