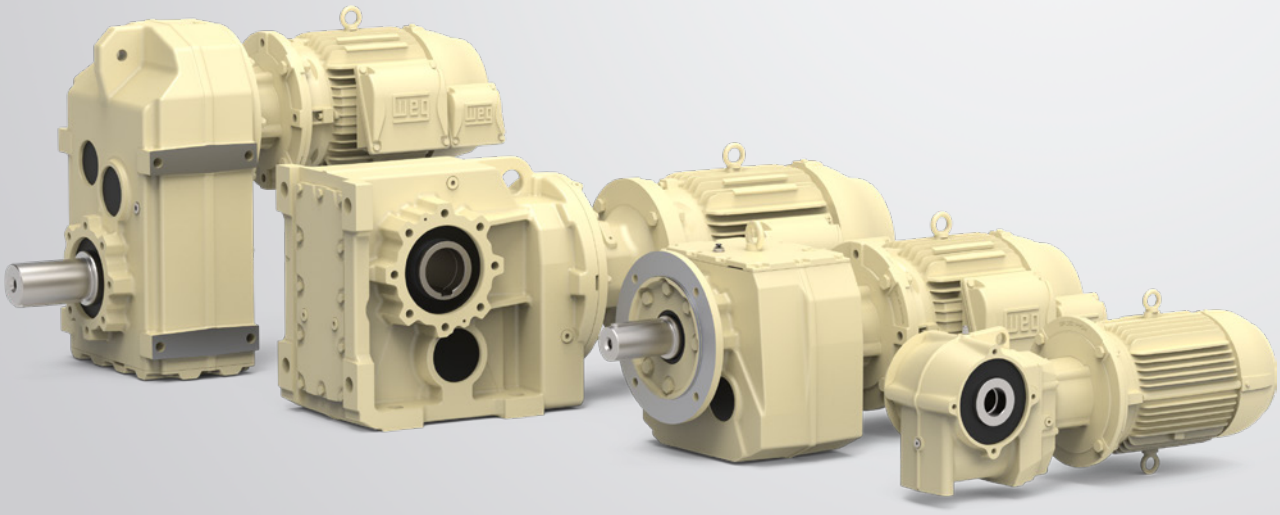
WCG20

Ex h

Gearmotors for Hazardous Areas



CESTARI
REDUTORES

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Ex h GEARBOXES the choice for those who prioritize safety.

Gearboxes and gearmotors now certified for hazardous locations.

Leading a new era in industrial safety, the WEG-CESTARI WCG20 Ex h and WCG50 Ex h gearboxes are ready to operate in explosive atmospheres, combining their well-known robustness with the protection the market demands. More than a new solution, this is the consolidation of our commitment to innovation and to safeguarding the most critical industrial processes.

With proven performance and now certified safety, WEG-CESTARI gearboxes raise the standard for solutions in hazardous locations.

Reduce more than speed:
Reduce risks, reduce concerns.

Third-party certification	Continuous protection for operators and assets	Ideal for controlled-risk environments

Compliant with:

ISO 80079-36
ISO 80079-37

ATEX

IECEx

/wegcestari.com



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REDUTORES

1 LINE WCG20 EX H: GEARBOXES SUITABLE FOR EXPLOSIVE ATMOSPHERES

The WCG20 Ex h series has been developed for applications in explosive atmospheres, combining operational safety, reliability, and mechanical robustness in a complete drive solution.

Based on the renowned WEG-CESTARI gear unit platform, the WCG20 Ex h series incorporates design requirements and specially selected components to meet the demands of applications in classified zones, while maintaining performance, durability, and ease of integration with motors suitable for explosive atmospheres.

Thanks to its applied engineering and focus on operational continuity, the WCG20 Ex h line offers high reliability, a long service life, reduced maintenance requirements, and enhanced safety for industrial operations in critical environments. Discover the WCG20 Ex h line and the benefits it can bring to your application.

