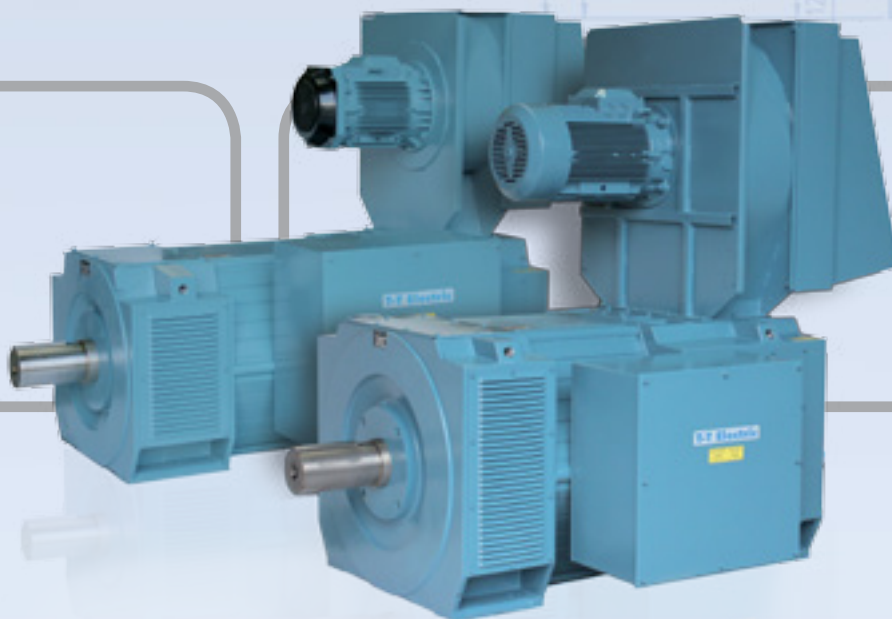


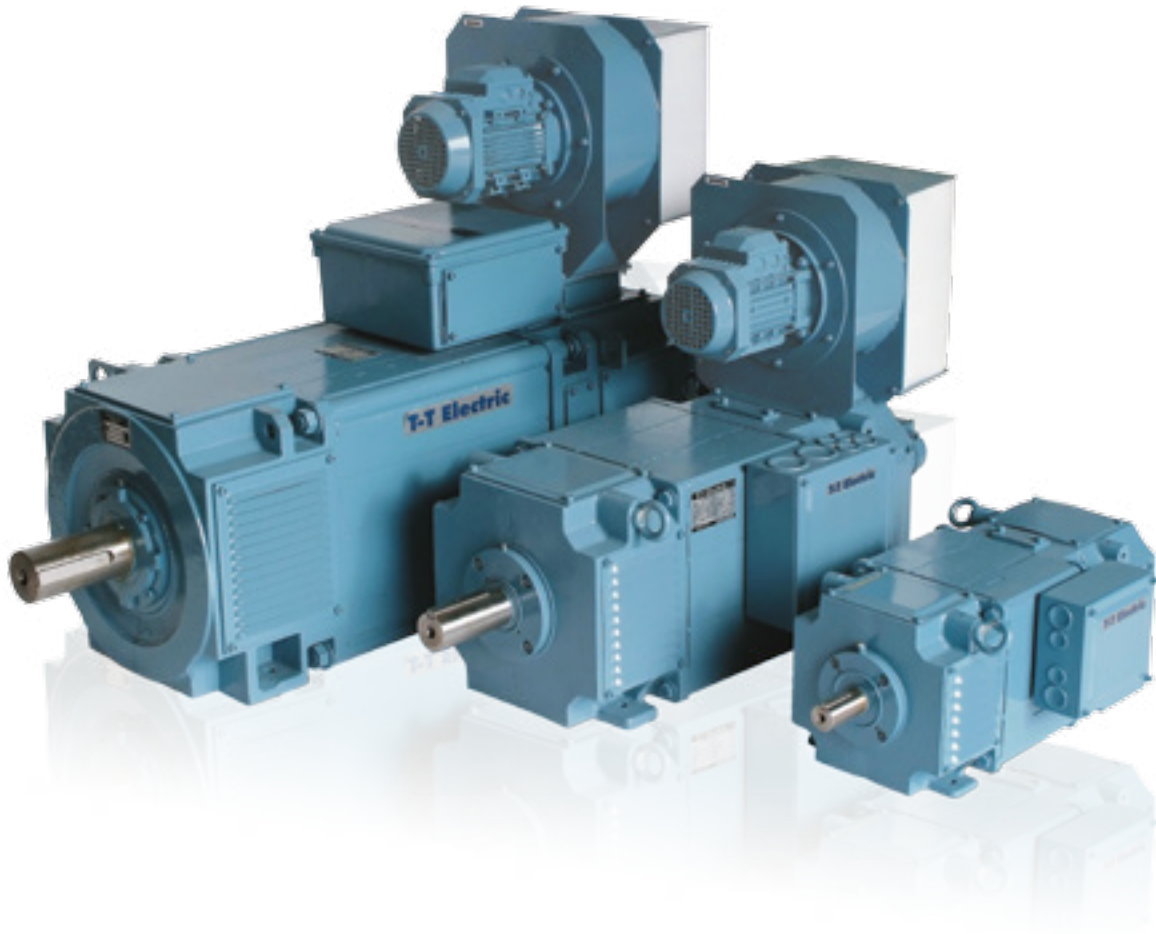
LAK DC Motors

Catalogue-2017/11 EU

LAK 4000-6000
Series 112 - 400
1-1055 kW
1-1415 HP
30-14800 Nm



List of contents



| | |
|--------------------------------------|-------|
| Introduction | p. 4 |
| Options | p. 5 |
| Application data | p. 6 |
| Output data | p. 8 |
| Dimension drawings, IC06..... | p. 54 |
| Dimension drawings, C06/17/37 | p. 57 |
| Dimension drawings, IC666..... | p. 60 |
| Dimension drawings, IC86W..... | p. 62 |
| Dimension drawings, flanges IEC..... | p. 64 |
| Ordering | p.66 |

Introduction

LAK 4000 d.c. motors are fully laminated, 4 pole, square frame.
 Output: 7-500 kW
 Torque: 40-4500 Nm

LAK 6000 D.C. motors are fully laminated, 6 pole, hexagonal frame.
 Power : 121-1055 kW
 Torque : 3874-14800 Nm

LAK 4000 and LAK 6000 motor range:

| Frame size | Core lengths |
|------------|------------------|
| 4112 | A, B |
| 4132 | A, B, C, D |
| 4160 | A, B, C, D |
| 4180 | A, B, C, D, E, F |
| 4200 | A, B, C |
| 4225 | A, B, C |
| 4250 | A, B, C |
| 4280 | A, B, C, D |
| 6315 | A, B, C, D, E |
| 6400 | A, B, C, D, E |

To complete the output range, fully laminated, 2 pole, square frame DC motors are also available.

| Frame size | Core lengths |
|------------|--------------|
| 2112 | MA, LA |
| 2132 | M |

Output: 1-25 kW
 Torque: 30-65 Nm

Type designation example - LAK 4160B:

LAK = Type of motor
 4 = Number of poles
 160 = Centre height in mm
 B = Core length

Basic design characteristics LAK 4000 and LAK 6000

- Fully laminated stator, main poles and interpoles.
- Compact square frame design and hexagonal frame design.
- Easy installation of accessories.
- Large openings in end shields for easy inspection.
- Stator windings of varnish insulated copper wire.
- Laminated armature core of high grade insulated electro-plate.
- Large number of cooling ducts in armature provide excellent cooling.
- Scrambled armature laminations for low torque ripples.
- Armature windings of varnished copper designed for low commutating stresses and high mechanical strength.
- Armature is impregnated to

ensure high degree of heat transfer.

- Brush holders with spring loaded pressure fingers.
- Prepared for a number of options and accessories ensuring high flexibility.
- Painting with excellent corrosion resistant properties.
- Conforms with IEC standards.
- Available as NEMA standard.
- CSA approved.

LAK 6000

- Equipped with compensation winding

Options

| Frame size | LAK | 4112 | 4132 | 4160 | 4180 | 4200 | 4225 | 4250 | 4280 | 6315 | 6400 |
|---|-------------------------------------|------|------|------|------|------|------|------|------|------|------|
| Cooling forms | | | | | | | | | | | |
| IC06 | (IP23) Force ventilated | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IC17 | (IP23) Single pipe ventilated | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IC37 | (IP54) Double pipe ventilated | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IC410 | (IP54) Totally enclosed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| IC416 | (IP54) Totally enclosed, fan cooled | 0 | 0 | 0 | 0 | | | | | | |
| IC666 | (IP54) Air-air cooled | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IC86W | (IP54) Air-water cooled | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>Other cooling forms available</i> | | | | | | | | | | | |
| Protection | | | | | | | | | | | |
| IP55 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mounting forms | | | | | | | | | | | |
| IM1001 | Horizontal foot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IM1002 | Horizontal foot, two shaft ends | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IM2001 | Horizontal foot and flange | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IM2011 | Vertical foot and flange | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>Other mounting forms available</i> | | | | | | | | | | | |
| Modifications and accessories | | | | | | | | | | | |
| Compound winding | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S | S |
| Pressure switch | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temperature sensor, interpole | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temperature sensor, compensating winding | | | | | | | | | | 0 | 0 |
| Temperature sensor, field winding | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bearing sensor | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grounding brush | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heating element | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Brush wear sensor | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special shaft | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Roller bearing d-end | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shaft seal, d-end | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special balance Class 'B' | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special paint (RAL colour) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special corrosion protection | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transparent inspection cover | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Brake | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gearbox | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tachos with coupling | | | | | | | | | | | |
| REO 444RT1 (60v/1000 min ⁻¹) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDP 0.2 T-4 (60v/1000 min ⁻¹) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>Others available</i> | | | | | | | | | | | |
| Pulse generators | | | | | | | | | | | |
| POG 9 D (1-1250 ppr) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DGS65 (1024 ppr) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>Others available</i> | | | | | | | | | | | |

S : special on request

Application data

Standards
IEC 60034-1

Insulation
Class H

Temperature rise
Frames 112-180: Class F
Frames 200-400: Class H

Vibration class and balance
LAK 4000 motors follow IEC 60034-14 with vibration class A as standard. Grade B is available on request. The motors are balanced with half key as standard.

Overload capacity
LAK4112-4280:
160% of nominal torque for 15 sec every 5 min (or for 30 sec every 30 min)
180% of nominal current for 15 sec every 5 min (or for 30 sec every 30 min)

LAK6315-6400:
195% of nominal torque for 15 sec every 5 min (or for 30 sec every 30 min)
200% of nominal current for 15 sec every 5 min (or for 30 sec every 30 min)

Terminal box position
LAK 4112-4180:
Standard: On right side of the motor (facing d-end).
Mounting of terminal box on top or left side on request.

LAK 4200-4280:
Standard: On top of the motor.
Mounting of terminal box on either side of the motor on request.

LAK 6315-6400:
Standard : on right side of the motor (facing D-end)
Mounting of terminal box on top or left side on request

Blower position
Standard: On top of the motor at the non-drive end.
Other positions on request.

Blower is supplied without filter as standard.
Filter on request.

Bearings
Grease lubricated ball bearings on D-end as standard.
For belt drive please contact our sales offices.

Painting
The standard LAK surface finish has excellent corrosion resistance properties. The standard colour of LAK motors is blue according to Munsell 8B 4.5/3.25 (similar to RAL 5024).

Heat exchangers

Air/water (IC86W):
Air/water exchangers are especially recommended for polluted environment.

Standard is for clean water.
For corrosive water, please contact T-T Electric.

Position on top of the motor as standard. Water connection flanges at right hand side (facing D-end).
Max. water pressure 10 PSI
Max. inlet water temperature 25°C. A water temperature rise of 8-10°C must be expected.

LAK 4132-4180:
Fan motor at N-end.

LAK 4200-4280:
Fan motor at D-end.

LAK 6315-6400:
Fan motor at N-end.

Detailed heat exchanger information on request.

A constant speed fan circulates the internal cooling air. A polyamide filter is provided to prevent circulation of carbon dust.

For motors with low loads or a low incoming water temperature, a temperature regulator is recommended to avoid condensation in the cooling air circuit and to minimize water consumption.

Air/air (IC666):

Air/air heat exchangers are recommended where water is not available for cooling purposes.
The output of a motor with air/air exchanger will be approximately 20% lower compared to cooling forms IC06/17/37/86W.

LAK 4132-4280 : / 6315-6400
Position: On top of the motor as standard.

Two constant speed fans at top of the heat exchanger to provide air circulation for the outer and inner circuits.

A polyamid filter is provided to prevent circulation of carbon dust.

Mechanical data

| Frame | Inertia J-Kgm ² | Max. mechanical speed (min ⁻¹) |
|--|--|--|
| LAK 2112MA LAK 2112LA | 0.030 0.040 | 5000 5000 |
| LAK 4112A LAK 4112B | 0.037 0.050 | 5000 5000 |
| LAK 2132M | 0.090 | 5000 |
| LAK 4132A LAK 4132B LAK 4132C LAK 4132D | 0.10 0.12 0.14 0.20 | 4000 4000 4000 3000 |
| LAK 4160A LAK 4160B LAK 4160C LAK 4160D | 0.22 0.25 0.31 0.46 | 3500 3500 3500 3000 |
| LAK 4180AA LAK 4180BA LAK 4180CA LAK 4180DA LAK 4180EA LAK 4180FA | 0.39 0.47 0.55 0.69 0.81 1.05 | 3800 3800 3800 3800 3200 3000 |
| LAK 4200A LAK 4200B LAK 4200C | 0.95 1.20 1.40 | 4000 4000 4000 |
| LAK 4225A LAK 4225B LAK 4225C | 1.90 2.20 2.90 | 3600 3600 3600 |
| LAK 4250A LAK 4250B LAK 4250C | 3.30 3.80 4.30 | 3200 3200 3200 |
| LAK 4280A LAK 4280B LAK 4280C LAK 4280D | 5.90 6.80 7.80 8.90 | 2800 2800 2800 2400 |
| LAK 6315A LAK 6315B LAK 6315C LAK 6315D LAK 6315E | 14.5 17.5 20.5 24.0 27.0 | 2500 2500 2500 2400 2000 |
| LAK 6400A LAK 6400B LAK 6400C LAK 6400D LAK 6400E | 36.0 41.5 47.5 54.0 63.0 | 2100 2100 2100 2100 1900 |

Cooling data (IC06/17/37)

| Frame | Air volume m ³ /h | Pressure drop in motor N/m ² |
|--|------------------------------|---|
| LAK 2112MA-LA | 235 | 375 |
| LAK 4112A-B | 270 | 480 |
| LAK 2132M | 435 | 400 |
| LAK 4132A-B-C LAK 4132D | 470 510 | 550 810 |
| LAK 4160A-B-C LAK 4160D | 880 600 | 980 915 |
| LAK 4180AA-BA LAK 4180CA-DA LAK 4180EA LAK 4180FA | 1300 1300 1500 1900 | 1250 1250 1530 1400 |
| LAK 4200A-B-C | 1050 | 1150 |
| LAK 4225A-B-C | 1850 | 1450 |
| LAK 4250A-B-C | 2700 | 2100 |
| LAK 4280A-B-C-D | 3600 | 2600 |
| LAK 6315A-B-C-D-E | 4650 | 3400 |
| LAK 6400A-B-C-D-E | 8600 | 5400 |

Bearings

| Frame | Drive end | | Commutator end |
|--|--|---|--|
| | Ball bearing | Roller bearing | Ball bearing |
| LAK 2112MA-LA | 6308-C3 | NU308-ECP | 6208-2RS-C3 |
| LAK 4112 | 6308-C3 | NU308-ECP | 6208-2RS-C3 |
| LAK 2132 | 6309-C3 | NU309-ECP | 6207-2RS-C3 |
| LAK 4132 | 6309-C3 | NU309-ECP | 6207-2RS-C3 |
| LAK 4160 | 6310-C3 | NU310-ECP | 6209-2RS-C3 |
| LAK 4180AA-BA LAK 4180CA-DA LAK 4180EA LAK 4180FA | 6215-C3 6215-C3 6215-C3 6215-C3 | NU2215-ECP NU2215-ECP NU2215-ECP NU315-ECP | 6312-2RS-C3 6312-2RS-C3 6312-2RS-C3 6312-2RS-C3 |
| LAK 4200 | 6216-C3 | NU216-ECP | 6214-C3 |
| LAK 4225 | 6218-C3 | NU218-ECP | 6216-C3 |
| LAK 4250 | 6220-C3 | NU220-ECP | 6218-C3 |
| LAK 4280 | 6222-C3 | NU222-ECP | 6220-C3 |
| LAK 6315 | 6228-C3 | NU228-ECM | 6228-C3 |
| LAK 6400 | 6230-C3 | NU230-ECM | 6230-C3 |

Blower motor data

| Frame | Electric supply | | | |
|--|---|--------------------------------------|--------------------------------------|--|
| LAK 2112MA-LA LAK 4112A-B LAK 2132M LAK 4132A-B-C | 3x380-420 V 50 Hz 3x220-240 V 50 Hz 3x440-480 V 60 Hz 3x250-280 V 60 Hz 3x500 V 50 Hz | 0.70 1.20 0.70 1.20 0.60 | 0.25 0.25 0.30 0.30 0.25 | |
| LAK 4132D LAK 4160A-B-C | 3x380-420 V 50 Hz 3x220-240 V 50 Hz 3x440-480 V 60 Hz 3x250-280 V 60 Hz 3x500 V 50 Hz | 2.10 3.60 2.00 3.50 1.40 | 0.75 0.75 0.90 0.90 0.75 | |
| LAK 4160D | 3x380-420 V 50 Hz 3x220-240 V 50 Hz 3x440-480 V 60 Hz 3x250-280 V 60 Hz 3x500 V 50 Hz | 2.90 5.00 2.80 5.00 2.30 | 1.30 1.30 1.50 1.50 1.30 | |
| LAK 4180 AA-BA-CA-DA | 3x380-420 V 50 Hz 3x220-240 V 50 Hz 3x440-480 V 60 Hz 3x250-280 V 60 Hz 3x500 V 50 Hz | 3.00 5.20 2.90 5.00 2.70 | 1.50 1.50 1.75 1.75 1.50 | |

| Frame | Electric supply | F.L.C. (A) | Output (kW) |
|----------------------|---|--|--------------------------------------|
| LAK 4180 EA-FA | 3x380-420 V 50 Hz 3x220-240 V 50 Hz 3x440-480 V 60 Hz 3x250-280 V 60 Hz 3x500 V 50 Hz | 5.80 10.00 5.80 10.00 4.60 | 2.70 2.70 3.00 3.00 2.70 |
| LAK 4200 A-B-C | 3x380-420 V 50 Hz 3x220-240 V 50 Hz 3x440-480 V 60 Hz 3x250-280 V 60 Hz | 3.00 5.20 2.90 5.00 | 1.50 1.50 1.75 1.75 |
| LAK 4225 A-B-C | 3x380-420 V 50 Hz 3x220-240 V 50 Hz 3x440-480 V 60 Hz 3x250-280 V 60 Hz | 5.80 10.00 5.80 10.00 | 2.70 2.70 3.00 3.00 |
| LAK 4250 A-B-C | 3x380-420 V 50 Hz 3x220-240 V 50 Hz 3x440-480 V 60 Hz 3x250-280 V 60 Hz | 8.40 14.50 10.40 18.00 | 4.00 4.00 5.50 5.50 |
| LAK 4280 A-B-C-D | 3x380-420 V 50 Hz 3x220-240 V 50 Hz 3x440-480 V 60 Hz 3x250-280 V 60 Hz | 10.50 18.20 14.50 25.20 | 5.50 5.50 7.50 7.50 |
| LAK6315 A-B-C-D-E | 3x380-420 V 50 Hz 3x440-480 V 60 Hz | 18,7 16,5 | 11 11 |
| LAK6400 A-B-C-D-E | 3x380-420 V 50 Hz 3x440-480 V 60 Hz | 30,8 32,5 | 18,5 22 |

Output data

Select motor frame size against voltage, output and speed.

For intermediate output, take the nearest higher output listed for the same frame size.

For intermediate speed take the next lower speed listed giving the output required. The output lists are based on:

- **Cooling forms**
IC06/IC17/IC37/IC86W.
- **The armature circuit resistance listed is for duty warm condition.**
- **The inductance listed is for the armature circuit.**
- **Motor supply from 3-phase fully controlled thyristor converter, form factor max. 1.05.**

Constant power/constant torque

The full field or base speed and maximum speed through field control with constant output are listed for each winding.

Armature voltage: For -10% the output and speed are proportional to the voltage.

For higher shunt field ranges, please refer to sales offices.

With a combination of armature voltage/shunt control greater constant power ranges can be obtained.

Duty cycles

Ratings: All outputs are duty type S1 and motors are fed from a 3-phase fully controlled thyristor converter with form factor max. 1.05.

Field windings

All motors in the output lists have separate excitation, the field being shunt wound.

Compound winding can be supplied on request.

Motors with compound winding may have nominal data which differ from those shown in the output lists.

Armature voltage

For other armature voltages, please contact our sales offices.

Ambient temperature and altitude

Outputs in this catalogue are based on max. 40°C ambient temperature and motor located at max. 1000 metres above sea level.

If ambient temperature and/or altitude is higher, contact our sales office.

NEMA output data

NEMA catalogue available on request.

Stock motors

LAK 4112 – 4280:

Motors indicated with the sign # in the output data lists are available from stock and can be delivered promptly.

LAK 4200 – 4280:

Delivery time for motors with sign ## in the output data list is 3 weeks (ex. works).

For motor frames 4200 – 4280 in stock please contact our sales department

LAK 6315-6400

Please contact our sales department.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 154 |
|-------------------|---|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|---------------------|
| | 260 | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 3.2 | | 1000 | | | | 12.2 | 31.0 | 1605 | 61.1 | 9.84 | 120 | 241-AB |
| 3.7 | | | 1145 | | | 12.2 | 31.0 | 1605 | 64.1 | 9.84 | 120 | 241-AB |
| 3.9 | | | | 1220 | | 12.2 | 31.0 | 1605 | 65.4 | 9.84 | 120 | 241-AB |
| 4.4 | | | | | 1365 | 12.0 | 30.8 | 1605 | 67.8 | 9.84 | 120 | 241-AB |
| 2.0 | 645 | | | | | 13.5 | 29.1 | 1960 | 50.3 | 7.78 | 88 | 241-BB |
| 3.8 | | 1235 | | | | 13.5 | 29.3 | 1960 | 65.0 | 7.78 | 88 | 241-BB |
| 4.3 | | | 1400 | | | 13.5 | 29.3 | 1960 | 67.5 | 7.78 | 88 | 241-BB |
| 4.6 | | | | 1485 | | 13.5 | 29.3 | 1960 | 68.7 | 7.78 | 88 | 241-BB |
| 5.0 | | | | | 1660 | 13.4 | 29.0 | 1960 | 70.9 | 7.78 | 88 | 241-BB |
| 2.8 | 860 | | | | | 17.0 | 30.8 | 2480 | 57.4 | 5.14 | 61 | 241-CB |
| 5.1 | | 1570 | | | | 17.0 | 30.8 | 2480 | 70.0 | 5.14 | 61 | 241-CB |
| 5.7 | | | 1770 | | | 17.0 | 30.8 | 2480 | 72.2 | 5.14 | 61 | 241-CB |
| 6.0 | | | | 1870 | | 17.0 | 30.8 | 2480 | 73.6 | 5.14 | 61 | 241-CB |
| 6.6 | | | | | 2080 | 16.9 | 30.3 | 2480 | 75.0 | 5.14 | 61 | 241-CB |
| 3.2 | 1010 | | | | | 18.5 | 30.2 | 3060 | 61.1 | 4.21 | 49 | 251-CB |
| 5.7 | | 1795 | | | | 18.5 | 30.2 | 3060 | 61.1 | 4.21 | 49 | 251-CB |
| 6.4 | | | 2015 | | | 18.5 | 30.2 | 3060 | 74.5 | 4.21 | 49 | 251-CB |
| 6.7 | | | | 2130 | | 18.5 | 30.2 | 3060 | 75.3 | 4.21 | 49 | 251-CB |
| 7.4 | | | | | 2355 | 18.0 | 30.0 | 3060 | 76.9 | 4.21 | 49 | 251-CB |
| 3.8 | 1185 | | | | | 21.0 | 30.4 | 3250 | 64.4 | 3.33 | 39 | 241-DB |
| 6.6 | | 2070 | | | | 21.0 | 30.4 | 3250 | 74.8 | 3.33 | 39 | 241-DB |
| 7.4 | | | 2320 | | | 21.0 | 30.4 | 3250 | 76.5 | 3.33 | 39 | 241-DB |
| 7.8 | | | | 2445 | | 21.0 | 30.4 | 3250 | 77.3 | 3.33 | 39 | 241-DB |
| 8.5 | | | | | 2705 | 20.8 | 30.0 | 3250 | 78.8 | 3.33 | 39 | 241-DB |
| # 4.5 | 1445 | | | | | 23.7 | 30.0 | 3835 | 69.1 | 2.42 | 30 | 241-EB |
| 7.7 | | 2450 | | | | 23.7 | 30.0 | 3835 | 77.9 | 2.42 | 30 | 241-EB |
| 8.6 | | | 2740 | | | 23.7 | 30.0 | 3835 | 79.4 | 2.42 | 30 | 241-EB |
| 9.1 | | | | 2885 | | 23.7 | 30.0 | 3835 | 80.1 | 2.42 | 30 | 241-EB |
| 9.9 | | | | | 3175 | 23.6 | 29.2 | 3835 | 82.6 | 2.42 | 30 | 241-EB |
| 5.8 | 1740 | | | | | 29.0 | 31.6 | 3595 | 72.3 | 1.75 | 30 | 231-EB |
| 9.6 | | 2920 | | | | 29.0 | 31.5 | 3595 | 80.1 | 1.75 | 30 | 231-EB |
| 10.7 | | | 3255 | | | 29.0 | 31.5 | 3595 | 81.4 | 1.75 | 30 | 231-EB |
| 7.0 | 2175 | | | | | 34.0 | 30.8 | 3835 | 75.7 | 1.25 | 15 | 231-FB |
| 11.5 | | 3590 | | | | 34.0 | 30.7 | 3835 | 82.3 | 1.25 | 15 | 231-FB |
| 12.8 | | | 3995 | | | 34.0 | 30.7 | 3835 | 83.4 | 1.25 | 15 | 231-FB |
| 8.7 | 2820 | | | | | 41.0 | 29.6 | 5000 | 79.0 | 0.85 | 10 | 231-GB ¹ |
| 14.2 | | 4590 | | | | 41.0 | 29.6 | 5000 | 84.3 | 0.85 | 10 | 231-GB ¹ |

** Through field control with constant output. Please specify.

Field loss (hot) = 420 W

¹) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 10% reduction of output.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 154 |
|-------------------|---|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|--------------------|
| | 260 | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 3.0 | | 655 | | | | 12.2 | 44.3 | 1055 | 56.3 | 11.51 | 164 | 141-AB |
| 3.5 | | | 755 | | | 12.2 | 44.3 | 1055 | 59.7 | 11.51 | 164 | 141-AB |
| 3.7 | | | | 805 | | 12.2 | 44.3 | 1055 | 61.1 | 11.51 | 164 | 141-AB |
| 4.2 | | | | | 910 | 12.1 | 43.8 | 1055 | 64.0 | 11.51 | 164 | 141-AB |
| 3.5 | | 725 | | | | 13.5 | 45.6 | 1280 | 58.6 | 9.85 | 141 | 151-AB |
| 4.0 | | | 835 | | | 13.5 | 45.6 | 1280 | 61.8 | 9.85 | 141 | 151-AB |
| 4.2 | | | | 890 | | 13.5 | 45.6 | 1280 | 63.1 | 9.85 | 141 | 151-AB |
| 4.7 | | | | | 1005 | 13.4 | 45.0 | 1280 | 66.0 | 9.85 | 141 | 151-AB |
| 3.5 | | 790 | | | | 13.7 | 42.6 | 1275 | 59.0 | 9.52 | 121 | 141-BB |
| 4.0 | | | 910 | | | 13.7 | 42.6 | 1275 | 62.2 | 9.52 | 121 | 141-BB |
| 4.3 | | | | 970 | | 13.7 | 42.6 | 1275 | 63.6 | 9.52 | 121 | 141-BB |
| 4.8 | | | | | 1095 | 13.6 | 41.9 | 1275 | 66.4 | 9.52 | 121 | 141-BB |
| 4.8 | | 1040 | | | | 17.0 | 44.0 | 1650 | 65.5 | 6.29 | 83 | 141-CB |
| 5.4 | | | 1180 | | | 17.0 | 44.0 | 1650 | 68.1 | 6.29 | 83 | 141-CB |
| 5.8 | | | | 1250 | | 17.0 | 44.0 | 1650 | 69.2 | 6.29 | 83 | 141-CB |
| 6.4 | | | | | 1395 | 16.8 | 43.8 | 1650 | 71.4 | 6.29 | 83 | 141-CB |
| 2.9 | 645 | | | | | 18.5 | 42.9 | 1895 | 54.8 | 5.16 | 67 | 141-DB |
| 5.4 | | 1200 | | | | 18.5 | 43.1 | 1895 | 68.5 | 5.16 | 67 | 141-DB |
| 6.1 | | | 1355 | | | 18.5 | 43.2 | 1895 | 70.8 | 5.16 | 67 | 141-DB |
| 6.5 | | | | 1435 | | 18.5 | 43.2 | 1895 | 71.9 | 5.16 | 67 | 141-DB |
| 7.1 | | | | | 1600 | 18.2 | 42.4 | 1895 | 74.0 | 5.16 | 67 | 141-DB |
| 3.5 | 770 | | | | | 21.0 | 43.4 | 2200 | 58.7 | 4.07 | 54 | 141-EB |
| 6.3 | | 1390 | | | | 21.0 | 43.5 | 2200 | 71.2 | 4.07 | 54 | 141-EB |
| 7.1 | | | 1570 | | | 21.0 | 43.5 | 2200 | 73.4 | 4.07 | 54 | 141-EB |
| 7.6 | | | | 1660 | | 21.0 | 43.5 | 2200 | 74.3 | 4.07 | 54 | 141-EB |
| 8.3 | | | | | 1840 | 20.8 | 43.1 | 2200 | 76.1 | 4.07 | 54 | 141-EB |
| 4.3 | 950 | | | | | 24.0 | 43.5 | 2610 | 64.2 | 2.97 | 41 | 141-FB |
| 7.6 | | 1660 | | | | 24.0 | 43.5 | 2610 | 75.0 | 2.97 | 41 | 141-FB |
| 8.5 | | | 1865 | | | 24.0 | 43.5 | 2610 | 76.9 | 2.97 | 41 | 141-FB |
| 9.0 | | | | 1970 | | 24.0 | 43.5 | 2610 | 77.7 | 2.97 | 41 | 141-FB |
| 9.8 | | | | | 2175 | 23.8 | 43.0 | 2610 | 79.2 | 2.97 | 41 | 141-FB |
| # 5.5 | 1165 | | | | | 29.2 | 45.1 | 3120 | 68.5 | 2.13 | 30 | 141-GB |
| 9.4 | | 1995 | | | | 29.0 | 45.2 | 3120 | 77.9 | 2.13 | 30 | 141-GB |
| 10.5 | | | 2230 | | | 29.0 | 45.2 | 3120 | 79.5 | 2.13 | 30 | 141-GB |
| 11.1 | | | | 2350 | | 29.0 | 45.2 | 3120 | 80.2 | 2.13 | 30 | 141-GB |
| 12.1 | | | | | 2590 | 28.7 | 44.6 | 3120 | 81.6 | 2.13 | 30 | 141-GB |
| # 6.2 | 1305 | | | | | 32.0 | 45.7 | 3120 | 70.7 | 1.76 | 25 | 131-CB |
| 10.6 | | 2210 | | | | 32.0 | 45.7 | 3120 | 79.4 | 1.76 | 25 | 131-CB |
| 11.8 | | | 2470 | | | 32.0 | 45.7 | 3120 | 80.0 | 1.76 | 25 | 131-CB |
| 12.4 | | | | 2600 | | 32.0 | 45.7 | 3120 | 81.6 | 1.76 | 25 | 131-CB |
| 13.2 | | | | | 2870 | 31.5 | 44.5 | 3120 | 82.9 | 1.76 | 25 | 131-CB |
| 6.8 | 1470 | | | | | 34.0 | 44.0 | 3850 | 72.6 | 1.52 | 21 | 141-HB |
| 11.4 | | 2465 | | | | 34.0 | 44.0 | 3850 | 80.7 | 1.52 | 21 | 141-HB |
| 12.7 | | | 2750 | | | 34.0 | 44.0 | 3850 | 82.0 | 1.52 | 21 | 141-HB |
| 13.3 | | | | 2890 | | 34.0 | 44.0 | 3850 | 82.6 | 1.52 | 21 | 141-HB |
| 14.5 | | | | | 3180 | 33.6 | 43.5 | 3850 | 83.7 | 1.52 | 21 | 141-HB |
| # 7.8 | 1675 | | | | | 38.0 | 44.3 | 4340 | 75.0 | 1.22 | 17 | 141-KB |
| 12.9 | | 2785 | | | | 38.0 | 44.3 | 4340 | 82.3 | 1.22 | 17 | 141-KB |
| 14.4 | | | 3100 | | | 38.0 | 44.3 | 4340 | 83.5 | 1.22 | 17 | 141-KB |
| 15.1 | | | | 3260 | | 38.0 | 44.3 | 4340 | 84.0 | 1.22 | 17 | 141-KB |

** Through field control with constant output. Please specify.

Field loss (hot) = 500 W

Data subject to change without prior notice.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 153 |
|-------------------|---|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|--------------------|
| | 260 | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 6.7 | | 1325 | | | | 21.0 | 47.9 | 1655 | 75.1 | 3.258 | 40.75 | 201-NA |
| 7.5 | | | 1485 | | | 21.0 | 47.9 | 1655 | 76.9 | 3.258 | 40.75 | 201-NA |
| 7.9 | | | | 1571 | | 21.0 | 47.9 | 1655 | 78.0 | 3.258 | 40.75 | 201-NA |
| 8.0 | | | | | 1740 | 19.2 | 43.8 | 1810 | 80.1 | 3.258 | 40.75 | 201-NA |
| 7.1 | | 1445 | | | | 22.0 | 47.1 | 1795 | 76.8 | 2.776 | 35.80 | 201-MA |
| 8.6 | | | 1615 | | | 22.0 | 47.0 | 1795 | 78.5 | 2.776 | 35.80 | 201-MA |
| 8.4 | | | | 1708 | | 22.0 | 47.0 | 1795 | 79.5 | 2.776 | 35.80 | 201-MA |
| 8.5 | | | | | 1885 | 20.1 | 43.1 | 1960 | 81.3 | 2.776 | 35.80 | 201-MA |
| 4.6 | 920 | | | | | 24.0 | 48.0 | 1890 | 68.9 | 2.416 | 31.20 | 201-LA |
| 7.8 | | 1565 | | | | 24.0 | 47.9 | 1890 | 77.9 | 2.416 | 31.20 | 201-LA |
| 8.8 | | | 1745 | | | 24.0 | 47.9 | 1890 | 79.5 | 2.416 | 31.20 | 201-LA |
| 9.2 | | | | 1850 | | 24.0 | 47.9 | 1890 | 80.1 | 2.416 | 31.20 | 201-LA |
| 9.1 | | | | | 2034 | 21.4 | 42.8 | 2115 | 81.9 | 2.416 | 31.20 | 201-LA |
| 4.9 | 1010 | | | | | 25.0 | 46.3 | 2105 | 70.2 | 2.174 | 26.90 | 201-KA |
| 8.2 | | 1700 | | | | 25.0 | 46.3 | 2105 | 78.8 | 2.174 | 26.90 | 201-KA |
| 9.2 | | | 1900 | | | 25.0 | 46.3 | 2105 | 80.2 | 2.174 | 26.90 | 201-KA |
| 9.7 | | | | 2006 | | 25.0 | 46.3 | 2105 | 81.2 | 2.174 | 26.90 | 201-KA |
| 9.8 | | | | | 2207 | 22.9 | 42.4 | 2295 | 82.5 | 2.174 | 26.90 | 201-KA |
| 5.5 | 1120 | | | | | 27.5 | 47.0 | 2435 | 72.5 | 1.783 | 22.90 | 201-JA |
| 9.2 | | 1870 | | | | 27.5 | 47.0 | 2435 | 80.3 | 1.783 | 22.90 | 201-JA |
| 10.3 | | | 2085 | | | 27.5 | 47.0 | 2435 | 81.7 | 1.783 | 22.90 | 201-JA |
| 10.0 | | | | 2197 | | 27.5 | 47.0 | 2435 | 82.5 | 1.783 | 22.90 | 201-JA |
| 11.5 | | | | | 2418 | 26.6 | 45.5 | 2515 | 83.7 | 1.783 | 22.90 | 201-JA |
| 6.1 | 1240 | | | | | 30.0 | 46.7 | 2655 | 73.8 | 1.549 | 19.25 | 201-IA |
| 10.1 | | 2060 | | | | 30.0 | 46.6 | 2655 | 81.2 | 1.549 | 19.25 | 201-IA |
| 11.2 | | | 2295 | | | 30.0 | 46.6 | 2655 | 82.5 | 1.549 | 19.25 | 201-IA |
| 11.7 | | | | 2417 | | 30.0 | 46.6 | 2655 | 83.3 | 1.549 | 19.25 | 201-IA |
| 12.4 | | | | | 2654 | 28.8 | 44.8 | 2760 | 84.4 | 1.549 | 19.25 | 201-IA |
| 6.8 | 1390 | | | | | 33.0 | 46.7 | 2920 | 75.7 | 1.275 | 15.90 | 201-HA |
| 11.2 | | 2295 | | | | 33.0 | 46.6 | 2920 | 82.5 | 1.275 | 15.90 | 201-HA |
| 12.4 | | | 2550 | | | 33.0 | 46.6 | 2920 | 83.6 | 1.275 | 15.90 | 201-HA |
| 13.1 | | | | 2687 | | 33.0 | 46.6 | 2920 | 84.4 | 1.275 | 15.90 | 201-HA |
| 13.7 | | | | | 2947 | 31.4 | 44.3 | 3065 | 85.4 | 1.275 | 15.90 | 201-HA |
| 8.2 | 1575 | | | | | 39.0 | 50.0 | 2975 | 77.9 | 0.973 | 12.90 | 201-GA |
| 13.5 | | 2575 | | | | 39.0 | 49.9 | 2975 | 84.0 | 0.973 | 12.90 | 201-GA |
| 14.9 | | | 2860 | | | 39.0 | 49.9 | 2975 | 85.0 | 0.973 | 12.90 | 201-GA |
| 15.2 | | | | 3014 | | 37.7 | 48.2 | 3080 | 85.7 | 0.973 | 12.90 | 201-GA |
| 9.4 | 1800 | | | | | 44.0 | 49.9 | 3425 | 79.7 | 0.772 | 10.20 | 201-FA |
| 15.3 | | 2930 | | | | 44.0 | 49.8 | 3425 | 85.2 | 0.772 | 10.20 | 201-FA |
| 17.0 | | | 3250 | | | 44.0 | 49.8 | 3425 | 86.1 | 0.772 | 10.20 | 201-FA |
| 17.4 | | | | 3426 | | 43.0 | 48.7 | 3500 | 86.7 | 0.772 | 10.20 | 201-FA |
| 11.2 | 2100 | | | | | 51.0 | 51.0 | 3855 | 81.8 | 0.573 | 7.80 | 201-EA |
| 18.0 | | 3390 | | | | 51.0 | 50.8 | 3855 | 86.6 | 0.573 | 7.80 | 201-EA |
| 20.0 | | | 3760 | | | 51.0 | 50.8 | 3855 | 87.3 | 0.573 | 7.80 | 201-EA |
| 13.4 | 2495 | | | | | 60.0 | 51.3 | 4460 | 83.5 | 0.425 | 5.75 | 201-DA |
| 21.4 | | 4000 | | | | 60.0 | 51.1 | 4460 | 87.7 | 0.425 | 5.75 | 201-DA |
| 15.9 | 3055 | | | | | 70.0 | 49.8 | 5000 | 85.4 | 0.298 | 4.00 | 201-CA |

** Through field control with constant output. Please specify.

Field loss (hot) = 625 W

Data subject to change without prior notice.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 153 |
|-------------------|---|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|--------------------|
| | 260 | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 7.9 | | 1160 | | | | 25.0 | 65.2 | 1545 | 75.0 | 2.679 | 32.75 | 101-KA |
| 8.9 | | | 1300 | | | 25.0 | 65.2 | 1545 | 76.8 | 2.679 | 32.75 | 101-KA |
| 9.4 | | | | 1375 | | 25.0 | 65.2 | 1545 | 77.9 | 2.679 | 32.75 | 101-KA |
| 8.9 | | 1280 | | | | 27.5 | 66.2 | 1790 | 76.9 | 2.196 | 27.90 | 101-JA |
| 9.9 | | | 1435 | | | 27.5 | 66.2 | 1790 | 78.5 | 2.196 | 27.90 | 101-JA |
| 10.5 | | | | 1512 | | 27.5 | 66.2 | 1790 | 79.6 | 2.196 | 27.90 | 101-JA |
| 12.5 | | | | | 1668 | 27.5 | 66.2 | 1790 | 81.0 | 2.196 | 27.90 | 101-JA |
| # 9.8 | | 1410 | | | | 30.0 | 66.2 | 1950 | 77.9 | 1.908 | 23.45 | 101-IA |
| 10.9 | | | 1575 | | | 30.0 | 66.1 | 1950 | 79.5 | 1.908 | 23.45 | 101-IA |
| 11.5 | | | | 1712 | | 30.0 | 66.1 | 1950 | 80.4 | 1.908 | 23.45 | 101-IA |
| 12.7 | | | | | 1837 | 30.0 | 66.1 | 1950 | 81.8 | 1.908 | 23.45 | 101-IA |
| 10.9 | | 1575 | | | | 33.0 | 66.2 | 2145 | 79.5 | 1.569 | 19.40 | 101-HA |
| 12.2 | | | 1760 | | | 33.0 | 66.1 | 2145 | 80.9 | 1.569 | 19.40 | 101-HA |
| 12.8 | | | | 1855 | | 33.0 | 66.1 | 2145 | 81.7 | 1.569 | 19.40 | 101-HA |
| 14.1 | | | | | 2043 | 33.0 | 66.1 | 2145 | 83.0 | 1.569 | 19.40 | 101-HA |
| 7.9 | 1070 | | | | | 39.0 | 70.6 | 2240 | 74.0 | 1.195 | 15.70 | 101-GA |
| 13.1 | | 1790 | | | | 39.0 | 70.5 | 2240 | 81.3 | 1.195 | 15.70 | 101-GA |
| 14.6 | | | 1980 | | | 39.0 | 70.5 | 2240 | 82.6 | 1.195 | 15.70 | 101-GA |
| 15.4 | | | | 2090 | | 39.0 | 70.4 | 2240 | 83.3 | 1.195 | 15.70 | 101-GA |
| # 9.1 | 1230 | | | | | 44.0 | 70.8 | 2515 | 76.2 | 0.947 | 12.40 | 101-FA |
| 15.0 | | 2030 | | | | 44.0 | 70.6 | 2515 | 82.8 | 0.947 | 12.40 | 101-FA |
| 16.7 | | | 2255 | | | 44.0 | 70.6 | 2515 | 83.9 | 0.947 | 12.40 | 101-FA |
| 17.5 | | | | 2373 | | 44.0 | 70.6 | 2515 | 84.6 | 0.947 | 12.40 | 101-FA |
| # 10.9 | 1445 | | | | | 51.0 | 71.8 | 2835 | 78.7 | 0.708 | 9.50 | 101-EA |
| 17.7 | | 2355 | | | | 51.0 | 71.6 | 2835 | 84.4 | 0.708 | 9.50 | 101-EA |
| 19.6 | | | 2615 | | | 51.0 | 71.6 | 2835 | 85.3 | 0.708 | 9.50 | 101-EA |
| # 13.0 | 1720 | | | | | 60.0 | 72.2 | 3280 | 80.7 | 0.526 | 7.00 | 101-DA |
| 21.0 | | 2785 | | | | 60.0 | 72.0 | 3280 | 85.7 | 0.526 | 7.00 | 101-DA |
| 23.3 | | | 3085 | | | 60.0 | 72.0 | 3280 | 87.0 | 0.526 | 7.00 | 101-DA |
| 15.5 | 2115 | | | | | 70.0 | 70.2 | 4050 | 83.0 | 0.368 | 4.85 | 101-CA |
| 24.8 | | 3390 | | | | 70.0 | 69.9 | 4050 | 87.1 | 0.368 | 4.85 | 101-CA |
| 27.5 | | | 3755 | | | 70.0 | 69.8 | 4050 | 87.8 | 0.368 | 4.85 | 101-CA |
| 18.6 | 2705 | | | | | 82.0 | 65.5 | 5000 | 84.9 | 0.251 | 3.10 | 101-BA |
| 29.3 | | 4300 | | | | 82.0 | 65.2 | 5000 | 88.1 | 0.251 | 3.10 | 101-BA |
| 32.4 | | | 4755 | | | 82.0 | 65.1 | 5000 | 88.6 | 0.251 | 3.10 | 101-BA |
| 23.0 | 3690 | | | | | 100 | 59.5 | 5000 | 86.7 | 0.149 | 1.75 | 101-AA |

