Data sheets - Siemens SIMOTICS GP motors

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Data sheet

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

1LE1002-0EB42-2AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE1002-0EB42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**15 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1410 rpm**
Rated torque	**10 Nm**
Rated current	**3.35 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77.8 | 75.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.7 | 2.4 | 2.6**
Moment of inertia J	**0.0033 kgm2**
Sound pressure / power LpfA | LWA	**61 | 68 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/45 (PDF 163)**

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Data sheet

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

1LE1002-0EB42-2FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE1002-0EB42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**15 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1410 rpm**
Rated torque	**10 Nm**
Rated current	**3.35 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77.8 | 75.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.7 | 2.4 | 2.6**
Moment of inertia J	**0.0033 kgm2**
Sound pressure / power LpfA | LWA	**61 | 68 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/45 (PDF 163)**

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Data sheet

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

1LE1002-0EB42-2KA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B14 | Article No. 1LE1002-0EB42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1002 / IE1**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**15 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1410 rpm**
Rated torque	**10 Nm**
Rated current	**3.35 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77.8 | 75.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**4.7 | 2.4 | 2.6**
Moment of inertia J	**0.0033 kgm2**
Sound pressure / power LpfA | LWA	**61 | 68 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1002, p. 2/45 (PDF 163)**

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Data sheet

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

1LE1001-0EB42-2AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE1001-0EB42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**16 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**10 Nm**
Rated current	**3.3 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 83.5 | 82.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 2.6 | 3.4**
Moment of inertia J	**0.0036 kgm2**
Sound pressure / power LpfA | LWA	**56 | 68 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/27 (PDF 145)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 19)**

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Data sheet

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

1LE1001-0EB42-2FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE1001-0EB42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**16 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**10 Nm**
Rated current	**3.3 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 83.5 | 82.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 2.6 | 3.4**
Moment of inertia J	**0.0036 kgm2**
Sound pressure / power LpfA | LWA	**56 | 68 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/27 (PDF 145)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 19)**

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Data sheet

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

1LE1001-0EB42-2KA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B14 | Article No. 1LE1001-0EB42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1001 / IE2**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**16 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**10 Nm**
Rated current	**3.3 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 83.5 | 82.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 2.6 | 3.4**
Moment of inertia J	**0.0036 kgm2**
Sound pressure / power LpfA | LWA	**56 | 68 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1001, p. 2/27 (PDF 145)**
Catalog 2	**Brochure 07/2014 (14050629), p. 19 (PDF 19)**

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Data sheet

SIMOTICS GP low-voltage motor - series 1LE1041 (IE2)

1LE1041-0EB42-2FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE1041-0EB42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**16 kg**

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

Rated power (P50 rating)	**1.5 kW (about 2 HP)**
Rated power (P60 rating)	**1.75 kW**
Rated speed (60 Hz)	**1745 rpm**
Rated torque (60 Hz)	**8.2 Nm**
Rated current (460 V, 60 Hz)	**3A**
Power factor (60 Hz)	**0.75**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**84 | 84 | 81.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.5 | 2.9 | 4**
Moment of inertia J	**0.0036 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**58 | 70 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1041, p. 2/65 (PDF 183)**

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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)

1LE1041-0EB42-2KA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B14 | Article No. 1LE1041-0EB42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1041 / IE2**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**16 kg**

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

Rated power (P50 rating)	**1.5 kW (about 2 HP)**
Rated power (P60 rating)	**1.75 kW**
Rated speed (60 Hz)	**1745 rpm**
Rated torque (60 Hz)	**8.2 Nm**
Rated current (460 V, 60 Hz)	**3A**
Power factor (60 Hz)	**0.75**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**84 | 84 | 81.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**7.5 | 2.9 | 4**
Moment of inertia J	**0.0036 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**58 | 70 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1041, p. 2/65 (PDF 183)**

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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 1LE1003 (IE3)

1LE1003-0EB42-2AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE1003-0EB42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**19 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1445 rpm**
Rated torque	**10 Nm**
Rated current	**3.15 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**85.3 | 85.9 | 84.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.6**
Moment of inertia J	**0.0049 kgm2**
Sound pressure / power LpfA | LWA	**56 | 68 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/14 (PDF 132)**

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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)

1LE1003-0EB42-2FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE1003-0EB42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**19 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1445 rpm**
Rated torque	**10 Nm**
Rated current	**3.15 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**85.3 | 85.9 | 84.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.6**
Moment of inertia J	**0.0049 kgm2**
Sound pressure / power LpfA | LWA	**56 | 68 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/14 (PDF 132)**

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Data sheet

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

1LE1003-0EB42-2KA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B14 | Article No. 1LE1003-0EB42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1003 / IE3**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**19 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1445 rpm**
Rated torque	**10 Nm**
Rated current	**3.15 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**85.3 | 85.9 | 84.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.6**
Moment of inertia J	**0.0049 kgm2**
Sound pressure / power LpfA | LWA	**56 | 68 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1003, p. 2/14 (PDF 132)**