Classified Area

According to the definitions in standards ABNT NBR IEC 60079-10-1 and ABNT NBR IEC 60079-10-2, an explosive atmosphere is "a mixture with air, under atmospheric conditions, of flammable substances in the form of gas, vapor, dust, fibers, or suspended particles, in which, upon ignition, a self-sustaining propagation occurs".

A classified area is "an area in which an explosive gas or dust atmosphere exists or is expected to exist in quantities such that special precautions are required for the construction, installation, and use of equipment".

For this reason, gearboxes with Ex h protection are manufactured in such a way as to ensure the required degree of protection and temperature control of the equipment.

Hazardous areas are classified by zones, groups, and temperature classes:

Classification by Zones: based on the frequency and duration of the presence of explosive atmospheres and the type of flammable material (gases/vapors or dusts).

- **Zone 0 (gases/vapors) or 20 (dusts).**

An explosive atmosphere is present continuously.

- **Zone 1 (gases/vapors) or 21 (dusts).**

An explosive atmosphere is present intermittently.

- **Zone 2 (gases/vapors) or 22 (dusts).**

An explosive atmosphere is present under abnormal conditions.

- **Zone 2/22:** the explosive atmosphere does not occur under normal operating conditions, and if it does occur, it will be for a brief period of time.
- **Zone 1/21:** an explosive atmosphere occurs under normal operating conditions.
- **Zone 0/20:** the explosive atmosphere is present continuously (not applicable to pressure reducers).

Classification by Groups: subdivision based on the type of flammable material present.

Group I: gases present in underground mines (e.g., methane).

Group II: gases present in other classified areas.

Subdivisions of Group II:

- **Group IIA:** example: propane.
- **Group IIB:** example: ethylene.
- **Group IIC:** example: hydrogen.

Group III: dusts.

Subdivisions of Group III:

- **Group IIIA:** solid particles in suspension larger than 500 µm - combustible dust.
- **Group IIIB:** non-conductive dust with particles 500 µm or smaller and an electrical resistivity greater than 10^3 Ω·m - coal dust.
- **Group IIIC:** conductive dust, with particle sizes of 500 µm or less, and an electrical resistivity of 10^3 Ω·m or less - metallic dust.

Classification by Temperature Classes: based on temperature limits, in relation to the ignition temperature of the flammable material present. The ABNT NBR IEC 60079-0 standard defines the external surface temperature limits for electrical equipment intended for Groups I, II, and III.

Group I - Underground Coal Mines (Methane and Coal Dust)

Conditions	Maximum Surface Temperature (°C)
Where coal dust does not tend to form a layer	450
Where coal dust may form a layer	150

Group II - Gases and Vapors

Temperature Class	Maximum Temperature of the Reducer Surface (°C)	Ignition Temperature of Flammable Material (°C)
T1	450	> 450
T2	300	> 300
T3	200	> 200
T4	135	> 135
T5	100	> 100
T6	85	> 85

Group III - Conductive Powders

Conditions	Maximum Surface Temperature (°C) (*)
With powder coatings	The maximum surface temperature of the equipment must be determined for a specified depth of the powder coating
Without powder coatings	The maximum surface temperature of the equipment must not exceed the assigned maximum surface temperature. For Ex h gearboxes, the designated standard temperature is T125 °C

(*) On any surface of the housing.

Equipment Protection Level (EPL)

As a complement to the traditional method of classifying risk zones in the ABNT NBR IEC 60079-10-1 and ABNT NBR IEC 60079-10-2 standards, which only considers the possibility of an explosion occurring, the new version of the ABNT NBR IEC 60079-0 standard has introduced a risk assessment approach known as EPL. This concept originates from the protection category system used in the European Directive on Explosive Atmospheres (ATEX) and allows for an approach to the selection and specification of equipment for explosive atmospheres based on a risk assessment specific to each facility, in which the consequences of a potential explosion at that particular facility are evaluated. The system for designating the equipment's protection level follows this rule:

First Digit:

M - Mine susceptible to firedamp.