** Through field control with constant output. Please specify.

Field loss (hot) = 740 W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 155 |
|-------------------------------------|---|------|------|------|------|--------------------------------------|--------------------------------------|---|--------------------------------------|--------------------------------------|----------------------------|--|
| | 260 | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 4.0 4.6 4.9 5.5 | | 605 | 700 | 750 | 850 | 16.4 16.4 16.4 16.2 | 63.1 63.1 63.1 62.1 | 1480 1480 1480 1480 | 56.1 59.5 61.0 64.1 | 8.93 8.93 8.93 8.93 | 132 132 132 132 | 241-AB 241-AB 241-AB 241-AB |
| 5.6 6.4 6.8 7.5 | | 830 | 945 | 1000 | 1125 | 20.5 20.5 20.5 20.3 | 64.3 64.3 64.3 63.7 | 1725 1725 1725 1725 | 63.7 66.5 67.7 70.1 | 5.73 5.73 5.73 5.73 | 87 87 87 87 | 241-BB 241-BB 241-BB 241-BB |
| 6.6 7.5 8.0 8.8 | | 980 | 1110 | 1180 | 1315 | 23.3 23.3 23.3 23.0 | 64.6 64.6 64.6 63.9 | 1950 1950 1950 1950 | 67.0 69.5 70.7 72.8 | 4.50 4.50 4.50 4.50 | 68 68 68 68 | 241-CB 241-CB 241-CB 241-CB |
| 8.3 9.3 9.9 10.9 | | 1200 | 1350 | 1430 | 1585 | 27.5 27.5 27.5 27.2 | 66.1 66.1 66.1 65.7 | 2200 2200 2200 2200 | 71.7 73.9 74.8 76.6 | 3.18 3.18 3.18 3.18 | 51 51 51 51 | 241-DB 241-DB 241-DB 241-DB |
| 5.3 9.4 10.6 11.2 12.1 | 745 | 1330 | 1495 | 1580 | 1755 | 30.5 30.5 30.5 30.5 30.1 | 67.6 67.7 67.7 67.7 65.9 | 1860 1860 1860 1860 1860 | 62.2 73.8 75.8 76.7 78.4 | 2.60 2.60 2.60 2.60 2.60 | 43 43 43 43 43 | 231-AB 231-AB 231-AB 231-AB 231-AB |
| 5.6 10.0 11.2 11.8 13.0 | 830 | 1465 | 1650 | 1740 | 1925 | 32.0 32.0 32.0 32.0 31.6 | 64.9 65.0 65.0 65.0 64.4 | 2650 2650 2650 2650 2650 | 63.6 74.8 76.7 77.5 79.1 | 2.37 2.37 2.37 2.37 2.37 | 36 36 36 36 36 | 251-EB 251-EB 251-EB 251-EB 251-EB |
| 6.6 11.5 12.9 13.6 14.8 | 945 | 1650 | 1850 | 1950 | 2155 | 36.0 36.0 36.0 36.0 35.6 | 66.5 66.4 66.4 66.4 65.5 | 2840 2840 2840 2840 2840 | 66.5 76.7 78.5 79.3 80.7 | 1.93 1.93 1.93 1.93 1.93 | 30 30 30 30 30 | 241-EB 241-EB 241-EB 241-EB 241-EB |
| 7.7 13.1 14.6 15.4 16.8 | 1100 | 1880 | 2105 | 2215 | 2440 | 40.0 40.0 40.0 40.0 39.5 | 66.5 66.5 66.5 66.5 65.7 | 3160 3160 3160 3160 3160 | 70.1 79.1 80.7 81.4 82.6 | 1.51 1.51 1.51 1.51 1.51 | 24 24 24 24 24 | 251-FB 251-FB 251-FB 251-FB 251-FB |
| 9.1 15.4 17.1 18.0 19.6 | 1280 | 2155 | 2405 | 2530 | 2785 | 46.0 46.0 46.0 46.0 45.4 | 68.0 68.1 68.1 68.1 67.2 | 3480 3480 3480 3480 3480 | 73.0 81.1 82.5 83.1 84.2 | 1.16 1.16 1.16 1.16 1.16 | 19 19 19 19 19 | 241-FB 241-FB 241-FB 241-FB 241-FB |
| 10.6 17.6 19.7 20.7 | 1505 | 2500 | 2790 | 2935 | | 52.0 52.0 52.0 52.0 | 67.3 67.3 67.3 67.3 | 4000 4000 4000 4000 | 75.4 82.7 83.9 84.5 | 0.92 0.92 0.92 0.92 | 15 15 15 15 | 241-GB 241-GB 241-GB 241-GB |
| 12.7 20.8 23.2 24.3 | 1820 | 2990 | 3320 | 3490 | | 60.0 60.0 60.0 60.0 | 66.9 66.6 66.6 66.6 | 4000 4000 4000 4000 | 78.7 84.9 85.9 86.4 | 0.65 0.65 0.65 0.65 | 11 11 11 11 | 231-DB 231-DB 231-DB 231-DB |
| 15.6 25.3 | 2240 | 3640 | | | | 72.0 72.0 | 66.5 66.5 | 4000 4000 | 81.0 86.3 | 0.47 0.47 | 8 8 | 231-EB 231-EB |

** Through field control with constant output. Please specify.

Field loss (hot) = 550 W

Data subject to change without prior notice.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 156 |
|-------------------|---|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|--------------------|
| | 260 | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 7.7 | | 690 | | | | 27.5 | 107 | 1250 | 65.6 | 4.01 | 60.3 | 341-AB |
| 8.8 | | | 785 | | | 27.5 | 107 | 1250 | 68.3 | 4.01 | 60.3 | 341-AB |
| 9.4 | | | | 837 | | 27.5 | 107 | 1250 | 70.0 | 4.01 | 60.3 | 341-AB |
| 10.4 | | | | | 942 | 27.0 | 105 | 1250 | 72.8 | 4.01 | 60.3 | 341-AB |
| 9.1 | | 820 | | | | 31.0 | 106 | 1410 | 69.0 | 3.16 | 46.2 | 341-BB |
| 10.3 | | | 930 | | | 31.0 | 106 | 1410 | 71.4 | 3.16 | 46.2 | 341-BB |
| 11.0 | | | | 993 | | 31.0 | 105 | 1410 | 73.0 | 3.16 | 46.2 | 341-BB |
| 12.0 | | | | | 1111 | 30.5 | 104 | 1410 | 75.5 | 3.16 | 46.2 | 341-BB |
| 5.9 | 555 | | | | | 35.0 | 102 | 1750 | 60.1 | 2.41 | 33.9 | 341-CB |
| 10.7 | | 1000 | | | | 35.0 | 102 | 1750 | 72.5 | 2.41 | 33.9 | 341-CB |
| 12.1 | | | 1130 | | | 35.0 | 102 | 1750 | 74.7 | 2.41 | 33.9 | 341-CB |
| 12.8 | | | | 1199 | | 35.0 | 102 | 1750 | 76.0 | 2.41 | 33.9 | 341-CB |
| 14.0 | | | | | 1337 | 34.4 | 100 | 1750 | 78.2 | 2.41 | 33.9 | 341-CB |
| 7.9 | 720 | | | | | 43.0 | 105 | 2000 | 66.2 | 1.61 | 23.6 | 341-DB |
| 13.8 | | 1260 | | | | 43.0 | 105 | 2000 | 76.7 | 1.61 | 23.6 | 341-DB |
| 15.4 | | | 1410 | | | 43.0 | 105 | 2000 | 78.5 | 1.61 | 23.6 | 341-DB |
| 16.3 | | | | 1493 | | 43.0 | 105 | 2000 | 79.6 | 1.61 | 23.6 | 341-DB |
| 17.8 | | | | | 1654 | 42.3 | 103 | 2000 | 81.4 | 1.61 | 23.6 | 341-DB |
| # 9.4 | 835 | | | | | 49.0 | 107 | 2160 | 69.5 | 1.26 | 19.4 | 341-EB |
| 16.0 | | 1430 | | | | 49.0 | 107 | 2160 | 78.9 | 1.26 | 19.4 | 341-EB |
| 18.0 | | | 1600 | | | 49.0 | 107 | 2160 | 80.5 | 1.26 | 19.4 | 341-EB |
| 19.0 | | | | 1693 | | 49.0 | 107 | 2160 | 81.5 | 1.26 | 19.4 | 341-EB |
| 20.7 | | | | | 1870 | 48.2 | 105 | 2160 | 83.1 | 1.26 | 19.4 | 341-EB |
| 10.2 | 980 | | | | | 51.0 | 99.0 | 2630 | 72.6 | 1.04 | 15.3 | 341-FB |
| 17.1 | | 1650 | | | | 51.0 | 99.1 | 2630 | 80.9 | 1.04 | 15.3 | 341-FB |
| 19.1 | | | 1840 | | | 51.0 | 99.1 | 2630 | 82.3 | 1.04 | 15.3 | 341-FB |
| 20.2 | | | | 1943 | | 51.0 | 99.0 | 2630 | 83.2 | 1.04 | 15.3 | 341-FB |
| 21.8 | | | | | 2144 | 50.2 | 97.4 | 2630 | 84.6 | 1.04 | 15.3 | 341-FB |
| # 12.7 | 1150 | | | | | 62.0 | 106 | 2920 | 75.4 | 0.77 | 11.8 | 341-GB |
| 21.2 | | 1915 | | | | 62.0 | 105 | 2920 | 82.8 | 0.77 | 11.8 | 341-GB |
| 23.6 | | | 2135 | | | 62.0 | 105 | 2920 | 84.1 | 0.77 | 11.8 | 341-GB |
| 24.9 | | | | 2251 | | 62.0 | 105 | 2920 | 84.9 | 0.77 | 11.8 | 341-GB |
| 26.8 | | | | | 2481 | 61.0 | 104 | 2920 | 86.1 | 0.77 | 11.8 | 341-GB |
| 14.5 | 1380 | | | | | 69.0 | 100 | 3750 | 77.6 | 0.61 | 8.70 | 341-HB |
| 23.9 | | 2270 | | | | 69.0 | 101 | 3750 | 84.3 | 0.61 | 8.70 | 341-HB |
| 26.6 | | | 2525 | | | 69.0 | 100 | 3750 | 85.4 | 0.61 | 8.70 | 341-HB |
| 27.3 | | | | 2662 | | 69.0 | 100 | 3750 | 86.1 | 0.61 | 8.70 | 341-HB |
| 30.2 | | | | | 2923 | 67.9 | 98.7 | 3750 | 87.2 | 0.61 | 8.70 | 341-HB |
| 16.2 | 1725 | | | | | 74.0 | 89.7 | 4000 | 81.1 | 0.45 | 5.03 | 341-KB |
| 26.2 | | 2795 | | | | 74.0 | 89.6 | 4000 | 86.4 | 0.45 | 5.03 | 341-KB |
| 29.1 | | | 3100 | | | 74.0 | 89.4 | 4000 | 87.3 | 0.45 | 5.03 | 341-KB |
| 30.5 | | | | 3264 | | 74.0 | 89.4 | 4000 | 87.8 | 0.45 | 5.03 | 341-KB |
| 32.9 | | | | | 3572 | 72.8 | 87.9 | 4000 | 88.7 | 0.45 | 5.03 | 341-KB |
| 22.6 | 2220 | | | | | 100 | 97.0 | 4000 | 84.3 | 0.26 | 3.20 | 331-GB |
| 36.1 | | 3560 | | | | 100 | 96.8 | 4000 | 88.5 | 0.26 | 3.20 | 331-GB |
| 39.9 | | | 3945 | | | 100 | 96.7 | 4000 | 89.3 | 0.26 | 3.20 | 331-GB |

** Through field control with constant output. Please specify.

Field loss (hot) = 750 W

Data subject to change without prior notice.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 156 |
|-------------------|---|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|--------------------|
| | 260 | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 10.2 | | 730 | | | | 35.0 | 133 | 1200 | 68.8 | 2.81 | 42.0 | 241-AB |
| 11.6 | | | 830 | | | 35.0 | 133 | 1200 | 71.3 | 2.81 | 42.0 | 241-AB |
| 12.3 | | | | 881 | | 35.0 | 133 | 1200 | 72.8 | 2.81 | 42.0 | 241-AB |
| 13.6 | | | | | 990 | 34.4 | 131 | 1200 | 75.4 | 2.81 | 42.0 | 241-AB |
| 7.4 | 515 | | | | | 43.0 | 137 | 1410 | 61.6 | 1.88 | 29.2 | 241-BB |
| 13.3 | | 930 | | | | 43.0 | 137 | 1410 | 73.6 | 1.88 | 29.2 | 241-BB |
| 15.0 | | | 1045 | | | 43.0 | 137 | 1410 | 75.7 | 1.88 | 29.2 | 241-BB |
| 15.9 | | | | 1106 | | 43.0 | 137 | 1410 | 77.0 | 1.88 | 29.2 | 241-BB |
| 17.3 | | | | | 1236 | 42.3 | 134 | 1410 | 79.1 | 1.88 | 29.2 | 241-BB |
| 8.9 | 605 | | | | | 49.0 | 140 | 1520 | 65.6 | 1.46 | 23.6 | 241-CB |
| 15.6 | | 1060 | | | | 49.0 | 140 | 1520 | 76.2 | 1.46 | 23.6 | 241-CB |
| 17.5 | | | 1190 | | | 49.0 | 140 | 1520 | 78.1 | 1.46 | 23.6 | 241-CB |
| 18.5 | | | | 1258 | | 49.0 | 140 | 1520 | 79.2 | 1.46 | 23.6 | 241-CB |
| 20.2 | | | | | 1399 | 48.2 | 138 | 1520 | 81.1 | 1.46 | 23.6 | 241-CB |
| 9.7 | 715 | | | | | 51.0 | 130 | 1860 | 69.0 | 1.22 | 18.7 | 241-DB |
| 16.7 | | 1230 | | | | 51.0 | 130 | 1860 | 78.5 | 1.22 | 18.7 | 241-DB |
| 18.6 | | | 1375 | | | 51.0 | 130 | 1860 | 80.1 | 1.22 | 18.7 | 241-DB |
| 19.7 | | | | 1449 | | 51.0 | 130 | 1860 | 81.1 | 1.22 | 18.7 | 241-DB |
| 21.4 | | | | | 1606 | 50.2 | 127 | 1860 | 82.8 | 1.22 | 18.7 | 241-DB |
| 12.2 | 845 | | | | | 62.0 | 138 | 2050 | 72.2 | 0.89 | 14.2 | 241-EB |
| 20.7 | | 1430 | | | | 62.0 | 138 | 2050 | 80.7 | 0.89 | 14.2 | 241-EB |
| 23.1 | | | 1595 | | | 62.0 | 138 | 2050 | 82.2 | 0.89 | 14.2 | 241-EB |
| 24.4 | | | | 1683 | | 62.0 | 138 | 2050 | 83.1 | 0.89 | 14.2 | 241-EB |
| 26.4 | | | | | 1861 | 61.0 | 136 | 2050 | 84.5 | 0.89 | 14.2 | 241-EB |
| # 14.0 | 1015 | | | | | 69.0 | 132 | 2500 | 74.8 | 0.71 | 10.5 | 241-FB |
| 23.4 | | 1700 | | | | 69.0 | 132 | 2500 | 82.4 | 0.71 | 10.5 | 241-FB |
| 26.1 | | | 1895 | | | 69.0 | 132 | 2500 | 83.7 | 0.71 | 10.5 | 241-FB |
| 27.5 | | | | 1997 | | 69.0 | 132 | 2500 | 84.5 | 0.71 | 10.5 | 241-FB |
| 29.8 | | | | | 2202 | 67.9 | 129 | 2500 | 85.8 | 0.71 | 10.5 | 241-FB |
| 15.8 | 1285 | | | | | 74.0 | 118 | 3350 | 78.8 | 0.52 | 7.3 | 241-GB |
| 25.8 | | 2100 | | | | 74.0 | 118 | 3350 | 84.9 | 0.52 | 7.3 | 241-GB |
| 28.7 | | | 2335 | | | 74.0 | 117 | 3350 | 86.0 | 0.52 | 7.3 | 241-GB |
| 30.1 | | | | 2461 | | 74.0 | 117 | 3350 | 86.6 | 0.52 | 7.3 | 241-GB |
| 32.6 | | | | | 2697 | 72.8 | 115 | 3350 | 87.6 | 0.52 | 7.3 | 241-GB |
| # 22.1 | 1665 | | | | | 100 | 127 | 3900 | 82.5 | 0.30 | 4.6 | 241-HB |
| 35.7 | | 2690 | | | | 100 | 127 | 3900 | 87.4 | 0.30 | 4.6 | 241-HB |
| 39.6 | | | 2980 | | | 100 | 127 | 3900 | 88.2 | 0.30 | 4.6 | 241-HB |
| 41.6 | | | | 3132 | | 100 | 127 | 3900 | 88.7 | 0.30 | 4.6 | 241-HB |
| 44.7 | | | | | 3433 | 98.3 | 125 | 3900 | 89.5 | 0.30 | 4.6 | 241-HB |
| 27.7 | 2280 | | | | | 122 | 116 | 4000 | 85.1 | 0.19 | 2.6 | 231-HB |
| 44.1 | | 3645 | | | | 122 | 116 | 4000 | 88.9 | 0.19 | 2.6 | 231-HB |

** Through field control with constant output. Please specify.

Field loss (hot) = 830 W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 156 |
|-------------------|---|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|--------------------|
| | 260 | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 11.8 | | 765 | | | | 38.5 | 148 | 1460 | 72.0 | 2.14 | 35 | 141-AB |
| 13.3 | | | 860 | | | 38.5 | 148 | 1460 | 74.2 | 2.14 | 35 | 141-AB |
| 14.1 | | | | 910 | | 38.5 | 148 | 1460 | 75.5 | 2.14 | 35 | 141-AB |
| 16.1 | | | | | 1019 | 37.9 | 145 | 1460 | 77.7 | 2.14 | 35 | 141-AB |
| 7.7 | 495 | 875 | | | | 43.0 | 149 | 1610 | 63.5 | 1.69 | 29 | 141-BB |
| 13.6 | | | 980 | | | 43.0 | 149 | 1610 | 74.7 | 1.69 | 29 | 141-BB |
| 15.3 | | | | 1037 | | 43.0 | 149 | 1610 | 76.7 | 1.69 | 29 | 141-BB |
| 16.1 | | | | | 1154 | 43.0 | 149 | 1610 | 77.9 | 1.69 | 29 | 141-BB |
| 17.7 | | | | | | 42.3 | 146 | 1610 | 79.8 | 1.69 | 29 | 141-BB |
| 9.0 | 580 | 1000 | | | | 48.0 | 148 | 1830 | 66.8 | 1.35 | 23 | 141-CB |
| 15.5 | | | 1125 | | | 48.0 | 148 | 1830 | 76.9 | 1.35 | 23 | 141-CB |
| 17.4 | | | | 1189 | | 48.0 | 148 | 1830 | 78.7 | 1.35 | 23 | 141-CB |
| 18.4 | | | | | 1317 | 48.0 | 148 | 1830 | 79.8 | 1.35 | 23 | 141-CB |
| 20.0 | | | | | | 47.2 | 146 | 1830 | 81.6 | 1.35 | 23 | 141-CB |
| 10.7 | 690 | 1170 | | | | 55.0 | 148 | 2080 | 70.0 | 1.05 | 17 | 141-DB |
| 18.2 | | | 1310 | | | 55.0 | 148 | 2080 | 79.1 | 1.05 | 17 | 141-DB |
| 20.3 | | | | 1385 | | 55.0 | 148 | 2080 | 80.7 | 1.05 | 17 | 141-DB |
| 21.4 | | | | | 1528 | 55.0 | 148 | 2080 | 81.4 | 1.05 | 17 | 141-DB |
| 23.3 | | | | | | 54.1 | 146 | 2080 | 83.2 | 1.05 | 17 | 141-DB |
| # 13.0 | 825 | 1390 | | | | 65.0 | 150 | 2470 | 72.7 | 0.80 | 13 | 141-EB |
| 21.9 | | | 1550 | | | 65.0 | 150 | 2470 | 81.0 | 0.80 | 13 | 141-EB |
| 24.4 | | | | 1639 | | 65.0 | 150 | 2470 | 82.4 | 0.80 | 13 | 141-EB |
| 25.7 | | | | | 1803 | 65.0 | 150 | 2470 | 83.3 | 0.80 | 13 | 141-EB |
| 27.9 | | | | | | 63.9 | 148 | 2470 | 84.7 | 0.80 | 13 | 141-EB |
| # 16.2 | 1045 | 1720 | | | | 77.0 | 148 | 3000 | 77.3 | 0.53 | 9.0 | 141-FB |
| 26.7 | | | 1915 | | | 77.0 | 148 | 3000 | 84.0 | 0.53 | 9.0 | 141-FB |
| 29.7 | | | | 2016 | | 77.0 | 148 | 3000 | 85.1 | 0.53 | 9.0 | 141-FB |
| 31.2 | | | | | 2216 | 77.0 | 148 | 3000 | 85.8 | 0.53 | 9.0 | 141-FB |
| 33.7 | | | | | | 75.7 | 145 | 3000 | 86.9 | 0.53 | 9.0 | 141-FB |
| # 21.6 | 1365 | 2215 | | | | 98.0 | 151 | 3780 | 81.5 | 0.32 | 6.0 | 141-GB |
| 34.9 | | | 2455 | | | 98.0 | 151 | 3780 | 86.8 | 0.32 | 6.0 | 141-GB |
| 38.7 | | | | 2579 | | 98.0 | 151 | 3780 | 87.7 | 0.32 | 6.0 | 141-GB |
| 40.6 | | | | | 2827 | 98.0 | 151 | 3780 | 88.2 | 0.32 | 6.0 | 141-GB |
| 43.7 | | | | | | 96.4 | 148 | 3780 | 89.1 | 0.32 | 6.0 | 141-GB |
| 25.7 | 1880 | 3010 | | | | 114 | 131 | 4000 | 84.3 | 0.21 | 3.0 | 141-HB |
| 41.0 | | | 3330 | | | 114 | 130 | 4000 | 88.4 | 0.21 | 3.0 | 141-HB |
| 45.4 | | | | 3494 | | 114 | 130 | 4000 | 89.1 | 0.21 | 3.0 | 141-HB |
| 47.6 | | | | | 3827 | 114 | 130 | 4000 | 89.4 | 0.21 | 3.0 | 141-HB |
| 51.2 | | | | | | 112 | 128 | 4000 | 90.1 | 0.21 | 3.0 | 141-HB |

** Through field control with constant output. Please specify.

Field loss (hot) = 1000 W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 156 |
|-------------------|---|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|--------------------|
| | 260 | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 11.7 | | 465 | | | | 43.0 | 242 | 920 | 65.2 | 2.74 | 44.5 | 401-AB |
| 13.4 | | | 530 | | | 43.0 | 242 | 920 | 68.0 | 2.74 | 44.5 | 401-AB |
| 14.4 | | | | 568 | | 43.0 | 242 | 920 | 69.8 | 2.74 | 44.5 | 401-AB |
| 16.0 | | | | | 639 | 42.2 | 237 | 920 | 72.6 | 2.74 | 44.5 | 401-AB |
| 13.5 | | 545 | | | | 47.0 | 238 | 1040 | 68.9 | 2.17 | 36.1 | 401-BB |
| 15.4 | | | 620 | | | 47.0 | 238 | 1040 | 71.4 | 2.17 | 36.1 | 401-BB |
| 16.4 | | | | 661 | | 47.0 | 238 | 1040 | 73.0 | 2.17 | 36.1 | 401-BB |
| 18.1 | | | | | 740 | 46.2 | 234 | 1040 | 75.6 | 2.17 | 36.1 | 401-BB |
| 15.3 | | 635 | | | | 51.0 | 229 | 1210 | 71.8 | 1.78 | 28.5 | 401-CB |
| 17.3 | | | 720 | | | 51.0 | 229 | 1210 | 74.0 | 1.78 | 28.5 | 401-CB |
| 18.4 | | | | 763 | | 51.0 | 229 | 1210 | 75.5 | 1.78 | 28.5 | 401-CB |
| 20.2 | | | | | 856 | 50.1 | 225 | 1210 | 77.7 | 1.78 | 28.5 | 401-CB |
| 10.3 | 415 | | | | | 60.0 | 236 | 1345 | 62.7 | 1.36 | 21.8 | 401-DB |
| 18.5 | | 750 | | | | 60.0 | 236 | 1345 | 74.4 | 1.36 | 21.8 | 401-DB |
| 20.9 | | | 845 | | | 60.0 | 236 | 1345 | 76.5 | 1.36 | 21.8 | 401-DB |
| 22.1 | | | | 896 | | 60.0 | 236 | 1345 | 77.8 | 1.36 | 21.8 | 401-DB |
| 24.2 | | | | | 1000 | 59.0 | 232 | 1345 | 79.9 | 1.36 | 21.8 | 401-DB |
| 12.5 | 515 | | | | | 69.0 | 233 | 1645 | 66.8 | 1.03 | 16.0 | 401-EB |
| 22.0 | | 900 | | | | 69.0 | 233 | 1645 | 77.2 | 1.03 | 16.0 | 401-EB |
| 24.7 | | | 1010 | | | 69.0 | 233 | 1645 | 79.0 | 1.03 | 16.0 | 401-EB |
| 26.1 | | | | 1071 | | 69.0 | 233 | 1645 | 80.1 | 1.03 | 16.0 | 401-EB |
| 28.5 | | | | | 1192 | 67.8 | 229 | 1645 | 81.9 | 1.03 | 16.0 | 401-EB |
| 16.5 | 660 | | | | | 85.0 | 239 | 1920 | 72.0 | 0.69 | 11.1 | 401-FB |
| 28.2 | | 1125 | | | | 85.0 | 239 | 1920 | 80.8 | 0.69 | 11.1 | 401-FB |
| 31.5 | | | 1260 | | | 85.0 | 239 | 1920 | 82.5 | 0.69 | 11.1 | 401-FB |
| 33.3 | | | | 1331 | | 85.0 | 239 | 1920 | 83.2 | 0.69 | 11.1 | 401-FB |
| 36.1 | | | | | 1466 | 83.5 | 235 | 1920 | 84.6 | 0.69 | 11.1 | 401-FB |
| 20.9 | 895 | | | | | 99.0 | 223 | 2575 | 78.3 | 0.42 | 7.1 | 401-GB |
| 34.4 | | 1475 | | | | 99.0 | 223 | 2575 | 84.9 | 0.42 | 7.1 | 401-GB |
| 38.3 | | | 1645 | | | 99.0 | 223 | 2575 | 86.0 | 0.42 | 7.1 | 401-GB |
| 40.3 | | | | 1732 | | 99.0 | 223 | 2575 | 86.8 | 0.42 | 7.1 | 401-GB |
| 43.5 | | | | | 1899 | 97.3 | 219 | 2575 | 87.8 | 0.42 | 7.1 | 401-GB |
| 26.8 | 1235 | | | | | 123 | 207 | 3000 | 81.3 | 0.28 | 4.0 | 401-HB |
| 43.5 | | 2010 | | | | 123 | 207 | 3000 | 86.8 | 0.28 | 4.0 | 401-HB |
| 48.3 | | | 2230 | | | 123 | 207 | 3000 | 87.8 | 0.28 | 4.0 | 401-HB |
| 50.8 | | | | 2344 | | 123 | 207 | 3000 | 88.4 | 0.28 | 4.0 | 401-HB |
| 54.7 | | | | | 2567 | 121 | 203 | 3000 | 89.2 | 0.28 | 4.0 | 401-HB |

** Through field control with constant output. Please specify.

Field loss (hot) = 1350 W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 157 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|--------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 12.4 | 650 | 735 | 783 | 870 | 41.0 | 182 | 980 | 71.2 | 2.14 | 33.6 | 301-RC |
| 14.0 | | | | | 41.0 | 182 | 980 | 73.5 | 2.14 | 33.6 | 301-RC |
| 15.0 | | | | | 41.0 | 182 | 980 | 75.0 | 2.14 | 33.6 | 301-RC |
| 16.3 | | | | | 40.3 | 179 | 980 | 77.3 | 2.14 | 33.6 | 301-RC |
| 14.0 | 735 | 825 | 871 | 971 | 45.0 | 182 | 1050 | 73.5 | 1.75 | 28.2 | 301-PC |
| 15.7 | | | | | 45.0 | 182 | 1050 | 75.5 | 1.75 | 28.2 | 301-PC |
| 16.6 | | | | | 45.0 | 182 | 1050 | 76.8 | 1.75 | 28.2 | 301-PC |
| 18.3 | | | | | 44.3 | 179 | 1050 | 78.9 | 1.75 | 28.2 | 301-PC |
| 15.9 | 825 | 925 | 979 | 1087 | 50.0 | 185 | 1205 | 75.7 | 1.44 | 23.3 | 301-NC |
| 17.9 | | | | | 50.0 | 185 | 1205 | 77.6 | 1.44 | 23.3 | 301-NC |
| 18.0 | | | | | 50.0 | 185 | 1205 | 78.8 | 1.44 | 23.3 | 301-NC |
| 20.7 | | | | | 49.2 | 182 | 1205 | 80.7 | 1.44 | 23.3 | 301-NC |
| 18.2 | 935 | 1045 | 1106 | 1226 | 56.0 | 186 | 1400 | 77.6 | 1.17 | 18.9 | 301-MC |
| 20.4 | | | | | 56.0 | 186 | 1400 | 79.3 | 1.17 | 18.9 | 301-MC |
| 21.5 | | | | | 56.0 | 186 | 1400 | 80.5 | 1.17 | 18.9 | 301-MC |
| 23.5 | | | | | 55.1 | 183 | 1400 | 82.2 | 1.17 | 18.9 | 301-MC |
| 20.9 | 1075 | 1200 | 1267 | 1399 | 63.0 | 186 | 1575 | 79.8 | 0.92 | 14.9 | 301-LC |
| 23.4 | | | | | 63.0 | 186 | 1575 | 81.4 | 0.92 | 14.9 | 301-LC |
| 24.8 | | | | | 63.0 | 186 | 1575 | 82.4 | 0.92 | 14.9 | 301-LC |
| 26.8 | | | | | 62.0 | 183 | 1575 | 83.9 | 0.92 | 14.9 | 301-LC |
| 24.3 | 1245 | 1390 | 1468 | 1615 | 72.0 | 187 | 1850 | 81.5 | 0.72 | 11.5 | 301-KC |
| 27.1 | | | | | 72.0 | 187 | 1850 | 82.9 | 0.72 | 11.5 | 301-KC |
| 28.7 | | | | | 72.0 | 187 | 1850 | 83.9 | 0.72 | 11.5 | 301-KC |
| 31.1 | | | | | 70.8 | 183 | 1850 | 85.3 | 0.72 | 11.5 | 301-KC |
| 29.5 | 1490 | 1660 | 1747 | 1923 | 85.0 | 189 | 2125 | 84.1 | 0.50 | 8.4 | 301-HC |
| 32.8 | | | | | 85.0 | 189 | 2125 | 85.3 | 0.50 | 8.4 | 301-HC |
| 34.5 | | | | | 85.0 | 189 | 2125 | 86.0 | 0.50 | 8.4 | 301-HC |
| 37.3 | | | | | 83.6 | 186 | 2125 | 87.2 | 0.50 | 8.4 | 301-HC |
| # 36.1 | 1830 | 2030 | 2134 | 2346 | 102 | 189 | 2470 | 86.2 | 0.35 | 5.9 | 301-GC |
| 40.1 | | | | | 102 | 189 | 2470 | 87.2 | 0.35 | 5.9 | 301-GC |
| 42.0 | | | | | 102 | 189 | 2470 | 87.9 | 0.35 | 5.9 | 301-GC |
| 45.5 | | | | | 100 | 185 | 2590 | 88.9 | 0.35 | 5.9 | 301-GC |
| 45.8 | 2330 | 2580 | 2711 | 2971 | 127 | 188 | 3325 | 88.4 | 0.22 | 3.8 | 301-FC |
| 50.8 | | | | | 127 | 188 | 3325 | 89.2 | 0.22 | 3.8 | 301-FC |
| 53.3 | | | | | 127 | 188 | 3325 | 89.7 | 0.22 | 3.8 | 301-FC |
| 57.4 | | | | | 124 | 185 | 3325 | 90.5 | 0.22 | 3.8 | 301-FC |
| 51.6 | 2630 | 2910 | 3050 | 3335 | 142 | 188 | 3500 | 89.8 | 0.18 | 3.0 | 301-EB |
| 57.2 | | | | | 142 | 188 | 3500 | 90.6 | 0.18 | 3.0 | 301-EB |
| 59.8 | | | | | 142 | 188 | 3500 | 90.8 | 0.18 | 3.0 | 301-EB |
| 64.6 | | | | | 140 | 185 | 3500 | 91.4 | 0.18 | 3.0 | 301-EB |
| 61.0 | 3165 | | | | 166 | 184 | 3500 | 90.4 | 0.13 | 2.1 | 301-EC |

** Through field control with constant output. Please specify.

Field loss (hot) = 1050 W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 157 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 14.8 | 680 | 765 | 812 | 899 | 47.0 | 208 | 1080 | 75.4 | 1.59 | 26.3 | 601-RC |
| 16.7 | | | | | 47.0 | 208 | 1080 | 77.3 | 1.59 | 26.3 | 601-RC |
| 17.6 | | | | | 47.0 | 208 | 1080 | 78.6 | 1.59 | 26.3 | 601-RC |
| 19.3 | | | | | 46.2 | 205 | 1080 | 80.5 | 1.59 | 26.3 | 601-RC |
| 16.4 | 755 | 845 | 935 | 995 | 51.0 | 207 | 1180 | 76.9 | 1.36 | 22.1 | 601-PC |
| 18.4 | | | | | 51.0 | 207 | 1180 | 78.7 | 1.36 | 22.1 | 601-PC |
| 19.5 | | | | | 51.0 | 207 | 1180 | 79.5 | 1.36 | 22.1 | 601-PC |
| 21.2 | | | | | 50.1 | 204 | 1180 | 81.7 | 1.36 | 22.1 | 601-PC |
| 18.7 | 845 | 950 | 1003 | 1106 | 57.0 | 211 | 1280 | 78.9 | 1.12 | 18.3 | 601-NC |
| 20.9 | | | | | 57.0 | 211 | 1280 | 80.5 | 1.12 | 18.3 | 601-NC |
| 22.1 | | | | | 57.0 | 211 | 1280 | 81.6 | 1.12 | 18.3 | 601-NC |
| 23.9 | | | | | 56.0 | 207 | 1280 | 83.0 | 1.12 | 18.3 | 601-NC |
| 20.9 | 955 | 1065 | 1125 | 1245 | 63.0 | 210 | 1430 | 80.3 | 0.92 | 14.9 | 601-MC |
| 23.4 | | | | | 63.0 | 210 | 1430 | 81.9 | 0.92 | 14.9 | 601-MC |
| 24.8 | | | | | 63.0 | 210 | 1430 | 82.8 | 0.92 | 14.9 | 601-MC |
| 26.8 | | | | | 61.9 | 206 | 1430 | 84.3 | 0.92 | 14.9 | 601-MC |
| 24.4 | 1095 | 1220 | 1287 | 1418 | 72.0 | 213 | 1580 | 82.3 | 0.71 | 11.7 | 601-LC |
| 27.3 | | | | | 72.0 | 213 | 1580 | 83.7 | 0.71 | 11.7 | 601-LC |
| 28.8 | | | | | 72.0 | 213 | 1580 | 84.6 | 0.71 | 11.7 | 601-LC |
| 31.2 | | | | | 70.8 | 210 | 1580 | 85.9 | 0.71 | 11.7 | 601-LC |
| 28.5 | 1275 | 1420 | 1493 | 1644 | 82.5 | 214 | 1800 | 84.1 | 0.54 | 9.0 | 601-KC |
| 31.7 | | | | | 82.5 | 214 | 1800 | 85.3 | 0.54 | 9.0 | 601-KC |
| 33.4 | | | | | 82.5 | 214 | 1800 | 86.1 | 0.54 | 9.0 | 601-KC |
| 36.2 | | | | | 81.1 | 210 | 1800 | 87.3 | 0.54 | 9.0 | 601-KC |
| 34.1 | 1515 | 1680 | 1767 | 1942 | 97.0 | 215 | 2100 | 86.0 | 0.40 | 6.6 | 601-HC |
| 37.9 | | | | | 97.0 | 215 | 2100 | 87.0 | 0.40 | 6.6 | 601-HC |
| 39.8 | | | | | 97.0 | 215 | 2100 | 87.7 | 0.40 | 6.6 | 601-HC |
| 43.0 | | | | | 95.3 | 212 | 2100 | 88.7 | 0.40 | 6.6 | 601-HC |
| 41.1 | 1845 | 2050 | 2153 | 2365 | 115 | 213 | 2550 | 87.7 | 0.28 | 4.6 | 601-GC |
| 45.6 | | | | | 115 | 213 | 2550 | 88.6 | 0.28 | 4.6 | 601-GC |
| 48.0 | | | | | 115 | 213 | 2550 | 89.2 | 0.28 | 4.6 | 601-GC |
| 51.7 | | | | | 113 | 209 | 2550 | 90.1 | 0.28 | 4.6 | 601-GC |
| 43.2 | 2020 | 2240 | 2350 | 2570 | 120 | 204 | 3000 | 88.7 | 0.25 | 4.0 | 601-GB |
| 47.9 | | | | | 120 | 204 | 3000 | 89.5 | 0.25 | 4.0 | 601-GB |
| 50.2 | | | | | 120 | 204 | 3000 | 89.9 | 0.25 | 4.0 | 601-GB |
| 54.3 | | | | | 119 | 202 | 3000 | 90.5 | 0.25 | 4.0 | 601-GB |
| 52.5 | 2350 | 2605 | 2736 | 2995 | 144 | 213 | 3170 | 89.7 | 0.18 | 2.9 | 601-FC |
| 58.1 | | | | | 144 | 213 | 3170 | 90.5 | 0.18 | 2.9 | 601-FC |
| 61.0 | | | | | 144 | 213 | 3170 | 90.9 | 0.18 | 2.9 | 601-FC |
| 65.0 | | | | | 140 | 207 | 3170 | 91.6 | 0.18 | 2.9 | 601-FC |
| 56.4 | 2640 | 2925 | 3065 | 3350 | 154 | 204 | 3500 | 90.5 | 0.15 | 2.4 | 601-EB |
| 62.4 | | | | | 154 | 204 | 3500 | 91.1 | 0.15 | 2.4 | 601-EB |
| 65.2 | | | | | 154 | 203 | 3500 | 91.4 | 0.15 | 2.4 | 601-EB |
| 70.4 | | | | | 152 | 201 | 3500 | 92.0 | 0.15 | 2.4 | 601-EB |
| 70.0 | 3190 | | | | 189 | 210 | 3500 | 91.6 | 0.10 | 1.7 | 601-EC ¹ |

** Through field control with constant output. Please specify.

Field loss (hot) = 1050 W

¹) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 10% reduction of output.