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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)

1LE1043-0EB42-2AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE1043-0EB42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**19 kg**

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

Rated power (P50 rating)	**1.5 kW (about 2 HP)**
Rated power (P60 rating)	**1.75 kW**
Rated speed (60 Hz)	**1755 rpm**
Rated torque (60 Hz)	**8.2 Nm**
Rated current (460 V, 60 Hz)	**2.85 A**
Power factor (60 Hz)	**0.77**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**86.5 | 86.4 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 4.3**
Moment of inertia J	**0.0049 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**58 | 70 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/54 (PDF 172)**

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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)

1LE1043-0EB42-2FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE1043-0EB42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**19 kg**

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

Rated power (P50 rating)	**1.5 kW (about 2 HP)**
Rated power (P60 rating)	**1.75 kW**
Rated speed (60 Hz)	**1755 rpm**
Rated torque (60 Hz)	**8.2 Nm**
Rated current (460 V, 60 Hz)	**2.85 A**
Power factor (60 Hz)	**0.77**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**86.5 | 86.4 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 4.3**
Moment of inertia J	**0.0049 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**58 | 70 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/54 (PDF 172)**

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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)

1LE1043-0EB42-2KA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B14 | Article No. 1LE1043-0EB42-2KA4

GENERAL DATA

Series / efficiency class	**1LE1043 / IE3**
Housing	**Aluminum**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**19 kg**

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

Rated power (P50 rating)	**1.5 kW (about 2 HP)**
Rated power (P60 rating)	**1.75 kW**
Rated speed (60 Hz)	**1755 rpm**
Rated torque (60 Hz)	**8.2 Nm**
Rated current (460 V, 60 Hz)	**2.85 A**
Power factor (60 Hz)	**0.77**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**86.5 | 86.4 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 4.3**
Moment of inertia J	**0.0049 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**58 | 70 dB(A)**

SOURCE OF DATA

Catalog 1	**Catalog D 81.1 (05/2018), table 1LE1043, p. 2/54 (PDF 172)**

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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)

1LE0102-0EB42-2AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE0102-0EB42-2AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1425 rpm**
Rated torque	**10 Nm**
Rated current	**3.5 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77.3 | 75.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2 | 2.5**
Moment of inertia J	**0.0034 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)

1LE0102-0EB42-2FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE0102-0EB42-2FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1425 rpm**
Rated torque	**10 Nm**
Rated current	**3.5 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77.3 | 75.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2 | 2.5**
Moment of inertia J	**0.0034 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-0EB42-2KA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B14 | Article No. 1LE0102-0EB42-2KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**26 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1425 rpm**
Rated torque	**10 Nm**
Rated current	**3.5 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77.3 | 75.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2 | 2.5**
Moment of inertia J	**0.0034 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0102-0EB44-1AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE0102-0EB44-1AA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**90 L**
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)	**26 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1425 rpm**
Rated torque	**10 Nm**
Rated current	**2.65 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77.3 | 75.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2 | 2.5**
Moment of inertia J	**0.0034 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 1LE0102 (IE1)

1LE0102-0EB44-1FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE0102-0EB44-1FA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**90 L**
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)	**26 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1425 rpm**
Rated torque	**10 Nm**
Rated current	**2.65 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77.3 | 75.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2 | 2.5**
Moment of inertia J	**0.0034 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 1LE0102 (IE1)

1LE0102-0EB44-1KA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B14 | Article No. 1LE0102-0EB44-1KA4

GENERAL DATA

Series / efficiency class	**1LE0102 / IE1**
Housing	**Cast iron**
Frame size	**90 L**
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)	**26 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1425 rpm**
Rated torque	**10 Nm**
Rated current	**2.65 A**
Power factor	**0.81**
Efficiency 4/4 | 3/4 | 2/4	**77.2 | 77.3 | 75.1 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**5.6 | 2 | 2.5**
Moment of inertia J	**0.0034 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 1LE0101 (IE2)

1LE0101-0EB42-2AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE0101-0EB42-2AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1440 rpm**
Rated torque	**9.9 Nm**
Rated current	**3.45 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 82.8 | 80.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.8**
Moment of inertia J	**0.0047 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0101-0EB42-2FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE0101-0EB42-2FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1440 rpm**
Rated torque	**9.9 Nm**
Rated current	**3.45 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 82.8 | 80.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.8**
Moment of inertia J	**0.0047 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0101-0EB42-2KA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B14 | Article No. 1LE0101-0EB42-2KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1440 rpm**
Rated torque	**9.9 Nm**
Rated current	**3.45 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 82.8 | 80.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.8**
Moment of inertia J	**0.0047 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0101-0EB44-1AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE0101-0EB44-1AA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**90 L**
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)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1440 rpm**
Rated torque	**9.9 Nm**
Rated current	**2.6 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 82.8 | 80.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.8**
Moment of inertia J	**0.0047 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)