G - Gas.

D - Dust.

Second Digit:

a - Equipment with a "very high" protection level.

b - Equipment with a "high" protection level.

c - Equipment with a "moderate" protection level.

The relationship between groups, zones, and PPE is shown in the following table:

Group	Zone	EPL
Group I	-	Ma
		Mb
Group II	0	Ga
	1	Gb
	2	Gc
Group III	20	Da
	21	Db
	22	Dc

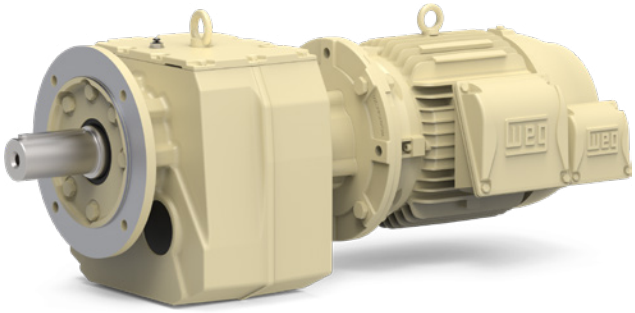
Ex h Protection

Ex h is a type of protection in which non-electrical equipment is designed so that it does not cause the ignition of an explosive atmosphere during normal operation or in the event of a foreseeable failure.

Protection Method k: a type of protection in which potential ignition sources are neutralized or separated from the explosive atmosphere, either by total immersion in a protective liquid or by partial immersion and continuous coating of their active surfaces with a protective liquid, so that an explosive atmosphere that may be present above the liquid or outside the equipment's enclosure cannot ignite.

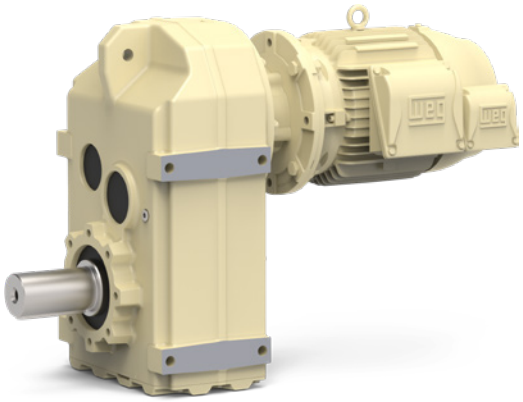
Protection Method c: protection against ignition, in which design measures are applied to protect against the possibility of ignition from hot surfaces, sparks, and adiabatic compression generated by moving parts.

C Ex h Concentric Helical Geared Motor Reducers



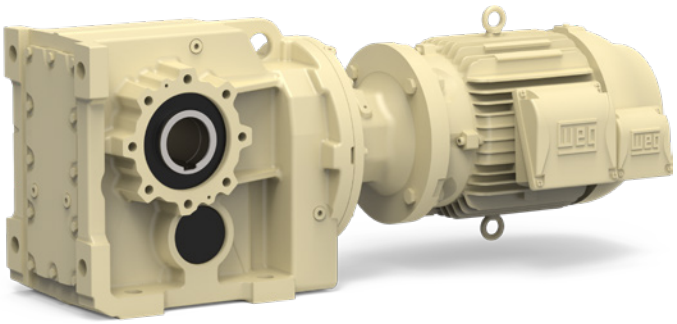
- Rated torque: 50 to 18,000 Nm.
- Power range: 0.12 to 55 kW.
- Gear ratio: from 2.44 to 368.94.

F Ex h Parallel Helical Geared Motors



- Rated torque: 130 to 18,000 Nm.
- Power range: 0.12 to 55 kW.
- Gear ratio: from 3.85 to 487.67.