Data subject to change without prior notice.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 157 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|--------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 15.4 | 620 | 700 | 744 | 827 | 50.0 | 237 | 925 | 72.5 | 1.64 | 28.3 | 201-NC |
| 17.4 | | | | | 50.0 | 237 | 925 | 74.7 | 1.64 | 28.3 | 201-NC |
| 18.4 | | | | | 50.0 | 237 | 925 | 76.0 | 1.64 | 28.3 | 201-NC |
| 20.2 | | | | | 50.0 | 233 | 925 | 78.2 | 1.64 | 28.3 | 201-NC |
| 17.6 | 710 | 795 | 842 | 937 | 56.0 | 238 | 1125 | 74.6 | 1.33 | 22.9 | 201-MC |
| 19.8 | | | | | 56.0 | 238 | 1125 | 76.6 | 1.33 | 22.9 | 201-MC |
| 21.0 | | | | | 56.0 | 238 | 1125 | 77.9 | 1.33 | 22.9 | 201-MC |
| 23.0 | | | | | 55.1 | 234 | 1125 | 79.9 | 1.33 | 22.9 | 201-MC |
| 20.4 | 815 | 915 | 969 | 1072 | 63.0 | 239 | 1265 | 77.1 | 1.05 | 18.1 | 201-LC |
| 22.9 | | | | | 63.0 | 239 | 1265 | 78.9 | 1.05 | 18.1 | 201-LC |
| 24.2 | | | | | 63.0 | 239 | 1265 | 80.0 | 1.05 | 18.1 | 201-LC |
| 26.3 | | | | | 62.0 | 235 | 1265 | 81.8 | 1.05 | 18.1 | 201-LC |
| 23.8 | 950 | 1065 | 1126 | 1245 | 72.0 | 238 | 1490 | 79.1 | 0.83 | 13.85 | 201-KC |
| 26.6 | | | | | 72.0 | 238 | 1490 | 80.7 | 0.83 | 13.85 | 201-KC |
| 28.1 | | | | | 72.0 | 238 | 1490 | 81.7 | 0.83 | 13.85 | 201-KC |
| 30.5 | | | | | 70.8 | 234 | 1490 | 83.3 | 0.83 | 13.85 | 201-KC |
| 28.9 | 1145 | 1275 | 1346 | 1481 | 85.0 | 242 | 1690 | 82.0 | 0.58 | 10.2 | 201-HC |
| 32.2 | | | | | 85.0 | 242 | 1690 | 83.4 | 0.58 | 10.2 | 201-HC |
| 34.0 | | | | | 85.0 | 242 | 1690 | 84.3 | 0.58 | 10.2 | 201-HC |
| 36.8 | | | | | 83.6 | 237 | 1690 | 85.6 | 0.58 | 10.2 | 201-HC |
| # 35.5 | 1410 | 1565 | 1644 | 1812 | 102 | 241 | 2000 | 84.4 | 0.40 | 7.05 | 201-GC |
| 39.5 | | | | | 102 | 241 | 2000 | 85.6 | 0.40 | 7.05 | 201-GC |
| 41.4 | | | | | 102 | 241 | 2000 | 86.3 | 0.40 | 7.05 | 201-GC |
| 44.9 | | | | | 100 | 237 | 2000 | 87.5 | 0.40 | 7.05 | 201-GC |
| 45.2 | 1800 | 1995 | 2099 | 2298 | 127 | 240 | 2675 | 86.9 | 0.25 | 4.50 | 201-FC |
| 50.2 | | | | | 127 | 240 | 2675 | 87.9 | 0.25 | 4.50 | 201-FC |
| 52.8 | | | | | 127 | 240 | 2675 | 88.5 | 0.25 | 4.50 | 201-FC |
| 56.9 | | | | | 125 | 236 | 2675 | 89.4 | 0.25 | 4.50 | 201-FC |
| 50.3 | 2030 | 2250 | 2360 | 2585 | 140 | 237 | 2980 | 88.6 | 0.21 | 3.63 | 201-EB |
| 55.8 | | | | | 140 | 237 | 2980 | 89.4 | 0.21 | 3.63 | 201-EB |
| 58.5 | | | | | 140 | 237 | 2980 | 89.7 | 0.21 | 3.63 | 201-EB |
| 63.3 | | | | | 138 | 233 | 2980 | 90.7 | 0.21 | 3.63 | 201-EB |
| # 60.4 | 2450 | 2715 | 2848 | 3120 | 166 | 235 | 3500 | 89.2 | 0.15 | 2.55 | 201-EC |
| 66.8 | | | | | 166 | 235 | 3500 | 90.0 | 0.15 | 2.55 | 201-EC |
| 70.0 | | | | | 166 | 235 | 3500 | 90.4 | 0.15 | 2.55 | 201-EC |
| 75.3 | | | | | 163 | 231 | 3500 | 91.1 | 0.15 | 2.55 | 201-EC |
| 73.5 | 2920 | 3230 | 3386 | | 200 | 241 | 3500 | 91.0 | 0.09 | 1.85 | 201-CB |
| 79.5 | | | | | 200 | 240 | 3500 | 91.5 | 0.09 | 1.85 | 201-CB |
| 83.7 | | | | | 200 | 240 | 3500 | 91.8 | 0.09 | 1.85 | 201-CB |

** Through field control with constant output. Please specify.

Field loss (hot) = 1250 W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 157 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 18.1 | 640 | 720 | 763 | 846 | 57.0 | 270 | 1040 | 75.9 | 1.28 | 23.6 | 501-NC |
| 20.3 | | | | | 57.0 | 270 | 1040 | 77.8 | 1.28 | 23.6 | 501-NC |
| 21.5 | | | | | 57.0 | 270 | 1040 | 79.0 | 1.28 | 23.6 | 501-NC |
| 23.5 | | | | | 56.0 | 265 | 1040 | 80.9 | 1.28 | 23.6 | 501-NC |
| 20.4 | 725 | 815 | 861 | 957 | 63.0 | 269 | 1150 | 77.7 | 1.05 | 19.1 | 501-MC |
| 22.9 | | | | | 63.0 | 269 | 1150 | 79.5 | 1.05 | 19.1 | 501-MC |
| 24.2 | | | | | 63.0 | 269 | 1150 | 80.6 | 1.05 | 19.1 | 501-MC |
| 26.3 | | | | | 61.9 | 264 | 1150 | 82.3 | 1.05 | 19.1 | 501-MC |
| 23.9 | 840 | 935 | 989 | 1091 | 72.0 | 273 | 1280 | 80.1 | 0.81 | 15.1 | 501-LC |
| 26.8 | | | | | 72.0 | 273 | 1280 | 81.6 | 0.81 | 15.1 | 501-LC |
| 28.3 | | | | | 72.0 | 273 | 1280 | 82.6 | 0.81 | 15.1 | 501-LC |
| 30.7 | | | | | 70.8 | 269 | 1280 | 84.1 | 0.81 | 15.1 | 501-LC |
| 28.0 | 975 | 1090 | 1150 | 1264 | 82.5 | 274 | 1450 | 82.1 | 0.62 | 11.6 | 501-KC |
| 31.2 | | | | | 82.5 | 274 | 1450 | 83.5 | 0.62 | 11.6 | 501-KC |
| 33.0 | | | | | 82.5 | 274 | 1450 | 84.4 | 0.62 | 11.6 | 501-KC |
| 35.7 | | | | | 81.1 | 269 | 1450 | 85.7 | 0.62 | 11.6 | 501-KC |
| 33.6 | 1165 | 1295 | 1365 | 1500 | 97.0 | 276 | 1680 | 84.3 | 0.45 | 8.5 | 501-HC |
| 37.4 | | | | | 97.0 | 276 | 1680 | 85.4 | 0.45 | 8.5 | 501-HC |
| 39.4 | | | | | 97.0 | 276 | 1680 | 86.2 | 0.45 | 8.5 | 501-HC |
| 42.6 | | | | | 95.3 | 271 | 1680 | 87.4 | 0.45 | 8.5 | 501-HC |
| 40.6 | 1425 | 1585 | 1664 | 1832 | 115 | 273 | 2050 | 86.3 | 0.32 | 5.9 | 501-GC |
| 45.2 | | | | | 115 | 273 | 2050 | 87.4 | 0.32 | 5.9 | 501-GC |
| 47.5 | | | | | 115 | 273 | 2050 | 88.0 | 0.32 | 5.9 | 501-GC |
| 51.2 | | | | | 113 | 268 | 2050 | 89.1 | 0.32 | 5.9 | 501-GC |
| 42.5 | 1560 | 1730 | 1815 | 1990 | 120 | 260 | 2420 | 87.1 | 0.29 | 4.9 | 501-GB |
| 47.2 | | | | | 120 | 260 | 2420 | 87.6 | 0.29 | 4.9 | 501-GB |
| 49.4 | | | | | 120 | 260 | 2420 | 88.4 | 0.29 | 4.9 | 501-GB |
| 53.6 | | | | | 118 | 257 | 2420 | 89.2 | 0.29 | 4.9 | 501-GB |
| 52.0 | 1820 | 2015 | 2119 | 2322 | 144 | 273 | 2550 | 88.6 | 0.20 | 3.8 | 501-FC |
| 57.6 | | | | | 144 | 273 | 2550 | 89.4 | 0.20 | 3.8 | 501-FC |
| 60.5 | | | | | 144 | 273 | 2550 | 90.0 | 0.20 | 3.8 | 501-FC |
| 65.2 | | | | | 142 | 268 | 2550 | 90.7 | 0.20 | 3.8 | 501-FC |
| 55.8 | 2050 | 2270 | 2375 | 2600 | 154 | 261 | 3110 | 89.4 | 0.18 | 2.9 | 501-EB |
| 61.8 | | | | | 154 | 261 | 3110 | 90.1 | 0.18 | 2.9 | 501-EB |
| 64.8 | | | | | 154 | 261 | 3110 | 90.7 | 0.18 | 2.9 | 501-EB |
| 69.5 | | | | | 151 | 256 | 3110 | 91.3 | 0.18 | 2.9 | 501-EB |
| 69.5 | 2470 | 2735 | 2873 | 3139 | 189 | 269 | 3420 | 90.7 | 0.12 | 2.1 | 501-EC ¹ |
| 76.9 | | | | | 189 | 269 | 3420 | 91.3 | 0.12 | 2.1 | 501-EC ¹ |
| 80.6 | | | | | 189 | 269 | 3420 | 91.7 | 0.12 | 2.1 | 501-EC ¹ |
| 86.6 | | | | | 186 | 264 | 3420 | 92.3 | 0.12 | 2.1 | 501-EC ¹ |
| 77.9 | 2940 | 3250 | 3406 | | 210 | 253 | 3500 | 91.6 | 0.09 | 1.5 | 501-CB |
| 86.0 | | | | | 210 | 253 | 3500 | 92.1 | 0.09 | 1.5 | 501-CB |
| 90.2 | | | | | 210 | 253 | 3500 | 92.4 | 0.09 | 1.5 | 501-CB |

** Through field control with constant output. Please specify.

Field loss (hot) = 1250 W

¹) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 10% reduction of output.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 157 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|--------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 19.6 | 605 | 680 | 724 | 803 | 63.0 | 310 | 1000 | 73.8 | 1.24 | 22.6 | 101-LC |
| 22.1 | | | | | 63.0 | 310 | 1000 | 75.9 | 1.24 | 22.6 | 101-LC |
| 23.5 | | | | | 63.0 | 310 | 1000 | 77.2 | 1.24 | 22.6 | 101-LC |
| 25.6 | | | | | 62.0 | 305 | 1000 | 77.2 | 1.24 | 22.6 | 101-LC |
| 23.0 | 710 | 795 | 842 | 933 | 72.0 | 310 | 1175 | 76.2 | 0.97 | 17.3 | 101-KC |
| 25.8 | | | | | 72.0 | 310 | 1175 | 78.0 | 0.97 | 17.3 | 101-KC |
| 27.3 | | | | | 72.0 | 310 | 1175 | 79.2 | 0.97 | 17.3 | 101-KC |
| 29.8 | | | | | 70.8 | 305 | 1175 | 82.0 | 0.97 | 17.3 | 101-KC |
| 28.2 | 860 | 960 | 1013 | 1120 | 85.0 | 313 | 1330 | 79.5 | 0.68 | 12.7 | 101-HC |
| 31.5 | | | | | 85.0 | 313 | 1330 | 81.1 | 0.68 | 12.7 | 101-HC |
| 33.3 | | | | | 85.0 | 313 | 1330 | 82.1 | 0.68 | 12.7 | 101-HC |
| 36.1 | | | | | 83.6 | 308 | 1330 | 83.7 | 0.68 | 12.7 | 101-HC |
| 34.7 | 1060 | 1180 | 1243 | 1370 | 102 | 313 | 1565 | 82.3 | 0.48 | 8.85 | 101-GC |
| 38.7 | | | | | 102 | 313 | 1565 | 83.6 | 0.48 | 8.85 | 101-GC |
| 40.7 | | | | | 102 | 313 | 1565 | 84.5 | 0.48 | 8.85 | 101-GC |
| 44.1 | | | | | 100 | 308 | 1565 | 85.8 | 0.48 | 8.85 | 101-GC |
| # 44.4 | 1360 | 1510 | 1590 | 1745 | 127 | 312 | 2105 | 85.1 | 0.30 | 5.65 | 101-FC |
| 49.4 | | | | | 127 | 312 | 2105 | 86.2 | 0.30 | 5.65 | 101-FC |
| 52.0 | | | | | 127 | 312 | 2105 | 86.9 | 0.30 | 5.65 | 101-FC |
| 56.2 | | | | | 125 | 307 | 2105 | 88.0 | 0.30 | 5.65 | 101-FC |
| 49.6 | 1540 | 1710 | 1790 | 1965 | 140 | 308 | 2350 | 87.1 | 0.25 | 4.6 | 101-EB |
| 55.1 | | | | | 140 | 308 | 2350 | 88.0 | 0.25 | 4.6 | 101-EB |
| 57.8 | | | | | 140 | 308 | 2350 | 88.6 | 0.25 | 4.6 | 101-EB |
| 62.5 | | | | | 138 | 302 | 2350 | 89.5 | 0.25 | 4.6 | 101-EB |
| # 59.6 | 1860 | 2060 | 2168 | 2375 | 166 | 306 | 2815 | 87.9 | 0.18 | 3.2 | 101-EC |
| 66.1 | | | | | 166 | 306 | 2815 | 88.7 | 0.18 | 3.2 | 101-EC |
| 69.4 | | | | | 166 | 306 | 2815 | 89.3 | 0.18 | 3.2 | 101-EC |
| 74.7 | | | | | 163 | 301 | 2815 | 90.1 | 0.18 | 3.2 | 101-EC |
| # 73.1 | 2220 | 2460 | 2579 | 2822 | 200 | 314 | 3230 | 90.3 | 0.11 | 2.3 | 101-CB |
| 80.9 | | | | | 200 | 314 | 3230 | 90.9 | 0.11 | 2.3 | 101-CB |
| 84.9 | | | | | 200 | 314 | 3230 | 91.3 | 0.11 | 2.3 | 101-CB |
| 92.7 | | | | | 200 | 314 | 3230 | 91.9 | 0.11 | 2.3 | 101-CB |
| # 86.4 | 2815 | 3100 | 3259 | | 234 | 294 | 3500 | 91.4 | 0.08 | 1.5 | 101-BB |
| 95.5 | | | | | 234 | 294 | 3500 | 91.9 | 0.08 | 1.5 | 101-BB |
| 98.1 | | | | | 234 | 293 | 3500 | 92.3 | 0.08 | 1.5 | 101-BB |

** Through field control with constant output. Please specify.

Field loss (hot) = 1400 W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 157 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 23.2 | 620 | 695 | 739 | 817 | 72.0 | 357 | 990 | 77.7 | 0.95 | 19.6 | 401-LC |
| 26.0 | | | | | 72.0 | 357 | 990 | 79.5 | 0.95 | 19.6 | 401-LC |
| 27.6 | | | | | 72.0 | 357 | 990 | 80.6 | 0.95 | 19.6 | 401-LC |
| 30.0 | | | | | 70.8 | 350 | 990 | 82.0 | 0.95 | 19.6 | 401-LC |
| 27.2 | 725 | 815 | 861 | 952 | 82.5 | 358 | 1130 | 80.0 | 0.73 | 15.0 | 401-KC |
| 30.5 | | | | | 82.5 | 358 | 1130 | 81.2 | 0.73 | 15.0 | 401-KC |
| 32.2 | | | | | 82.5 | 358 | 1130 | 82.2 | 0.73 | 15.0 | 401-KC |
| 34.9 | | | | | 81.1 | 351 | 1130 | 83.8 | 0.73 | 15.0 | 401-KC |
| 32.9 | 870 | 970 | 1023 | 1130 | 97.0 | 361 | 1310 | 82.4 | 0.53 | 11.0 | 401-HC |
| 36.6 | | | | | 97.0 | 361 | 1310 | 83.8 | 0.53 | 11.0 | 401-HC |
| 38.7 | | | | | 97.0 | 361 | 1310 | 84.7 | 0.53 | 11.0 | 401-HC |
| 41.8 | | | | | 95.3 | 354 | 1310 | 85.7 | 0.53 | 11.0 | 401-HC |
| 39.9 | 1070 | 1190 | 1253 | 1380 | 115 | 357 | 1590 | 84.8 | 0.37 | 7.6 | 401-GC |
| 44.4 | | | | | 115 | 357 | 1590 | 85.9 | 0.37 | 7.6 | 401-GC |
| 46.8 | | | | | 115 | 357 | 1590 | 86.7 | 0.37 | 7.6 | 401-GC |
| 50.5 | | | | | 113 | 350 | 1590 | 87.6 | 0.37 | 7.6 | 401-GC |
| 41.9 | 1180 | 1310 | 1375 | 1510 | 120 | 340 | 1900 | 85.7 | 0.33 | 6.6 | 401-GB |
| 46.6 | | | | | 120 | 340 | 1900 | 86.7 | 0.33 | 6.6 | 401-GB |
| 48.8 | | | | | 120 | 340 | 1900 | 87.2 | 0.33 | 6.6 | 401-GB |
| 53.2 | | | | | 119 | 336 | 1900 | 88.1 | 0.33 | 6.6 | 401-GB |
| 51.3 | 1370 | 1525 | 1600 | 1755 | 144 | 357 | 1985 | 87.5 | 0.24 | 4.9 | 401-FC |
| 56.9 | | | | | 144 | 357 | 1985 | 88.4 | 0.24 | 4.9 | 401-FC |
| 59.8 | | | | | 144 | 357 | 1985 | 89.0 | 0.24 | 4.9 | 401-FC |
| 64.3 | | | | | 142 | 350 | 1985 | 89.5 | 0.24 | 4.9 | 401-FC |
| 55.0 | 1550 | 1720 | 1805 | 1975 | 154 | 339 | 2450 | 88.0 | 0.21 | 4.0 | 401-EB |
| 61.1 | | | | | 154 | 339 | 2450 | 88.9 | 0.21 | 4.0 | 401-EB |
| 64.0 | | | | | 154 | 339 | 2450 | 89.4 | 0.21 | 4.0 | 401-EB |
| 68.9 | | | | | 151 | 333 | 2450 | 90.2 | 0.21 | 4.0 | 401-EB |
| 68.8 | 1870 | 2075 | 2178 | 2380 | 189 | 351 | 2690 | 89.8 | 0.14 | 2.8 | 401-EC ¹ |
| 76.2 | | | | | 189 | 351 | 2690 | 90.5 | 0.14 | 2.8 | 401-EC ¹ |
| 80.0 | | | | | 189 | 351 | 2690 | 90.9 | 0.14 | 2.8 | 401-EC ¹ |
| 85.8 | | | | | 186 | 344 | 2690 | 91.3 | 0.14 | 2.8 | 401-EC ¹ |
| 77.4 | 2230 | 2465 | 2589 | 2827 | 210 | 331 | 3480 | 90.8 | 0.10 | 2.0 | 401-CB |
| 85.5 | | | | | 210 | 331 | 3480 | 91.4 | 0.10 | 2.0 | 401-CB |
| 89.7 | | | | | 210 | 331 | 3480 | 91.8 | 0.10 | 2.0 | 401-CB |
| 96.2 | | | | | 207 | 325 | 3480 | 92.3 | 0.10 | 2.0 | 401-CB |
| 92.6 | 2810 | 3105 | 3254 | | 250 | 315 | 3500 | 91.6 | 0.07 | 1.3 | 401-BB ¹ |
| 102 | | | | | 250 | 315 | 3500 | 92.1 | 0.07 | 1.3 | 401-BB ¹ |
| 107 | | | | | 250 | 315 | 3500 | 92.4 | 0.07 | 1.3 | 401-BB ¹ |

** Through field control with constant output. Please specify.

Field loss (hot) = 1400 W

¹) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 10% reduction of output.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 157 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|---------------------|-----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 21.8 | 410 | 460 | 489 | 548 | 72.0 | 508 | 715 | 72.2 | 1.21 | 29.0 | 701-LC |
| 24.6 | | | | | 72.0 | 508 | 715 | 74.4 | 1.21 | 29.0 | 701-LC |
| 26.1 | | | | | 72.0 | 508 | 715 | 75.8 | 1.21 | 29.0 | 701-LC |
| 28.7 | | 70.8 | 500 | | 715 | 78.2 | 1.21 | 29.0 | 701-LC | | |
| 25.8 | 485 | 545 | 577 | 644 | 82.5 | 509 | 815 | 75.0 | 0.94 | 22.2 | 701-KC |
| 29.0 | | | | | 82.5 | 510 | 815 | 77.0 | 0.94 | 22.2 | 701-KC |
| 30.8 | | | | | 82.5 | 510 | 815 | 78.3 | 0.94 | 22.2 | 701-KC |
| 33.7 | | 81.1 | 501 | | 815 | 80.2 | 0.94 | 22.2 | 701-KC | | |
| 31.4 | 585 | 655 | 690 | 769 | 97.0 | 514 | 945 | 78.2 | 0.69 | 16.3 | 701-HC |
| 35.2 | | | | | 97.0 | 514 | 945 | 79.9 | 0.69 | 16.3 | 701-HC |
| 37.2 | | | | | 97.0 | 514 | 945 | 81.0 | 0.69 | 16.3 | 701-HC |
| 40.6 | | 95.3 | 505 | | 945 | 82.6 | 0.69 | 16.3 | 701-HC | | |
| 38.5 | 725 | 810 | 851 | 947 | 115 | 508 | 1145 | 81.2 | 0.47 | 11.3 | 701-GC |
| 43.0 | | | | | 115 | 508 | 1145 | 82.6 | 0.47 | 11.3 | 701-GC |
| 45.3 | | | | | 115 | 508 | 1145 | 83.6 | 0.47 | 11.3 | 701-GC |
| 49.3 | | 113 | 499 | | 1145 | 85.1 | 0.47 | 11.3 | 701-GC | | |
| 40.6 | 800 | 890 | 935 | 1030 | 120 | 487 | 1350 | 82.2 | 0.43 | 9.6 | 701-GB |
| 45.3 | | | | | 120 | 487 | 1350 | 83.6 | 0.43 | 9.6 | 701-GB |
| 47.7 | | | | | 120 | 487 | 1350 | 84.2 | 0.43 | 9.6 | 701-GB |
| 51.9 | | 119 | 481 | | 1350 | 85.3 | 0.43 | 9.6 | 701-GB | | |
| 49.9 | 935 | 1045 | 1096 | 1207 | 144 | 509 | 1430 | 84.5 | 0.30 | 7.3 | 701-FC |
| 55.5 | | | | | 144 | 509 | 1430 | 85.7 | 0.30 | 7.3 | 701-FC |
| 58.4 | | | | | 144 | 509 | 1430 | 86.4 | 0.30 | 7.3 | 701-FC |
| 63.3 | | 142 | 500 | | 1430 | 87.6 | 0.30 | 7.3 | 701-FC | | |
| 53.8 | 1060 | 1170 | 1235 | 1353 | 154 | 487 | 1750 | 85.3 | 0.27 | 5.8 | 701-EB |
| 59.8 | | | | | 154 | 487 | 1750 | 86.4 | 0.27 | 5.8 | 701-EB |
| 62.8 | | | | | 154 | 487 | 1750 | 87.1 | 0.27 | 5.8 | 701-EB |
| 67.7 | | 151 | 478 | | 1750 | 88.2 | 0.27 | 5.8 | 701-EB | | |
| 67.4 | 1290 | 1430 | 1502 | 1644 | 189 | 500 | 1995 | 87.6 | 0.17 | 4.1 | 701-EC ¹ |
| 74.9 | | | | | 189 | 500 | 1995 | 88.5 | 0.17 | 4.1 | 701-EC ¹ |
| 78.7 | | | | | 189 | 500 | 1995 | 89.0 | 0.17 | 4.1 | 701-EC ¹ |
| 84.7 | | 186 | 492 | | 1995 | 89.8 | 0.17 | 4.1 | 701-EC ¹ | | |
| # 76.4 | 1540 | 1705 | 1791 | 1962 | 210 | 473 | 2510 | 89.3 | 0.12 | 3.0 | 701-CB ¹ |
| 84.6 | | | | | 210 | 473 | 2510 | 90.0 | 0.12 | 3.0 | 701-CB ¹ |
| 88.8 | | | | | 210 | 473 | 2510 | 90.5 | 0.12 | 3.0 | 701-CB ¹ |
| 95.5 | | 206 | 465 | | 2510 | 91.2 | 0.12 | 3.0 | 701-CB ¹ | | |
| 91.7 | 1945 | 2155 | 2261 | 2471 | 250 | 450 | 2745 | 90.4 | 0.09 | 1.9 | 701-BB ² |
| 101 | | | | | 250 | 450 | 2745 | 91.0 | 0.09 | 1.9 | 701-BB ² |
| 106 | | | | | 250 | 450 | 2745 | 91.4 | 0.09 | 1.9 | 701-BB ² |
| 114 | | 246 | 442 | | 2745 | 91.9 | 0.09 | 1.9 | 701-BB ² | | |

** Through field control with constant output. Please specify. Field loss (hot) = 2000 W

- 1) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 10% reduction of output.
- 2) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 15% reduction of output.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 159 |
|-------------------|---|------|-------|-------|----------------------------|-------------|---|----------------|---------------------|-----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 27.0 | 650 | 730 | 770 | 850 | 85 | 400 | 2300 | 77.9 | 0.73 | 15.7 | 101-RC |
| 31.0 | | | | | 85 | 400 | 2300 | 79.7 | 0.73 | 15.7 | 101-RC |
| 32.2 | | | | | 85 | 400 | 2300 | 80.5 | 0.73 | 15.7 | 101-RC |
| 35.3 | | 84 | 397 | | 2300 | 81.9 | 0.73 | 15.7 | 101-RC | | |
| 32.0 | 750 | 840 | 881 | 981 | 97 | 406 | 1500 | 80.2 | 0.63 | 12.4 | 101-PC |
| 36.0 | | | | | 97 | 406 | 1500 | 81.7 | 0.63 | 12.4 | 101-PC |
| 38.0 | | | | | 98 | 406 | 1500 | 82.7 | 0.63 | 12.4 | 101-PC |
| 41.0 | | 95 | 407 | | 1500 | 84.2 | 0.63 | 12.4 | 101-PC | | |
| 37.0 | 880 | 980 | 1037 | 1144 | 111 | 407 | 2730 | 82.4 | 0.47 | 9.5 | 101-NC |
| 42.0 | | | | | 111 | 407 | 2730 | 83.7 | 0.47 | 9.5 | 101-NC |
| 44.0 | | | | | 111 | 400 | 2730 | 84.6 | 0.47 | 9.5 | 101-NC |
| 48.0 | | 109 | 396 | | 2730 | 85.9 | 0.47 | 9.5 | 101-NC | | |
| 43.0 | 1040 | 1160 | 1223 | 1346 | 126 | 396 | 3740 | 84.0 | 0.37 | 7.0 | 101-LC |
| 48.0 | | | | | 126 | 396 | 3740 | 85.2 | 0.37 | 7.0 | 101-LC |
| 51.0 | | | | | 126 | 396 | 3740 | 86.0 | 0.37 | 7.0 | 101-LC |
| 55.0 | | 124 | 389 | | 3740 | 87.1 | 0.37 | 7.0 | 101-LC | | |
| 53.0 | 1280 | 1420 | 1497 | 1635 | 152 | 398 | 3910* | 86.0 | 0.26 | 4.8 | 101-HC |
| 59.0 | | | | | 152 | 398 | 3910* | 87.0 | 0.26 | 4.8 | 101-HC |
| 63.0 | | | | | 152 | 398 | 3910* | 87.7 | 0.26 | 4.8 | 101-HC |
| 67.0 | | 149 | 391 | | 3910* | 88.7 | 0.26 | 4.8 | 101-HC | | |
| 59.0 | 1400 | 1560 | 1644 | 1798 | 166 | 400 | 2100 | 87.2 | 0.21 | 4.1 | 101-GB |
| 65.0 | | | | | 166 | 400 | 2100 | 88.1 | 0.21 | 4.1 | 101-GB |
| 68.0 | | | | | 166 | 400 | 2100 | 88.7 | 0.21 | 4.1 | 101-GB |
| 74.0 | | 163 | 393 | | 2100 | 89.6 | 0.21 | 4.1 | 101-GB | | |
| 69.0 | 1630 | 1810 | 1899 | 2087 | 192 | 402 | 4500* | 88.2 | 0.16 | 3.1 | 101-FC |
| 76.0 | | | | | 192 | 402 | 4500* | 89.1 | 0.16 | 3.1 | 101-FC |
| 80.0 | | | | | 192 | 402 | 4500* | 89.6 | 0.16 | 3.1 | 101-FC |
| 87.0 | | 189 | 395 | | 4500* | 90.4 | 0.16 | 3.1 | 101-FC | | |
| 75.0 | 1840 | 2040 | 2153 | 2375 | 207 | 387 | 1950 | 89.0 | 0.13 | 2.5 | 101-EB |
| 79.0 | | | | | 198 | 370 | 2040 | 89.9 | 0.13 | 2.5 | 101-EB |
| 77.0 | | | | | 184 | 343 | 2200 | 90.6 | 0.13 | 2.5 | 101-EB |
| 76.0 | | 164 | 306 | | 2470 | 91.3 | 0.13 | 2.5 | 101-EB | | |
| 89.0 | 2220 | 2460 | 2574 | 2817 | 245 | 384 | 4500* | 90.2 | 0.10 | 1.7 | 101-DC ¹ |
| 99.0 | | | | | 245 | 384 | 4500* | 90.8 | 0.10 | 1.7 | 101-DC ¹ |
| 104 | | | | | 245 | 384 | 4500* | 91.2 | 0.10 | 1.7 | 101-DC ¹ |
| 116 | | 241 | 377 | | 4500* | 91.9 | 0.10 | 1.7 | 101-DC ¹ | | |
| 110 | 2640 | 2930 | 3073 | 3365 | 299 | 400 | 2660 | 91.4 | 0.06 | 1.3 | 101-CB ¹ |
| 111 | | | | | 272 | 363 | 2930 | 92.1 | 0.06 | 1.3 | 101-CB ¹ |
| 109 | | | | | 253 | 337 | 3140 | 92.5 | 0.06 | 1.3 | 101-CB ¹ |
| 112 | | 227 | 318 | | 3500 | 92.9 | 0.06 | 1.3 | 101-CB ¹ | | |
| 137 | 3330 | 3690 | 3866* | 4231* | 368 | 393 | 3390 | 92.4 | 0.04 | 0.8 | 101-BB ¹ |
| 139 | | | | | 338 | 361 | 3960* | 92.9 | 0.04 | 0.8 | 101-BB ¹ |
| 136 | | | | | 315 | 335 | 3950* | 93.2 | 0.04 | 0.8 | 101-BB ¹ |
| 134 | | 283 | 300 | | 4400* | 93.5 | 0.04 | 0.8 | 101-BB ¹ | | |

* Special design above 3800 rpm.

Field loss (hot) = 1520 W

** Through field control with constant output. Please specify.

1) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 15% reduction of output.

Data subject to change without prior notice.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 159 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 27.0 | 540 | 600 | 635 | 705 | 85 | 472 | 1800 | 75.6 | 0.81 | 18.7 | 201-RC |
| 30.0 | | | | | 85 | 472 | 1800 | 77.5 | 0.81 | 18.7 | 201-RC |
| 31.5 | | | | | 85 | 472 | 1800 | 78.5 | 0.81 | 18.7 | 201-RC |
| 34.6 | | | | | 84 | 469 | 1800 | 80.1 | 0.81 | 18.7 | 201-RC |
| 31 | 625 | 700 | 739 | 822 | 97 | 479 | 1200 | 78.4 | 0.69 | 14.8 | 201-PC |
| 35 | | | | | 97 | 479 | 1200 | 80.1 | 0.69 | 14.8 | 201-PC |
| 37 | | | | | 97 | 479 | 1200 | 81.2 | 0.69 | 14.8 | 201-PC |
| 40 | | | | | 95 | 471 | 1200 | 82.9 | 0.69 | 14.8 | 201-PC |
| 37 | 735 | 820 | 866 | 957 | 111 | 480 | 2360 | 81.0 | 0.52 | 11.3 | 201-NC |
| 41 | | | | | 111 | 480 | 2360 | 82.5 | 0.52 | 11.3 | 201-NC |
| 43 | | | | | 111 | 480 | 2360 | 83.4 | 0.52 | 11.3 | 201-NC |
| 47 | | | | | 109 | 472 | 2360 | 84.9 | 0.52 | 11.3 | 201-NC |
| 43 | 875 | 975 | 1028 | 1130 | 126 | 467 | 3230 | 82.8 | 0.41 | 8.3 | 201-LC |
| 48 | | | | | 126 | 467 | 3230 | 84.1 | 0.41 | 8.3 | 201-LC |
| 50 | | | | | 126 | 467 | 3230 | 85.0 | 0.41 | 8.3 | 201-LC |
| 55 | | | | | 124 | 459 | 3230 | 86.3 | 0.41 | 8.3 | 201-LC |
| 53 | 1075 | 1195 | 1258 | 1385 | 152 | 469 | 3390 | 85.1 | 0.28 | 5.8 | 201-HC |
| 59 | | | | | 152 | 469 | 3390 | 86.3 | 0.28 | 5.8 | 201-HC |
| 62 | | | | | 152 | 469 | 3390 | 87.0 | 0.28 | 5.8 | 201-HC |
| 66 | | | | | 149 | 461 | 3390 | 88.1 | 0.28 | 5.8 | 201-HC |
| 58 | 1175 | 1310 | 1380 | 1514 | 166 | 471 | 1700 | 86.1 | 0.24 | 4.9 | 201-GB |
| 65 | | | | | 166 | 471 | 1700 | 87.1 | 0.24 | 4.9 | 201-GB |
| 69 | | | | | 166 | 471 | 1700 | 87.8 | 0.24 | 4.9 | 201-GB |
| 73 | | | | | 163 | 463 | 1700 | 88.8 | 0.24 | 4.9 | 201-GB |
| # 68 | 1375 | 1530 | 1605 | 1760 | 192 | 474 | 4200* | 87.9 | 0.17 | 3.7 | 201-FC |
| 76 | | | | | 192 | 474 | 4200* | 88.6 | 0.17 | 3.7 | 201-FC |
| 80 | | | | | 192 | 474 | 4200* | 89.2 | 0.17 | 3.7 | 201-FC |
| 86 | | | | | 189 | 456 | 4200* | 90.0 | 0.17 | 3.7 | 201-FC |
| 74 | 1550 | 1720 | 1820 | 2000 | 207 | 453 | 2500 | 88.3 | 0.15 | 3.0 | 201-EB |
| 82 | | | | | 207 | 457 | 2500 | 89.2 | 0.15 | 3.0 | 201-EB |
| 86 | | | | | 207 | 457 | 2500 | 89.9 | 0.15 | 3.0 | 201-EB |
| 93 | | | | | 205 | 452 | 2500 | 90.8 | 0.15 | 3.0 | 201-EB |
| 89 | 1870 | 2070 | 2173 | 2380 | 245 | 453 | 4500* | 89.5 | 0.11 | 2.1 | 201-DC |
| 98 | | | | | 245 | 453 | 4500* | 90.2 | 0.11 | 2.1 | 201-DC |
| 103 | | | | | 245 | 453 | 4500* | 90.7 | 0.11 | 2.1 | 201-DC |
| 111 | | | | | 241 | 445 | 4500* | 91.4 | 0.11 | 2.1 | 201-DC |
| 110 | 2230 | 2470 | 2603 | 2846 | 299 | 471 | 2300 | 91.0 | 0.07 | 1.5 | 201-CB ¹ |
| 113 | | | | | 278 | 438 | 2470 | 91.8 | 0.07 | 1.5 | 201-CB ¹ |
| 109 | | | | | 259 | 407 | 2660 | 92.2 | 0.07 | 1.5 | 201-CB ¹ |
| 109 | | | | | 232 | 364 | 2960 | 92.7 | 0.07 | 1.5 | 201-CB ¹ |
| 136 | 2810 | 3110 | 3269 | 3577 | 368 | 464 | 2930 | 92.0 | 0.05 | 1.0 | 201-BB ¹ |
| 142 | | | | | 346 | 436 | 3110 | 92.6 | 0.05 | 1.0 | 201-BB ¹ |
| 140 | | | | | 322 | 405 | 3340 | 92.9 | 0.05 | 1.0 | 201-BB ¹ |
| 136 | | | | | 289 | 363 | 3720 | 93.2 | 0.05 | 1.0 | 201-BB ¹ |
| 168 | 3800 | | | | 450 | 424 | 4000* | 93.0 | 0.03 | 0.5 | 201-AB ¹ |

* Special design above 3800 rpm.

Field loss (hot) = 1670 W

** Through field control with constant output. Please specify.

1) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 15% reduction of output.

Data subject to change without prior notice.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 159 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 31 | 490 | | | | 101 | 613 | 900 | 75.6 | 0.69 | 18.1 | 301-PC |
| 35 | | 550 | | | 101 | 613 | 900 | 77.6 | 0.69 | 18.1 | 301-PC |
| 37 | | | 587 | | 101 | 613 | 900 | 78.8 | 0.69 | 18.1 | 301-PC |
| 41 | | | | 649 | 99 | 603 | 900 | 80.8 | 0.69 | 18.1 | 301-PC |
| 38 | 575 | | | | 117 | 621 | 1860 | 78.2 | 0.53 | 13.9 | 301-NC |
| 42 | | 645 | | | 117 | 621 | 1860 | 80.0 | 0.53 | 13.9 | 301-NC |
| 45 | | | 685 | | 117 | 621 | 1860 | 81.1 | 0.53 | 13.9 | 301-NC |
| 49 | | | | 760 | 115 | 611 | 1860 | 82.8 | 0.53 | 13.9 | 301-NC |
| 44 | 690 | | | | 132 | 601 | 2550 | 80.5 | 0.40 | 10.2 | 301-LC |
| 49 | | 775 | | | 132 | 601 | 2550 | 82.1 | 0.40 | 10.2 | 301-LC |
| 52 | | | 817 | | 132 | 601 | 2550 | 83.0 | 0.40 | 10.2 | 301-LC |
| 56 | | | | 904 | 130 | 590 | 2550 | 84.6 | 0.40 | 10.2 | 301-LC |
| 54 | 850 | | | | 159 | 603 | 2690 | 83.1 | 0.28 | 7.1 | 301-HC |
| 60 | | 950 | | | 159 | 603 | 2690 | 84.4 | 0.28 | 7.1 | 301-HC |
| 64 | | | 1003 | | 159 | 603 | 2690 | 85.2 | 0.28 | 7.1 | 301-HC |
| 68 | | | | 1106 | 156 | 593 | 2690 | 86.5 | 0.28 | 7.1 | 301-HC |
| 60 | 940 | | | | 174 | 607 | 1360 | 84.6 | 0.26 | 6.0 | 301-GB |
| 67 | | 1050 | | | 174 | 607 | 1360 | 85.7 | 0.26 | 6.0 | 301-GB |
| 70 | | | 1106 | | 174 | 607 | 1360 | 86.5 | 0.26 | 6.0 | 301-GB |
| 76 | | | | 1216 | 171 | 597 | 1360 | 87.6 | 0.26 | 6.0 | 301-GB |
| 70 | 1100 | | | | 201 | 610 | 3330 | 86.3 | 0.19 | 4.5 | 301-FC |
| 78 | | 1225 | | | 201 | 610 | 3330 | 87.3 | 0.19 | 4.5 | 301-FC |
| 82 | | | 1292 | | 201 | 610 | 3330 | 88.0 | 0.19 | 4.5 | 301-FC |
| 91 | | | | 1418 | 198 | 599 | 3330 | 89.0 | 0.19 | 4.5 | 301-FC |
| 77 | 1240 | | | | 218 | 591 | 1330 | 86.9 | 0.17 | 3.6 | 301-EB |
| 83 | | 1380 | | | 211 | 571 | 1380 | 88.0 | 0.17 | 3.6 | 301-EB |
| 81 | | | 1468 | | 195 | 528 | 1500 | 88.9 | 0.17 | 3.6 | 301-EB |
| 79 | | | | 1615 | 173 | 469 | 1680 | 90.0 | 0.17 | 3.6 | 301-EB |
| # 93 | 1510 | | | | 258 | 587 | 4500* | 88.7 | 0.12 | 2.5 | 301-DC ¹ |
| 103 | | 1670 | | | 258 | 587 | 4500* | 89.5 | 0.12 | 2.5 | 301-DC ¹ |
| 108 | | | 1757 | | 258 | 587 | 4500* | 90.0 | 0.12 | 2.5 | 301-DC ¹ |
| 116 | | | | 1923 | 254 | 576 | 4500* | 90.7 | 0.12 | 2.5 | 301-DC ¹ |
| 115 | 1795 | | | | 315 | 610 | 1810 | 90.1 | 0.08 | 1.8 | 301-CB ¹ |
| 116 | | 2000 | | | 286 | 553 | 2000 | 91.0 | 0.08 | 1.8 | 301-CB ¹ |
| 113 | | | 2104 | | 266 | 513 | 2150 | 91.6 | 0.08 | 1.8 | 301-CB ¹ |
| 111 | | | | 2308 | 238 | 458 | 2400 | 92.2 | 0.08 | 1.8 | 301-CB ¹ |
| # 142 | 2270 | | | | 386 | 598 | 2310 | 91.3 | 0.05 | 1.2 | 301-BB ¹ |
| 144 | | 2520 | | | 354 | 547 | 2520 | 92.0 | 0.05 | 1.2 | 301-BB ¹ |
| 141 | | | 2652 | | 329 | 508 | 2710 | 92.4 | 0.05 | 1.2 | 301-BB ¹ |
| 138 | | | | 2904 | 295 | 454 | 3020 | 92.9 | 0.05 | 1.2 | 301-BB ¹ |
| 167 | 3080 | | | | 450 | 521 | 4000* | 92.5 | 0.03 | 0.7 | 301-AB ¹ |
| 185 | | 3400 | | | 450 | 521 | 4000* | 92.9 | 0.03 | 0.7 | 301-AB ¹ |
| 194 | | | 3563 | | 450 | 520 | 4000* | 93.2 | 0.03 | 0.7 | 301-AB ¹ |

* Special design above 3800 rpm.