1LE0101-0EB44-1FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE0101-0EB44-1FA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**90 L**
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)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1440 rpm**
Rated torque	**9.9 Nm**
Rated current	**2.6 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 82.8 | 80.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.8**
Moment of inertia J	**0.0047 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE0101-0EB44-1KA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B14 | Article No. 1LE0101-0EB44-1KA4

GENERAL DATA

Series / efficiency class	**1LE0101 / IE2**
Housing	**Cast iron**
Frame size	**90 L**
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)	**27 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1440 rpm**
Rated torque	**9.9 Nm**
Rated current	**2.6 A**
Power factor	**0.76**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 82.8 | 80.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7 | 3 | 3.8**
Moment of inertia J	**0.0047 kgm2**

SOURCE OF DATA

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

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Data sheet

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

1LE1501-0EB42-2AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE1501-0EB42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**25 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**10 Nm**
Rated current	**3.3 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 83.5 | 82.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 2.6 | 3.4**
Moment of inertia J	**0.0036 kgm2**
Sound pressure / power LpfA | LWA	**56 | 68 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)

1LE1501-0EB42-2FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE1501-0EB42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1501 / IE2**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**25 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1435 rpm**
Rated torque	**10 Nm**
Rated current	**3.3 A**
Power factor	**0.79**
Efficiency 4/4 | 3/4 | 2/4	**82.8 | 83.5 | 82.2 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**6.4 | 2.6 | 3.4**
Moment of inertia J	**0.0036 kgm2**
Sound pressure / power LpfA | LWA	**56 | 68 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 1LE1503 (IE3)

1LE1503-0EB42-2AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE1503-0EB42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**31 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1445 rpm**
Rated torque	**10 Nm**
Rated current	**3.15 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**85.3 | 85.9 | 84.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.6**
Moment of inertia J	**0.0049 kgm2**
Sound pressure / power LpfA | LWA	**56 | 68 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)

1LE1503-0EB42-2FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE1503-0EB42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1503 / IE3**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**31 kg**

ELECTRICAL DATA

Rated power 50 Hz	**1.5 kW (about 2 HP)**
Rated power 60 Hz	**1.75 kW**
Rated speed (50 Hz)	**1445 rpm**
Rated torque	**10 Nm**
Rated current	**3.15 A**
Power factor	**0.8**
Efficiency 4/4 | 3/4 | 2/4	**85.3 | 85.9 | 84.9 %**
I_LR/I_N | T_LR/T_N | T_B/T_N	**7.2 | 2.7 | 3.6**
Moment of inertia J	**0.0049 kgm2**
Sound pressure / power LpfA | LWA	**56 | 68 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 1LE1543 (IE3)

1LE1543-0EB42-2AA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B3 | Article No. 1LE1543-0EB42-2AA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**31 kg**

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

Rated power (P50 rating)	**1.5 kW (about 2 HP)**
Rated power (P60 rating)	**1.75 kW**
Rated speed (60 Hz)	**1755 rpm**
Rated torque (60 Hz)	**8.2 Nm**
Rated current (460 V, 60 Hz)	**2.85 A**
Power factor (60 Hz)	**0.77**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**86.5 | 86.4 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 4.3**
Moment of inertia J	**0.0049 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**58 | 70 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)

1LE1543-0EB42-2FA4

1.5 kW / 1500 rpm

Frame 90 L | 4 poles | IM B5 | Article No. 1LE1543-0EB42-2FA4

GENERAL DATA

Series / efficiency class	**1LE1543 / IE3**
Housing	**Cast iron**
Frame size	**90 L**
Poles	**4**
Degree of protection	**IP55**
Duty type	**S1**
Insulation	**Thermal class 155 (F), utilized to 130 (B)**
Voltage	**230 D / 400 Y V (50 Hz)**
Net weight (IM B3)	**31 kg**

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

Rated power (P50 rating)	**1.5 kW (about 2 HP)**
Rated power (P60 rating)	**1.75 kW**
Rated speed (60 Hz)	**1755 rpm**
Rated torque (60 Hz)	**8.2 Nm**
Rated current (460 V, 60 Hz)	**2.85 A**
Power factor (60 Hz)	**0.77**
Efficiency 4/4 | 3/4 | 2/4 (60 Hz)	**86.5 | 86.4 | 84.6 %**
I_LR/I_N | T_LR/T_N | T_B/T_N (60 Hz)	**8.4 | 3 | 4.3**
Moment of inertia J	**0.0049 kgm2**
Sound pressure / power LpfA | LWA (60 Hz)	**58 | 70 dB(A)**

SOURCE OF DATA

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

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