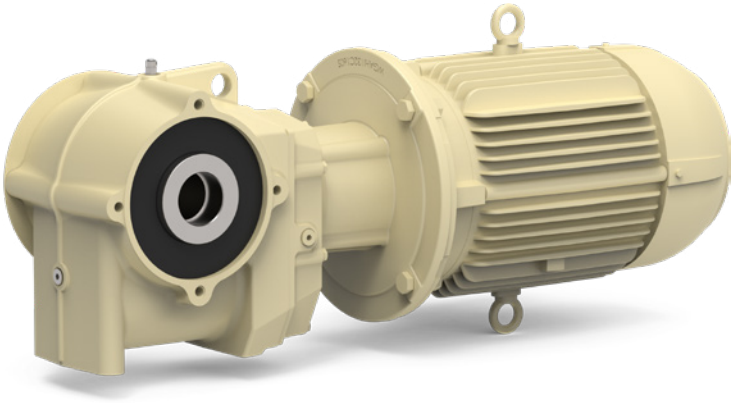
K Ex h Bevel Helical Geared Motors



- Nominal torque: 110 to 18,000 Nm.
- Power range: 0.12 to 55 kW.
- Gear ratio: from 3.82 to 277.79.

S Ex h Helical-Worm Geared Motor Reducers

- Rated torque: 125 to 1,500 Nm.
- Power range: 0.12 to 9.2 kW.
- Gear ratio: from 5.17 to 460.



2 SELECTION OF THE GEARBOX

The total required input power consists of two parts:

- **Static Power:** the power required for operation at a constant speed, taking into account friction and lifting force.
- **Dynamic Power:** the power required for the acceleration and deceleration of the masses involved in the system.

When selecting the gearmotor:

- The motor's rated power (PN) must be greater than the static input power.
- The total input power may be greater than the motor's rated power, but it must be less than the motor's maximum allowable power.

Symbol	Description	Unit
Pc	Power consumed	kW
PN	Motor Rated Power	kW
PT	Nominal thermal power	kW
PTG	Permissible natural thermal power of the reducer	kW
Mn	Torque consumed	Nm
M2	Effective torque at the gearbox output shaft	Nm
M2 adm	Maximum allowable torque at the gearbox output shaft	Nm
Fa	Permissible axial force	N
Fr	Allowable radial force	N
i	Nominal reduction ratio	
iex	Exact reduction ratio of the reducer	
n1	Input speed of the gearbox	rpm
n2	Output shaft speed of the reducer	rpm
Fsa	Reference service factor by application	
fs	Service factor (selection tables)	
FB	Service factors calculated from the application	
fh	Altitude factor	
h	Elevation above sea level	m

3 SERVICE FACTORS

The data in this catalog refer to the sizing of gear reducers based on a service factor of 1.00, that is:

- Uniform load.
- Operation for up to 8 hours per day.
- Up to 5 starts per hour.
- Ambient temperature of 20 °C.
- Altitude of up to 999 m above sea level.

Under these conditions, gear units can be selected directly from the following tables based on power, torque, and output speed. No single gear unit is suitable for all possible applications. The duty factor exists precisely to account for the specific characteristics of each situation. Therefore, actual operating conditions must be carefully analyzed and classified according to the corresponding load type.

- For short-duration or occasional-use applications, gearboxes with a lower service factor may be used.
- However, for severe applications such as those involving vibrations, frequent starts, or continuous operation (24 hours a day), it is recommended to select a gearbox with a higher service factor.

The output speeds listed in the selection tables are rounded values. The actual speed depends on the gear unit's gear ratio and the motor's speed. Variations of ±3 % are acceptable.

The following table provides guideline values for determining the service factor (Fsa). For a specific calculation for your application, refer to Chapter 4 THERMAL POWER LIMIT on page 13.