Field loss (hot) = 1900 W

** Through field control with constant output. Please specify.

1) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 15% reduction of output.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 159 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 33 | 450 | 510 | 538 | 601 | 105 | 688 | 1500 | 74.8 | 0.77 | 17.1 | 401-NC |
| 37 | | | | | 105 | 688 | 1500 | 76.8 | 0.77 | 17.1 | 401-NC |
| 39 | | | | | 105 | 688 | 1500 | 78.0 | 0.77 | 17.1 | 401-NC |
| 42 | | | | | 103 | 676 | 1500 | 80.0 | 0.77 | 17.1 | 401-NC |
| 40 | 545 | 610 | 646 | 716 | 125 | 702 | 2210 | 77.9 | 0.55 | 12.6 | 401-LC |
| 45 | | | | | 125 | 702 | 2210 | 79.6 | 0.55 | 12.6 | 401-LC |
| 48 | | | | | 125 | 702 | 2210 | 80.7 | 0.55 | 12.6 | 401-LC |
| 52 | | | | | 123 | 690 | 2210 | 82.5 | 0.55 | 12.6 | 401-LC |
| 51 | 680 | 760 | 803 | 885 | 152 | 712 | 2310 | 81.4 | 0.37 | 8.7 | 401-HC |
| 57 | | | | | 152 | 712 | 2310 | 82.8 | 0.37 | 8.7 | 401-HC |
| 59 | | | | | 152 | 712 | 2310 | 83.7 | 0.37 | 8.7 | 401-HC |
| 65 | | | | | 149 | 700 | 2310 | 85.2 | 0.37 | 8.7 | 401-HC |
| 53 | 760 | 845 | 891 | 981 | 155 | 668 | 1100 | 83.4 | 0.30 | 7.4 | 401-GB |
| 59 | | | | | 155 | 668 | 1100 | 84.6 | 0.30 | 7.4 | 401-GB |
| 63 | | | | | 155 | 668 | 1100 | 85.5 | 0.30 | 7.4 | 401-GB |
| 67 | | | | | 152 | 656 | 1100 | 86.7 | 0.30 | 7.4 | 401-GB |
| 64 | 875 | 975 | 1028 | 1135 | 187 | 701 | 2930 | 84.3 | 0.24 | 5.6 | 401-FC |
| 72 | | | | | 187 | 701 | 2930 | 85.5 | 0.24 | 5.6 | 401-FC |
| 75 | | | | | 187 | 701 | 2930 | 86.3 | 0.24 | 5.6 | 401-FC |
| 82 | | | | | 184 | 688 | 2930 | 87.4 | 0.24 | 5.6 | 401-FC |
| 68 | 1000 | 1110 | 1174 | 1288 | 194 | 649 | 1300 | 86.0 | 0.19 | 4.5 | 401-EB |
| 76 | | | | | 194 | 649 | 1300 | 87.0 | 0.19 | 4.5 | 401-EB |
| 79 | | | | | 194 | 649 | 1340 | 87.6 | 0.19 | 4.5 | 401-EB |
| 85 | | | | | 189 | 631 | 1340 | 88.6 | 0.19 | 4.5 | 401-EB |
| # 87 | 1210 | 1340 | 1409 | 1548 | 246 | 691 | 4500* | 87.5 | 0.14 | 3.1 | 401-DC |
| 97 | | | | | 246 | 691 | 4500* | 88.4 | 0.14 | 3.1 | 401-DC |
| 102 | | | | | 246 | 691 | 4500* | 89.0 | 0.14 | 3.1 | 401-DC |
| 110 | | | | | 242 | 679 | 4500* | 89.8 | 0.14 | 3.1 | 401-DC |
| 101 | 1445 | 1605 | 1683 | 1851 | 280 | 669 | 1770 | 89.3 | 0.09 | 2.3 | 401-CB ¹ |
| 112 | | | | | 280 | 669 | 1770 | 90.0 | 0.09 | 2.3 | 401-CB ¹ |
| 118 | | | | | 280 | 669 | 1770 | 90.5 | 0.09 | 2.3 | 401-CB ¹ |
| 119 | | | | | 257 | 614 | 1925 | 91.3 | 0.09 | 2.3 | 401-CB ¹ |
| # 126 | 1835 | 2030 | 2129 | 2331 | 344 | 657 | 2250 | 90.7 | 0.06 | 1.5 | 401-BB ¹ |
| 140 | | | | | 344 | 657 | 2250 | 91.3 | 0.06 | 1.5 | 401-BB ¹ |
| 147 | | | | | 344 | 657 | 2250 | 91.6 | 0.06 | 1.5 | 401-BB ¹ |
| 149 | | | | | 320 | 609 | 2425 | 92.2 | 0.06 | 1.5 | 401-BB ¹ |
| 166 | 2470 | 2730 | 2868 | 3125 | 450 | 644 | 4000* | 91.8 | 0.04 | 0.8 | 401-AB ¹ |
| 184 | | | | | 450 | 644 | 4000* | 92.3 | 0.04 | 0.8 | 401-AB ¹ |
| 193 | | | | | 450 | 643 | 4000* | 92.5 | 0.04 | 0.8 | 401-AB ¹ |
| 207 | | | | | 442 | 631 | 4000* | 92.9 | 0.04 | 0.8 | 401-AB ¹ |

* Special design above 3800 rpm.

Field loss (hot) = 2240 W

** Through field control with constant output. Please specify.

1) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 10% reduction of output.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 159 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 49 | 570 | | | | 148 | 815 | 1700 | 79.8 | 0.42 | 10.3 | 501-HC |
| 54 | | 635 | | | 148 | 815 | 1700 | 81.3 | 0.42 | 10.3 | 501-HC |
| 58 | | | 587 | | 148 | 815 | 1700 | 82.3 | 0.42 | 10.3 | 501-HC |
| 63 | | | | 745 | 146 | 801 | 1700 | 83.9 | 0.42 | 10.3 | 501-HC |
| 54 | 630 | | | | 162 | 820 | 920 | 81.3 | 0.34 | 8.7 | 501-GB |
| 60 | | 705 | | | 162 | 820 | 920 | 82.8 | 0.34 | 8.7 | 501-GB |
| 64 | | | 744 | | 162 | 820 | 920 | 83.7 | 0.34 | 8.7 | 501-GB |
| 69 | | | | 817 | 159 | 806 | 920 | 85.1 | 0.34 | 8.7 | 501-GB |
| 62 | 735 | | | | 181 | 795 | 2450 | 83.0 | 0.27 | 6.6 | 501-FC |
| 69 | | 820 | | | 181 | 795 | 2450 | 84.3 | 0.27 | 6.6 | 501-FC |
| 72 | | | 851 | | 181 | 795 | 2450 | 85.1 | 0.27 | 6.6 | 501-FC |
| 78 | | | | 952 | 178 | 783 | 2450 | 86.3 | 0.27 | 6.6 | 501-FC |
| 70 | 835 | | | | 202 | 790 | 1070 | 84.4 | 0.22 | 5.3 | 501-EB |
| 77 | | 930 | | | 202 | 790 | 1070 | 85.5 | 0.22 | 5.3 | 501-EB |
| 81 | | | 979 | | 202 | 790 | 1070 | 86.3 | 0.22 | 5.3 | 501-EB |
| 87 | | | | 1082 | 194 | 761 | 1125 | 87.5 | 0.22 | 5.3 | 501-EB |
| 84 | 1020 | | | | 239 | 789 | 3400* | 86.5 | 0.15 | 3.7 | 501-DC |
| 94 | | 1130 | | | 239 | 789 | 3400* | 87.5 | 0.15 | 3.7 | 501-DC |
| 98 | | | 1189 | | 239 | 789 | 3400* | 88.1 | 0.15 | 3.7 | 501-DC |
| 106 | | | | 1308 | 235 | 775 | 3400* | 89.0 | 0.15 | 3.7 | 501-DC |
| 104 | 1215 | | | | 292 | 821 | 1450 | 88.2 | 0.11 | 2.7 | 501-CB ¹ |
| 116 | | 1345 | | | 292 | 821 | 1450 | 89.0 | 0.11 | 2.7 | 501-CB ¹ |
| 121 | | | 1414 | | 292 | 821 | 1450 | 89.5 | 0.11 | 2.7 | 501-CB ¹ |
| 120 | | | | 1558 | 263 | 736 | 1620 | 90.5 | 0.11 | 2.7 | 501-CB ¹ |
| # 130 | 1545 | | | | 358 | 805 | 3000 | 89.8 | 0.07 | 1.7 | 501-BB ¹ |
| 144 | | 1710 | | | 358 | 805 | 3000 | 90.4 | 0.07 | 1.7 | 501-BB ¹ |
| 150 | | | 1796 | | 358 | 805 | 3000 | 90.9 | 0.07 | 1.7 | 501-BB ¹ |
| 150 | | | | 1971 | 324 | 727 | 3000 | 91.6 | 0.07 | 1.7 | 501-BB ¹ |
| # 166 | 2100 | | | | 450 | 757 | 3200 | 91.4 | 0.05 | 1.0 | 501-AB ¹ |
| 183 | | 2320 | | | 450 | 756 | 3200 | 91.9 | 0.05 | 1.0 | 501-AB ¹ |
| 192 | | | 2427 | | 450 | 756 | 3200 | 92.2 | 0.05 | 1.0 | 501-AB ¹ |
| 206 | | | | 2654 | 442 | 742 | 3200 | 92.6 | 0.05 | 1.0 | 501-AB ¹ |

* Special design above 3200 rpm.

Field loss (hot) = 2400 W

** Through field control with constant output. Please specify.

1) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 15% reduction of output.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. elec. speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Code number FR 159 |
|-------------------|---|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | |
| 66 | 610 | 440 | 724 | 798 | 194 | 1024 | 1200 | 82.7 | 0.26 | 10.5 | 601-BF |
| 74 | | | | | 194 | 1024 | 1200 | 84.0 | 0.26 | 10.5 | 601-BF |
| 77 | | | | | 194 | 1024 | 1200 | 84.8 | 0.26 | 10.5 | 601-BF |
| 84 | | | | | 190 | 1007 | 1200 | 86.1 | 0.26 | 10.5 | 601-BF |
| 66 | 670 | 750 | 793 | 875 | 196 | 930 | 1050 | 81.7 | 0.29 | 8.5 | 601-FF |
| 73 | | | | | 196 | 930 | 1050 | 83.0 | 0.29 | 8.5 | 601-FF |
| 78 | | | | | 196 | 930 | 1050 | 83.9 | 0.29 | 8.5 | 601-FF |
| 84 | | | | | 192 | 914 | 1050 | 85.3 | 0.29 | 8.5 | 601-FF |
| 75 | 770 | 860 | 900 | 1000 | 220 | 928 | 1200 | 83.3 | 0.22 | 6.8 | 601-EF |
| 84 | | | | | 220 | 927 | 1200 | 84.5 | 0.22 | 6.8 | 601-EF |
| 88 | | | | | 220 | 927 | 1200 | 85.3 | 0.22 | 6.8 | 601-EF |
| 95 | | | | | 216 | 911 | 1200 | 86.5 | 0.22 | 6.8 | 601-EF |
| 90 | 880 | 980 | 1028 | 1125 | 255 | 977 | 1350 | 86.6 | 0.14 | 5.6 | 601-BD |
| 100 | | | | | 255 | 977 | 1350 | 87.6 | 0.14 | 5.6 | 601-BD |
| 105 | | | | | 255 | 977 | 1350 | 88.2 | 0.14 | 5.6 | 601-BD |
| 113 | | | | | 250 | 960 | 1350 | 89.1 | 0.14 | 5.6 | 601-BD |
| 86 | 890 | 990 | 1047 | 1154 | 249 | 918 | 1400 | 84.7 | 0.18 | 5.2 | 601-DF |
| 96 | | | | | 249 | 918 | 1400 | 85.8 | 0.18 | 5.2 | 601-DF |
| 101 | | | | | 249 | 918 | 1400 | 86.5 | 0.18 | 5.2 | 601-DF |
| 109 | | | | | 244 | 902 | 1400 | 87.6 | 0.18 | 5.2 | 601-DF |
| 103 | 1060 | 1180 | 1243 | 1356 | 294 | 929 | 1700 | 86.5 | 0.13 | 3.8 | 601-CF |
| 114 | | | | | 294 | 929 | 1700 | 87.4 | 0.13 | 3.8 | 601-CF |
| 120 | | | | | 294 | 929 | 1700 | 88.0 | 0.13 | 3.8 | 601-CF |
| 130 | | | | | 289 | 913 | 1700 | 88.9 | 0.13 | 3.8 | 601-CF |
| # 142 | 1310 | 1450 | 1527 | 1673 | 394 | 1039 | 2500 | 89.7 | 0.06 | 2.6 | 601-AF ¹ |
| 158 | | | | | 394 | 1039 | 2500 | 90.4 | 0.06 | 2.6 | 601-AF ¹ |
| 166 | | | | | 394 | 1039 | 2500 | 90.8 | 0.06 | 2.6 | 601-AF ¹ |
| 179 | | | | | 387 | 1021 | 2500 | 91.4 | 0.06 | 2.6 | 601-AF ¹ |
| # 174 | 1850 | 2040 | 2143 | 2337 | 474 | 905 | 2800 | 91.4 | 0.05 | 1.4 | 601-AD ¹ |
| 193 | | | | | 474 | 904 | 2800 | 91.9 | 0.05 | 1.4 | 601-AD ¹ |
| 202 | | | | | 474 | 904 | 2800 | 92.2 | 0.05 | 1.4 | 601-AD ¹ |
| 217 | | | | | 465 | 888 | 2800 | 92.6 | 0.05 | 1.4 | 601-AD ¹ |

** Through field control with constant output. Please specify.

Field loss (hot) = 2650 W

1) Cooling air inlet at N-end. Can be used with cooling air inlet at D-end with 15% reduction of output.

| | Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2511 |
|----|-------------------|---|------|------|-----|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|
| | | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | |
| ## | 44.2 | 580 | 650 | 685 | 136 | 728 | 1980 | 81.1 | 0.494 | 9.3 | 2060 | 1320 | |
| | 49.5 | | | | | | | | | | | | 136 |
| | 52.1 | 755 | 880 | 965 | 136 | 726 | 1980 | 83.3 | 0.495 | 9.3 | 2060 | 1320 | |
| | 57.4 | | | | 136 | 726 | 1980 | 84.4 | 0.495 | 9.3 | 2060 | 1320 | |
| ## | 56.9 | 750 | 835 | 880 | 169 | 725 | 2540 | 84.4 | 0.319 | 6.2 | 2060 | 1080 | |
| | 63.5 | | | | | | | | | | | | 169 |
| | 66.8 | 965 | 990 | 1090 | 169 | 725 | 2540 | 86.0 | 0.320 | 6.2 | 2060 | 1080 | |
| | 73.3 | | | | 169 | 725 | 2450 | 86.9 | 0.321 | 6.2 | 2060 | 1080 | |
| | 64.1 | 845 | 940 | 990 | 187 | 724 | 2400 | 85.5 | 0.261 | 5.2 | 2020 | 0984 | |
| | 71.4 | | | | | | | | | | | | 187 |
| | 75.0 | 1090 | 1210 | 1270 | 187 | 723 | 2400 | 87.1 | 0.262 | 5.2 | 2020 | 0984 | |
| | 82.3 | | | | 187 | 721 | 2300 | 87.9 | 0.262 | 5.2 | 2020 | 0984 | |
| | 81.5 | 1090 | 1210 | 1270 | 232 | 714 | 1950 | 87.7 | 0.170 | 3.3 | 2020 | 0792 | |
| | 90.6 | | | | | | | | | | | | 233 |
| | 95.0 | 1390 | 1460 | 1530 | 232 | 714 | 1950 | 88.9 | 0.171 | 3.3 | 2020 | 0792 | |
| | 103.0 | | | | 230 | 708 | 1950 | 89.7 | 0.170 | 3.3 | 2020 | 0792 | |
| ## | 96.4 | 1320 | 1460 | 1530 | 271 | 697 | 3020 | 88.9 | 0.125 | 2.3 | 2050 | 0660 | |
| | 106 | | | | | | | | | | | | 268 |
| | 112 | 1680 | 1720 | 1800 | 271 | 699 | 3020 | 89.9 | 0.126 | 2.3 | 2050 | 0660 | |
| | 122 | | | | 270 | 694 | 3020 | 90.5 | 0.126 | 2.3 | 2050 | 0660 | |
| ## | 109 | 1550 | 1720 | 1800 | 300 | 672 | 4000 | 90.8 | 0.0833 | 1.6 | 2300 | 0540 | |
| | 121 | | | | | | | | | | | | 301 |
| | 127 | 1970 | 2080 | 2180 | 302 | 674 | 4000 | 91.4 | 0.0845 | 1.6 | 2300 | 0540 | |
| | 138 | | | | 301 | 669 | 4000 | 91.8 | 0.0847 | 1.6 | 2300 | 0540 | |
| ## | 135 | 1880 | 2080 | 2180 | 370 | 686 | 4000 | 91.1 | 0.0660 | 1.3 | 2020 | 0492 | |
| | 149 | | | | | | | | | | | | 370 |
| | 156 | 2380 | 2440 | 2550 | 369 | 683 | 4000 | 91.8 | 0.0667 | 1.3 | 2020 | 0492 | |
| | 171 | | | | 371 | 686 | 4000 | 92.1 | 0.0677 | 1.3 | 2020 | 0492 | |
| ## | 153 | 2200 | 2440 | 2550 | 415 | 664 | 4000 | 92.2 | 0.0449 | 0.84 | 2300 | 0396 | |
| | 169 | | | | | | | | | | | | 415 |
| | 176 | 2770 | 2730 | 2800 | 413 | 659 | 4000 | 92.6 | 0.0457 | 0.84 | 2300 | 0396 | |
| | 182 | | | | 391 | 627 | 4000 | 93.0 | 0.0451 | 0.84 | 2300 | 0396 | |
| | 161 | 2480 | 2730 | 2800 | 435 | 620 | 4000 | 92.5 | 0.0354 | 0.60 | 2550 | 0336 | |
| | 177 | | | | | | | | | | | | 434 |
| ## | 173 | 3120 | | | 464 | 530 | 4000 | 93.2 | 0.0223 | 0.41 | 2440 | 0276 | |

** Through field control with constant output. Please specify.

| | Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2521 | | | |
|----|-------------------|---|------|------|------|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|------|------|------|
| | | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | | | | |
| ## | 42.6 | 465 | 525 | 555 | 610 | 134 | 875 | 1620 | 79.4 | 0.557 | 11.6 | 2200 | 1320 | | | |
| | 47.8 | | | | | | | | 134 | 870 | 1640 | 81.0 | 0.559 | 11.6 | 2200 | 1320 |
| | 50.4 | | | | | | | | 134 | 867 | 1640 | 81.7 | 0.560 | 11.6 | 2200 | 1320 |
| | 55.6 | | | | | | | | 134 | 870 | 1640 | 83.0 | 0.560 | 11.6 | 2200 | 1320 |
| ## | 54.9 | 605 | 675 | 710 | 780 | 165 | 867 | 2110 | 83.0 | 0.362 | 7.8 | 2190 | 1080 | | | |
| | 61.4 | | | | | | | | 166 | 869 | 2050 | 84.3 | 0.363 | 7.8 | 2190 | 1080 |
| | 64.6 | | | | | | | | 166 | 869 | 2020 | 84.8 | 0.363 | 7.8 | 2190 | 1080 |
| | 71.0 | | | | | | | | 165 | 869 | 1960 | 85.9 | 0.364 | 7.8 | 2190 | 1080 |
| | 62.0 | 675 | 755 | 795 | 870 | 184 | 877 | 2000 | 84.3 | 0.296 | 6.4 | 2220 | 0984 | | | |
| | 69.1 | | | | | | | | 184 | 874 | 1970 | 85.5 | 0.296 | 6.4 | 2220 | 0984 |
| | 72.7 | | | | | | | | 184 | 873 | 1930 | 86.0 | 0.296 | 6.4 | 2220 | 0984 |
| | 98.8 | | | | | | | | 184 | 876 | 1840 | 86.9 | 0.297 | 6.4 | 2220 | 0984 |
| | 79.3 | 885 | 985 | 1040 | 1140 | 229 | 856 | 1610 | 86.7 | 0.193 | 4.2 | 2050 | 0792 | | | |
| | 88.1 | | | | | | | | 228 | 854 | 1610 | 87.7 | 0.193 | 4.2 | 2050 | 0792 |
| | 92.5 | | | | | | | | 228 | 849 | 1610 | 88.1 | 0.193 | 4.2 | 2050 | 0792 |
| | 101 | | | | | | | | 227 | 846 | 1560 | 88.9 | 0.193 | 4.2 | 2050 | 0792 |
| ## | 94.2 | 1060 | 1180 | 1240 | 1350 | 267 | 849 | 2480 | 88.1 | 0.142 | 2.9 | 2190 | 0660 | | | |
| | 104 | | | | | | | | 266 | 842 | 2480 | 89.0 | 0.142 | 2.9 | 2190 | 0660 |
| | 109 | | | | | | | | 265 | 839 | 2480 | 89.3 | 0.142 | 2.9 | 2190 | 0660 |
| | 119 | | | | | | | | 265 | 842 | 2480 | 89.9 | 0.143 | 2.9 | 2190 | 0660 |
| ## | 108 | 1240 | 1380 | 1440 | 1580 | 299 | 832 | 4000 | 90.2 | 0.0950 | 1.9 | 2490 | 0540 | | | |
| | 119 | | | | | | | | 298 | 824 | 4000 | 90.8 | 0.0952 | 1.9 | 2490 | 0540 |
| | 125 | | | | | | | | 299 | 829 | 4000 | 91.0 | 0.0957 | 1.9 | 2490 | 0540 |
| | 136 | | | | | | | | 297 | 822 | 4000 | 91.5 | 0.0961 | 1.9 | 2490 | 0540 |
| ## | 132 | 1490 | 1650 | 1730 | 1890 | 365 | 846 | 4000 | 90.5 | 0.0756 | 1.6 | 2220 | 0492 | | | |
| | 146 | | | | | | | | 364 | 845 | 4000 | 91.0 | 0.0762 | 1.6 | 2220 | 0492 |
| | 153 | | | | | | | | 364 | 845 | 4000 | 91.3 | 0.0766 | 1.6 | 2220 | 0492 |
| | 166 | | | | | | | | 362 | 839 | 3920 | 91.7 | 0.0769 | 1.6 | 2220 | 0492 |
| ## | 151 | 1780 | 1970 | 2070 | 2250 | 411 | 810 | 3590 | 91.8 | 0.0510 | 1.0 | 2320 | 0396 | | | |
| | 167 | | | | | | | | 412 | 810 | 3590 | 92.2 | 0.0515 | 1.0 | 2320 | 0396 |
| | 174 | | | | | | | | 410 | 803 | 3590 | 92.4 | 0.0518 | 1.0 | 2320 | 0396 |
| | 190 | | | | | | | | 410 | 806 | 3500 | 92.6 | 0.0527 | 1.0 | 2320 | 0396 |
| | 158 | 1990 | 2200 | 2310 | 2510 | 428 | 758 | 4000 | 92.3 | 0.0406 | 0.75 | 2570 | 0336 | | | |
| | 174 | | | | | | | | 427 | 755 | 4000 | 92.6 | 0.0411 | 0.75 | 2570 | 0336 |
| | 181 | | | | | | | | 424 | 748 | 4000 | 92.7 | 0.0414 | 0.75 | 2570 | 0336 |
| | 192 | | | | | | | | 413 | 731 | 4000 | 93.0 | 0.0414 | 0.75 | 2570 | 0336 |
| ## | 195 | 2490 | | | | 525 | 748 | 4000 | 92.9 | 0.0266 | 0.51 | 2630 | 0276 | | | |

** Through field control with constant output. Please specify.

| | Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2531 |
|----|-------------------|---|------|------|-----|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|
| | | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | |
| ## | 41.2 | 385 | 430 | 455 | 133 | 1022 | 1340 | 77.1 | 0.631 | 14.5 | 2370 | 1320 | |
| | 46.5 | | | | | | | | | | | | 134 |
| | 49.1 | 505 | 600 | 660 | 134 | 1031 | 1370 | 79.8 | 0.634 | 14.5 | 2370 | 1320 | |
| | 54.2 | | | | 133 | 1025 | 1370 | 81.3 | 0.634 | 14.5 | 2370 | 1320 | |
| ## | 53.4 | 505 | 570 | 600 | 164 | 1010 | 1680 | 81.2 | 0.411 | 9.7 | 2210 | 1080 | |
| | 59.8 | | | | | | | | | | | | 164 |
| | 63.0 | 570 | 635 | 670 | 164 | 1003 | 1620 | 83.3 | 0.012 | 9.7 | 2210 | 1080 | |
| | 69.3 | | | | | | | | | | | | 164 |
| ## | 60.4 | 570 | 635 | 670 | 183 | 1012 | 1640 | 82.7 | 0.335 | 8.1 | 2240 | 0984 | |
| | 67.5 | | | | | | | | | | | | 182 |
| | 71.1 | 735 | 820 | 865 | 183 | 1013 | 1550 | 84.7 | 0.336 | 8.1 | 2240 | 0984 | |
| | 78.2 | | | | | | | | | | | | 183 |
| ## | 77.1 | 735 | 820 | 865 | 225 | 1002 | 1370 | 85.6 | 0.219 | 5.2 | 2270 | 0792 | |
| | 85.9 | | | | | | | | | | | | 225 |
| | 90.2 | 900 | 1000 | 1050 | 225 | 996 | 1350 | 87.1 | 0.220 | 5.2 | 2270 | 0792 | |
| | 99.0 | | | | | | | | | | | | 225 |
| ## | 92.8 | 900 | 1000 | 1050 | 266 | 985 | 2080 | 87.1 | 0.161 | 3.6 | 2180 | 0660 | |
| | 103 | | | | | | | | | | | | 266 |
| | 108 | 1150 | 1150 | 1150 | 265 | 982 | 2080 | 88.5 | 0.161 | 3.6 | 2180 | 0660 | |
| | 118 | | | | | | | | | | | | 265 |
| ## | 106 | 1060 | 1170 | 1230 | 296 | 955 | 3710 | 89.6 | 0.107 | 2.4 | 2510 | 0540 | |
| | 118 | | | | | | | | | | | | 297 |
| | 123 | 1340 | 1340 | 1340 | 295 | 955 | 3880 | 90.6 | 0.107 | 2.4 | 2510 | 0540 | |
| | 135 | | | | | | | | | | | | 297 |
| ## | 130 | 1270 | 1400 | 1470 | 362 | 978 | 3420 | 89.9 | 0.0850 | 2.0 | 2240 | 0492 | |
| | 144 | | | | | | | | | | | | 362 |
| | 151 | 1610 | 1610 | 1610 | 361 | 981 | 3330 | 90.8 | 0.0857 | 2.0 | 2240 | 0492 | |
| | 165 | | | | | | | | | | | | 362 |
| ## | 148 | 1490 | 1650 | 1730 | 404 | 949 | 3060 | 91.5 | 0.0572 | 1.3 | 2540 | 0396 | |
| | 164 | | | | | | | | | | | | 405 |
| | 172 | 1890 | 1890 | 1890 | 406 | 949 | 3060 | 92.1 | 0.0582 | 1.3 | 2540 | 0396 | |
| | 187 | | | | | | | | | | | | 404 |
| # | 158 | 1670 | 1850 | 1930 | 429 | 904 | 4000 | 92.1 | 0.0454 | 0.94 | 2760 | 0336 | |
| | 174 | | | | | | | | | | | | 428 |
| | 182 | 2110 | 2110 | 2110 | 427 | 901 | 4000 | 92.6 | 0.0460 | 0.94 | 2760 | 0336 | |
| | 198 | | | | | | | | | | | | 426 |
| # | 199 | 2090 | 2310 | 2410 | 536 | 909 | 4000 | 92.9 | 0.0297 | 0.63 | 2800 | 0276 | |
| | 214 | | | | | | | | | | | | 522 |
| | 214 | 2300 | 2300 | 2300 | 498 | 848 | 4000 | 93.4 | 0.0292 | 0.63 | 2800 | 0276 | |
| | 215 | | | | | | | | | | | | 577 |

** Through field control with constant output. Please specify.

| | Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2611 | | | | | | | | | | | | | | | | |
|----|-------------------|---|------|------|-----|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|------|------|------|--------|--------|------|------|------|-----|------|------|------|--------|------|------|------|
| | | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | | | | | | | | | | | | | | | | | |
| ## | 46.8 | 350 | 395 | 420 | 152 | 1277 | 1220 | 77.1 | 0.559 | 14.9 | 2450 | 1480 | | | | | | | | | | | | | | | | | |
| | 52.7 | | | | | | | | | | | | 460 | 152 | 1274 | 1350 | 79.0 | 0.560 | 14.9 | 2450 | 1480 | | | | | | | | |
| | 55.7 | | | | | | | | | | | | | | | | | | | | | 152 | 1267 | 1350 | 79.8 | 0.560 | 14.9 | 2450 | 1480 |
| | 61.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ## | 55.1 | 415 | 465 | 490 | 172 | 1268 | 1450 | 80.0 | 0.423 | 11.0 | 2500 | 1272 | | | | | | | | | | | | | | | | | |
| | 61.8 | | | | | | | | | | | | 540 | 172 | 1269 | 1620 | 81.6 | 0.425 | 11.0 | 2500 | 1272 | | | | | | | | |
| | 65.2 | | | | | | | | | | | | | | | | | | | | | 172 | 1271 | 1710 | 82.3 | 0.425 | 11.0 | 2500 | 1272 |
| | 71.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ## | 69.4 | 520 | 580 | 610 | 209 | 1275 | 1610 | 83.0 | 0.290 | 7.9 | 2500 | 1080 | | | | | | | | | | | | | | | | | |
| | 77.6 | | | | | | | | | | | | 670 | 209 | 1278 | 1610 | 84.3 | 0.291 | 7.9 | 2500 | 1080 | | | | | | | | |
| | 81.7 | | | | | | | | | | | | | | | | | | | | | 209 | 1279 | 1610 | 84.8 | 0.292 | 7.9 | 2500 | 1080 |
| | 89.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ## | 88.3 | 655 | 730 | 770 | 258 | 1287 | 1330 | 85.5 | 0.193 | 5.4 | 2530 | 0888 | | | | | | | | | | | | | | | | | |
| | 98.4 | | | | | | | | | | | | 845 | 258 | 1287 | 1330 | 86.6 | 0.194 | 5.4 | 2530 | 0888 | | | | | | | | |
| | 103 | | | | | | | | | | | | | | | | | | | | | 257 | 1277 | 1330 | 87.2 | 0.193 | 5.4 | 2530 | 0888 |
| | 113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ## | 105 | 795 | 885 | 930 | 301 | 1261 | 2710 | 87.2 | 0.141 | 3.7 | 2450 | 0740 | | | | | | | | | | | | | | | | | |
| | 117 | | | | | | | | | | | | 1020 | 302 | 1263 | 2710 | 88.1 | 0.142 | 3.7 | 2450 | 0740 | | | | | | | | |
| | 123 | | | | | | | | | | | | | | | | | | | | | 302 | 1263 | 2710 | 88.4 | 0.143 | 3.7 | 2450 | 0740 |
| | 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ## | 121 | 930 | 1030 | 1080 | 342 | 1243 | 3250 | 88.5 | 0.108 | 2.8 | 2420 | 0636 | | | | | | | | | | | | | | | | | |
| | 134 | | | | | | | | | | | | 1190 | 341 | 1242 | 3480 | 89.3 | 0.108 | 2.8 | 2420 | 0636 | | | | | | | | |
| | 141 | | | | | | | | | | | | | | | | | | | | | 342 | 1247 | 3480 | 89.6 | 0.109 | 2.8 | 2420 | 0636 |
| | 154 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ## | 149 | 1130 | 1250 | 1310 | 414 | 1259 | 3250 | 89.9 | 0.0745 | 2.0 | 2500 | 0540 | | | | | | | | | | | | | | | | | |
| | 165 | | | | | | | | | | | | 1430 | 414 | 1261 | 3250 | 90.6 | 0.0748 | 2.0 | 2500 | 0540 | | | | | | | | |
| | 173 | | | | | | | | | | | | | | | | | | | | | 414 | 1261 | 3250 | 90.8 | 0.0751 | 2.0 | 2500 | 0540 |
| | 189 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ## | 170 | 1330 | 1470 | 1540 | 465 | 1221 | 2960 | 91.4 | 0.0509 | 1.3 | 2870 | 0444 | | | | | | | | | | | | | | | | | |
| | 188 | | | | | | | | | | | | 1680 | 465 | 1221 | 2960 | 91.8 | 0.0512 | 1.3 | 2870 | 0444 | | | | | | | | |
| | 196 | | | | | | | | | | | | | | | | | | | | | 463 | 1215 | 2960 | 92.1 | 0.0512 | 1.3 | 2870 | 0444 |
| | 214 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ## | 198 | 1600 | 1770 | 1860 | 537 | 1182 | 3600 | 92.2 | 0.0375 | 0.92 | 2770 | 0368 | | | | | | | | | | | | | | | | | |
| | 219 | | | | | | | | | | | | 2030 | 538 | 1182 | 3600 | 92.5 | 0.0378 | 0.92 | 2770 | 0368 | | | | | | | | |
| | 229 | | | | | | | | | | | | | | | | | | | | | 537 | 1176 | 3600 | 92.7 | 0.0379 | 0.92 | 2770 | 0368 |
| | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| # | 226 | 1830 | 2020 | 2120 | 610 | 1179 | 3600 | 92.6 | 0.0292 | 0.71 | 2810 | 0324 | | | | | | | | | | | | | | | | | |
| | 249 | | | | | | | | | | | | 2310 | 609 | 1177 | 3600 | 92.9 | 0.0294 | 0.71 | 2810 | 0324 | | | | | | | | |
| | 261 | | | | | | | | | | | | | | | | | | | | | 610 | 1176 | 3600 | 93.1 | 0.0296 | 0.71 | 2810 | 0324 |
| | 284 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| # | 250 | 2110 | 2330 | 2440 | 671 | 1132 | 3600 | 93.2 | 0.0211 | 0.52 | 3030 | 0276 | | | | | | | | | | | | | | | | | |
| | 276 | | | | | | | | | | | | 2660 | 671 | 1131 | 3600 | 93.4 | 0.0213 | 0.52 | 3030 | 0276 | | | | | | | | |
| | 288 | | | | | | | | | | | | | | | | | | | | | 669 | 1127 | 3600 | 93.5 | 0.0214 | 0.52 | 3030 | 0276 |
| | 312 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 288 | 2480 | 2740 | | 771 | 1109 | 3600 | 93.3 | 0.0160 | 0.37 | 2920 | 0232 | | | | | | | | | | | | | | | | | |
| | 302 | | | | | | | | | | | | 734 | 1053 | 3600 | 93.6 | 0.0158 | 0.37 | 2920 | 0232 | | | | | | | | | |

** Through field control with constant output. Please specify.

Data subject to change without prior notice.

| | Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2621 | | | | | | | | | | | | | | | | |
|------|-------------------|---|------|------|------|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|------|-------|--------|------|-------|------|------|------|------|-------|--------|------|-------|------|------|------|
| | | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | | | | | | | | | | | | | | | | | |
| ## | 44.5 | 280 | 315 | 335 | 147 | 1518 | 980 | 75.9 | 0.613 | 17.7 | 2780 | 1480 | | | | | | | | | | | | | | | | | |
| | 50.2 | | | | | | | | | | | | 370 | 146 | 1522 | 1100 | 77.9 | 0.613 | 17.7 | 2780 | 1480 | | | | | | | | |
| | 53.1 | | | | | | | | | | | | | | | | | | | | | 147 | 1514 | 1170 | 78.8 | 0.614 | 17.7 | 2780 | 1480 |
| | 58.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52.6 | 335 | 375 | 167 | 1499 | 1170 | 78.9 | 0.464 | 13.1 | 2710 | 1272 | | | | | | | | | | | | | | | | | | | |
| 59.1 | | | | | | | | | | | 167 | 1505 | 1310 | 80.5 | 0.466 | 13.1 | 2710 | 1272 | | | | | | | | | | | |
| 62.3 | | | | | | | | | | | | | | | | | | | 167 | 1506 | 1380 | 81.3 | 0.466 | 13.1 | 2710 | 1272 | | | |
| 68.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | 167 | 1510 | 1440 |
| ## | 66.4 | 415 | 465 | 202 | 1528 | 1420 | 82.1 | 0.318 | 9.4 | 2810 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 74.4 | 203 | 1528 | 1400 | 83.4 | 0.319 | 9.4 | 2810 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 78.3 | 202 | 1526 | 1380 | 84.1 | 0.319 | 9.4 | 2810 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 86.2 | 202 | 1524 |
| 84.8 | 530 | 595 | 250 | 1528 | 1170 | 84.8 | 0.318 | 6.4 | 2620 | 0888 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 94.6 | 250 | 1518 | 1170 | 85.9 | 0.319 | 6.4 | 2620 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 99.5 | 250 | 1520 | 1170 | 86.4 | 0.319 | 6.4 | 2620 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 109 | 250 | 1520 |
| ## | 100 | 640 | 715 | 288 | 1492 | 2240 | 86.7 | 0.211 | 4.4 | 2810 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 112 | 291 | 1496 | 2400 | 87.5 | 0.212 | 4.4 | 2810 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 117 | 289 | 1490 | 2400 | 88.0 | 0.212 | 4.4 | 2810 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 129 | 291 | 1502 |
| 117 | 750 | 835 | 333 | 1490 | 2620 | 87.9 | 0.155 | 3.3 | 2710 | 0636 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 130 | 333 | 1487 | 2920 | 88.7 | 0.157 | 3.3 | 2710 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 136 | 332 | 1484 | 3060 | 89.1 | 0.156 | 3.3 | 2710 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 149 | 332 | 1482 |
| ## | 144 | 915 | 1010 | 402 | 1503 | 2860 | 89.5 | 0.118 | 2.4 | 2810 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 160 | 404 | 1513 | 2860 | 90.1 | 0.119 | 2.4 | 2810 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 168 | 404 | 1514 | 2860 | 90.4 | 0.199 | 2.4 | 2810 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 183 | 402 | 1507 |
| 164 | 1090 | 1200 | 450 | 1437 | 2610 | 91.0 | 0.0812 | 1.6 | 2990 | 0444 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 181 | 449 | 1440 | 2610 | 91.5 | 0.0819 | 1.6 | 2990 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 190 | 450 | 1440 | 2610 | 91.7 | 0.0822 | 1.6 | 2990 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 207 | 450 | 1433 |
| ## | 192 | 1310 | 1450 | 523 | 1400 | 3310 | 91.8 | 0.0558 | 1.1 | 3120 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 213 | 525 | 1403 | 3310 | 92.2 | 0.0561 | 1.1 | 3120 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 222 | 522 | 1395 | 3310 | 92.4 | 0.0564 | 1.1 | 3120 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 242 | 522 | 1401 |
| 220 | 1500 | 1650 | 596 | 1401 | 3370 | 92.3 | 0.0412 | 0.85 | 3160 | 0324 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 242 | 593 | 1401 | 3370 | 92.7 | 0.0416 | 0.85 | 3160 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 253 | 593 | 1397 | 3370 | 92.8 | 0.0417 | 0.85 | 3160 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 276 | 593 | 1395 |
| ## | 244 | 1710 | 1920 | 656 | 1339 | 3500 | 93.0 | 0.0321 | 0.62 | 3410 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 269 | 656 | 1338 | 3500 | 93.2 | 0.0234 | 0.62 | 3410 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 281 | 654 | 1335 | 3500 | 93.3 | 0.0235 | 0.62 | 3410 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 305 | 652 | 1330 |
| 278 | 2040 | 2250 | 746 | 1301 | 3600 | 93.1 | 0.0178 | 0.44 | 3410 | 0232 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 297 | 723 | 1261 | 3600 | 93.4 | 0.0177 | 0.44 | 3410 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 297 | 691 | 1207 | 3600 | 93.5 | 0.0174 | 0.44 | 3410 | | | |

** Through field control with constant output. Please specify.

Data subject to change without prior notice.

| | Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2631 | | | | | | | | | | | | | | | | |
|------|-------------------|---|------|------|------|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|------|--------|-------|------|-------|------|------|------|------|--------|-------|------|-------|------|------|------|
| | | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | | | | | | | | | | | | | | | | | |
| ## | 41.4 | 240 | 270 | 285 | 139 | 1647 | 840 | 74.2 | 0.694 | 21.3 | 2920 | 1480 | | | | | | | | | | | | | | | | | |
| | 46.9 | | | | | | | | | | | | 320 | 140 | 1659 | 940 | 76.3 | 0.695 | 21.3 | 2920 | 1480 | | | | | | | | |
| | 49.6 | | | | | | | | | | | | | | | | | | | | | 139 | 1662 | 990 | 77.3 | 0.695 | 21.3 | 2920 | 1480 |
| | 55.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 49.0 | 285 | 325 | 158 | 1642 | 990 | 77.4 | 0.528 | 15.7 | 2840 | 1272 | | | | | | | | | | | | | | | | | | | |
| 55.2 | | | | | | | | | | | 340 | 158 | 1622 | 1130 | 79.3 | 0.529 | 15.7 | 2840 | 1272 | | | | | | | | | | |
| 58.2 | | | | | | | | | | | | | | | | | | | | 158 | 1635 | 1190 | 80.1 | 0.529 | 15.7 | 2840 | 1272 | | |
| 64.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 158 | 1640 |
| ## | 62.1 | 355 | 400 | 192 | 1671 | 1240 | 80.9 | 0.362 | 11.3 | 2970 | | | | | | | | | | | | | | | | | | | |
| | 69.6 | | | | | | | | | | 192 | 1662 | 1220 | 82.4 | 0.362 | 11.3 | 2970 | 1080 | | | | | | | | | | | |
| | 73.4 | | | | | | | | | | | | | | | | | | 192 | 1669 | 1200 | 83.1 | 0.363 | 11.3 | 2970 | 1080 | | | |
| | 80.9 | | | | | | | | | | | | | | | | | | | | | | | | | | 192 | 1661 | 1160 |
| ## | 79.4 | 455 | 510 | 237 | 1667 | 1060 | 83.9 | 0.240 | 7.7 | 3010 | | | | | | | | | | | | | | | | | | | |
| | 88.6 | | | | | | | | | | 236 | 1659 | 1060 | 85.2 | 0.241 | 7.7 | 3010 | 0888 | | | | | | | | | | | |
| | 93.2 | | | | | | | | | | | | | | | | | | 236 | 1664 | 1060 | 85.8 | 0.241 | 7.7 | 3010 | 0888 | | | |
| | 102 | | | | | | | | | | | | | | | | | | | | | | | | | | 235 | 1651 | 1040 |
| ## | 95.7 | 555 | 620 | 279 | 1647 | 1940 | 85.7 | 0.176 | 5.3 | 2920 | | | | | | | | | | | | | | | | | | | |
| | 106 | | | | | | | | | | 277 | 1633 | 2150 | 86.9 | 0.176 | 5.3 | 2920 | 0740 | | | | | | | | | | | |
| | 112 | | | | | | | | | | | | | | | | | | 279 | 1646 | 2150 | 87.2 | 0.177 | 5.3 | 2920 | 0740 | | | |
| | 122 | | | | | | | | | | | | | | | | | | | | | | | | | | 277 | 1630 | 2150 |
| ## | 110 | 645 | 715 | 315 | 1629 | 2250 | 87.3 | 0.134 | 3.9 | 3090 | | | | | | | | | | | | | | | | | | | |
| | 122 | | | | | | | | | | 314 | 1630 | 2500 | 88.3 | 0.134 | 3.9 | 3090 | 0636 | | | | | | | | | | | |
| | 128 | | | | | | | | | | | | | | | | | | 314 | 1630 | 2620 | 88.7 | 0.134 | 3.9 | 3090 | 0636 | | | |
| | 141 | | | | | | | | | | | | | | | | | | | | | | | | | | 316 | 1632 | 2750 |
| ## | 136 | 800 | 885 | 382 | 1624 | 2580 | 89.1 | 0.0917 | 2.8 | 2970 | | | | | | | | | | | | | | | | | | | |
| | 151 | | | | | | | | | | 382 | 1629 | 2580 | 89.8 | 0.0922 | 2.8 | 2970 | 0540 | | | | | | | | | | | |
| | 159 | | | | | | | | | | | | | | | | | | 384 | 1633 | 2580 | 90.1 | 0.0927 | 2.8 | 2970 | 0540 | | | |
| | 173 | | | | | | | | | | | | | | | | | | | | | | | | | | 382 | 1620 | 2530 |
| ## | 155 | 940 | 1040 | 427 | 1575 | 2350 | 90.8 | 0.0630 | 1.9 | 3420 | | | | | | | | | | | | | | | | | | | |
| | 172 | | | | | | | | | | 428 | 1579 | 2350 | 91.3 | 0.0634 | 1.9 | 3420 | 0444 | | | | | | | | | | | |
| | 180 | | | | | | | | | | | | | | | | | | 427 | 1577 | 2350 | 91.6 | 0.0636 | 1.9 | 3420 | 0444 | | | |
| | 196 | | | | | | | | | | | | | | | | | | | | | | | | | | 426 | 1573 | 2350 |
| # | 182 | 1140 | 1260 | 496 | 1525 | 2980 | 91.7 | 0.0465 | 1.3 | 3380 | | | | | | | | | | | | | | | | | | | |
| | 202 | | | | | | | | | | 498 | 1531 | 2980 | 92.1 | 0.0469 | 1.3 | 3380 | 0368 | | | | | | | | | | | |
| | 211 | | | | | | | | | | | | | | | | | | 497 | 1527 | 2980 | 92.4 | 0.0469 | 1.3 | 3380 | 0368 | | | |
| | 230 | | | | | | | | | | | | | | | | | | | | | | | | | | 496 | 1525 | 2980 |
| # | 208 | 1300 | 1430 | 564 | 1528 | 3060 | 92.3 | 0.0361 | 1.0 | 3380 | | | | | | | | | | | | | | | | | | | |
| | 230 | | | | | | | | | | 564 | 1536 | 3060 | 92.7 | 0.0364 | 1.0 | 3380 | 0324 | | | | | | | | | | | |
| | 241 | | | | | | | | | | | | | | | | | | 564 | 1534 | 3060 | 92.8 | 0.0365 | 1.0 | 3380 | 0324 | | | |
| | 263 | | | | | | | | | | | | | | | | | | | | | | | | | | 565 | 1531 | 3060 |
| # | 232 | 1510 | 1670 | 623 | 1467 | 3160 | 93.1 | 0.0260 | 0.74 | 3530 | | | | | | | | | | | | | | | | | | | |
| | 256 | | | | | | | | | | 623 | 1464 | 3160 | 93.4 | 0.0262 | 0.74 | 3530 | 0276 | | | | | | | | | | | |
| | 268 | | | | | | | | | | | | | | | | | | 623 | 1463 | 3160 | 93.5 | 0.0263 | 0.74 | 3530 | 0276 | | | |
| | 292 | | | | | | | | | | | | | | | | | | | | | | | | | | 623 | 1460 | 3160 |
| # | 265 | 1770 | 1950 | 710 | 1430 | 3600 | 93.3 | 0.0199 | 0.52 | 3730 | | | | | | | | | | | | | | | | | | | |
| | 293 | | | | | | | | | | 712 | 1435 | 3600 | 93.6 | 0.0201 | 0.52 | 3730 | 0232 | | | | | | | | | | | |
| | 306 | | | | | | | | | | | | | | | | | | 710 | 1426 | 3600 | 93.7 | 0.0202 | 0.52 | 3730 | 0232 | | | |
| | 332 | | | | | | | | | | | | | | | | | | | | | | | | | | 708 | 1422 | 3600 |

** Through field control with constant output. Please specify.

Data subject to change without prior notice.

| | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2711 |
|----|---|------|------|------|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | |
| ## | 67.9 | 315 | 355 | 415 | 221 | 2059 | 1100 | 76.9 | 0.389 | 11.5 | 3520 | 1272 |
| | 76.6 | | | | 221 | 2061 | 1110 | 78.7 | 0.391 | 11.5 | 3520 | 1272 |
| | 80.9 | 375 | 415 | | 221 | 2060 | 1110 | 79.6 | 0.391 | 11.5 | 3520 | 1272 |
| | 89.4 | | | | 221 | 2057 | 1110 | 81.0 | 0.392 | 11.5 | 3520 | 1272 |
| ## | 86.0 | 395 | 445 | 515 | 267 | 2079 | 1060 | 80.5 | 0.266 | 8.3 | 3660 | 1080 |
| | 96.5 | | | | 267 | 2071 | 1060 | 82.1 | 0.267 | 8.3 | 3660 | 1080 |
| | 101 | 470 | 515 | | 264 | 2052 | 1060 | 83.0 | 0.265 | 8.3 | 3660 | 1080 |
| | 112 | | | | 267 | 2077 | 1060 | 84.0 | 0.268 | 8.3 | 3660 | 1080 |
| ## | 97.4 | 445 | 500 | 580 | 297 | 2090 | 1020 | 82.0 | 0.219 | 6.9 | 3710 | 0984 |
| | 109 | | | | 297 | 2082 | 1020 | 83.4 | 0.220 | 6.9 | 3710 | 0984 |
| | 114 | 525 | 580 | | 294 | 2074 | 1020 | 84.3 | 0.218 | 6.9 | 3710 | 0984 |
| | 126 | | | | 296 | 2075 | 1020 | 85.2 | 0.220 | 6.9 | 3710 | 0984 |
| ## | 111 | 510 | 565 | 595 | 332 | 2079 | 970 | 83.5 | 0.176 | 5.6 | 3760 | 0888 |
| | 123 | | | | 329 | 2079 | 970 | 85.0 | 0.175 | 5.6 | 3760 | 0888 |
| | 130 | | | | 331 | 2087 | 970 | 85.5 | 0.177 | 5.6 | 3760 | 0888 |
| ## | 117 | 550 | 615 | 710 | 348 | 2032 | 1870 | 84.1 | 0.161 | 4.8 | 3610 | 0820 |
| | 131 | | | | 349 | 2034 | 1870 | 85.3 | 0.162 | 4.8 | 3610 | 0820 |
| | 137 | 645 | 710 | | 347 | 2028 | 1870 | 85.9 | 0.161 | 4.8 | 3610 | 0820 |
| | 151 | | | | 348 | 2031 | 1870 | 86.8 | 0.163 | 4.8 | 3610 | 0820 |
| ## | 153 | 725 | 810 | 930 | 440 | 2015 | 2240 | 87.0 | 0.0996 | 2.9 | 3520 | 0636 |
| | 170 | | | | 439 | 2004 | 2240 | 88.0 | 0.100 | 2.9 | 3520 | 0636 |
| | 179 | 850 | 930 | | 441 | 2011 | 2240 | 88.3 | 0.101 | 2.9 | 3520 | 0636 |
| | 196 | | | | 440 | 2013 | 2240 | 89.1 | 0.101 | 2.9 | 3520 | 0636 |
| ## | 173 | 850 | 940 | 1080 | 484 | 1944 | 2340 | 89.4 | 0.0689 | 2.1 | 4150 | 0540 |
| | 192 | | | | 484 | 1951 | 2340 | 90.1 | 0.0694 | 2.1 | 4150 | 0540 |
| | 201 | 985 | 1080 | | 483 | 1949 | 2340 | 90.4 | 0.0696 | 2.1 | 4150 | 0540 |
| | 220 | | | | 484 | 1945 | 2340 | 90.9 | 0.0701 | 2.1 | 4150 | 0540 |
| ## | 193 | 945 | 1050 | 1200 | 536 | 1950 | 2270 | 90.1 | 0.0570 | 1.7 | 4210 | 0492 |
| | 214 | | | | 536 | 1946 | 2270 | 90.7 | 0.0575 | 1.7 | 4210 | 0492 |
| | 224 | 1100 | 1200 | | 535 | 1945 | 2270 | 91.0 | 0.0576 | 1.7 | 4210 | 0492 |
| | 245 | | | | 536 | 1950 | 2270 | 91.4 | 0.0581 | 1.7 | 4210 | 0492 |
| ## | 217 | 1060 | 1170 | 1350 | 598 | 1955 | 2170 | 90.7 | 0.0461 | 1.4 | 4210 | 0444 |
| | 240 | | | | 597 | 1959 | 2170 | 91.3 | 0.0465 | 1.4 | 4210 | 0444 |
| | 252 | 1230 | 1350 | | 599 | 1957 | 2170 | 91.5 | 0.0467 | 1.4 | 4210 | 0444 |
| | 275 | | | | 598 | 1945 | 2170 | 92.0 | 0.0471 | 1.4 | 4210 | 0444 |
| ## | 233 | 1240 | 1370 | 1570 | 635 | 1794 | 2690 | 91.7 | 0.0350 | 0.96 | 4480 | 0368 |
| | 258 | | | | 637 | 1798 | 2690 | 92.1 | 0.0354 | 0.96 | 4480 | 0368 |
| | 270 | 1440 | 1570 | | 636 | 1791 | 2690 | 92.3 | 0.0355 | 0.96 | 4480 | 0368 |
| | 295 | | | | 637 | 1794 | 2690 | 92.6 | 0.0359 | 0.96 | 4480 | 0368 |
| ## | 266 | 1420 | 1570 | 1790 | 722 | 1789 | 2720 | 92.1 | 0.0278 | 0.74 | 4540 | 0324 |
| | 294 | | | | 723 | 1788 | 2720 | 92.5 | 0.0281 | 0.74 | 4540 | 0324 |
| | 308 | 1640 | 1790 | | 723 | 1794 | 2720 | 92.6 | 0.0283 | 0.74 | 4540 | 0324 |
| | 325 | | | | 699 | 1734 | 2810 | 93.0 | 0.0280 | 0.74 | 4540 | 0324 |
| ## | 324 | 1720 | 1900 | 2150 | 872 | 1799 | 2930 | 92.9 | 0.0193 | 0.54 | 4410 | 0276 |
| | 345 | | | | 840 | 1734 | 3040 | 93.3 | 0.0191 | 0.54 | 4410 | 0276 |
| | 350 | 1980 | 2150 | | 814 | 1688 | 3130 | 93.5 | 0.0189 | 0.54 | 4410 | 0276 |
| | 354 | | | | 754 | 1572 | 3200 | 93.9 | 0.0184 | 0.54 | 4410 | 0276 |
| ## | 339 | 2030 | 2220 | | 908 | 1595 | 3200 | 93.4 | 0.0142 | 0.38 | 4290 | 0232 |
| | 339 | | | | 823 | 1458 | 3200 | 93.6 | 0.0138 | 0.38 | 4290 | 0232 |
| ## | 350 | 2200 | | | 934 | 1519 | 3200 | 93.7 | 0.0115 | 0.33 | 4290 | 0216 |

** Through field control with constant output. Please specify.

Data subject to change without prior notice.

| | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2721 |
|----|---|------|------|------|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | |
| ## | 64.4 | 260 | 295 | 310 | 212 | 2365 | 910 | 75.9 | 0.425 | 14.3 | 3860 | 1272 |
| | 72.8 | | | | 213 | 2357 | 990 | 77.8 | 0.426 | 14.3 | 3860 | 1272 |
| | 76.9 | 345 | 212 | | 2369 | 990 | 78.7 | 0.426 | 14.3 | 3860 | 1272 | |
| | 85.2 | | 212 | | 2358 | 990 | 80.2 | 0.428 | 14.3 | 3860 | 1272 | |
| ## | 82.0 | 325 | 365 | 385 | 257 | 2410 | 930 | 79.6 | 0.290 | 10.3 | 4040 | 1080 |
| | 91.9 | | | | 257 | 2405 | 930 | 81.3 | 0.291 | 10.3 | 4040 | 1080 |
| | 96.9 | 425 | 257 | | 2404 | 930 | 82.1 | 0.291 | 10.3 | 4040 | 1080 | |
| | 107 | | 257 | | 2404 | 930 | 83.3 | 0.292 | 10.3 | 4040 | 1080 | |
| ## | 92.7 | 365 | 410 | 430 | 285 | 2425 | 900 | 81.3 | 0.238 | 8.6 | 4100 | 0984 |
| | 103 | | | | 282 | 2399 | 900 | 83.1 | 0.237 | 8.6 | 4100 | 0984 |
| | 109 | 475 | 284 | | 2421 | 900 | 83.6 | 0.238 | 8.6 | 4100 | 0984 | |
| | 120 | | 283 | | 2413 | 900 | 84.7 | 0.239 | 8.6 | 4100 | 0984 | |
| ## | 105 | 420 | 470 | 495 | 316 | 2388 | 870 | 83.2 | 0.190 | 7.0 | 3920 | 0888 |
| | 118 | | | | 318 | 2398 | 870 | 84.3 | 0.192 | 7.0 | 3920 | 0888 |
| | 124 | 545 | 317 | | 2392 | 870 | 85.0 | 0.192 | 7.0 | 3920 | 0888 | |
| | 137 | | 319 | | 2401 | 860 | 85.8 | 0.194 | 7.0 | 3920 | 0888 | |
| ## | 112 | 445 | 500 | 525 | 336 | 2404 | 1550 | 83.4 | 0.176 | 5.9 | 3970 | 0820 |
| | 125 | | | | 335 | 2388 | 1650 | 84.7 | 0.176 | 5.9 | 3970 | 0820 |
| | 131 | 580 | 333 | | 2383 | 1650 | 85.4 | 0.176 | 5.9 | 3970 | 0820 | |
| | 144 | | 333 | | 2371 | 1650 | 86.4 | 0.176 | 5.9 | 3970 | 0820 | |
| ## | 146 | 590 | 660 | 690 | 422 | 2363 | 2000 | 86.6 | 0.108 | 3.6 | 3980 | 0636 |
| | 163 | | | | 423 | 2359 | 2000 | 87.5 | 0.109 | 3.6 | 3980 | 0636 |
| | 171 | 760 | 423 | | 2367 | 2000 | 88.0 | 0.109 | 3.6 | 3980 | 0636 | |
| | 188 | | 424 | | 2362 | 2000 | 88.7 | 0.110 | 3.6 | 3980 | 0636 | |
| ## | 181 | 730 | 810 | 850 | 512 | 2368 | 1880 | 88.4 | 0.0744 | 2.6 | 4030 | 0540 |
| | 201 | | | | 512 | 2370 | 1880 | 89.2 | 0.0748 | 2.6 | 4030 | 0540 |
| | 211 | 930 | 512 | | 2371 | 1880 | 89.6 | 0.0751 | 2.6 | 4030 | 0540 | |
| | 231 | | 512 | | 2372 | 1880 | 90.1 | 0.0756 | 2.6 | 4030 | 0540 | |
| ## | 185 | 770 | 855 | 895 | 516 | 2294 | 2000 | 89.7 | 0.0623 | 2.1 | 4600 | 0492 |
| | 205 | | | | 516 | 2290 | 2000 | 90.4 | 0.0627 | 2.1 | 4600 | 0492 |
| | 215 | 980 | 516 | | 2294 | 2000 | 90.6 | 0.0630 | 2.1 | 4600 | 0492 | |
| | 235 | | 516 | | 2290 | 2000 | 91.1 | 0.0634 | 2.1 | 4600 | 0492 | |
| ## | 208 | 870 | 965 | 1010 | 575 | 2283 | 1910 | 90.4 | 0.0504 | 1.7 | 4410 | 0444 |
| | 231 | | | | 577 | 2286 | 1910 | 91.0 | 0.0508 | 1.7 | 4410 | 0444 |
| | 242 | 1110 | 576 | | 2288 | 1910 | 91.3 | 0.0510 | 1.7 | 4410 | 0444 | |
| | 264 | | 576 | | 2271 | 1910 | 91.7 | 0.0513 | 1.7 | 4410 | 0444 | |
| ## | 224 | 1010 | 1120 | 1180 | 612 | 2118 | 2380 | 91.4 | 0.0383 | 1.2 | 4810 | 0368 |
| | 248 | | | | 613 | 2115 | 2380 | 91.9 | 0.0387 | 1.2 | 4810 | 0368 |
| | 260 | 1280 | 614 | | 2104 | 2380 | 92.1 | 0.0389 | 1.2 | 4810 | 0368 | |
| | 283 | | 612 | | 2111 | 2380 | 92.4 | 0.0392 | 1.2 | 4810 | 0368 | |
| ## | 256 | 1160 | 1280 | 1340 | 697 | 2108 | 2400 | 91.9 | 0.0304 | 0.93 | 4810 | 0324 |
| | 283 | | | | 697 | 2111 | 2400 | 92.3 | 0.0308 | 0.93 | 4810 | 0324 |
| | 296 | 1460 | 696 | | 2110 | 2400 | 92.4 | 0.0309 | 0.93 | 4810 | 0324 | |
| | 323 | | 697 | | 2113 | 2400 | 92.7 | 0.0313 | 0.93 | 4810 | 0324 | |
| ## | 311 | 1390 | 1540 | 1610 | 839 | 2137 | 2600 | 92.7 | 0.0211 | 0.67 | 4950 | 0276 |
| | 344 | | | | 841 | 2133 | 2600 | 93.0 | 0.0214 | 0.67 | 4950 | 0276 |
| | 355 | 1750 | 828 | | 2106 | 2630 | 93.2 | 0.0213 | 0.67 | 4950 | 0276 | |
| | 363 | | 776 | | 1981 | 2810 | 93.6 | 0.0208 | 0.67 | 4950 | 0276 | |
| ## | 346 | 1650 | 1810 | | 930 | 2003 | 2810 | 93.1 | 0.0160 | 0.48 | 4870 | 0232 |
| | 351 | | | 854 | 1852 | 3060 | 93.5 | 0.0156 | 0.48 | 4870 | 0232 | |
| ## | 361 | 1790 | | | 965 | 1126 | 2900 | 93.5 | 0.0130 | 0.41 | 4870 | 0216 |
| | 361 | | 1960 | | | 875 | 1759 | 3200 | 93.8 | 0.0126 | 0.41 | 4870 |

** Through field control with constant output. Please specify.

Data subject to change without prior notice.

| | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2731 |
|----|---|------|------|------|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | |
| ## | 60.4 | 215 | 245 | 255 | 203 | 2683 | 750 | 74.4 | 0.475 | 16.6 | 4320 | 1272 |
| | 68.4 | | | | 203 | 2666 | 850 | 76.5 | 16.6 | 4320 | 1272 | |
| | 72.4 | 285 | 285 | 203 | 2711 | 880 | 77.4 | 0.477 | 16.6 | 4320 | 1272 | |
| | 80.4 | | | 204 | 2694 | 870 | 79.0 | 0.478 | 16.6 | 4320 | 1272 | |
| ## | 77.3 | 270 | 305 | 325 | 246 | 2734 | 840 | 78.4 | 0.324 | 12.0 | 4210 | 1080 |
| | 87.0 | | | | 247 | 2724 | 840 | 80.2 | 12.0 | 4210 | 1080 | |
| | 91.7 | 360 | 360 | 246 | 2695 | 840 | 81.0 | 0.325 | 12.0 | 4210 | 1080 | |
| | 100 | | | 245 | 2679 | 820 | 82.4 | 0.325 | 12.0 | 4210 | 1080 | |
| ## | 87.2 | 310 | 345 | 365 | 272 | 2686 | 820 | 80.2 | 0.267 | 9.9 | 4350 | 0984 |
| | 97.8 | | | | 272 | 2707 | 820 | 81.8 | 0.268 | 9.9 | 4350 | 0984 |
| | 103 | 400 | 400 | 271 | 2695 | 820 | 82.5 | 0.268 | 9.9 | 4350 | 0984 | |
| | 113 | | | 269 | 2698 | 800 | 83.9 | 0.267 | 9.9 | 4350 | 0984 | |
| ## | 99.7 | 350 | 390 | 415 | 304 | 2720 | 780 | 81.9 | 0.215 | 8.1 | 4430 | 0888 |
| | 111 | | | | 302 | 2718 | 780 | 83.6 | 0.214 | 8.1 | 4430 | 0888 |
| | 117 | 455 | 455 | 302 | 2692 | 780 | 84.2 | 0.215 | 8.1 | 4430 | 0888 | |
| | 129 | | | 303 | 2708 | 750 | 85.2 | 0.216 | 8.1 | 4430 | 0888 | |
| ## | 105 | 380 | 425 | 445 | 317 | 2639 | 1330 | 82.7 | 0.195 | 6.9 | 4200 | 0820 |
| | 118 | | | | 320 | 2652 | 1480 | 83.9 | 0.197 | 6.9 | 4200 | 0820 |
| | 124 | 490 | 490 | 319 | 2661 | 1490 | 84.5 | 0.197 | 6.9 | 4200 | 0820 | |
| | 136 | | | 317 | 2651 | 1490 | 85.7 | 0.197 | 6.9 | 4200 | 0820 | |
| ## | 138 | 500 | 555 | 585 | 402 | 2636 | 1750 | 85.9 | 0.121 | 4.1 | 4320 | 0636 |
| | 154 | | | | 403 | 2650 | 1800 | 86.9 | 0.122 | 4.1 | 4320 | 0636 |
| | 162 | 640 | 640 | 403 | 2645 | 1800 | 87.3 | 0.122 | 4.1 | 4320 | 0636 | |
| | 177 | | | 401 | 2641 | 1800 | 88.2 | 0.122 | 4.1 | 4320 | 0636 | |
| ## | 171 | 615 | 685 | 720 | 487 | 2655 | 1710 | 87.9 | 0.0829 | 3.0 | 4270 | 0540 |
| | 190 | | | | 487 | 2649 | 1710 | 88.7 | 0.0833 | 3.0 | 4270 | 0540 |
| | 200 | 790 | 790 | 488 | 2653 | 1710 | 89.1 | 0.0838 | 3.0 | 4270 | 0540 | |
| | 219 | | | 488 | 2647 | 1710 | 89.7 | 0.0842 | 3.0 | 4270 | 0540 | |
| ## | 193 | 690 | 765 | 805 | 545 | 2671 | 1640 | 88.6 | 0.0684 | 2.5 | 4350 | 0492 |
| | 214 | | | | 544 | 2672 | 1640 | 89.4 | 0.0687 | 2.5 | 4350 | 0492 |
| | 224 | 880 | 880 | 542 | 2657 | 1640 | 89.8 | 0.0688 | 2.5 | 4350 | 0492 | |
| | 246 | | | 545 | 2670 | 1640 | 90.4 | 0.0694 | 2.5 | 4350 | 0492 | |
| ## | 198 | 735 | 815 | 855 | 550 | 2573 | 1730 | 90.0 | 0.0565 | 2.0 | 4950 | 0444 |
| | 219 | | | | 549 | 2566 | 1730 | 90.7 | 0.0568 | 2.0 | 4950 | 0444 |
| | 229 | 935 | 935 | 547 | 2558 | 1730 | 91.0 | 0.0568 | 2.0 | 4950 | 0444 | |
| | 251 | | | 549 | 2564 | 1730 | 91.4 | 0.0574 | 2.0 | 4950 | 0444 | |
| ## | 235 | 900 | 995 | 1040 | 646 | 2494 | 1950 | 90.9 | 0.0411 | 1.4 | 4780 | 0368 |
| | 260 | | | | 646 | 2495 | 1950 | 91.4 | 0.0414 | 1.4 | 4780 | 0368 |
| | 272 | 1140 | 1140 | 645 | 2498 | 1950 | 91.7 | 0.0416 | 1.4 | 4780 | 0368 | |
| | 297 | | | 645 | 2488 | 1950 | 92.1 | 0.0419 | 1.4 | 4780 | 0368 | |
| ## | 243 | 980 | 1080 | 1140 | 663 | 2638 | 2180 | 91.6 | 0.0340 | 1.1 | 5430 | 0324 |
| | 269 | | | | 664 | 2379 | 2180 | 92.0 | 0.0343 | 1.1 | 5430 | 0324 |
| | 282 | 1240 | 1240 | 665 | 2362 | 2180 | 92.2 | 0.0345 | 1.1 | 5430 | 0324 | |
| | 307 | | | 664 | 2364 | 2180 | 92.5 | 0.0348 | 1.1 | 5430 | 0324 | |
| ## | 296 | 1190 | 1320 | 1380 | 800 | 2375 | 2360 | 92.5 | 0.0235 | 0.78 | 5100 | 0276 |
| | 327 | | | | 801 | 2366 | 2360 | 92.8 | 0.0238 | 0.78 | 5100 | 0276 |
| | 343 | 1500 | 1500 | 802 | 2374 | 2360 | 93.0 | 0.0239 | 0.78 | 5100 | 0276 | |
| | 373 | | | 800 | 2375 | 2360 | 93.2 | 0.0242 | 0.78 | 5100 | 0276 | |
| # | 341 | 1400 | 1540 | 1610 | 919 | 2326 | 2460 | 92.8 | 0.0182 | 0.55 | 5420 | 0232 |
| | 373 | | | | 911 | 2313 | 2480 | 93.1 | 0.0184 | 0.55 | 5420 | 0232 |
| | 378 | 1750 | 1750 | 881 | 2242 | 2560 | 93.3 | 0.0181 | 0.55 | 5420 | 0232 | |
| | 382 | | | 816 | 2085 | 2770 | 93.6 | 0.0176 | 0.55 | 5420 | 0232 | |
| # | 377 | 1540 | 1690 | 1770 | 1012 | 2338 | 2390 | 93.1 | 0.0152 | 0.48 | 5010 | 0216 |
| | 394 | | | | 957 | 2226 | 2530 | 93.5 | 0.0149 | 0.48 | 5010 | 0216 |
| | 397 | 1920 | 1920 | 921 | 2142 | 2630 | 93.7 | 0.0147 | 0.48 | 5010 | 0216 | |
| | 397 | | | 845 | 1975 | 2860 | 93.9 | 0.0143 | 0.48 | 5010 | 0216 | |

** Through field control with constant output. Please specify.

Data subject to change without prior notice.

| | Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2811 |
|----|-------------------|---|------|------|------|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|
| | | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | |
| ## | 116 | 335 | 375 | 395 | 435 | 357 | 3307 | 750 | 81.3 | 0.190 | 8.2 | 5290 | 0984 |
| | 131 | | | | | 361 | 3336 | 750 | 82.5 | 0.192 | 8.2 | 5290 | 0984 |
| | 138 | | | | | 361 | 3336 | 750 | 83.2 | 0.193 | 8.2 | 5290 | 0984 |
| | 152 | | | | | 360 | 3337 | 750 | 84.4 | 0.193 | 8.2 | 5290 | 0984 |
| | 132 | 385 | 430 | 450 | | 398 | 3274 | 740 | 83.0 | 0.153 | 6.7 | 5370 | 0888 |
| | 148 | | | | | 399 | 3287 | 740 | 84.2 | 0.154 | 6.7 | 5370 | 0888 |
| | 156 | | | | | 400 | 3311 | 740 | 84.8 | 0.155 | 6.7 | 5370 | 0888 |
| | 149 | 445 | 495 | 525 | 575 | 442 | 3198 | 980 | 84.2 | 0.125 | 4.6 | 5390 | 0732 |
| | 166 | | | | | 441 | 3203 | 980 | 85.5 | 0.125 | 4.6 | 5390 | 0732 |
| | 175 | | | | | 443 | 3183 | 980 | 86.0 | 0.126 | 4.6 | 5390 | 0732 |
| | 192 | | | | | 442 | 3189 | 980 | 86.9 | 0.126 | 4.6 | 5390 | 0732 |
| ## | 184 | 545 | 605 | 635 | 700 | 533 | 3224 | 1860 | 86.3 | 0.0881 | 3.4 | 5070 | 0636 |
| | 205 | | | | | 534 | 3236 | 1860 | 87.3 | 0.0886 | 3.4 | 5070 | 0636 |
| | 215 | | | | | 533 | 3233 | 1860 | 87.8 | 0.0886 | 3.4 | 5070 | 0636 |
| | 236 | | | | | 533 | 3220 | 1860 | 88.5 | 0.0891 | 3.4 | 5070 | 0636 |
| | 207 | 640 | 710 | 745 | 815 | 583 | 3089 | 1730 | 88.8 | 0.0615 | 2.5 | 5700 | 0540 |
| | 229 | | | | | 581 | 3080 | 1730 | 89.7 | 0.0617 | 2.5 | 5700 | 0540 |
| | 241 | | | | | 583 | 3089 | 1730 | 89.9 | 0.0620 | 2.5 | 5700 | 0540 |
| | 263 | | | | | 581 | 3082 | 1730 | 90.5 | 0.0622 | 2.5 | 5700 | 0540 |
| ## | 232 | 715 | 790 | 830 | 910 | 647 | 3099 | 1680 | 89.7 | 0.0502 | 2.1 | 5780 | 0492 |
| | 257 | | | | | 647 | 3107 | 1680 | 90.4 | 0.0505 | 2.1 | 5780 | 0492 |
| | 269 | | | | | 645 | 3095 | 1680 | 90.7 | 0.0505 | 2.1 | 5780 | 0492 |
| | 294 | | | | | 645 | 3085 | 1680 | 91.2 | 0.0508 | 2.1 | 5780 | 0492 |
| | 263 | 810 | 895 | 940 | 1030 | 727 | 3101 | 1620 | 90.4 | 0.0402 | 1.7 | 5950 | 0444 |
| | 291 | | | | | 727 | 3105 | 1620 | 91.0 | 0.0404 | 1.7 | 5950 | 0444 |
| | 305 | | | | | 727 | 3099 | 1620 | 91.3 | 0.0406 | 1.7 | 5950 | 0444 |
| | 334 | | | | | 729 | 3097 | 1620 | 91.7 | 0.0409 | 1.7 | 5950 | 0444 |
| ## | 290 | 935 | 1040 | 1090 | 1180 | 799 | 2962 | 2130 | 90.7 | 0.0336 | 1.2 | 5730 | 0372 |
| | 320 | | | | | 797 | 2938 | 2130 | 91.3 | 0.0338 | 1.2 | 5730 | 0372 |
| | 335 | | | | | 796 | 2935 | 2130 | 91.5 | 0.0340 | 1.2 | 5730 | 0372 |
| | 353 | | | | | 766 | 2857 | 2220 | 92.2 | 0.0335 | 1.2 | 5730 | 0372 |
| | 321 | 1080 | 1190 | 1250 | 1360 | 873 | 2838 | 2250 | 91.9 | 0.0244 | 0.89 | 6310 | 0324 |
| | 355 | | | | | 874 | 2849 | 2250 | 92.3 | 0.0247 | 0.89 | 6310 | 0324 |
| | 372 | | | | | 875 | 2842 | 2250 | 92.4 | 0.0249 | 0.89 | 6310 | 0324 |
| | 388 | | | | | 835 | 2725 | 2340 | 92.9 | 0.0245 | 0.89 | 6310 | 0324 |
| ## | 393 | 1310 | 1440 | 1510 | 1640 | 1061 | 2865 | 2140 | 92.6 | 0.0171 | 0.65 | 5890 | 0276 |
| | 409 | | | | | 997 | 2712 | 2280 | 93.2 | 0.0166 | 0.65 | 5890 | 0276 |
| | 415 | | | | | 965 | 2625 | 2350 | 93.5 | 0.0165 | 0.65 | 5890 | 0276 |
| | 421 | | | | | 898 | 2452 | 2530 | 93.8 | 0.0161 | 0.65 | 5890 | 0276 |

** Through field control with constant output. Please specify.

| | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2821 |
|----|---|------|------|------|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | |
| ## | 110 | 285 | 320 | 335 | 338 | 3686 | 680 | 81.3 | 0.201 | 9.9 | 5760 | 0984 |
| | 124 | | | | 341 | 3701 | 680 | 82.6 | 0.203 | 9.9 | 5760 | 0984 |
| | 130 | 370 | 380 | 420 | 339 | 3706 | 680 | 83.4 | 0.202 | 9.9 | 5760 | 0984 |
| | 144 | | | | 341 | 3717 | 680 | 84.4 | 0.204 | 9.9 | 5760 | 0984 |
| ## | 125 | 325 | 360 | 380 | 376 | 3673 | 670 | 83.0 | 0.162 | 8.0 | 5750 | 0888 |
| | 140 | | | | 377 | 3714 | 670 | 84.3 | 0.163 | 8.0 | 5750 | 0888 |
| | 148 | 420 | 485 | 585 | 380 | 3719 | 670 | 84.8 | 0.164 | 8.0 | 5750 | 0888 |
| | 163 | | | | 380 | 3706 | 670 | 85.8 | 0.164 | 8.0 | 5750 | 0888 |
| ## | 141 | 375 | 420 | 445 | 418 | 3591 | 880 | 84.3 | 0.133 | 5.5 | 5510 | 0732 |
| | 157 | | | | 417 | 3570 | 880 | 85.6 | 0.133 | 5.5 | 5510 | 0732 |
| | 166 | 485 | 585 | 715 | 420 | 3562 | 880 | 86.0 | 0.134 | 5.5 | 5510 | 0732 |
| | 182 | | | | 419 | 3584 | 880 | 86.9 | 0.134 | 5.5 | 5510 | 0732 |
| ## | 173 | 455 | 510 | 535 | 500 | 3631 | 1590 | 86.5 | 0.0928 | 4.1 | 5370 | 0636 |
| | 193 | | | | 501 | 3614 | 1710 | 87.5 | 0.0934 | 4.1 | 5370 | 0636 |
| | 203 | 585 | 715 | 860 | 502 | 3624 | 1710 | 87.9 | 0.0937 | 4.1 | 5370 | 0636 |
| | 223 | | | | 503 | 3640 | 1710 | 88.6 | 0.0942 | 4.1 | 5370 | 0636 |
| ## | 215 | 560 | 625 | 655 | 609 | 3667 | 1420 | 88.3 | 0.0640 | 3.0 | 5630 | 0540 |
| | 239 | | | | 609 | 3652 | 1420 | 89.1 | 0.0643 | 3.0 | 5630 | 0540 |
| | 251 | 655 | 715 | 860 | 610 | 3660 | 1420 | 89.5 | 0.0645 | 3.0 | 5630 | 0540 |
| | 275 | | | | 610 | 3673 | 1420 | 90.1 | 0.0649 | 3.0 | 5630 | 0540 |
| ## | 243 | 635 | 705 | 740 | 681 | 3655 | 1360 | 89.2 | 0.0518 | 2.5 | 5730 | 0492 |
| | 270 | | | | 683 | 3657 | 1360 | 89.9 | 0.0522 | 2.5 | 5730 | 0492 |
| | 283 | 740 | 810 | 995 | 682 | 3652 | 1360 | 90.2 | 0.0523 | 2.5 | 5730 | 0492 |
| | 310 | | | | 683 | 3655 | 1360 | 90.8 | 0.0526 | 2.5 | 5730 | 0492 |
| ## | 249 | 675 | 750 | 785 | 688 | 3523 | 1630 | 90.5 | 0.0428 | 2.0 | 6020 | 0444 |
| | 276 | | | | 689 | 3514 | 1630 | 91.1 | 0.0430 | 2.0 | 6020 | 0444 |
| | 290 | 785 | 860 | 995 | 690 | 3528 | 1630 | 91.4 | 0.0432 | 2.0 | 6020 | 0444 |
| | 316 | | | | 688 | 3509 | 1630 | 91.8 | 0.0434 | 2.0 | 6020 | 0444 |
| ## | 274 | 785 | 870 | 910 | 753 | 3333 | 1950 | 90.9 | 0.0356 | 1.4 | 5930 | 0372 |
| | 304 | | | | 756 | 3337 | 1950 | 91.4 | 0.0360 | 1.4 | 5930 | 0372 |
| | 318 | 910 | 995 | 1170 | 754 | 3337 | 1950 | 91.7 | 0.0361 | 1.4 | 5930 | 0372 |
| | 347 | | | | 754 | 3331 | 1950 | 92.1 | 0.0363 | 1.4 | 5930 | 0372 |
| ## | 331 | 925 | 1020 | 1070 | 901 | 3417 | 1880 | 91.9 | 0.0253 | 1.1 | 6200 | 0324 |
| | 365 | | | | 899 | 3417 | 1880 | 92.3 | 0.0255 | 1.1 | 6200 | 0324 |
| | 383 | 1070 | 1170 | 1480 | 900 | 3418 | 1880 | 92.5 | 0.0257 | 1.1 | 6200 | 0324 |
| | 417 | | | | 898 | 3404 | 1890 | 92.8 | 0.0259 | 1.1 | 6200 | 0324 |
| ## | 371 | 1080 | 1190 | 1250 | 1000 | 3281 | 1960 | 92.8 | 0.0182 | 0.78 | 6870 | 0276 |
| | 409 | | | | 998 | 3282 | 1960 | 93.1 | 0.0184 | 0.78 | 6870 | 0276 |
| | 428 | 1250 | 1360 | 1480 | 998 | 3270 | 1960 | 93.2 | 0.0185 | 0.78 | 6870 | 0276 |
| | 460 | | | | 984 | 3230 | 2000 | 93.5 | 0.0186 | 0.78 | 6870 | 0276 |
| ## | 390 | 1180 | 1310 | 1370 | 1051 | 3156 | 2050 | 92.8 | 0.0166 | 0.63 | 6530 | 0248 |
| | 430 | | | | 1050 | 3135 | 2050 | 93.1 | 0.0168 | 0.63 | 6530 | 0248 |
| | 439 | 1370 | 1480 | 1820 | 1023 | 3060 | 2110 | 93.2 | 0.0167 | 0.63 | 6530 | 0248 |
| | 441 | | | | 942 | 2846 | 2290 | 93.7 | 0.0162 | 0.63 | 6530 | 0248 |
| ## | 433 | 1360 | 1490 | 1820 | 1162 | 3041 | 2120 | 93.1 | 0.0130 | 0.48 | 6720 | 0216 |
| | 436 | | | | 1059 | 2794 | 2330 | 93.6 | 0.0125 | 0.48 | 6720 | 0216 |

** Through field control with constant output. Please specify.

Data subject to change without prior notice.

| | Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2831 |
|----|-------------------|---|------|------|------|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|
| | | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | |
| ## | 103 | 235 | 265 | 280 | 326 | 4186 | 600 | 79.1 | 0.238 | 11.9 | 5690 | 0984 | |
| | 116 | | | | | | | | | | | | |
| | 122 | | | | | | | | | | | | |
| | 135 | | | | | | | | | | | | |
| ## | 117 | 270 | 300 | 315 | 360 | 4138 | 580 | 81.2 | 0.190 | 9.7 | 5790 | 0888 | |
| | 132 | | | | | | | | | | | | |
| | 139 | | | | | | | | | | | | |
| | 153 | | | | | | | | | | | | |
| ## | 133 | 310 | 350 | 365 | 403 | 4097 | 780 | 82.6 | 0.155 | 6.6 | 6070 | 0732 | |
| | 149 | | | | | | | | | | | | |
| | 156 | | | | | | | | | | | | |
| | 172 | | | | | | | | | | | | |
| ## | 163 | 380 | 425 | 445 | 479 | 4096 | 1330 | 85.0 | 0.110 | 5.0 | 5870 | 0636 | |
| | 182 | | | | | | | | | | | | |
| | 191 | | | | | | | | | | | | |
| | 210 | | | | | | | | | | | | |
| ## | 204 | 470 | 525 | 550 | 585 | 4145 | 1250 | 87.2 | 0.0749 | 3.6 | 5490 | 0540 | |
| | 227 | | | | | | | | | | | | |
| | 239 | | | | | | | | | | | | |
| | 261 | | | | | | | | | | | | |
| ## | 230 | 530 | 585 | 615 | 652 | 4144 | 1350 | 88.2 | 0.0609 | 3.0 | 5690 | 0492 | |
| | 256 | | | | | | | | | | | | |
| | 269 | | | | | | | | | | | | |
| | 294 | | | | | | | | | | | | |
| ## | 237 | 565 | 625 | 655 | 661 | 4006 | 1290 | 89.6 | 0.0500 | 2.4 | 6610 | 0444 | |
| | 262 | | | | | | | | | | | | |
| | 275 | | | | | | | | | | | | |
| | 301 | | | | | | | | | | | | |
| ## | 261 | 650 | 725 | 760 | 723 | 3835 | 1710 | 90.2 | 0.0415 | 1.7 | 6570 | 0372 | |
| | 290 | | | | | | | | | | | | |
| | 304 | | | | | | | | | | | | |
| | 332 | | | | | | | | | | | | |
| ## | 313 | 770 | 855 | 895 | 857 | 3882 | 1660 | 91.3 | 0.0295 | 1.3 | 6700 | 0324 | |
| | 347 | | | | | | | | | | | | |
| | 363 | | | | | | | | | | | | |
| | 396 | | | | | | | | | | | | |
| ## | 353 | 905 | 1000 | 1050 | 955 | 3725 | 1730 | 92.4 | 0.0211 | 0.94 | 6810 | 0276 | |
| | 390 | | | | | | | | | | | | |
| | 408 | | | | | | | | | | | | |
| | 445 | | | | | | | | | | | | |
| ## | 372 | 990 | 1090 | 1140 | 1007 | 3588 | 1800 | 92.4 | 0.0192 | 0.76 | 7150 | 0248 | |
| | 410 | | | | | | | | | | | | |
| | 429 | | | | | | | | | | | | |
| | 444 | | | | | | | | | | | | |
| # | 423 | 1140 | 1260 | 1320 | 1140 | 3544 | 1820 | 92.7 | 0.0152 | 0.57 | 7010 | 0216 | |
| | 440 | | | | | | | | | | | | |
| | 441 | | | | | | | | | | | | |
| | 441 | | | | | | | | | | | | |

** Through field control with constant output. Please specify.

Data subject to change without prior notice.

| | Base speed (min ⁻¹) at armature voltage (V) | | | | Rated armature current (A) | Torque (Nm) | Max. electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | | Field loss (W) | Code number FR 2841 |
|---|---|------|------|------|----------------------------|-------------|--|----------------|------------------|-----------------|----------------|---------------------|
| | 400 | 440 | 460 | 500 | | | | | Resistance (Ohm) | Inductance (mH) | | |
| # | 404 | 860 | | | 1093 | 4486 | 1355 | 92.4 | 0.021 | 1.07 | 6800 | 0276 |
| | 446 | | 950 | | 1092 | 4483 | 1380 | 92.9 | 0.021 | 1.07 | 6800 | 0276 |
| | 467 | | | 995 | 1091 | 4482 | 1390 | 93.0 | 0.021 | 1.07 | 6800 | 0276 |
| | 493 | | | 1085 | 1054 | 4339 | 1400 | 93.5 | 0.021 | 1.07 | 6800 | 0276 |
| | 449 | 1025 | | | 1208 | 4183 | 1550 | 92.9 | 0.016 | 0.65 | 7480 | 0216 |
| | 482 | | 1130 | | 1174 | 4073 | 1560 | 93.3 | 0.016 | 0.65 | 7480 | 0216 |
| | 488 | | | 1180 | 1134 | 3949 | 1620 | 93.5 | 0.016 | 0.65 | 7480 | 0216 |
| | 493 | | | 1280 | 1050 | 3678 | 1730 | 93.9 | 0.016 | 0.65 | 7480 | 0216 |