Application	Load Class
Agitators	
Pure liquids	U
Liquids with consistent density	M
Liquids of variable density	M
Feeders	
Screw feeders	M
Conveyors (belt and chain)	M
Elevators	
Elevating chutes	F
Extraction machines	F
Frequently requested freight elevators for assembly	M
Freight elevators in high demand	F
Assemble inclined cargo lifts	F
Winding Machines	
Metal	M
Paper	M
Textile	U

Application	Load Class
Pumps	
Centrifugal pumps for low-viscosity liquids	U
Centrifugal pumps - high-viscosity liquids	M
Double-stage, multi-cylinder	M
Free-discharge reciprocating pumps	M
Gear-driven rotary	U
Submerged piston	F
Pressure	F
Pumps	
Calenders (*)	(*)
Laboratory equipment	M
Extruders (*)	(*)
Rolling Mills	F
Sheet-forming machines	M
Pipe and Screen Machines	M
2-in-line cylindrical mills (*)	(*)
3-in-line cylindrical mills (*)	(*)
Refiners (*)	(*)
Crushers and mixers (*)	(*)
Crusher Crushing Mill Rock Crusher	
Stones and minerals	F
Ceramics	
Clay mixers	M
Mixers	M
Clay mills (*)	(*)
Brick and tile presses	F
Cement	
Crushers with hoppers	F
Rotary mills (*)	(*)
Ball and roller mills (*)	(*)
Rotary Classifiers	**M**
Compressors	
Centrifugal	U
Rotary piston	M
Piston (single-cylinder)	F
Piston (2 cylinders) with an irregularity coefficient <1:100	F
Distilleries	
Continuous-service cookers	U
Fermentation plugs - continuous service	U
Mixers	U
Dredgers	
Winches, conveyors and pumps	M
Rotary heads and screens	F
Travel tracks	F

Application	Load Class
Rotary Sorters	**M**
Elevators	
Uniform - load Buckets	U
Heavy - load Buckets	F
Freight elevators	M
Bucket elevators for standard-sized mugs	U
Lifts for heavily loaded cups	M
Passenger elevators (**)	(**)
Bottling and Canning Machines	**U**
Rotary Ovens	**U**
Generators	
Alternators	U
Frequency converters	F
Generators	
Moderate lifting	M
Heavy lifting	F
Rotation	M
Translation	F
Sugar Mills	
Sugarcane grinder (*)	(*)
Sugarcane knives (*)	(*)
Crystallizers	F
Food Processing Industries	
Rice cookers	M
Dough mixers, meat grinders, chippers	M
Light centrifuges	M
Heavy-duty centrifuges	F
Metalworking Industries	
Rotary sheet metal cutters	M
Blade-type sheet metal cutters	F
Turning machines	F
Wire draw dies	M
Uncoilers	F
Tape winders or sheet metal spoolers	F
Rolling mills	F
Tube de-soldering machines	F
Oil Industries	
Paraffin filter presses	M
Pipeline pumps	M
Refining machinery	M
Rotary drilling rigs	F
Textile Industries	
Calenders, carding machines, spinning machines, twisting machines, roving machines and dyeing machines	M

Notes: **(*)** Recommended minimum service factor: 2.00.
(**) For passenger elevators, a specific reducer must be analyzed.
(***) For Redler applications, we recommend using KTR adapters, which are available at the gearbox entry inlet.

Main Drive - Heavy Loads

Main Drive - Heavy Loads	Load Class		
Laundry			
Rotary dryers	M		
Washing machines	M		
Movable grate Drive	F		
Machine Tools			
Main drive - heavy loads	F		
Main drive - uniform loads	M		
Auxiliary drive	U		
Threaders	F		
Mixers			
Concrete mixers	M		
Rubber	F		
Paper pulp	M		
Fluids containing solids	M		
Clean fluids	U		
Rotary Mills			
Ball - and - roller mills	F		
Hammer Mills	F		
Paper			
Mixers, bleachers, defibers, calenders, and press machines.	M		
Supercalenders (*)	(*)		
Hydraulic and mechanical debarkers	M		
Peeling drums	F		
Felt tensioners	M		
Dryers	F		
Screens			
Horizontal screens	M		
Air filtration screens	U		
Rotary screens for stones and sand	M		
Overhead Cranes			
Trolley and bridge drive	F		
Hoist drive	U		
Sanitation			
Aerators	F		
Feeders, pumps, decanters	U		
Filters, mixers, and screens	M		
Clarifiers	U		
Rotary Dryers and Coolers			
Food products, bagasse	M		
Conveyors			
Bucket, belt, chain, conveyor belt, thread: uniform loads	U		
Heavy and intermittent loads	M		
Drives			
Light-duty transmissions	U		
Drives for machine tool spindles	M		
Laundries			
Centrifugal	U		
Mines	F		
Maximum Daily Operating Time	**Load Class**		
	U	**M**	**F**
Up to 3 hours	1.00	1.00	1.50
Up to 10 hours	1.00	1.25	1.75
24 hours	1.25	1.50	2.00