** Through field control with constant output. Please specify.
Other possibilities on request.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | | Rated armature current (A) | Torque (Nm) | Max electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | |
|-------------------|---|------|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|
| | 400 | 440 | 470 | 520 | 550 | 620 | | | | | Resistance (Ohm) | Inductance (mH) |
| 165 | 333 | 372 | 400 | 447 | 476 | 543 | 500 | 4745 | 900 | 81,3 | 0,1123 | 1,98 |
| 185 | | | | | | | 500 | 4761 | 900 | 82,8 | | |
| 200 | | | | | | | 500 | 4775 | 900 | 83,8 | | |
| 225 | | | | | | | 500 | 4797 | 900 | 85,2 | | |
| 239 | | | | | | | 500 | 4797 | 900 | 85,9 | | |
| 274 | | | | | | | 500 | 4821 | 900 | 87,3 | | |
| 210 | 418 | 464 | 498 | 557 | 591 | 673 | 614 | 4797 | 945 | 84,3 | 0,07500 | 1,32 |
| 234 | | | | | | | 614 | 4809 | 945 | 85,6 | | |
| 252 | | | | | | | 614 | 4829 | 945 | 86,4 | | |
| 282 | | | | | | | 614 | 4832 | 945 | 87,4 | | |
| 300 | | | | | | | 614 | 4848 | 945 | 88,0 | | |
| 342 | | | | | | | 614 | 4850 | 945 | 89,1 | | |
| 359 | 700 | 776 | 831 | 925 | 981 | 1114 | 1000 | 4899 | 1800 | 89,2 | 0,02860 | 0,5 |
| 398 | | | | | | | 1000 | 4900 | 1800 | 89,9 | | |
| 427 | | | | | | | 1000 | 4910 | 1800 | 90,4 | | |
| 475 | | | | | | | 1000 | 4909 | 1800 | 91,1 | | |
| 504 | | | | | | | 997 | 4903 | 1800 | 91,5 | | |
| 547 | | | | | | | 955 | 4692 | 1850 | 92,3 | | |
| 446 | 867 | 958 | 1027 | 1142 | 1211 | 1375 | 1227 | 4916 | 1850 | 90,5 | 0,01950 | 0,33 |
| 494 | | | | | | | 1227 | 4921 | 1850 | 91,1 | | |
| 529 | | | | | | | 1227 | 4920 | 1850 | 91,5 | | |
| 583 | | | | | | | 1214 | 4873 | 1900 | 92,1 | | |
| 604 | | | | | | | 1185 | 4760 | 1930 | 92,5 | | |
| 645 | | | | | | | 1116 | 4477 | 2030 | 93,1 | | |
| 545 | 1056 | 1167 | 1251 | 1391 | 1476 | 1674 | 1485 | 4932 | 1400 | 91,7 | 0,01303 | 0,207 |
| 589 | | | | | | | 1451 | 4821 | 1410 | 92,2 | | |
| 614 | | | | | | | 1408 | 4684 | 1450 | 92,6 | | |
| 645 | | | | | | | 1333 | 4431 | 1550 | 93,1 | | |
| 660 | | | | | | | 1285 | 4270 | 1600 | 93,4 | | |
| 679 | | | | | | | 1169 | 3874 | 1760 | 93,8 | | |
| 560 | 1219 | 1346 | 1440 | 1601 | 1698 | 1368 | 1510 | 4387 | 1550 | 92,5 | 0,00982 | 0,191 |
| 617 | | | | | | | 1510 | 4380 | 1550 | 92,9 | | |
| 661 | | | | | | | 1510 | 4383 | 1550 | 93,1 | | |
| 697 | | | | | | | 1435 | 4159 | 1650 | 93,5 | | |
| 705 | | | | | | | 1368 | 3963 | 1720 | 93,7 | | |

Field loss = 5700 W

** Through field control with constant output. Please specify.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | | Rated armature current (A) | Torque (Nm) | Max electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | |
|-------------------|---|------|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|
| | 400 | 440 | 470 | 520 | 550 | 620 | | | | | Resistance (Ohm) | Inductance (mH) |
| 162 | 273 | | | | | | 500 | 5660 | 750 | 79,4 | 0,13100 | 2,7 |
| 182 | | 305 | | | | | 500 | 5693 | 750 | 81,1 | | |
| 196 | | | 328 | | | | 500 | 5717 | 750 | 82,2 | | |
| 221 | | | | 368 | | | 500 | 5733 | 750 | 83,8 | | |
| 236 | | | | | 393 | | 500 | 5744 | 750 | 84,6 | | |
| 270 | | | | | | 448 | 500 | 5756 | 750 | 86,1 | | |
| 206 | 343 | | | | | | 614 | 5745 | 800 | 82,8 | 0,08700 | 1,85 |
| 231 | | 382 | | | | | 614 | 5773 | 800 | 84,2 | | |
| 249 | | | 411 | | | | 614 | 5788 | 800 | 85,1 | | |
| 279 | | | | 460 | | | 614 | 5794 | 800 | 86,4 | | |
| 397 | | | | | 488 | | 614 | 5818 | 800 | 87,0 | | |
| 339 | | | | | | 556 | 614 | 5824 | 800 | 88,2 | | |
| 356 | 579 | | | | | | 1000 | 5877 | 1520 | 88,3 | 0,03342 | 0,706 |
| 395 | | 641 | | | | | 1000 | 5892 | 1520 | 89,2 | | |
| 425 | | | 687 | | | | 1000 | 5902 | 1520 | 89,7 | | |
| 474 | | | | 765 | | | 1000 | 5913 | 1520 | 90,5 | | |
| 503 | | | | | 812 | | 997 | 5913 | 1520 | 90,9 | | |
| 551 | | | | | | 923 | 955 | 5700 | 1580 | 91,8 | | |
| 444 | 715 | | | | | | 1227 | 5925 | 1600 | 89,8 | 0,02200 | 0,46 |
| 492 | | 792 | | | | | 1227 | 5930 | 1600 | 90,5 | | |
| 527 | | | 848 | | | | 1227 | 5938 | 1600 | 91,0 | | |
| 585 | | | | 944 | | | 1225 | 5923 | 1600 | 91,6 | | |
| 610 | | | | | 1002 | | 1202 | 5814 | 1640 | 92,0 | | |
| 660 | | | | | | 1137 | 1145 | 5544 | 1700 | 92,7 | | |
| 544 | 874 | | | | | | 1485 | 5940 | 1200 | 91,2 | 0,01500 | 0,25 |
| 594 | | 966 | | | | | 1467 | 5869 | 1200 | 91,8 | | |
| 622 | | | 1036 | | | | 1431 | 5732 | 1220 | 92,2 | | |
| 662 | | | | 1153 | | | 1370 | 5482 | 1280 | 92,8 | | |
| 682 | | | | | 1223 | | 1331 | 5324 | 1320 | 93,1 | | |
| 717 | | | | | | 1387 | 1235 | 4939 | 1420 | 93,6 | | |
| 550 | 1011 | | | | | | 1486 | 5195 | 1360 | 92,2 | 0,01112 | 0,207 |
| 607 | | 1117 | | | | | 1486 | 5192 | 1360 | 92,6 | | |
| 651 | | | 1195 | | | | 1486 | 5202 | 1360 | 92,9 | | |
| 722 | | | | 1327 | | | 1486 | 5195 | 1360 | 93,3 | | |
| 743 | | | | | 1406 | | 1444 | 5045 | 1400 | 93,5 | | |

Field loss = 6350 W

** Through field control with constant output. Please specify.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | | Rated armature current (A) | Torque (Nm) | Max electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | |
|-------------------|---|-----|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|
| | 400 | 440 | 470 | 520 | 550 | 620 | | | | | Resistance (Ohm) | Inductance (mH) |
| 158 | 225 | 251 | 271 | 305 | 325 | 371 | 500 | 6713 | 650 | 77,2 | 0,14500 | 2,9 |
| 178 | | | | | | | 500 | 6779 | 650 | 79,1 | | |
| 193 | | | | | | | 500 | 6792 | 650 | 80,4 | | |
| 217 | | | | | | | 500 | 6803 | 650 | 81,1 | | |
| 232 | | | | | | | 500 | 6812 | 650 | 82,9 | | |
| 266 | | | | | | | 500 | 6857 | 650 | 84,7 | | |
| 203 | 283 | 316 | 340 | 381 | 406 | 462 | 614 | 6841 | 670 | 81,1 | 0,09600 | 1,9 |
| 227 | | | | | | | 614 | 6869 | 670 | 82,6 | | |
| 245 | | | | | | | 614 | 6894 | 670 | 83,6 | | |
| 275 | | | | | | | 614 | 6904 | 670 | 85,0 | | |
| 294 | | | | | | | 614 | 6907 | 670 | 85,7 | | |
| 335 | | | | | | | 614 | 6934 | 670 | 87,2 | | |
| 353 | 481 | 534 | 573 | 638 | 678 | 771 | 1000 | 7003 | 1300 | 87,3 | 0,03709 | 0,766 |
| 392 | | | | | | | 1000 | 7007 | 1300 | 88,2 | | |
| 422 | | | | | | | 1000 | 7030 | 1300 | 88,8 | | |
| 470 | | | | | | | 1000 | 7035 | 1300 | 89,7 | | |
| 498 | | | | | | | 996 | 7017 | 1310 | 90,2 | | |
| 551 | | | | | | | 968 | 6824 | 1350 | 91,2 | | |
| 440 | 596 | 660 | 708 | 788 | 836 | 950 | 1227 | 7050 | 1360 | 88,9 | 0,02479 | 0,487 |
| 488 | | | | | | | 1227 | 7064 | 1360 | 89,8 | | |
| 525 | | | | | | | 1227 | 7075 | 1360 | 90,3 | | |
| 584 | | | | | | | 1225 | 7073 | 1360 | 91,0 | | |
| 611 | | | | | | | 1209 | 6979 | 1380 | 91,4 | | |
| 667 | | | | | | | 1162 | 6708 | 1440 | 92,2 | | |
| 532 | 730 | 807 | 865 | 963 | 1022 | 1159 | 1458 | 6957 | 1020 | 90,6 | 0,01700 | 0,3 |
| 588 | | | | | | | 1458 | 6961 | 1020 | 91,2 | | |
| 625 | | | | | | | 1443 | 6895 | 1030 | 91,7 | | |
| 671 | | | | | | | 1393 | 6653 | 1080 | 92,3 | | |
| 695 | | | | | | | 1361 | 6499 | 1100 | 92,7 | | |
| 745 | | | | | | | 1284 | 6135 | 1170 | 93,3 | | |
| 539 | 846 | 934 | 1000 | 1111 | 1177 | | 1458 | 6085 | 1190 | 91,7 | 0,01300 | 0,26 |
| 595 | | | | | | | 1458 | 6088 | 1190 | 92,2 | | |
| 637 | | | | | | | 1458 | 6086 | 1190 | 92,6 | | |
| 707 | | | | | | | 1458 | 6080 | 1190 | 93,0 | | |
| 750 | | | | | | | 1458 | 6085 | 1190 | 93,2 | | |

Field loss = 7150 W

** Through field control with constant output. Please specify.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | | Rated armature current (A) | Torque (Nm) | Max electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | |
|-------------------|---|-----|-----|-----|-----|------|----------------------------|-------------|---|----------------|------------------|-----------------|
| | 400 | 440 | 470 | 520 | 550 | 620 | | | | | Resistance (Ohm) | Inductance (mH) |
| 154 | 187 | 211 | 228 | 256 | 273 | 313 | 500 | 7846 | 550 | 74,6 | 0,16108 | 3,32 |
| 173 | | | | | | | 500 | 7818 | 550 | 76,8 | | |
| 188 | | | | | | | 500 | 7882 | 550 | 78,1 | | |
| 213 | | | | | | | 500 | 7936 | 550 | 80,1 | | |
| 227 | | | | | | | 500 | 7950 | 550 | 81,0 | | |
| 262 | | | | | | | 500 | 7988 | 550 | 83,0 | | |
| 198 | 237 | 265 | 285 | 320 | 340 | 390 | 614 | 7985 | 570 | 78,9 | 0,10669 | 2,18 |
| 222 | | | | | | | 614 | 7994 | 570 | 80,7 | | |
| 240 | | | | | | | 614 | 8042 | 570 | 81,8 | | |
| 271 | | | | | | | 614 | 8085 | 570 | 83,4 | | |
| 289 | | | | | | | 614 | 8120 | 570 | 84,2 | | |
| 331 | | | | | | | 614 | 8103 | 570 | 85,8 | | |
| 348 | 404 | 449 | 482 | 537 | 571 | 650 | 1000 | 8230 | 1110 | 86,0 | 0,04079 | 0,83 |
| 388 | | | | | | | 1000 | 8256 | 1110 | 87,1 | | |
| 417 | | | | | | | 1000 | 8268 | 1110 | 87,8 | | |
| 465 | | | | | | | 998 | 8278 | 1110 | 88,8 | | |
| 490 | | | | | | | 989 | 8195 | 1120 | 89,3 | | |
| 546 | | | | | | | 966 | 8027 | 1150 | 90,4 | | |
| 436 | 502 | 556 | 597 | 665 | 706 | 803 | 1227 | 8301 | 1160 | 87,9 | 0,02824 | 0,56 |
| 485 | | | | | | | 1227 | 8323 | 1160 | 88,8 | | |
| 520 | | | | | | | 1227 | 8318 | 1160 | 89,4 | | |
| 578 | | | | | | | 1223 | 8303 | 1160 | 90,2 | | |
| 606 | | | | | | | 1207 | 8202 | 1180 | 90,7 | | |
| 668 | | | | | | | 1170 | 7947 | 1210 | 91,6 | | |
| 516 | 617 | 682 | 730 | 813 | 863 | 980 | 1425 | 7992 | 890 | 89,9 | 0,01883 | 0,34 |
| 572 | | | | | | | 1425 | 8007 | 890 | 90,6 | | |
| 614 | | | | | | | 1425 | 8028 | 890 | 91,1 | | |
| 674 | | | | | | | 1404 | 7913 | 900 | 91,8 | | |
| 702 | | | | | | | 1378 | 7766 | 920 | 92,1 | | |
| 760 | | | | | | | 1315 | 7406 | 990 | 92,8 | | |
| 525 | 715 | 791 | 847 | 940 | 997 | 1425 | 1425 | 7006 | 1010 | 91,2 | 0,01464 | 0,29 |
| 580 | | | | | | | 1425 | 7003 | 1010 | 91,8 | | |
| 621 | | | | | | | 1425 | 7001 | 1010 | 92,1 | | |
| 690 | | | | | | | 1425 | 7010 | 1010 | 92,6 | | |
| 732 | | | | | | | 1425 | 7010 | 1010 | 92,9 | | |

Field loss = 8100 W

** Through field control with constant output. Please specify.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | | Rated armature current (A) | Torque (Nm) | Max electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | |
|-------------------|---|------|-----|-----|-----|-----|----------------------------|-------------|---|----------------|------------------|-----------------|
| | 400 | 440 | 470 | 520 | 550 | 620 | | | | | Resistance (Ohm) | Inductance (mH) |
| 147 | 154 | 173 | 188 | 211 | 226 | 260 | 500 | 9132 | 460 | 71,6 | 0,18305 | 3,83 |
| 167 | | | | | | | 500 | 9234 | 460 | 74,0 | | |
| 182 | | | | | | | 500 | 9236 | 460 | 75,5 | | |
| 207 | | | | | | | 500 | 9381 | 460 | 77,7 | | |
| 222 | | | | | | | 500 | 9373 | 460 | 78,8 | | |
| 256 | | | | | | | 500 | 9416 | 460 | 81,0 | | |
| 193 | 195 | 218 | 236 | 265 | 282 | 323 | 614 | 9438 | 480 | 76,5 | 0,12134 | 2,49 |
| 216 | | | | | | | 614 | 9478 | 480 | 78,4 | | |
| 235 | | | | | | | 614 | 9491 | 480 | 79,7 | | |
| 265 | | | | | | | 614 | 9566 | 480 | 81,5 | | |
| 284 | | | | | | | 614 | 9605 | 480 | 82,4 | | |
| 325 | | | | | | | 614 | 9623 | 480 | 84,2 | | |
| 343 | 337 | 376 | 404 | 451 | 480 | 550 | 1000 | 9712 | 940 | 84,5 | 0,04707 | 0,96 |
| 383 | | | | | | | 1000 | 9721 | 940 | 85,7 | | |
| 411 | | | | | | | 996 | 9713 | 940 | 86,6 | | |
| 455 | | | | | | | 985 | 9325 | 950 | 87,8 | | |
| 480 | | | | | | | 977 | 9550 | 960 | 88,3 | | |
| 538 | | | | | | | 959 | 9345 | 970 | 89,5 | | |
| 431 | 419 | 4666 | 500 | 557 | 593 | 673 | 1227 | 9821 | 970 | 86,7 | 0,03243 | 0,65 |
| 479 | | | | | | | 1227 | 9818 | 970 | 87,8 | | |
| 515 | | | | | | | 1227 | 9845 | 970 | 88,4 | | |
| 569 | | | | | | | 1213 | 9757 | 980 | 89,4 | | |
| 599 | | | | | | | 1200 | 9648 | 990 | 89,9 | | |
| 665 | | | | | | | 1170 | 9430 | 1010 | 90,9 | | |
| 499 | 519 | 575 | 616 | 686 | 728 | 826 | 1385 | 9183 | 770 | 89,1 | 0,02197 | 0,40 |
| 554 | | | | | | | 1385 | 9195 | 770 | 89,9 | | |
| 594 | | | | | | | 1385 | 9203 | 770 | 90,4 | | |
| 662 | | | | | | | 1385 | 9213 | 770 | 91,1 | | |
| 701 | | | | | | | 1383 | 9195 | 770 | 91,5 | | |
| 767 | | | | | | | 1383 | 8871 | 826 | 92,3 | | |
| 508 | 603 | 666 | 714 | 794 | 841 | 841 | 1385 | 8048 | 890 | 90,6 | 0,01674 | 0,33 |
| 562 | | | | | | | 1385 | 8056 | 890 | 91,2 | | |
| 603 | | | | | | | 1385 | 8062 | 890 | 91,6 | | |
| 670 | | | | | | | 1385 | 8059 | 890 | 92,2 | | |
| 710 | | | | | | | 1385 | 8062 | 890 | 92,5 | | |

Field loss = 9200 W

** Through field control with constant output. Please specify.

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | | Rated armature current (A) | Torque (Nm) | Max electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | |
|-------------------|---|------|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|
| | 400 | 440 | 470 | 520 | 550 | 620 | | | | | Resistance (Ohm) | Inductance (mH) |
| 152 | 192 | 215 | 232 | 261 | 279 | 319 | 496 | 7551 | 870 | 74,5 | 0,13000 | 3,2 |
| 171 | | | | | | | 495 | 7592 | 870 | 76,7 | | |
| 185 | | | | | | | 495 | 7634 | 870 | 78,1 | | |
| 209 | | | | | | | 493 | 7651 | 870 | 80,0 | | |
| 223 | | | | | | | 492 | 7624 | 870 | 81,1 | | |
| 255 | | | | | | | 489 | 7648 | 870 | 83,1 | | |
| 209 | 249 | 278 | 300 | 336 | 358 | 410 | 650 | 8019 | 915 | 78,9 | 0,08100 | 2,1 |
| 234 | | | | | | | 648 | 8026 | 915 | 80,7 | | |
| 253 | | | | | | | 646 | 8045 | 920 | 81,8 | | |
| 283 | | | | | | | 643 | 8036 | 920 | 83,5 | | |
| 302 | | | | | | | 641 | 8051 | 920 | 84,3 | | |
| 344 | | | | | | | 636 | 8004 | 930 | 85,9 | | |
| 267 | 314 | 349 | 376 | 421 | 448 | 510 | 801 | 8128 | 855 | 82,2 | 0,05500 | 1,26 |
| 297 | | | | | | | 796 | 8135 | 860 | 83,7 | | |
| 320 | | | | | | | 794 | 8128 | 865 | 84,6 | | |
| 356 | | | | | | | 788 | 8084 | 870 | 86,0 | | |
| 378 | | | | | | | 785 | 8062 | 875 | 86,6 | | |
| 428 | | | | | | | 776 | 8018 | 885 | 88,0 | | |
| 333 | 424 | 471 | 505 | 563 | 599 | 681 | 952 | 7494 | 1630 | 86,2 | 0,03300 | 0,82 |
| 367 | | | | | | | 944 | 7447 | 1630 | 87,2 | | |
| 393 | | | | | | | 938 | 7427 | 1630 | 88,0 | | |
| 434 | | | | | | | 927 | 7356 | 1630 | 89,0 | | |
| 458 | | | | | | | 920 | 7305 | 1630 | 89,5 | | |
| 512 | | | | | | | 903 | 7177 | 1630 | 90,5 | | |
| 440 | 539 | 598 | 641 | 714 | 758 | 860 | 1231 | 7795 | 1630 | 88,4 | 0,02100 | 0,52 |
| 484 | | | | | | | 1217 | 7724 | 1630 | 89,3 | | |
| 515 | | | | | | | 1206 | 7666 | 1630 | 89,9 | | |
| 565 | | | | | | | 1186 | 7551 | 1630 | 90,7 | | |
| 594 | | | | | | | 1175 | 7479 | 1630 | 91,1 | | |
| 656 | | | | | | | 1143 | 7289 | 1630 | 91,9 | | |
| 541 | 679 | 751 | 806 | 897 | 952 | 1080 | 1491 | 7607 | 1630 | 89,9 | 0,01397 | 0,354 |
| 590 | | | | | | | 1467 | 7503 | 1630 | 90,7 | | |
| 625 | | | | | | | 1448 | 7411 | 1630 | 91,1 | | |
| 680 | | | | | | | 1414 | 7240 | 1630 | 91,8 | | |
| 711 | | | | | | | 1393 | 7131 | 1630 | 92,1 | | |
| 775 | | | | | | | 1337 | 6849 | 1630 | 92,8 | | |
| 649 | 820 | 907 | 972 | 1081 | 1146 | 1299 | 1765 | 7559 | 1630 | 91,2 | 0,00990 | 0,2 |
| 701 | | | | | | | 1724 | 7380 | 1630 | 91,8 | | |
| 737 | | | | | | | 1690 | 7244 | 1630 | 92,2 | | |
| 791 | | | | | | | 1631 | 6987 | 1630 | 92,7 | | |
| 819 | | | | | | | 1592 | 6826 | 1630 | 93,0 | | |
| 870 | | | | | | | 1494 | 6396 | 1630 | 93,5 | | |
| 780 | 947 | 1046 | 1122 | 1247 | 1323 | 1498 | 2107 | 7865 | 1590 | 92,0 | 0,00742 | 0,15 |
| 838 | | | | | | | 2046 | 7653 | 1610 | 92,5 | | |
| 876 | | | | | | | 1997 | 7459 | 1630 | 92,8 | | |
| 932 | | | | | | | 1910 | 7136 | 1630 | 93,3 | | |
| 958 | | | | | | | 1854 | 6917 | 1630 | 93,5 | | |
| 999 | | | | | | | 1709 | 6369 | 1630 | 93,8 | | |
| 792 | 1074 | 1188 | 1272 | 1413 | 1498 | 1731 | 2117 | 7040 | 1630 | 92,8 | 0,00560 | 0,11 |
| 836 | | | | | | | 2027 | 6723 | 1630 | 93,2 | | |
| 864 | | | | | | | 1955 | 6484 | 1630 | 93,4 | | |
| 892 | | | | | | | 1820 | 6028 | 1630 | 93,7 | | |
| 897 | | | | | | | 1731 | 5720 | 1630 | 93,7 | | |

** Through field control with constant output. Please specify.

Field loss = 7200 W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | | Rated armature current (A) | Torque (Nm) | Max electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | |
|-------------------|---|-----|------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|
| | 400 | 440 | 470 | 520 | 550 | 620 | | | | | Resistance (Ohm) | Inductance (mH) |
| 145 | 156 | 176 | 190 | 214 | 229 | 262 | 484 | 8848 | 745 | 72,6 | 0,15400 | 3,6 |
| 163 | | | | | | | 483 | 8830 | 765 | 75,0 | | |
| 177 | | | | | | | 482 | 8910 | 765 | 76,5 | | |
| 201 | | | | | | | 480 | 8966 | 770 | 78,6 | | |
| 215 | | | | | | | 479 | 8947 | 770 | 79,7 | | |
| 246 | | | | | | | 476 | 8980 | 775 | 81,9 | | |
| 200 | 203 | 228 | 246 | 276 | 294 | 336 | 633 | 9408 | 810 | 77,4 | 0,09600 | 2,25 |
| 225 | | | | | | | 630 | 9405 | 810 | 79,3 | | |
| 243 | | | | | | | 629 | 9423 | 815 | 80,6 | | |
| 273 | | | | | | | 626 | 9437 | 815 | 82,3 | | |
| 291 | | | | | | | 625 | 9450 | 820 | 83,2 | | |
| 332 | | | | | | | 620 | 9431 | 825 | 85,0 | | |
| 256 | 257 | 287 | 308 | 346 | 367 | 419 | 778 | 9526 | 760 | 81,0 | 0,06450 | 1,46 |
| 285 | | | | | | | 775 | 9499 | 760 | 82,6 | | |
| 308 | | | | | | | 772 | 9556 | 765 | 83,6 | | |
| 345 | | | | | | | 767 | 9510 | 765 | 85,1 | | |
| 365 | | | | | | | 765 | 9510 | 770 | 85,8 | | |
| 415 | | | | | | | 758 | 9448 | 780 | 87,2 | | |
| 323 | 349 | 388 | 416 | 465 | 494 | 562 | 931 | 8830 | 1605 | 85,3 | 0,03900 | 0,9 |
| 356 | | | | | | | 925 | 8771 | 1615 | 86,5 | | |
| 382 | | | | | | | 919 | 8765 | 1625 | 87,2 | | |
| 424 | | | | | | | 910 | 8700 | 1630 | 88,3 | | |
| 447 | | | | | | | 905 | 8647 | 1630 | 88,8 | | |
| 502 | | | | | | | 891 | 8527 | 1630 | 89,9 | | |
| 428 | 445 | 493 | 529 | 589 | 626 | 711 | 1205 | 9188 | 1630 | 87,6 | 0,02434 | 0,564 |
| 471 | | | | | | | 1194 | 9122 | 1630 | 88,6 | | |
| 503 | | | | | | | 1185 | 9076 | 1630 | 89,3 | | |
| 554 | | | | | | | 1168 | 8977 | 1630 | 90,1 | | |
| 583 | | | | | | | 1158 | 8890 | 1630 | 90,6 | | |
| 648 | | | | | | | 1133 | 8706 | 1630 | 91,4 | | |
| 529 | 553 | 612 | 657 | 731 | 775 | 880 | 1465 | 9136 | 1630 | 89,3 | 0,01620 | 0,38 |
| 579 | | | | | | | 1445 | 9036 | 1630 | 90,2 | | |
| 615 | | | | | | | 1430 | 8946 | 1630 | 90,7 | | |
| 673 | | | | | | | 1403 | 8789 | 1630 | 91,4 | | |
| 705 | | | | | | | 1385 | 8682 | 1630 | 91,8 | | |
| 775 | | | | | | | 1341 | 8406 | 1630 | 92,5 | | |
| 637 | 676 | 747 | 801 | 892 | 946 | 1071 | 1740 | 9002 | 1485 | 90,8 | 0,01095 | 0,234 |
| 692 | | | | | | | 1705 | 8845 | 1515 | 91,4 | | |
| 730 | | | | | | | 1678 | 8703 | 1540 | 91,9 | | |
| 789 | | | | | | | 1630 | 8448 | 1585 | 92,4 | | |
| 821 | | | | | | | 1598 | 8287 | 1620 | 92,7 | | |
| 885 | | | | | | | 1520 | 7887 | 1630 | 93,3 | | |
| 770 | 782 | 864 | 927 | 1030 | 1093 | 1237 | 2085 | 9403 | 1380 | 91,6 | 0,00839 | 0,19 |
| 832 | | | | | | | 2036 | 9194 | 1415 | 92,2 | | |
| 875 | | | | | | | 1996 | 9010 | 1445 | 92,5 | | |
| 937 | | | | | | | 1925 | 8690 | 1495 | 93,0 | | |
| 970 | | | | | | | 1880 | 8475 | 1535 | 93,3 | | |
| 1031 | | | | | | | 1764 | 7959 | 1620 | 93,7 | | |
| 793 | 888 | 982 | 1051 | 1168 | 1238 | 2125 | 8525 | 1630 | 92,5 | 0,00630 | 0,13 | |
| 845 | | | | | | 2052 | 8222 | 1630 | 93,0 | | | |
| 880 | | | | | | 1993 | 7996 | 1630 | 93,3 | | | |
| 924 | | | | | | 1885 | 7552 | 1630 | 93,6 | | | |
| 942 | | | | | | 1815 | 7265 | 1630 | 93,7 | | | |

** Through field control with constant output. Please specify.

Field loss = 7950 W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | | Rated armature current (A) | Torque (Nm) | Max electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | |
|-------------------|---|------|-------|------|------|------|----------------------------|-------------|---|----------------|------------------|-----------------|
| | 400 | 440 | 470 | 520 | 550 | 620 | | | | | Resistance (Ohm) | Inductance (mH) |
| 136 | 129 | 145 | 157 | 177 | 189 | 218 | 470 | 10094 | 615 | 70,5 | 0,17137 | 4,06 |
| 155 | | | | | | | 469 | 10239 | 670 | 73,0 | | |
| 169 | | | | | | | 468 | 10285 | 675 | 74,6 | | |
| 192 | | 467 | 10350 | 675 | 76,9 | | | | | | | |
| 205 | | 466 | 10381 | 675 | 78,1 | | | | | | | |
| 236 | | 465 | 10354 | 680 | 80,4 | | | | | | | |
| 190 | 168 | 187 | 203 | 228 | 243 | 278 | 615 | 10800 | 715 | 75,7 | 0,10681 | 2,59 |
| 215 | | | | | | | 613 | 10957 | 715 | 77,7 | | |
| 232 | | | | | | | 611 | 10906 | 715 | 79,1 | | |
| 262 | | 609 | 10967 | 720 | 81,0 | | | | | | | |
| 279 | | 607 | 10968 | 720 | 81,9 | | | | | | | |
| 319 | | 604 | 10962 | 725 | 83,8 | | | | | | | |
| 245 | 213 | 237 | 255 | 287 | 305 | 348 | 755 | 10964 | 665 | 79,5 | 0,0717 | 1,69 |
| 274 | | | | | | | 752 | 11026 | 670 | 81,3 | | |
| 295 | | | | | | | 750 | 11065 | 670 | 82,4 | | |
| 331 | | 746 | 11011 | 675 | 84,0 | | | | | | | |
| 352 | | 744 | 11016 | 675 | 84,8 | | | | | | | |
| 401 | | 738 | 11002 | 685 | 86,4 | | | | | | | |
| 312 | 289 | 321 | 345 | 386 | 410 | 467 | 910 | 10303 | 1405 | 84,2 | 0,04342 | 1,04 |
| 345 | | | | | | | 905 | 10278 | 1420 | 85,5 | | |
| 371 | | | | | | | 900 | 10267 | 1425 | 86,3 | | |
| 412 | | 893 | 10189 | 1425 | 87,4 | | | | | | | |
| 436 | | 888 | 10164 | 1445 | 88,0 | | | | | | | |
| 491 | | 876 | 10039 | 1465 | 89,2 | | | | | | | |
| 415 | 369 | 410 | 440 | 491 | 521 | 592 | 1178 | 10751 | 1510 | 86,8 | 0,0271 | 0,64 |
| 458 | | | | | | | 1169 | 10672 | 1520 | 87,8 | | |
| 489 | | | | | | | 1161 | 10615 | 1530 | 88,5 | | |
| 541 | | 1148 | 10521 | 1550 | 89,5 | | | | | | | |
| 570 | | 1139 | 10448 | 1560 | 90,0 | | | | | | | |
| 637 | | 1118 | 10280 | 1590 | 90,9 | | | | | | | |
| 515 | 459 | 510 | 546 | 609 | 647 | 734 | 1433 | 10705 | 1430 | 88,6 | 0,01768 | 0,42 |
| 565 | | | | | | | 1417 | 10571 | 1445 | 89,5 | | |
| 601 | | | | | | | 1405 | 10510 | 1460 | 90,1 | | |
| 660 | | 1382 | 10350 | 1480 | 90,9 | | | | | | | |
| 694 | | 1367 | 10238 | 1500 | 91,3 | | | | | | | |
| 767 | | 1332 | 9983 | 1540 | 92,1 | | | | | | | |
| 623 | 563 | 623 | 668 | 744 | 788 | 894 | 1707 | 10562 | 1295 | 90,2 | 0,01216 | 0,28 |
| 678 | | | | | | | 1680 | 10396 | 1310 | 90,9 | | |
| 719 | | | | | | | 1658 | 10280 | 1335 | 91,4 | | |
| 781 | | 1618 | 10024 | 1365 | 92,0 | | | | | | | |
| 816 | | 1594 | 9894 | 1390 | 92,4 | | | | | | | |
| 889 | | 1530 | 9498 | 1445 | 93,0 | | | | | | | |
| 755 | 652 | 720 | 773 | 859 | 911 | 1033 | 2056 | 11065 | 1200 | 91,1 | 0,0093 | 0,22 |
| 820 | | | | | | | 2015 | 10876 | 1225 | 91,7 | | |
| 865 | | | | | | | 1984 | 10692 | 1245 | 92,1 | | |
| 935 | | 1926 | 10400 | 1285 | 92,7 | | | | | | | |
| 974 | | 1889 | 10207 | 1310 | 93,0 | | | | | | | |
| 1049 | | 1796 | 9699 | 1375 | 93,5 | | | | | | | |
| 788 | 741 | 818 | 876 | 974 | 1033 | 1033 | 2120 | 10157 | 1630 | 92,1 | 0,007 | 0,16 |
| 847 | | | | | | | 2061 | 9892 | 1630 | 92,6 | | |
| 887 | | | | | | | 2013 | 9673 | 1630 | 93,0 | | |
| 944 | | 1927 | 9252 | 1630 | 93,4 | | | | | | | |
| 971 | | 1872 | 8976 | 1630 | 93,6 | | | | | | | |

** Through field control with constant output. Please specify.

Field loss = 8850 W

LAK 6400 D

IC06/17/37/86W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | | Rated armature current (A) | Torque (Nm) | Max electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | |
|-------------------|---|-----|-----|-----|-----|-----|----------------------------|-------------|---|----------------|------------------|-----------------|
| | 400 | 440 | 470 | 520 | 550 | 620 | | | | | Resistance (Ohm) | Inductance (mH) |
| 129 | 106 | | | | | | 457 | 11630 | 500 | 67,9 | 0,18900 | 4,97 |
| 146 | | 120 | | | | | 456 | 11648 | 565 | 70,7 | | |
| 160 | | | 130 | | | | 455 | 11754 | 615 | 72,4 | | |
| 183 | | | | 148 | | | 455 | 11791 | 700 | 74,9 | | |
| 195 | | | | | 158 | | 454 | 11814 | 750 | 76,2 | | |
| 226 | | | | | | 181 | 452 | 11943 | 780 | 78,7 | | |
| 181 | 139 | | | | | | 596 | 12428 | 660 | 73,6 | 0,11800 | 3,1 |
| 204 | | 157 | | | | | 595 | 12387 | 745 | 75,8 | | |
| 221 | | | 169 | | | | 594 | 12483 | 810 | 77,3 | | |
| 250 | | | | 190 | | | 592 | 12566 | 830 | 79,3 | | |
| 267 | | | | | 203 | | 591 | 12574 | 830 | 80,4 | | |
| 306 | | | | | | 233 | 588 | 12557 | 835 | 82,5 | | |
| 234 | 178 | | | | | | 732 | 12534 | 770 | 77,8 | 0,07890 | 2 |
| 262 | | 199 | | | | | 730 | 12565 | 770 | 79,7 | | |
| 283 | | | 215 | | | | 728 | 12558 | 775 | 80,9 | | |
| 317 | | | | 241 | | | 725 | 12572 | 780 | 82,7 | | |
| 338 | | | | | 256 | | 723 | 12616 | 780 | 83,5 | | |
| 385 | | | | | | 293 | 718 | 12563 | 785 | 85,3 | | |
| 301 | 242 | | | | | | 888 | 11874 | 1170 | 82,9 | 0,04800 | 1,184 |
| 334 | | 269 | | | | | 884 | 11845 | 1245 | 84,3 | | |
| 359 | | | 291 | | | | 880 | 11785 | 1250 | 85,2 | | |
| 400 | | | | 324 | | | 874 | 11790 | 1255 | 86,5 | | |
| 424 | | | | | 339 | | 870 | 11934 | 1265 | 87,1 | | |
| 478 | | | | | | 387 | 860 | 11800 | 1280 | 88,4 | | |
| 401 | 310 | | | | | | 1151 | 12369 | 1325 | 85,8 | 0,03000 | 0,78 |
| 444 | | 344 | | | | | 1143 | 12316 | 1335 | 86,9 | | |
| 475 | | | 369 | | | | 1136 | 12269 | 1340 | 87,6 | | |
| 526 | | | | 412 | | | 1125 | 12201 | 1365 | 88,7 | | |
| 556 | | | | | 438 | | 1118 | 12120 | 1380 | 89,2 | | |
| 624 | | | | | | 498 | 1101 | 11953 | 1430 | 90,2 | | |
| 499 | 387 | | | | | | 1400 | 12327 | 1250 | 87,8 | 0,02010 | 0,521 |
| 549 | | 428 | | | | | 1386 | 12245 | 1265 | 88,8 | | |
| 585 | | | 460 | | | | 1376 | 12163 | 1275 | 89,4 | | |
| 645 | | | | 512 | | | 1357 | 12012 | 1290 | 90,3 | | |
| 679 | | | | | 544 | | 1345 | 11923 | 1305 | 90,7 | | |
| 755 | | | | | | 617 | 1316 | 11693 | 1330 | 91,6 | | |
| 605 | 474 | | | | | | 1672 | 12200 | 1130 | 89,5 | 0,01390 | 0,321 |
| 663 | | 525 | | | | | 1649 | 12064 | 1145 | 90,3 | | |
| 704 | | | 563 | | | | 1631 | 11931 | 1155 | 90,8 | | |
| 769 | | | | 626 | | | 1599 | 11731 | 1180 | 91,5 | | |
| 805 | | | | | 665 | | 1579 | 11573 | 1190 | 91,9 | | |
| 885 | | | | | | 754 | 1528 | 11215 | 1235 | 92,6 | | |
| 738 | 549 | | | | | | 2020 | 12840 | 1045 | 90,5 | 0,01043 | 0,266 |
| 805 | | 608 | | | | | 1987 | 12655 | 1065 | 91,2 | | |
| 853 | | | 651 | | | | 1961 | 12500 | 1075 | 91,6 | | |
| 926 | | | | 725 | | | 1915 | 12210 | 1100 | 92,3 | | |
| 968 | | | | | 769 | | 1885 | 12021 | 1120 | 92,6 | | |
| 1055 | | | | | | 872 | 1810 | 11553 | 1170 | 93,2 | | |
| 780 | 624 | | | | | | 2105 | 11935 | 1490 | 91,7 | 0,00780 | 0,193 |
| 843 | | 690 | | | | | 2056 | 11663 | 1525 | 92,2 | | |
| 886 | | | 740 | | | | 2018 | 11443 | 1535 | 92,6 | | |
| 953 | | | | 823 | | | 1950 | 11056 | 1610 | 93,1 | | |
| | | | | | 872 | | 1905 | 10806 | 1630 | 93,3 | | |
| 986 | | | | | | | | | | | | |

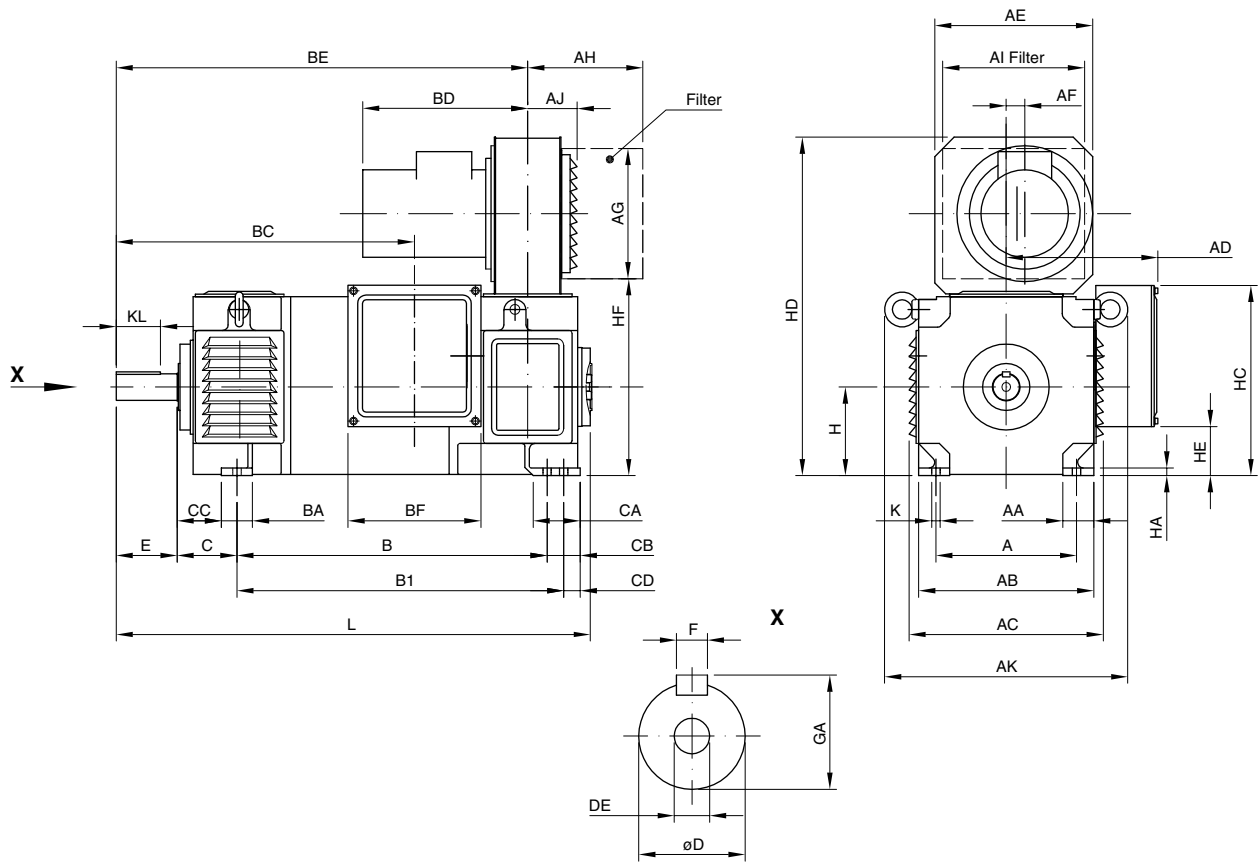
** Through field control with constant output. Please specify.