Notes: (*) Recommended minimum service factor: 2.00.
(**) For cooling towers and passenger elevators, a specific gear reducer must be analyzed.

4 THERMAL POWER LIMIT

When designing and selecting a gearbox, the thermal power limit (Pt) must always be taken into account. This represents the maximum input power that the gearbox can transmit during continuous operation (S1) at an ambient temperature of +20 °C.

Influencing Factors to Consider:

- Ambient temperatures higher or lower than those indicated in the table.
- Vertical installation of the motor in mounting positions M2 or M4, due to increased oil agitation.
- Low gear ratios.
- Restricted mounting conditions.

For these special conditions, we recommend consulting WEG-CESTARI. In these cases, the units can be adapted to the customer's project using solutions such as:

- Expansion chambers.
- Optimized lubricant quantities.
- Use of synthetic oils.

The thermal power limits for other ambient temperatures can be found in the table below.

Thermal Power	
Nominal thermal power PT: this is the power (kW) that the gearbox can transmit without exceeding the recommended temperature for the lubricant	
PT = PTG x fh	
PT = Nominal thermal power (kW)	
PTG = Natural thermal power of the gearbox (kW)	Table 4.1 on page 17 and Table 4.2 on page 17
fh = Altitude factor	Table 4.1 on page 17 and Table 4.2 on page 17

Important
PT > Pn
PT < 1/3 x Pn (consult WEG-CESTARI)
PT = Rated thermal power (kW)
PN = Nominal motor power (kW)

Table 4.1: Natural Thermal Power - PTG

Natural Thermal Power - PTG							
Gearbox Size	-20 °C	-10 °C	0 °C	+10 °C	+20 °C	+30 °C	+40 °C
C002	2.5	2.1	1.8	1.5	1.2	1	0.7
C012	5	4.3	3.6	3	2.5	2	1.5
C032	10	8.7	7.4	6.2	5	4	3
C033	6.1	5.2	4.5	3.7	3	2.4	1.8
C052	19	16	14	12	9.5	7.5	5.7
C053	11	9.8	8.4	7	5.7	4.5	3.4
C062	26	22	19	16	13	10	7.8
C063	16	14	11	9.6	7.8	6.2	4.7
C072	34	29	25	21	17	13	10
C073	20	17	15	12	10	8.1	6.1
C082	58	50	42	35	29	23	17