Field loss = 9950 W

| Cont. output (kW) | Base speed (min ⁻¹) at armature voltage (V) | | | | | | Rated armature current (A) | Torque (Nm) | Max electrical speed** (min ⁻¹) | Efficiency (%) | Armature circuit | |
|-------------------|---|-----|-----|-----|-----|-----|----------------------------|-------------|---|----------------|------------------|-----------------|
| | 400 | 440 | 470 | 520 | 550 | 620 | | | | | Resistance (Ohm) | Inductance (mH) |
| 121 | 88 | 100 | 109 | 123 | 132 | 153 | 445 | 13049 | 410 | 65,0 | 0,2125 | 5,68 |
| 138 | | | | | | | 444 | 13240 | 470 | 68,0 | | |
| 151 | | | | | | | 444 | 13243 | 510 | 69,9 | | |
| 173 | | | | | | | 443 | 13404 | 520 | 72,6 | | |
| 185 | | | | | | | 442 | 13395 | 520 | 74,0 | | |
| 215 | | | | | | | 440 | 13487 | 520 | 76,8 | | |
| 170 | 116 | 130 | 141 | 159 | 170 | 195 | 579 | 14002 | 550 | 71,2 | 0,1328 | 3,55 |
| 193 | | | | | | | 578 | 14138 | 550 | 73,6 | | |
| 210 | | | | | | | 577 | 14186 | 550 | 75,2 | | |
| 238 | | | | | | | 575 | 14337 | 555 | 77,4 | | |
| 255 | | | | | | | 575 | 14312 | 555 | 78,6 | | |
| 294 | | | | | | | 572 | 14361 | 555 | 80,9 | | |
| 222 | 147 | 165 | 178 | 200 | 214 | 244 | 655 | 14363 | 515 | 75,9 | 0,08891 | 2,37 |
| 249 | | | | | | | 708 | 14438 | 515 | 77,9 | | |
| 269 | | | | | | | 706 | 14439 | 520 | 79,3 | | |
| 304 | | | | | | | 704 | 14473 | 520 | 81,1 | | |
| 324 | | | | | | | 702 | 14471 | 520 | 82,1 | | |
| 370 | | | | | | | 698 | 14476 | 525 | 84,0 | | |
| 289 | 202 | 226 | 243 | 272 | 289 | 330 | 867 | 13640 | 970 | 81,3 | 0,05372 | 1,42 |
| 322 | | | | | | | 863 | 13612 | 1030 | 82,9 | | |
| 346 | | | | | | | 860 | 13608 | 1085 | 83,9 | | |
| 386 | | | | | | | 855 | 13588 | 1090 | 85,3 | | |
| 410 | | | | | | | 852 | 13556 | 1100 | 86,0 | | |
| 465 | | | | | | | 844 | 13489 | 1110 | 87,4 | | |
| 386 | 259 | 288 | 309 | 346 | 367 | 418 | 1123 | 14226 | 1160 | 84,5 | 0,03353 | 0,89 |
| 429 | | | | | | | 1116 | 14237 | 1165 | 85,8 | | |
| 460 | | | | | | | 1111 | 14208 | 1170 | 86,6 | | |
| 511 | | | | | | | 1102 | 14110 | 1180 | 87,7 | | |
| 541 | | | | | | | 1095 | 14070 | 1185 | 88,3 | | |
| 608 | | | | | | | 1082 | 13895 | 1205 | 89,5 | | |
| 482 | 323 | 359 | 385 | 430 | 457 | 519 | 1365 | 14226 | 1095 | 86,9 | 0,02256 | 0,60 |
| 532 | | | | | | | 1355 | 14147 | 1105 | 87,9 | | |
| 568 | | | | | | | 1346 | 14077 | 1110 | 88,6 | | |
| 628 | | | | | | | 1331 | 13945 | 1125 | 89,5 | | |
| 663 | | | | | | | 1322 | 13860 | 1130 | 90,0 | | |
| 741 | | | | | | | 1298 | 13641 | 1155 | 91,0 | | |
| 587 | 398 | 440 | 473 | 527 | 559 | 635 | 1634 | 14102 | 985 | 88,7 | 0,01554 | 0,37 |
| 645 | | | | | | | 1615 | 13977 | 995 | 89,6 | | |
| 686 | | | | | | | 1601 | 13860 | 1005 | 90,1 | | |
| 754 | | | | | | | 1575 | 13661 | 1020 | 90,9 | | |
| 792 | | | | | | | 1559 | 13518 | 1030 | 91,3 | | |
| 875 | | | | | | | 1518 | 13174 | 1060 | 92,1 | | |
| 719 | 462 | 512 | 548 | 610 | 648 | 735 | 1979 | 14872 | 910 | 89,7 | 0,01141 | 0,31 |
| 786 | | | | | | | 1953 | 14680 | 920 | 90,5 | | |
| 835 | | | | | | | 1932 | 14554 | 930 | 91,0 | | |
| 913 | | | | | | | 1894 | 14284 | 950 | 91,7 | | |
| 956 | | | | | | | 1870 | 14098 | 965 | 92,1 | | |
| 1051 | | | | | | | 1810 | 13649 | 995 | 92,8 | | |
| 768 | 526 | 581 | 623 | 693 | 734 | 734 | 2083 | 13951 | 1285 | 91,1 | 0,00858 | 0,23 |
| 834 | | | | | | | 2044 | 13709 | 1310 | 91,7 | | |
| 881 | | | | | | | 2013 | 13494 | 1330 | 92,1 | | |
| 954 | | | | | | | 1958 | 13149 | 1370 | 92,7 | | |
| 993 | | | | | | | 1923 | 12911 | 1390 | 93,0 | | |

** Through field control with constant output. Please specify.

Field loss = 11150 W

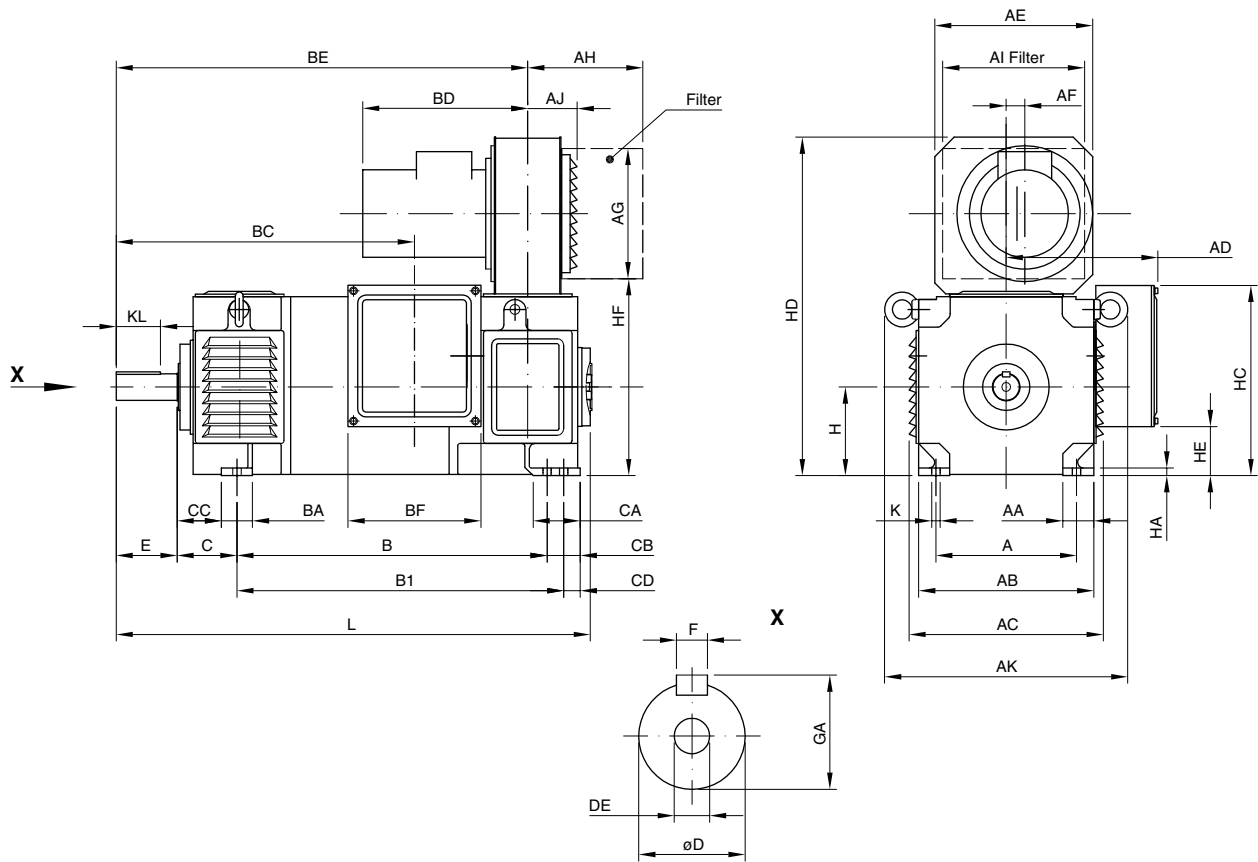


Dimensions in mm

| Type | A | AA | AB | AC | AD | AE | AF | AG | AH | AI | AJ | AK | B | BA | BC | BD | BE | BF | B1 | CD | C | CA | CB |
|------------|-----|------|-----|-----|-----|-----|------|-----|-----|-----|----|-----|-----|----|-----|-----|-----|-----|-----|----|----|----|----|
| LAK 2112MA | 190 | 45 | 220 | 256 | 203 | 220 | 17 | 195 | 175 | 195 | 77 | 326 | 373 | 50 | 336 | 235 | 514 | 190 | 403 | 11 | 70 | 71 | 41 |
| LAK 2112LA | | | | | | | | | | | | | 428 | | 391 | | 569 | | 458 | | | | |
| LAK 4112A | | | | | | | | | | | | | 373 | | 336 | | 514 | | 403 | | | | |
| LAK 4112B | | | | | | | | | | | | | 428 | | 391 | | 569 | | 458 | | | | |
| LAK 2132M | 216 | 47.5 | 260 | 295 | 223 | 220 | 17 | 195 | 175 | 195 | 77 | 366 | 482 | 50 | 419 | 235 | 590 | 190 | 89 | 60 | 25 | | |
| LAK 4132A | | | | | | 220 | 17 | 195 | 175 | 195 | 77 | | 437 | | 374 | 235 | 545 | | | | | | |
| LAK 4132B | | | | | | 220 | 17 | 195 | 175 | 195 | 77 | | 482 | | 419 | 235 | 590 | | | | | | |
| LAK 4132C | | | | | | 220 | 17 | 195 | 175 | 195 | 77 | | 532 | | 469 | 235 | 640 | | | | | | |
| LAK 4132D | | | | | | 285 | 33.5 | 235 | 208 | 235 | 89 | | 642 | | 609 | 298 | 780 | | | | | | |

| Type | CC | D | DE | E | F | GA | H | HA | HC | HD | HE | HF | K | KL | L | L+REO444R1 | L+TDP0.2LT | Weight (kg) |
|------------|----|----|-----|----|----|----|-----|----|-----|-----|----|-----|----|----|-------|------------|------------|-------------|
| LAK 2112MA | 45 | 38 | M10 | 80 | 10 | 41 | 112 | 10 | 241 | 451 | 66 | 250 | 12 | 57 | 594.5 | 805.5 | 811.5 | 97 |
| LAK 2112LA | | | | | | | | | | | | | | | 649.5 | 860.5 | 866.5 | 103 |
| LAK 4112A | | | | | | | | | | | | | | | 594.5 | 805.5 | 811.5 | 110 |
| LAK 4112B | | | | | | | | | | | | | | | 649.5 | 860.5 | 866.5 | 117 |
| LAK 2132M | 64 | 38 | M10 | 80 | 10 | 41 | 132 | 12 | 261 | 491 | 86 | 290 | 12 | 57 | 695.5 | 906.5 | 912.5 | 139 |
| LAK 4132A | | | | | | | | | | | | | | | 650.5 | 861.5 | 867.5 | 122 |
| LAK 4132B | | | | | | | | | | | | | | | 695.5 | 906.5 | 912.5 | 152 |
| LAK 4132C | | | | | | | | | | | | | | | 745.5 | 956.5 | 962.5 | 177 |
| LAK 4132D | | | | | | | | | | | | | | | 885 | 1096 | 1102 | 236 |

Dimensions are not binding.

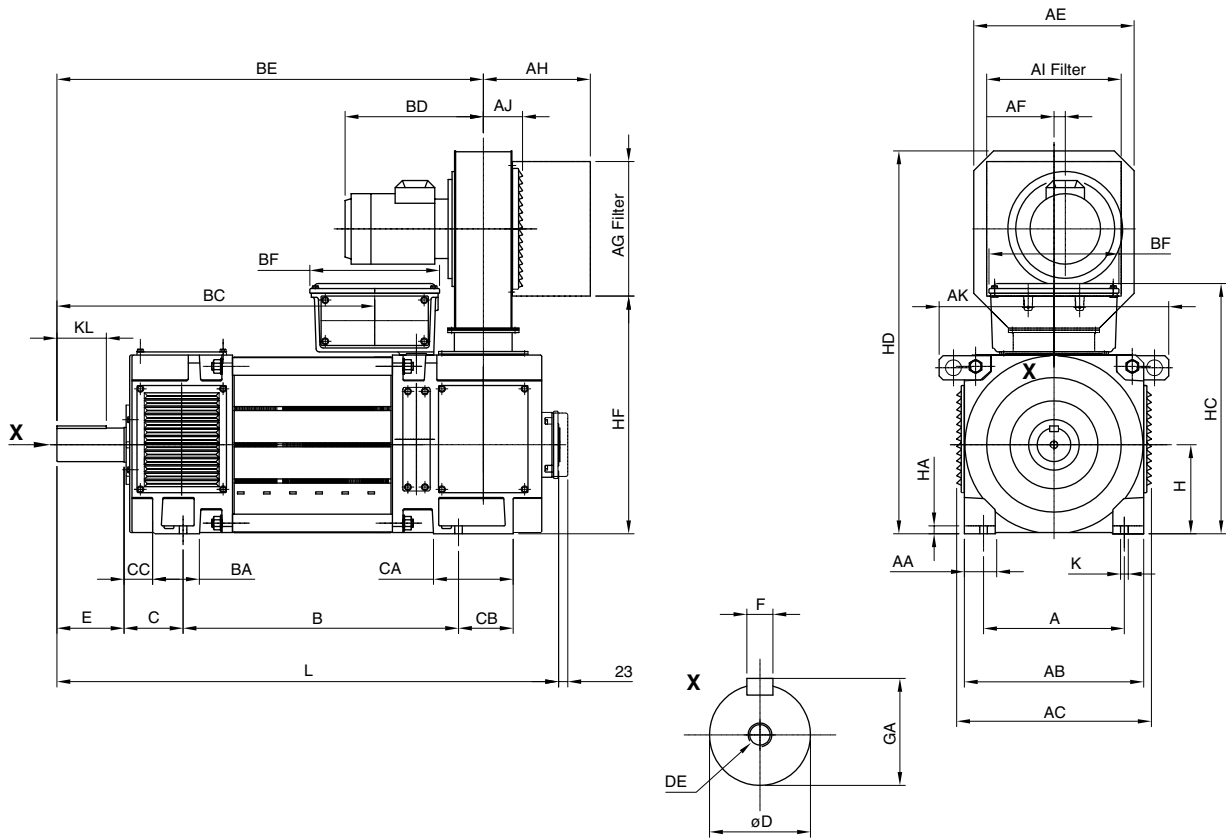


Dimensions in mm

| Type | A | AA | AB | AC | AD | AE | AF | AG | AH | AI | AJ | AK | B | BA | BC | BD | BE | BF | B1 | CD | C | |
|--------------|-----|----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-------|-----|-------|-----|----|----|-----|------|
| LAK 4160A/AA | 254 | 56 | 316 | 351 | 274 | 285 | 33.5 | 235 | 208 | 235 | 89 | 439 | 475 | 56 | 426 | 298 | 631 | 240 | | | 108 | |
| LAK 4160B/BB | | | | | | 285 | 33.5 | 235 | 208 | 235 | 89 | | 522 | | 473 | 298 | 678 | | | | | |
| LAK 4160C/CC | | | | | | 285 | 33.5 | 235 | 208 | 235 | 89 | | 587 | | 538 | 298 | 743 | | | | | |
| LAK 4160D | | | | | | 315 | 21.5 | 300 | 209 | 300 | 80 | | 712 | | 663.5 | 299 | 868.5 | | | | | |
| LAK 4180AA | 279 | 66 | 356 | 391 | 297 | 355 | 25.5 | 340 | 265 | 340 | 95 | 479 | 561 | 66 | 499 | 305 | 718 | 240 | | | 121 | |
| LAK 4180BA | | 66 | | | | 297 | 355 | | 25.5 | | 265 | | 95 | 612 | 66 | 535 | 305 | | | | | 754 |
| LAK 4180CA | | 66 | | | | 297 | 355 | | 25.5 | | 265 | | 95 | 677 | 66 | 616 | 305 | | | | | 835 |
| LAK 4180DA | | 66 | | | | 297 | 355 | | 25.5 | | 265 | | 95 | 707 | 66 | 681 | 305 | | | | | 900 |
| LAK 4180EA | | 66 | | | | 297 | 405 | | 28.5 | | 270 | | 105 | 720 | 66 | 741 | 349 | | | | | 960 |
| LAK 4180FA | | 61 | | | | 322 | 405 | | 28.5 | | 270 | | 105 | 795 | 85 | 821 | 349 | | | | | 1071 |

| Type | CA | CB | CC | D | DE | E | F | GA | H | HA | HC | HD | HE | HF | K | KL | L | L+REO 444R1 | L+TDP 0.2LT | Weight (kg) |
|--------------|-----|-------|----|----|-----|-----|----|------|-----|----|-------|-----|-------|-----|----|-----|--------|-------------|-------------|-------------|
| LAK 4160A/AA | 65 | 28 | 80 | 48 | M16 | 110 | 14 | 51.5 | 160 | 14 | 343.5 | 611 | 88.5 | 356 | 15 | 80 | 744 | 955 | 961 | 205/215 |
| LAK 4160B/BB | | | | | | | | | | | | 611 | | 356 | | | 791 | 1002 | 1008 | 245/255 |
| LAK 4160C/CC | | | | | | | | | | | | 611 | | 356 | | | 856 | 1067 | 1073 | 290/300 |
| LAK 4160D | | | | | | | | | | | | 641 | | 338 | | | 981 | 1192 | 1198 | 400 |
| LAK 4180AA | 195 | 50 | 91 | 55 | M16 | 110 | 16 | 59 | 180 | 16 | 364 | 745 | 109 | 402 | 15 | 80 | 848.5 | 1059.5 | 1065.5 | 310 |
| LAK 4180BA | 195 | 35 | | 55 | M16 | 110 | 16 | 59 | | 16 | 364 | 745 | 109 | 402 | 15 | 80 | 884.5 | 1095.5 | 1101.5 | 350 |
| LAK 4180CA | 195 | 21 | | 60 | M16 | 140 | 18 | 64 | | 16 | 364 | 745 | 109 | 402 | 15 | 110 | 965.5 | 1176.5 | 1182.5 | 400 |
| LAK 4180DA | 195 | 56.5 | | 70 | M20 | 140 | 20 | 74.5 | | 16 | 364 | 745 | 109 | 402 | 15 | 110 | 1030.5 | 1241.5 | 1247.5 | 490 |
| LAK 4180EA | 195 | 103.5 | | 70 | M20 | 140 | 20 | 74.5 | | 16 | 364 | 815 | 109 | 448 | 15 | 110 | 1090.5 | 1301.5 | 1307.5 | 540 |
| LAK 4180FA | 95 | 40 | | 70 | M20 | 140 | 20 | 74.5 | | 16 | 372.5 | 815 | 117.5 | 448 | 19 | 110 | 1248 | 1459 | 1465 | 650 |

Dimensions are not binding.

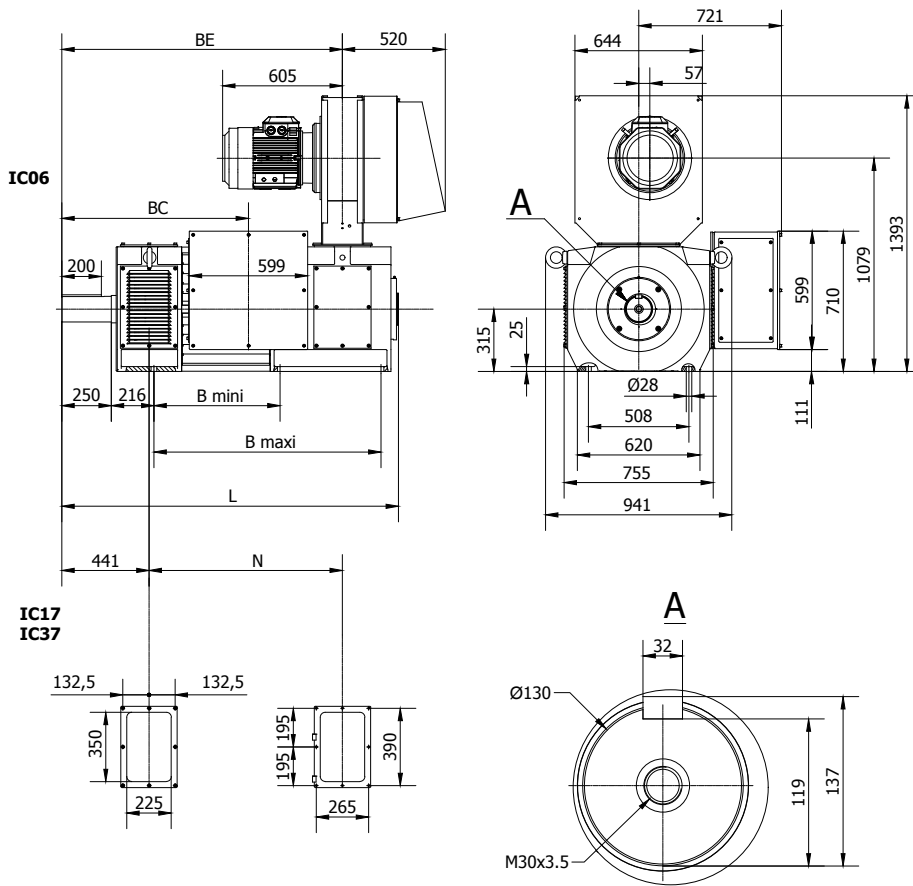


Dimensions in mm

| Type | A | AA | AB | AC | AE | AF | AG | AH | AI | AJ | AK | B | BA | BC | BD | BE | BF | C | CA | CB |
|-----------|-----|----|-----|-----|-----|------|-----|-------|-----|-----|-----|-----|-----|------|-------|-------|-----|-----|-----|-----|
| LAK 4200A | 318 | 70 | 404 | 443 | 355 | 25.5 | 340 | 265.5 | 340 | 94 | 500 | 542 | 113 | 616 | 305.5 | 854.5 | 278 | 133 | 178 | 116 |
| LAK 4200B | | | | | | | | | | | | 610 | | 684 | | 922.5 | | | | |
| LAK 4200C | | | | | | | | | | | | 678 | | 752 | | 990.5 | | | | |
| LAK 4225A | 356 | 78 | 453 | 492 | 405 | 28.5 | 340 | 271 | 340 | 99 | 580 | 630 | 118 | 737 | 349 | 1012 | 328 | 149 | 201 | 138 |
| LAK 4225B | | | | | | | | | | | | 696 | | 803 | | 1078 | | | | |
| LAK 4225C | | | | | | | | | | | | 762 | | 869 | | 1144 | | | | |
| LAK 4250A | 406 | 84 | 502 | 541 | 460 | 40 | 450 | 346 | 450 | 135 | 629 | 679 | 138 | 793 | 426 | 1083 | 328 | 168 | 229 | 160 |
| LAK 4250B | | | | | | | | | | | | 751 | | 865 | | 1155 | | | | |
| LAK 4250C | | | | | | | | | | | | 823 | | 937 | | 1227 | | | | |
| LAK 4280A | 457 | 89 | 560 | 599 | 460 | 40 | 450 | 346 | 450 | 135 | 687 | 735 | 155 | 863 | 426 | 1208 | 423 | 190 | 242 | 166 |
| LAK 4280B | | | | | | | | | | | | 815 | | 943 | | 1288 | | | | |
| LAK 4280C | | | | | | | | | | | | 895 | | 1023 | | 1368 | | | | |
| LAK 4280D | | | | | | | | | | | | 975 | | 1103 | | 1448 | | | | |

| Type | CC | D | DE | E | F | GA | H | HA | HC | HD | HF | K | KL | L | L+REO 444R1 | L+TDP0.2LT | Weight (kg) |
|-----------|----|-----|-----|-----|----|------|-----|----|-----|------|-----|----|-----|------|-------------|------------|-------------|
| LAK 4200A | 59 | 75 | M20 | 140 | 20 | 79.5 | 200 | 20 | 550 | 858 | 515 | 19 | 100 | 1032 | 1243 | 1249 | 530 |
| LAK 4200B | | | | | | | | | | | | | | 1100 | 1311 | 1317 | 590 |
| LAK 4200C | | | | | | | | | | | | | | 1168 | 1379 | 1385 | 660 |
| LAK 4225A | 72 | 85 | M20 | 170 | 22 | 90 | 225 | 20 | 633 | 968 | 601 | 19 | 125 | 1202 | 1413 | 1419 | 760 |
| LAK 4225B | | | | | | | | | | | | | | 1268 | 1479 | 1485 | 830 |
| LAK 4225C | | | | | | | | | | | | | | 1334 | 1545 | 1551 | 930 |
| LAK 4250A | 75 | 95 | M20 | 170 | 25 | 100 | 250 | 23 | 682 | 1107 | 652 | 24 | 125 | 1309 | 1520 | 1526 | 1030 |
| LAK 4250B | | | | | | | | | | | | | | 1381 | 1592 | 1598 | 1140 |
| LAK 4250C | | | | | | | | | | | | | | 1453 | 1664 | 1670 | 1310 |
| LAK 4280A | 81 | 100 | M20 | 210 | 28 | 106 | 280 | 26 | 790 | 1206 | 751 | 24 | 160 | 1468 | 1679 | 1685 | 1290 |
| LAK 4280B | | | | | | | | | | | | | | 1548 | 1759 | 1765 | 1500 |
| LAK 4280C | | | | | | | | | | | | | | 1628 | 1839 | 1845 | 1700 |
| LAK 4280D | | | | | | | | | | | | | | 1708 | 1919 | 1925 | 1900 |

Dimensions are not binding.

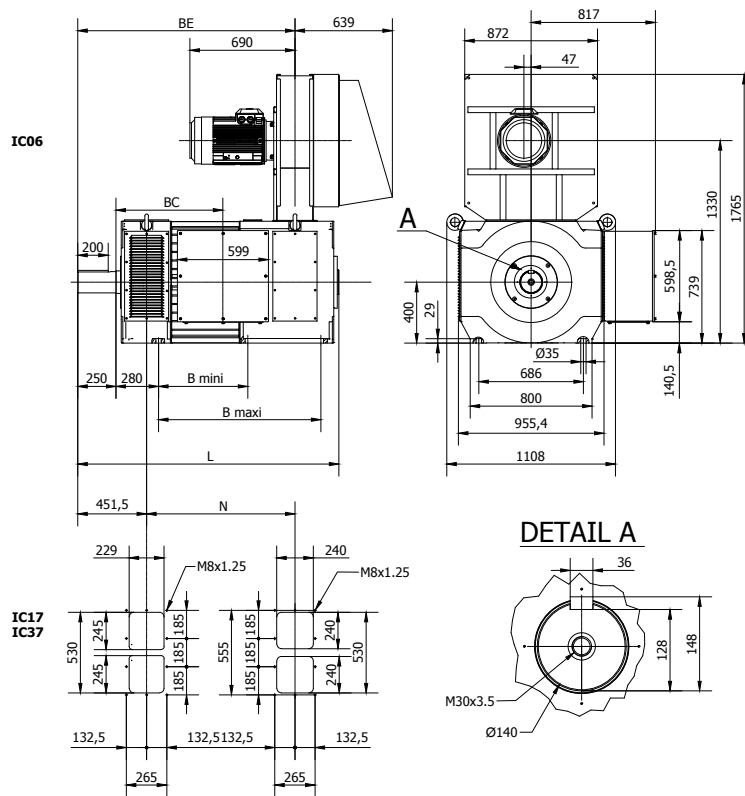


Dimensions in mm

| Type | BC | BE | B mini | B maxi | L | N | Weight kg (IC06) |
|------------|------|------|--------|--------|------|------|------------------|
| LAK 6315 A | 944 | 1419 | 638 | 1148 | 1702 | 978 | 2060 |
| LAK 6315 B | 1034 | 1509 | 728 | 1235 | 1792 | 1068 | 2250 |
| LAK 6315 C | 1136 | 1611 | 830 | 1340 | 1894 | 1170 | 2480 |
| LAK 6315 D | 1249 | 1724 | 943 | 1453 | 2007 | 1283 | 2740 |
| LAK 6315 E | 1384 | 1859 | 1078 | 1588 | 2142 | 1418 | 3050 |

IC666, IC86W and flanges : on request

Dimensions are not binding.

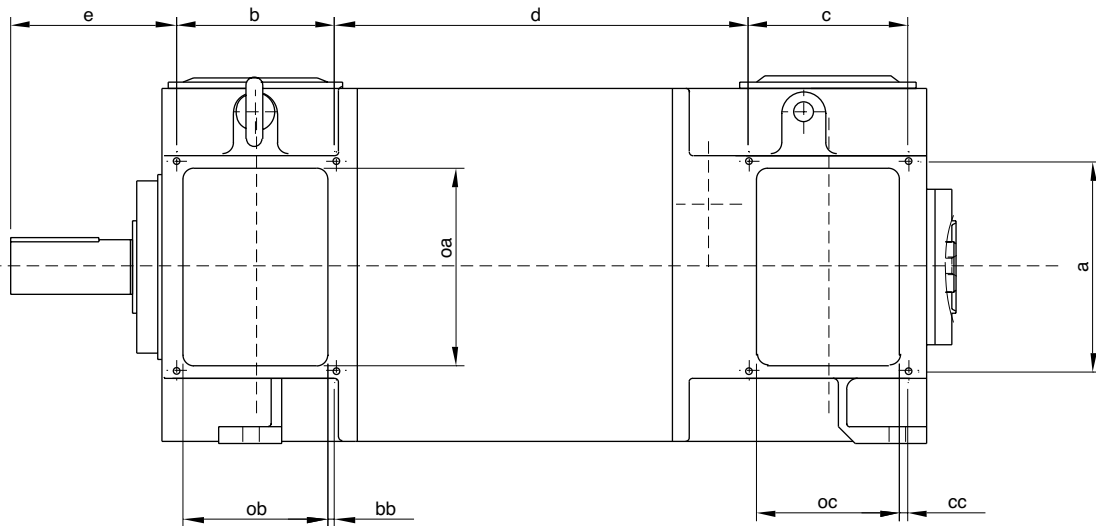


Dimensions in mm

| Type | BC | BE | B mini | B maxi | L | N | Weight kg (IC06) |
|------------|------|------|--------|--------|------|--------|------------------|
| LAK 6400 A | 953 | 1426 | 586 | 1066 | 1714 | 974,5 | 3100 |
| LAK 6400 B | 1043 | 1516 | 676 | 1156 | 1804 | 1064,5 | 3500 |
| LAK 6400 C | 1145 | 1618 | 778 | 1258 | 1906 | 1166,5 | 3900 |
| LAK 6400 D | 1258 | 1731 | 891 | 1371 | 2019 | 1279,5 | 4300 |
| LAK 6400 E | 1393 | 1866 | 1026 | 1506 | 2154 | 1414,5 | 4900 |

IC666, IC86W and flanges : on request

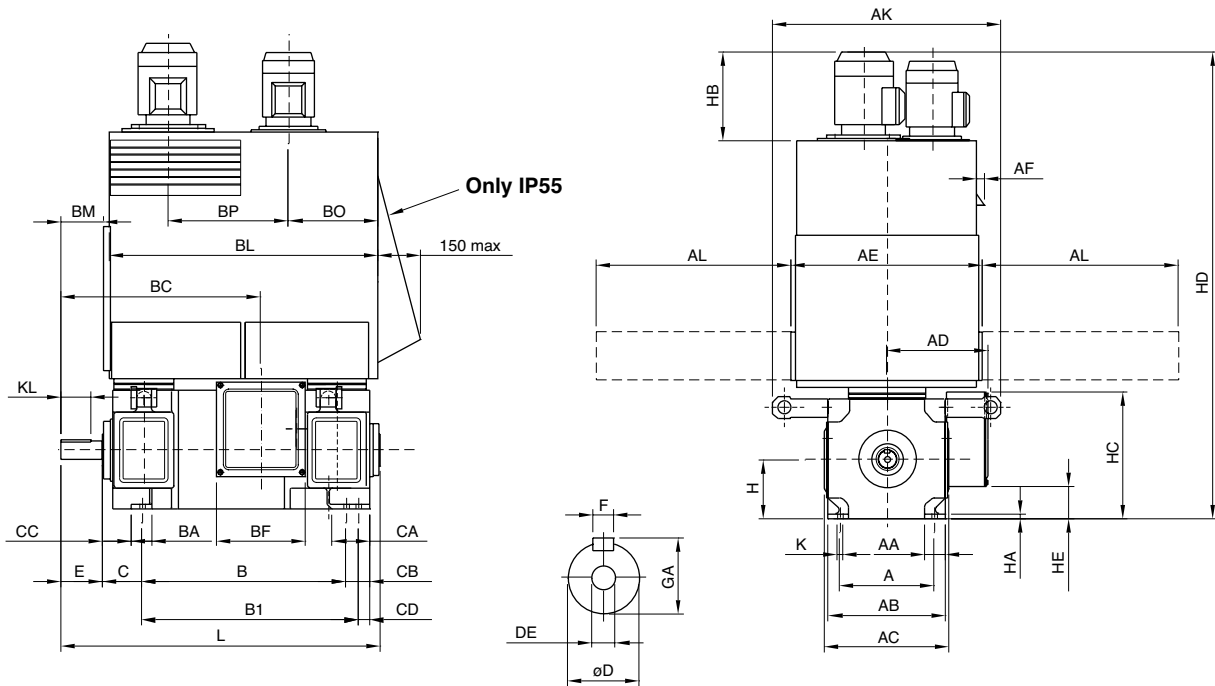
Dimensions are not binding.



Dimensions in mm

| Type | a | b | bb | c | cc | d | e | oa | ob | oc | t | Weight (kg) |
|--------------|-----|-----|------|-----|-----|-----|-------|-----|-----|-----|----|-------------|
| LAK 2112MA | 110 | 110 | 5 | 110 | 5 | 245 | 104 | 110 | 100 | 100 | M6 | 90 |
| LAK 2112LA | | | | | | 300 | | | | | | 96 |
| LAK 4112A | | | | | | 245 | | | | | | 103 |
| LAK 4112B | | | | | | 300 | | | | | | 110 |
| LAK 2132M | 150 | 125 | 7.5 | 125 | 7.5 | 286 | 116.5 | 145 | 110 | 110 | M6 | 132 |
| LAK 4132A | | | | | | 241 | | | | | | 115 |
| LAK 4132B | | | | | | 286 | | | | | | 145 |
| LAK 4132C | | | | | | 336 | | | | | | 170 |
| LAK 4132D | | | | | | 446 | 146.5 | | | | | 220 |
| LAK 4160A/AA | 190 | 145 | 7.5 | 145 | 7.5 | 263 | 150 | 180 | 130 | 130 | M6 | 190/200 |
| LAK 4160B/BB | | | | | | 310 | | | | | | 230/240 |
| LAK 4160C/CC | | | | | | 375 | | | | | | 275/285 |
| LAK 4160D | | | | | | 500 | | | | | | 380 |
| LAK 4180AA | 210 | 160 | 7.5 | 160 | 7.5 | 320 | 158.5 | 200 | 145 | 145 | M8 | 290 |
| LAK 4180BA | | | 7.5 | | 7.5 | 356 | 158.5 | 200 | 145 | 145 | | 330 |
| LAK 4180CA | | | 7.5 | | 7.5 | 407 | 188.5 | 200 | 145 | 145 | | 380 |
| LAK 4180DA | | | 7.5 | | 7.5 | 472 | 188.5 | 200 | 145 | 145 | | 470 |
| LAK 4180EA | | | 7.5 | | 7.5 | 532 | 188.5 | 200 | 145 | 145 | | 520 |
| LAK 4180FA | | | 10 | | 10 | 660 | 171 | 210 | 140 | 155 | | 630 |
| LAK 4200A | 220 | 175 | 8 | 175 | 8 | 400 | 192.5 | 210 | 159 | 159 | M8 | 495 |
| LAK 4200B | | | | | | 468 | | | | | | 560 |
| LAK 4200C | | | | | | 536 | | | | | | 630 |
| LAK 4225A | 254 | 209 | 17 | 209 | 11 | 485 | 211 | 239 | 170 | 191 | M8 | 730 |
| LAK 4225B | | | | | | 551 | | | | | | 800 |
| LAK 4225C | | | | | | 617 | | | | | | 900 |
| LAK 4250A | 274 | 209 | 14.5 | 209 | 9 | 526 | 227.5 | 260 | 180 | 191 | M8 | 970 |
| LAK 4250B | | | | | | 598 | | | | | | 1070 |
| LAK 4250C | | | | | | 670 | | | | | | 1240 |
| LAK 4280A | 330 | 240 | 15 | 240 | 9 | 585 | 263 | 312 | 200 | 222 | M8 | 1210 |
| LAK 4280B | | | | | | 665 | | | | | | 1420 |
| LAK 4280C | | | | | | 745 | | | | | | 1620 |
| LAK 4280D | | | | | | 825 | | | | | | 1820 |

Dimensions are not binding.

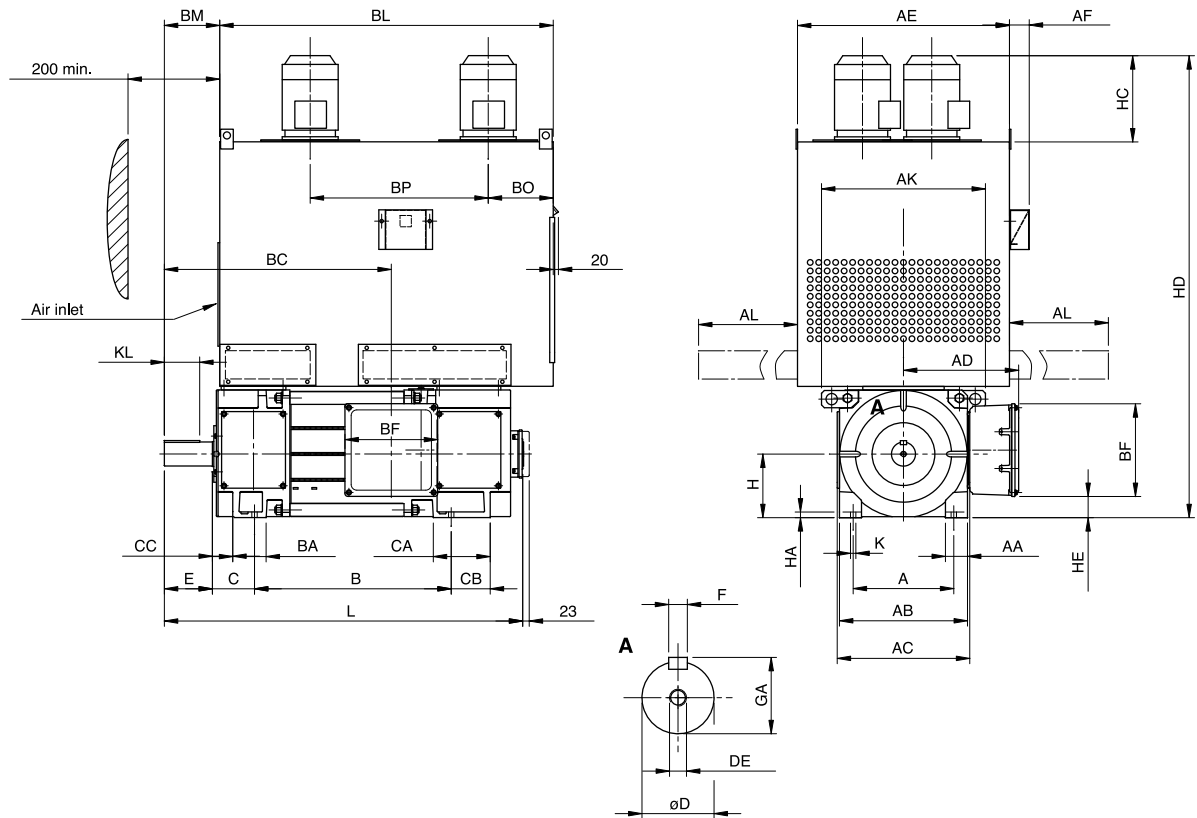


Dimensions in mm

| Type | A | AA | AB | AC | AD | AE | AF | AK | AL | B | BA | BC | BF | BL | BM | BP | BO | C | B1 | CA |
|--------------|-----|------|-----|-----|-----|-----|----|-----|-------|-----|----|-----|-----|------|-------|-----|-----|-----|-----|-----|
| LAK 2132M | 216 | 47.5 | 260 | 279 | 223 | 390 | 20 | 440 | 390 | 482 | 50 | 419 | 190 | 647 | 91 | 290 | 223 | 89 | | 60 |
| LAK 4132A | | | | | | | | | | 437 | | 374 | | 647 | | | | | | |
| LAK 4132B | | | | | | | | | | 482 | | 419 | | 647 | | | | | | |
| LAK 4132C | | | | | | | | | | 532 | | 469 | | 647 | | | | | | |
| LAK 4132D | | | | | | | | | | 642 | | 609 | | 772 | | | | | | |
| LAK 4160A/AA | 254 | 56 | 316 | 335 | 274 | 515 | 20 | 616 | 527.5 | 475 | 56 | 426 | 240 | 723 | 115 | 325 | 240 | 108 | | 65 |
| LAK 4160B/BB | | | | | | 515 | | | 522 | 473 | | 723 | | | | | | | | |
| LAK 4160C/CC | | | | | | 515 | | | 587 | 538 | | 723 | | | | | | | | |
| LAK 4160D | | | | | | 606 | | | 597 | 663 | | 843 | | | | | | | | |
| LAK 4180AA | 279 | 66 | 356 | 375 | 297 | 606 | 25 | 656 | 597 | 561 | 66 | 499 | 240 | 843 | 126.5 | 320 | 278 | 121 | 720 | 195 |
| LAK 4180BA | | 66 | | | 297 | 606 | | | 597 | 612 | 66 | 535 | | 843 | 126.5 | 320 | 278 | | | |
| LAK 4180CA | | 66 | | | 297 | 606 | | | 597 | 677 | 66 | 616 | | 843 | 156.5 | 320 | 278 | | | |
| LAK 4180DA | | 66 | | | 297 | 606 | | | 597 | 707 | 66 | 681 | | 843 | 156.5 | 320 | 278 | | | |
| LAK 4180EA | | 66 | | | 297 | 720 | | | 715 | 720 | 66 | 741 | | 1047 | 164 | 500 | 337 | | | |
| LAK 4180FA | | 61 | | | 322 | 720 | | | 715 | 795 | 85 | 821 | | 1047 | 131 | 500 | 337 | | | |

| Type | CB | CC | CD | D | DE | E | F | GA | H | HA | HB | HC | HD | HE | K | KL | L | Weight (kg) | |
|--------------|-------|----|----|------|-----|-----|-----|------|-----|------|-----|-------|------|-------|-----|-----|-------|-------------|-----|
| LAK 2132M | 25 | 64 | | 38 | M10 | 80 | 10 | 41 | 132 | 12 | 215 | 261 | 1089 | 86 | 12 | 57 | 695.5 | 212 | |
| LAK 4132A | | | | 38 | | 80 | 10 | 41 | | | | | | | | | 650.5 | 205 | |
| LAK 4132B | | | | 38 | | 80 | 10 | 41 | | | | | | | | | 695.5 | 225 | |
| LAK 4132C | | | | 38 | | 80 | 10 | 41 | | | | | | | | | 745.5 | 250 | |
| LAK 4132D | | | | 42 | | 110 | 12 | 45 | | | | | | | | | 885.5 | 310 | |
| LAK 4160A/AA | 28 | 80 | | 48 | M16 | 110 | 14 | 51.5 | 160 | 14 | 240 | 343.5 | 1259 | 88.5 | 15 | 80 | 744 | 310 | |
| LAK 4160B/BB | | | | | | | | | | | 240 | | 1259 | | | | 791 | 340 | |
| LAK 4160C/CC | | | | | | | | | | | 240 | | 1259 | | | | 856 | 385 | |
| LAK 4160D | | | | | | | | | | | 240 | | 1334 | | | | 981 | 500 | |
| LAK 4180AA | 50.5 | 91 | | 55 | M16 | 110 | 16 | 59 | 180 | 16 | 240 | 364 | 1356 | 109 | 15 | 80 | 848.5 | 525 | |
| LAK 4180BA | 35.5 | | | 55 | M16 | 110 | 16 | 59 | | 16 | 240 | 364 | 1356 | 109 | 15 | 80 | 884.5 | 555 | |
| LAK 4180CA | 21.5 | | | 60 | M16 | 140 | 18 | 64 | | 16 | 240 | 364 | 1356 | 109 | 15 | 110 | 965.5 | 615 | |
| LAK 4180DA | 56.5 | | | 43.5 | 70 | M20 | 140 | 20 | | 74.5 | 16 | 240 | 364 | 1356 | 109 | 15 | 110 | 1030.5 | 645 |
| LAK 4180EA | 103.5 | | | 28.5 | 70 | M20 | 140 | 20 | | 74.5 | 16 | 280 | 364 | 1451 | 109 | 15 | 110 | 1090.5 | 725 |
| LAK 4180FA | 40 | | | 70 | M20 | 140 | 20 | 74.5 | | 16 | 280 | 372.5 | 1451 | 117.5 | 19 | 110 | 1248 | 820 | |

Dimensions are not binding.



Dimensions in mm

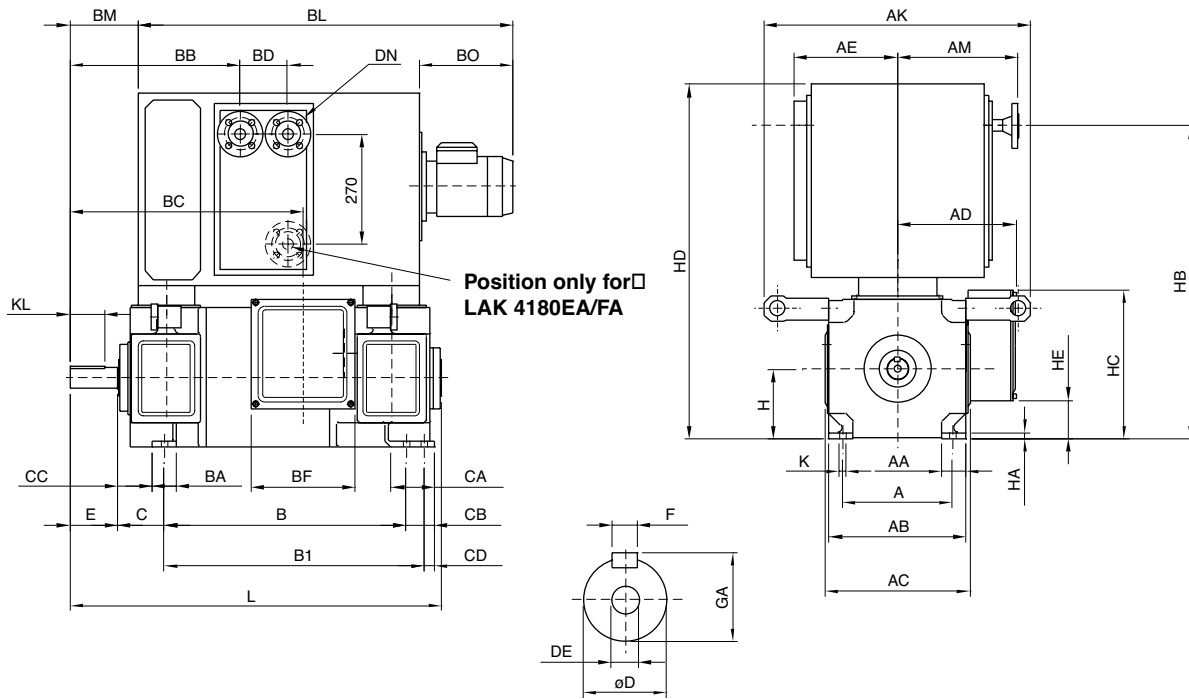
| Type | A | AA | AB | AC | AD | AE | AF | AL | AK | B | BA | BC | BF | BL | BM | BO | BP | C | CA | CB |
|-----------|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|
| LAK 4200A | 318 | 70 | 404 | 420 | 350 | 690 | 70 | 680 | 500 | 542 | 113 | 616 | 278 | 1030 | 170 | 200 | 500 | 133 | 178 | 116 |
| LAK 4200B | | | | | | | | | | 610 | | 684 | | | | | | | | |
| LAK 4200C | | | | | | | | | | 678 | | 752 | | | | | | | | |
| LAK 4225A | 356 | 78 | 453 | 469 | 408 | 750 | 70 | 375 | 580 | 630 | 118 | 737 | 328 | 1180 | 196 | 230 | 630 | 149 | 201 | 138 |
| LAK 4225B | | | | | | | | | | 696 | | 803 | | | | | | | | |
| LAK 4225C | | | | | | | | | | 762 | | 869 | | | | | | | | |
| LAK 4250A | 406 | 84 | 502 | 518 | 432 | 750 | 70 | 375 | 629 | 679 | 138 | 793 | 328 | 1180 | 212 | 230 | 630 | 168 | 229 | 160 |
| LAK 4250B | | | | | | | | | | 751 | | 865 | | | | | | | | |
| LAK 4250C | | | | | | | | | | 823 | | 937 | | | | | | | | |
| LAK 4280A | 457 | 89 | 560 | 576 | 510 | 860 | 70 | 430 | 687 | 735 | 155 | 863 | 423 | 1500 | 240 | 310 | 720 | 190 | 242 | 166 |
| LAK 4280B | | | | | | | | | | 815 | | 943 | | | | | | | | |
| LAK 4280C | | | | | | | | | | 895 | | 1023 | | | | | | | | |
| LAK 4280D | | | | | | | | | | 975 | | 1103 | | | | | | | | |

| Type | CC | D | DE | E | F | GA | H | HA | HC | HE | HD | K | KL | L | L+REO444R1 | L+TDP0.2LT | Weight (kg) |
|-----------|----|-----|-----|-----|----|------|-----|----|-----|------|------|----|-----|------|------------|------------|-------------|
| LAK 4200A | 59 | 75 | M20 | 140 | 20 | 79.5 | 200 | 20 | 280 | 77 | 1455 | 19 | 100 | 1032 | 1243 | 1249 | 700 |
| LAK 4200B | | | | | | | | | | | | | | 1100 | 1311 | 1317 | 760 |
| LAK 4200C | | | | | | | | | | | | | | 1168 | 1379 | 1385 | 835 |
| LAK 4225A | 72 | 85 | M20 | 170 | 22 | 90 | 225 | 20 | 305 | 75 | 1635 | 19 | 125 | 1202 | 1413 | 1419 | 1030 |
| LAK 4225B | | | | | | | | | | | | | | 1268 | 1479 | 1485 | 1100 |
| LAK 4225C | | | | | | | | | | | | | | 1334 | 1545 | 1551 | 1200 |
| LAK 4250A | 75 | 95 | M20 | 170 | 25 | 100 | 250 | 23 | 305 | 106 | 1684 | 24 | 125 | 1309 | 1520 | 1526 | 1270 |
| LAK 4250B | | | | | | | | | | | | | | 1381 | 1592 | 1598 | 1370 |
| LAK 4250C | | | | | | | | | | | | | | 1453 | 1664 | 1670 | 1540 |
| LAK 4280A | 81 | 100 | M20 | 210 | 28 | 106 | 280 | 26 | 310 | 93.5 | 2013 | 24 | 160 | 1468 | 1679 | 1685 | 1610 |
| LAK 4280B | | | | | | | | | | | | | | 1548 | 1759 | 1765 | 1820 |
| LAK 4280C | | | | | | | | | | | | | | 1628 | 1839 | 1845 | 2020 |
| LAK 4280D | | | | | | | | | | | | | | 1708 | 1919 | 1925 | 2220 |

Dimensions are not binding.

Dimension drawing, LAK 4132-4180

IC86W

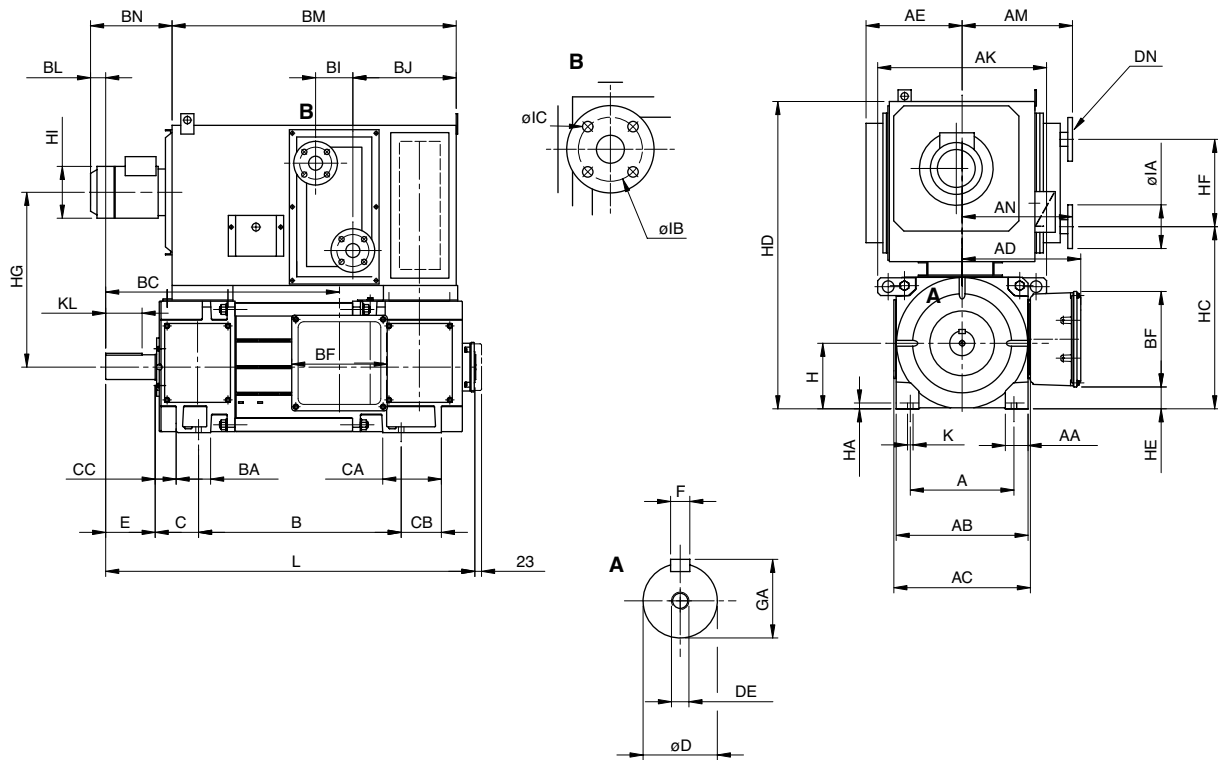


Dimensions in mm

| Type | A | AA | AB | AC | AD | AE | AK | AM | B | BA | BB | BC | BD | BF | BL | BM | BO | C | B1 | CA | CB |
|--------------|-----|------|-----|-----|-----|-----|-----|-----|-----|----|-------|-----|-----|-----|------|-------|-----|-----|-----|------|-------|
| LAK 2132M | 216 | 47.5 | 260 | 279 | 223 | 195 | 440 | 230 | 482 | 50 | 314 | 419 | 110 | 190 | 791 | 99 | 220 | 89 | 60 | 25 | |
| LAK 4132A | | | | | | | | | 437 | | 314 | 374 | | | 741 | 99 | | | | | |
| LAK 4132B | | | | | | | | | 482 | | 314 | 419 | | | 841 | 99 | | | | | |
| LAK 4132C | | | | | | | | | 532 | | 314 | 469 | | | 841 | 99 | | | | | |
| LAK 4132D | | | | | | | | | 642 | | 344 | 609 | | | 951 | 129 | | | | | |
| LAK 4160A/AA | 254 | 56 | 316 | 335 | 274 | 240 | 616 | 278 | 475 | 56 | 393 | 426 | 110 | 240 | 753 | 158 | 215 | 108 | 65 | 28 | |
| LAK 4160B/BB | | | | | | | | | 522 | | | 473 | | | 800 | | | | | | |
| LAK 4160C/CC | | | | | | | | | 587 | | | 538 | | | 865 | | | | | | |
| LAK 4160D | | | | | | | | | 712 | | | 663 | | | 990 | | | | | | |
| LAK 4180AA | 279 | 66 | 356 | 375 | 297 | 295 | 656 | 328 | 561 | 66 | 453.5 | 499 | 110 | 240 | 860 | 168.5 | 240 | 121 | 195 | 50.5 | |
| LAK 4180BA | | | | | 297 | 295 | | 328 | 612 | 66 | 453.5 | 535 | 110 | | 896 | 168.5 | 240 | | 195 | 35.5 | |
| LAK 4180CA | | | | | 297 | 295 | | 328 | 677 | 66 | 483.5 | 616 | 110 | | 947 | 198.5 | 240 | | 195 | 21.5 | |
| LAK 4180DA | | | | | 297 | 295 | | 328 | 707 | 66 | 483.5 | 681 | 110 | | 1012 | 198.5 | 240 | | 720 | 195 | 56.5 |
| LAK 4180EA | | | | | 297 | 292 | | 337 | 720 | 66 | 542.5 | 741 | 142 | | 1112 | 198.5 | 280 | | 795 | 195 | 103.5 |
| LAK 4180FA | | | | | 322 | 292 | | 337 | 795 | 85 | 525 | 821 | 142 | | 1240 | 181 | 280 | | 95 | 40 | |

| Type | CC | D | DE | DN | E | F | GA | H | HA | HB | HC | HD | HE | K | KL | L | CD | Weight (kg) |
|--------------|----|----|-----|----|-----|----|------|-----|----|-----|-------|-----|-------|----|-----|--------|------|-------------|
| LAK 2132M | 64 | 38 | M10 | 20 | 80 | 10 | 41 | 132 | 12 | 599 | 261 | 719 | 86 | 12 | 57 | 695.5 | | 220 |
| LAK 4132A | | 38 | | | 80 | 10 | 41 | | | | | | | | 57 | 650.5 | | 200 |
| LAK 4132B | | 38 | | | 80 | 10 | 41 | | | | | | | | 57 | 695.5 | | 235 |
| LAK 4132C | | 38 | | | 80 | 10 | 41 | | | | | | | | 57 | 745.5 | | 260 |
| LAK 4132D | | 42 | | | 110 | 12 | 45 | | | | | | | | 80 | 885 | | 330 |
| LAK 4160A/AA | 80 | 48 | M16 | 20 | 110 | 14 | 51.5 | 160 | 14 | 723 | 343.5 | 819 | 88.5 | 15 | 80 | 744 | | 310 |
| LAK 4160B/BB | | | | | | | | | | | | | | | 80 | 791 | | 340 |
| LAK 4160C/CC | | | | | | | | | | | | | | | 80 | 856 | | 400 |
| LAK 4160D | | | | | | | | | | | | | | | 80 | 981 | | 500 |
| LAK 4180AA | 91 | 55 | M16 | 20 | 110 | 16 | 59 | 180 | 16 | 761 | 364 | 857 | 109 | 15 | 80 | 848.5 | | 410 |
| LAK 4180BA | | 55 | M16 | 20 | 110 | 16 | 59 | | 16 | 761 | 364 | 857 | 109 | 15 | 80 | 884.5 | | 460 |
| LAK 4180CA | | 60 | M16 | 20 | 140 | 18 | 64 | | 16 | 761 | 364 | 857 | 109 | 15 | 110 | 965.5 | | 510 |
| LAK 4180DA | | 70 | M20 | 20 | 140 | 20 | 74.5 | | 16 | 761 | 364 | 857 | 109 | 15 | 110 | 1030.5 | 43.5 | 600 |
| LAK 4180EA | | 70 | M20 | 25 | 140 | 20 | 74.5 | | 16 | 769 | 364 | 867 | 109 | 15 | 110 | 1090.5 | 28.5 | 660 |
| LAK 4180FA | | 70 | M20 | 25 | 140 | 20 | 74.5 | | 16 | 769 | 372.5 | 867 | 117.5 | 19 | 110 | 1248 | | 790 |

Dimensions are not binding.

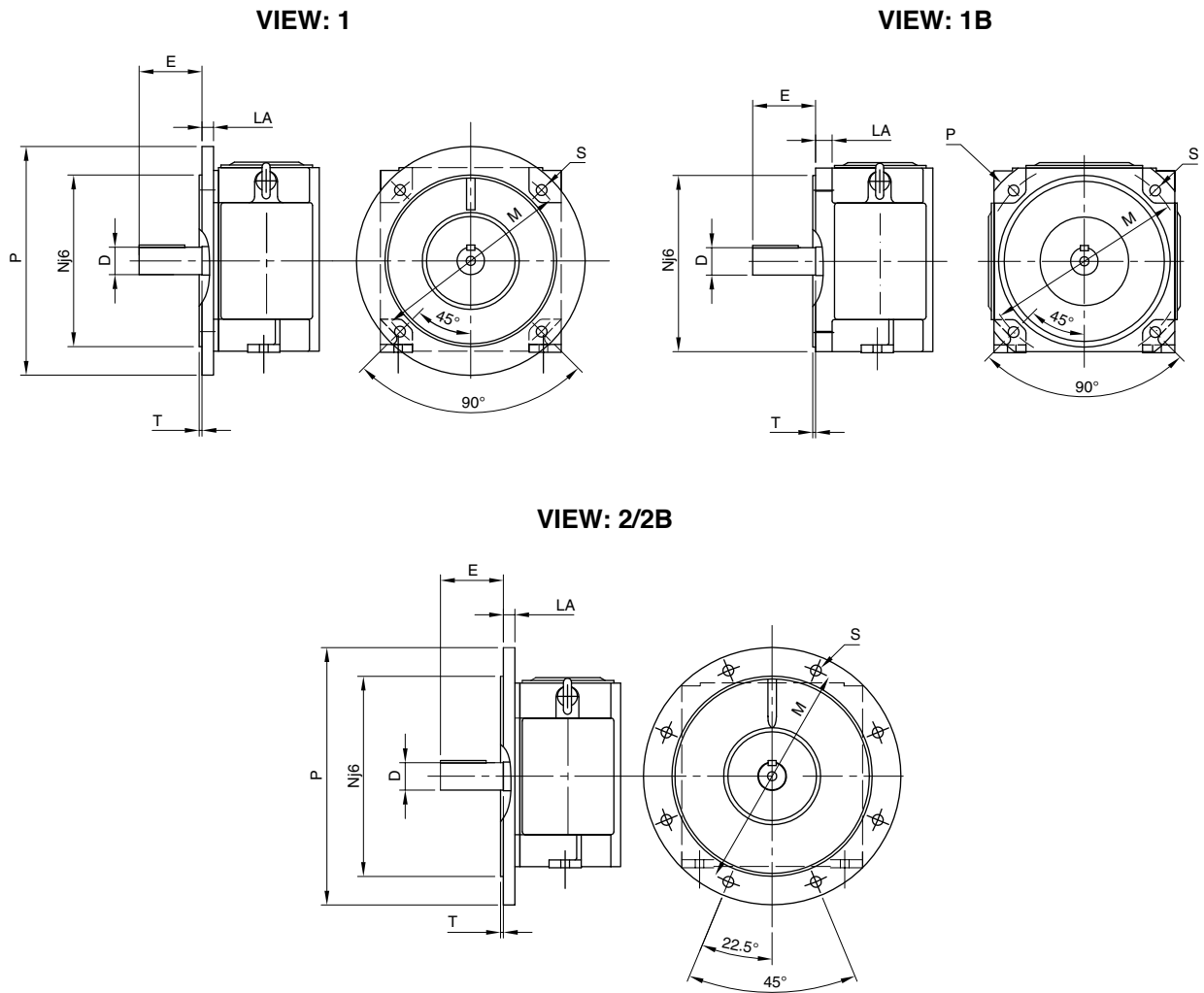


Dimensions in mm

| Type | A | AA | AB | AC | AD | AE | AK | AM/N | B | BA | BC | BF | BI | BJ | BL | BM | BN | C | CA | CB | CC |
|-----------|-----|----|-----|-----|-----|-----|-----|------|-----|-----|------|-----|-----|-----|----|------|-----|-----|-----|-----|----|
| LAK 4200A | 318 | 70 | 404 | 420 | 350 | 280 | 500 | 329 | 542 | 113 | 616 | 278 | 128 | 283 | 38 | 730 | 240 | 133 | 178 | 116 | 59 |
| LAK 4200B | | | | | | | | | 610 | | 684 | | | | | 798 | | | | | |
| LAK 4200C | | | | | | | | | 678 | | 752 | | | | | 866 | | | | | |
| LAK 4225A | 356 | 78 | 453 | 469 | 408 | 330 | 580 | 379 | 630 | 118 | 737 | 328 | 128 | 355 | 52 | 910 | 280 | 149 | 201 | 138 | 72 |
| LAK 4225B | | | | | | | | | 696 | | 803 | | | | | 976 | | | | | |
| LAK 4225C | | | | | | | | | 762 | | 869 | | | | | 1042 | | | | | |
| LAK 4250A | 406 | 84 | 502 | 518 | 432 | 330 | 629 | 379 | 679 | 138 | 793 | 328 | 128 | 355 | 39 | 959 | 280 | 168 | 229 | 160 | 75 |
| LAK 4250B | | | | | | | | | 751 | | 865 | | | | | 1031 | | | | | |
| LAK 4250C | | | | | | | | | 823 | | 937 | | | | | 1103 | | | | | |
| LAK 4280A | 457 | 89 | 560 | 576 | 510 | 480 | 687 | 529 | 735 | 155 | 863 | 423 | 120 | 500 | 99 | 1072 | 380 | 190 | 242 | 166 | 81 |
| LAK 4280B | | | | | | | | | 815 | | 943 | | | | | 1152 | | | | | |
| LAK 4280C | | | | | | | | | 895 | | 1023 | | | | | 1232 | | | | | |
| LAK 4280D | | | | | | | | | 975 | | 1103 | | | | | 1312 | | | | | |

| Type | D | DE | DN | E | F | GA | H | HA | HC | HD | HE | HF | HG | HI | IA | IB | IC | K | KL | L | Weight (kg) |
|-----------|-----|-----|----|-----|----|------|-----|----|-----|------|------|-----|-----|-----|-----|-----|----|----|-----|------|-------------|
| LAK 4200A | 75 | M20 | 32 | 140 | 20 | 79.5 | 200 | 20 | 610 | 910 | 77 | 150 | 515 | 158 | 140 | 100 | 18 | 19 | 100 | 1032 | 660 |
| LAK 4200B | | | | | | | | | | | | | | | | | | | | 1100 | 720 |
| LAK 4200C | | | | | | | | | | | | | | | | | | | | 1168 | 800 |
| LAK 4225A | 85 | M20 | 40 | 170 | 22 | 90 | 225 | 20 | 625 | 1055 | 75 | 300 | 600 | 178 | 150 | 110 | 18 | 19 | 125 | 1202 | 940 |
| LAK 4225B | | | | | | | | | | | | | | | | | | | | 1268 | 1010 |
| LAK 4225C | | | | | | | | | | | | | | | | | | | | 1334 | 1100 |
| LAK 4250A | 95 | M20 | 40 | 170 | 25 | 100 | 250 | 23 | 675 | 1105 | 106 | 300 | 625 | 178 | 150 | 110 | 18 | 24 | 125 | 1309 | 1180 |
| LAK 4250B | | | | | | | | | | | | | | | | | | | | 1381 | 1280 |
| LAK 4250C | | | | | | | | | | | | | | | | | | | | 1453 | 1450 |
| LAK 4280A | 100 | M20 | 40 | 210 | 28 | 106 | 280 | 26 | 933 | 1508 | 93.5 | 300 | 841 | 250 | 150 | 110 | 18 | 24 | 160 | 1468 | 1540 |
| LAK 4280B | | | | | | | | | | | | | | | | | | | | 1548 | 1750 |
| LAK 4280C | | | | | | | | | | | | | | | | | | | | 1628 | 1950 |
| LAK 4280D | | | | | | | | | | | | | | | | | | | | 1708 | 2140 |

Dimensions are not binding.



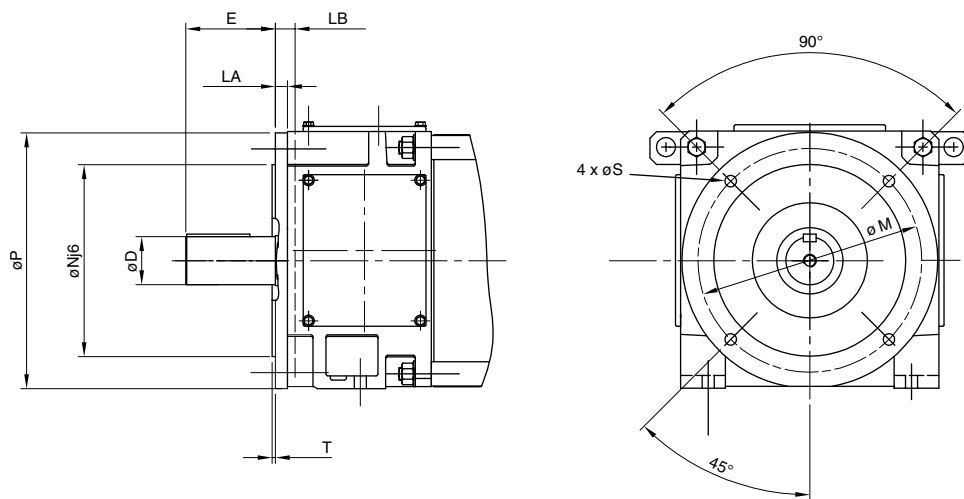
Dimensions in mm

| Type | Shaft diameter D | Shaft length E | Flange size | LA | M | Nj6 | P | S | T | View |
|-----------------|------------------|----------------|-------------|----|-----|-----|-----|----|---|------|
| LAK 2112MA/LA | 38 | 80 | F215 | 14 | 215 | 180 | 250 | 15 | 4 | 1B |
| | | | F265 | 14 | 265 | 230 | 300 | 15 | 4 | 1B |
| LAK 4112A/B | 38 | 80 | F215 | 14 | 215 | 180 | 250 | 15 | 4 | 1B |
| | | | F265 | 14 | 265 | 230 | 300 | 15 | 4 | 1B |
| LAK 4132A/B/C | 38 | 80 | F265 | 17 | 265 | 230 | 300 | 15 | 4 | 1B |
| | | | F300 | 17 | 300 | 250 | 350 | 19 | 5 | 1B |
| LAK 4132D | 42 | 110 | F265 | 17 | 265 | 230 | 300 | 15 | 4 | 1B |
| | | | F300 | 17 | 300 | 250 | 350 | 19 | 5 | 1B |
| LAK 4160A/B/C/D | 48 | 110 | F350 | 20 | 350 | 300 | 400 | 19 | 5 | 1B |
| LAK 4180AA/BA | 55 | 110 | F350 | 17 | 350 | 300 | 400 | 19 | 5 | 1B |
| | | | F400 | 17 | 400 | 350 | 450 | 19 | 5 | 2B |
| LAK 4180CA | 60 | 140 | F350 | 17 | 350 | 300 | 400 | 19 | 5 | 1B |
| | | | F400 | 17 | 400 | 350 | 450 | 19 | 5 | 2B |
| LAK 4180DA/EA | 70 | 140 | F350 | 17 | 350 | 300 | 400 | 19 | 5 | 1B |
| | | | F400 | 17 | 400 | 350 | 450 | 19 | 5 | 2B |
| LAK 4180FA | 70 | 140 | F500 | 20 | 500 | 450 | 550 | 19 | 5 | 2 |

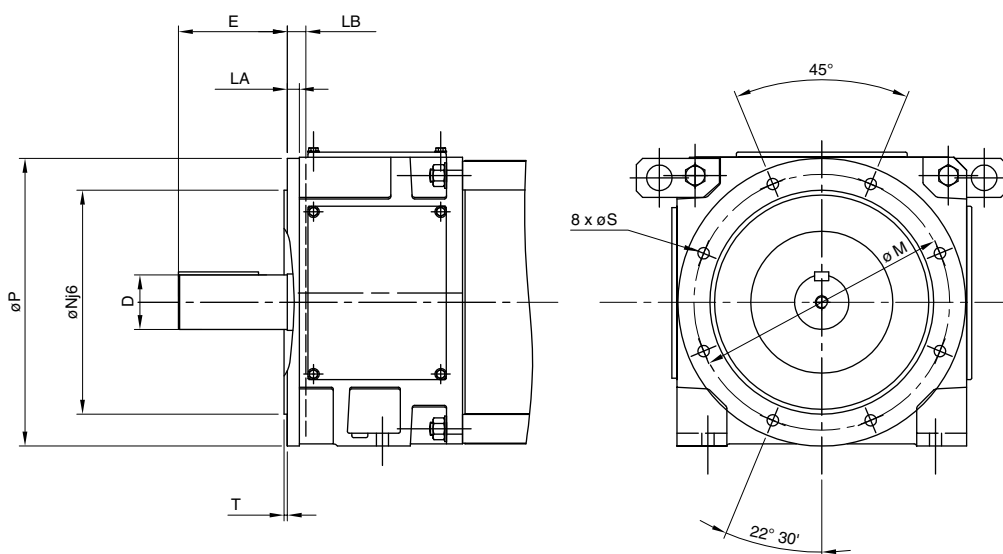
Other dimensions on request.

Dimensions are not binding.

VIEW: 1



VIEW: 2



Dimensions in mm

| Type | Shaft diameter D | Shaft length E | Flange size | LA | LB | M | Nj6 | P | S | T | View |
|----------|---------------------|-------------------|-------------|----|----|-----|-----|-----|----|---|------|
| LAK 4200 | 75 | 140 | F350 | 19 | 30 | 350 | 300 | 400 | 18 | 5 | 1 |
| LAK 4225 | 85 | 170 | F400 | 19 | 32 | 400 | 350 | 450 | 18 | 5 | 2 |
| LAK 4250 | 95 | 170 | F400 | 22 | 36 | 400 | 350 | 450 | 18 | 5 | 2 |
| LAK 4280 | 100 | 210 | F500 | 23 | 42 | 500 | 450 | 550 | 18 | 5 | 2 |

Other dimensions on request.

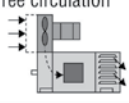
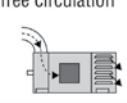
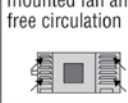
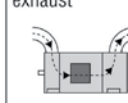
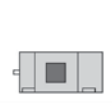
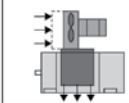
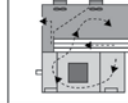
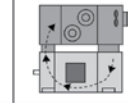
Dimensions are not binding.

Ordering

To Fax +33 1 34 70 21 79
 From Ref. Number
 Cust. name Applic. type:

Unit(s) DC motors/Generators

Cooling:

| | | | | | | | |
|---|---|--|--|--|--|--|---|
| <input type="checkbox"/> IC 06 Motor mounted fan and free circulation  | <input type="checkbox"/> IC 17 Ducted air supply and free circulation  | <input type="checkbox"/> IC 01 Self ventilated motor with shaft mounted fan and free circulation  | <input type="checkbox"/> IC 37 Ducted air supply and exhaust  | <input type="checkbox"/> IC 410 Totally enclosed  | <input type="checkbox"/> IC 416 Totally enclosed fan cooled  | <input type="checkbox"/> IC 666 Air/Air cooler  | <input type="checkbox"/> IC 86 W Air/Water cooler  |
| Enclosure IP 23 | | | | Enclosure IP 54/55 | | | |

| Operating range | Min. operating speed | Base speed | Max. field-weakening speed | Mounting arrangement | As viewed from D-end fill in below | | | | | | |
|------------------|----------------------|------------|----------------------------|----------------------|------------------------------------|------|-------|-------|-------|-------|--|
| | | | | | right | left | above | below | D-end | N-end | |
| Speed | | | | | | | | | | | |
| Power | | | | | | | | | | | |
| Torque | | | | | | | | | | | |
| Armature voltage | | | | | | | | | | | |
| Armature current | | | | | | | | | | | |
| Field voltage | | | | | | | | | | | |

Catalogue number:
 Position number:

Remarks

| STANDARD MODEL | SPECIAL DESIGN |
|--|--|
| If data not given, following values will be assumed: - Altitude, max 1000 m above sea level - Located indoors - Ambient temperature • 40 •C - Ambient air dust-free, chemically neutral - Air humidity 5 to 20 g/m ³ - IEC Standard - Insulation class H, utilization F - Duty type S1 - Overload per Catalog LAK 4000 - Supplied from fully controlled 3-phase bridge - Enclosure IP 23 - Frame type IM 1001 - Standard colour and finish - Anti-corrosion coating - 1 shaft extension, standard - Deep-groove ball bearings - Normal seal - Balancing class "N" - Rotation: both directions - Separate excitation | Please specify variations from standard <input type="checkbox"/> Outdoors <input type="checkbox"/> not protected <input type="checkbox"/> with cover <input type="checkbox"/> NEMA Standard <input type="checkbox"/> CSA Standard <input type="checkbox"/> Utilization H, B <input type="checkbox"/> Duty type S..... / % ED <input type="checkbox"/> IP 54 <input type="checkbox"/> IP 55 <input type="checkbox"/> IM 1011 (V5) <input type="checkbox"/> IM 1031 (V6) <input type="checkbox"/> IM 1051 (B6) <input type="checkbox"/> IM 1061 (B7) <input type="checkbox"/> IM 2001 (B35) <input type="checkbox"/> IM 2011 (V15) <input type="checkbox"/> IM 2031 (V36) Flange dimension F..... (dim. M) <input type="checkbox"/> Special colour per RAL <input type="checkbox"/> Anti-corrosive protection paint <input type="checkbox"/> Special shaft D..... L..... <input type="checkbox"/> Second shaft extension dimensions D..... L..... <input type="checkbox"/> Rollerbearing on drive end <input type="checkbox"/> Shaft seal on drive end <input type="checkbox"/> Balancing class "R" <input type="checkbox"/> Balancing class "S" <input type="checkbox"/> Clockwise <input type="checkbox"/> Anticlockwise (seen from D.E.) <input type="checkbox"/> Excitation series wound <input type="checkbox"/> Stabilisation winding <input type="checkbox"/> Tropicalisation |

| ACCESSORIES | Delivery week |
|--|--|
| <input type="checkbox"/> Mounted fan 380 Vac / 50 Hz <input type="checkbox"/> Filter for fan <input type="checkbox"/> Air pressure switch <input type="checkbox"/> Air / air heat exch. blower 380 V..... / 50 Hz or V..... / Hz <input type="checkbox"/> Air / water heat exchanger <input type="checkbox"/> Without tachometer <input type="checkbox"/> With tachometer, type <input type="checkbox"/> REO 444 N1 <input type="checkbox"/> REO 444 L1 <input type="checkbox"/> REO 444 R1 <input type="checkbox"/> REO 444 R2 <input type="checkbox"/> TDP 0.2 T4 <input type="checkbox"/> + FSL <input type="checkbox"/> REO 588 <input type="checkbox"/> GTR 9.16 (Hollow shaft) <input type="checkbox"/> <input type="checkbox"/> With coupling type <input type="checkbox"/> BOWEX <input type="checkbox"/> ROTEX <input type="checkbox"/> THOMAS <input type="checkbox"/> Mtg. of pulse generator <input type="checkbox"/> Litton <input type="checkbox"/> Leine Linde <input type="checkbox"/> Hubner with pulse number per rotg.: <input type="checkbox"/> 1024 <input type="checkbox"/> 2048 <input type="checkbox"/> <input type="checkbox"/> Mtg. of brake type MAYR size: <input type="checkbox"/> 6 (26Nm) <input type="checkbox"/> 7 (50Nm) <input type="checkbox"/> 8 (100Nm) <input type="checkbox"/> 9 (200Nm) <input type="checkbox"/> 10 (400Nm) <input type="checkbox"/> 11 (800Nm) or type: <input type="checkbox"/>Nm Brake DC voltage <input type="checkbox"/> 24 V <input type="checkbox"/> 96 V <input type="checkbox"/> 170 V <input type="checkbox"/> 190 V <input type="checkbox"/>V <input type="checkbox"/> Brake terminal box <input type="checkbox"/> Rectifier..... Vac <input type="checkbox"/> Brake enclosure IP 55 <input type="checkbox"/> Hand release <input type="checkbox"/> Heating element <input type="checkbox"/> 110 V <input type="checkbox"/> 220 V <input type="checkbox"/>V <input type="checkbox"/> Thermistor <input type="checkbox"/> Bimetallic sensor <input type="checkbox"/> PT 100 (Resistor-thermometer) <input type="checkbox"/> Transparent inspection cover <input type="checkbox"/> Earth brush <input type="checkbox"/> Loctite screw blocking <input type="checkbox"/> SPM | <input type="checkbox"/> EX WORKS <input type="checkbox"/> DDU <input type="checkbox"/> FOB <input type="checkbox"/> C I F <input type="checkbox"/> LORRY <input type="checkbox"/> AIR <input type="checkbox"/> SEA Delivery address: Marking: Motor unit price: Accessories prices: Total: - multiplier/discount Net unit price: When <input type="checkbox"/> → with extra price When <input type="checkbox"/> → without extra price |

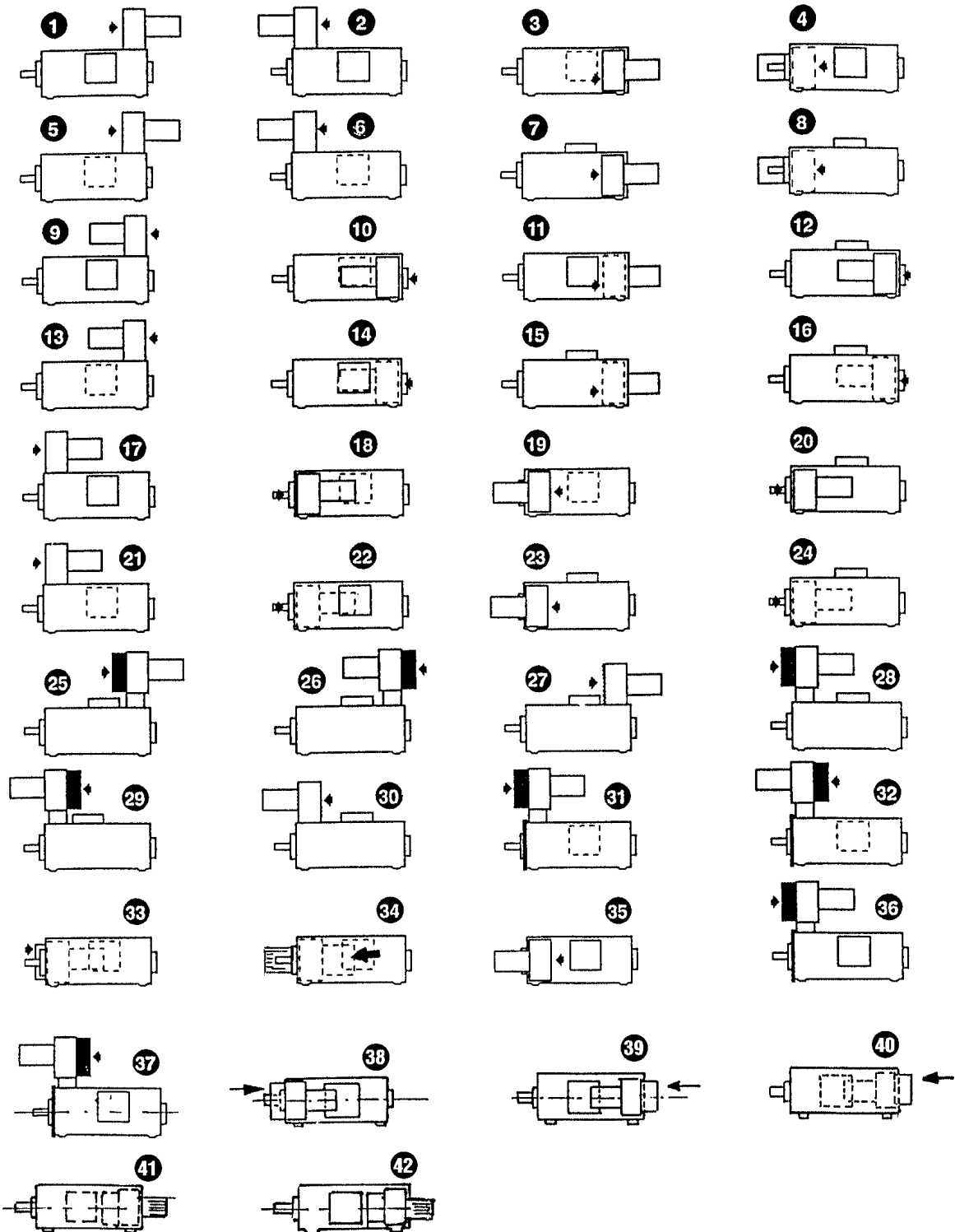
Ordering

Fan blower

The fan blower can be mounted on top or on either side, at the drive end or at the non-drive end. The location does not affect the output of the motor (except when specified in the tables). The fan can be delivered with a

slotted cover, a filter or a flange for an air-duct. On request a pressure switch can be installed on the fan blower and the terminal box can be arranged in 42 different mounting combinations.

Pos 25-42:
Additional price for blower and terminal box mounted on same side for LAK 4112-4180.



Founded over 100 years ago, T-T Electric is a world-class supplier of top-quality industrial electric motors and drives. Pioneers in the industry, we are an experienced and established manufacturer of a comprehensive and cost-effective range of highly reliable drive products. They are used around the world in the toughest of application environments and in all industrial segments.

Driven by customer demand, T-T Electric is continually researching product excellence and manufacturing

process perfection. The flexible product design ensures easy adaptations to customer requirements. This, combined with unequalled short delivery times, make T-T Electric a reference within industry. Our extensive support services include diagnostics and maintenance on site as well as full overhaul in our own repair facilities.

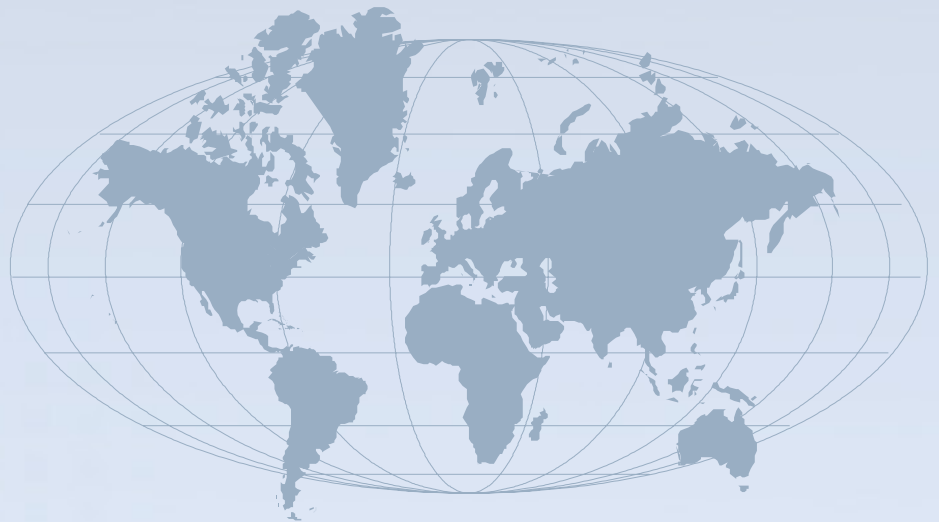
T-T Electric is committed to a working partnership with our customers. For mutual benefit, we focus on complete and innovative solutions together.



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