Natural Thermal Power - PTG							
Gearbox Size	-20 °C	-10 °C	0 °C	+10 °C	+20 °C	+30 °C	+40 °C
C083	35	30	26	21	17	14	11
C092	82	71	60	50	41	32	25
C093	49	43	36	30	25	20	15
C102	103	89	75	63	51	41	31
C103	62	54	46	38	31	25	19
C132	142	123	105	87	71	57	43
C133	86	74	63	53	43	34	26
C142	191	165	140	117	96	76	57
C143	115	99	85	71	58	46	35
C162	271	234	199	167	136	108	82
C163	164	141	120	101	82	65	49
F022	8.4	7.2	6.1	5.1	4.2	3.3	2.5
F032	11	9.7	8.3	6.9	5.7	4.5	3.4
F042	18	15	13	11	8.9	7.1	5.4
F043	11	9.3	7.9	6.6	5.4	4.3	3.2
F052	24	21	18	15	12	9.7	7.3
F053	15	13	11	9	7.4	5.8	4.4
F062	31	27	23	19	15	12	9.3
F063	19	16	14	11	9.3	7.4	5.6
F072	51	44	37	31	25	20	15
F073	31	26	23	19	15	12	9.2
F082	73	63	54	45	37	29	22
F083	44	38	32	27	22	18	13
F092	107	92	78	65	53	42	32
F093	64	56	47	40	32	26	19
F102	157	136	115	96	79	62	47
F103	95	82	70	58	48	38	29
F122	220	190	162	135	110	87	66
F123	133	115	98	82	67	53	40
F152	337	291	247	207	169	134	101
F153	203	176	149	125	102	81	61
K022	10	8.8	7.4	6.2	5.1	4	3.1
K033	10	8.6	7.3	6.1	5	4	3
K043	16	14	12	9.8	8	6.3	4.8
K053	21	18	15	13	10	8.3	6.3
K063	23	20	17	14	12	9.3	7
K073	37	32	27	23	19	15	11
K083	44	38	32	27	22	17	13
K093	62	54	46	38	31	25	19
K103	95	82	69	58	47	38	29
K123	131	113	96	80	66	52	39
K153	185	160	136	114	93	74	56

Table 4.2: Altitude Factor - fh

Altitude Factor - fh					
Altitude - h (m)	up to 999	1000-2000	2001-3000	3001-4000	4001-5000
fh	1.00	0.95	0.90	0.85	0.80

Note: for WCG20 S Ex h series gear reducers, refer to the tables in the section dedicated to this series.

5 GEARBOX SELECTION

Input Data		
Type of Driven Machine	x	
Drive Type (Motor)	x	
Operating Cycle	x	h/day
Motor Power	Pn	kW
Input Speed of the Gearbox	n1	rpm
Output Shaft Speed of the Gearbox	n2	rpm
Number of Load Peaks (Number of Starts per Hour)	x	
Start-up Type	x	
Ambient Temperature	Ta	°C
Operating Altitude	h	mm
Radial Load on the Input Shaft	x	N
Radial Load on the Output Shaft	x	N
Axial Load on the Input Shaft	x	N
Axial Load on the Output Shaft	x	N
Environmental Conditions	x	

5.1 SELECTION EXAMPLE

Determining the Nominal Drive Torque.

Based on the required drive power (Pn, in kW) and the gearbox output speed (n2, in rpm), the nominal torque (Mn, in Nm) is calculated using the equation:

$$Mn = 9550 \times \frac{P_N}{n2} \text{ (N.m)}$$

Selection of the Gearmotor or Gearbox:

Using the drive power (Pn), the output speed (n2), and the service factor (Fsa) obtained from Table 9.1 on page 19, the gearmotor can be selected directly from the selection tables, keeping in mind that: Gearbox service factor = fs ≥ Fsa.

5.1.1 Thermal Power Verification

Verify that the allowable thermal power of the gearbox or gearmotor is suitable for the application using the formula:

PT = PTG · fh

If this condition is not met, a larger gear unit must be selected.

Important Notes:

■ For ambient temperatures below 8 °C, it is recommended to consult WEG-CESTARI.

■ The maximum permissible input speed must be checked in the selection tables for the chosen product line.

5.1.2 Verification of External Loads

When mounting transmission components (such as pulleys, gears, chain sprockets, etc.) on the shaft of the gearmotor or gear unit, it is necessary to verify the permissible radial and axial external loads.

Refer to the section "Radial and Axial Forces of the Selected Gear Unit Series" to ensure that the limits are observed.

6 TABLE OF LUBRICANTS

	Recommended Application Range	DIN (ISO)	Viscosity Grade	Fuchs	Kluber Lubrication	Mobil	Lip Seal Material
Series WCG20 C, F, and K	-10 °C / +40 °C	CLP (mineral oil) (*)	220	Gearmaster CLP 220	Klüberoil GEM 1-220 N	Mobilgear 600 XP 220	NBR
	-10 °C/ +40 °C	CLP-HC (poly-alpha-olefin)	220	Gearmaster SYN 220	Klübersynth EG 4-220	SHC 630	NBR / FKM
	+40 °C / +80 °C	CLP PG (polyol polyglycol)	220	Gearmaster PGP 220	Klübersynth GH 6-220	Glygoyle 220	FKM
	-20 °C / +10 °C	CLP-HC (poly-alpha-olefin)	32	Gearmaster SYN 32	Klüber SummitHyn FG-32	-	NBR
Line WCG20 S	-20 °C / +60 °C	CLP PG (polyol polyglycol)	220	Gearmaster PGP 220	Klübersynth GH 6-220	Glygoyle 220	NBR / FKM
	-20 °C/ +80 °C	CLP PG (polyolefin glycol) (*)	460	Gearmaster PGP 460	Klübersynth GH 6-460	Glygoyle 460	NBR / FKM
	-20 °C / +40 °C	Food grade	460	-	Klübersynth UH16-460	Glygoyle 460	NBR / FKM

	Recommended Application Range	DIN (ISO)	Viscosity Grade	Shell	Retainer Material
Series WCG20 C, F and K	-10 °C / +40 °C	CLP (mineral oil) (*)	220	Omala S2 G 220	NBR
	-10 °C / +40 °C	CLP-HC (polyalphaolefin)	220	Omala S4 GX 220	NBR / FKM
	+40 °C / +80 °C	CLP PG (polyol polyglycol)	220	Omala S4 WE 200	FKM
	-20 °C / +10 °C	CLP-HC (poly-alpha-olefin)	32	-	NBR
Line WCG20 S	-20 °C / +60 °C	CLP PG (polyol polyglycol)	220	Tivela S220	NBR / FKM
	-20 °C / +80 °C	CLP PG (polyol polyglycol) (*)	460	Tivela S460	NBR / FKM
	-20 °C / +40 °C	Food grade	460	-	NBR / FKM

(*) Standard oil supplied in accordance with DIN 51517, Part 3.
Lubricating oil for the food and pharmaceutical industries that meets NSF H1 registration requirements - available upon request. Maximum operating temperature of the oil: 90 °C.

7 PAINTING PLAN

The standard color for gearmotors is Beige RAL 1009 or Blue RAL 5009. For dedicated environmental applications, alternative painting plans are available in addition to the standard polyurethane-based finishing process.

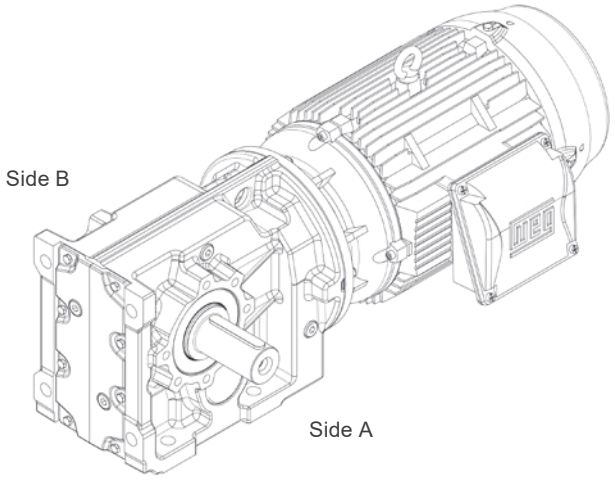
The paint scheme is classified primarily according to the composition of the coating, using two-component varnishes based on epoxy and polyurethane resins, guaranteeing greater resistance and durability even in harsh environments.

Paint Scheme	Recommended Use	ISO 12944
207A / 203A	For normal to slightly severe environments, indoor or outdoor, for industrial use, with low relative humidity, normal temperature variations, and the presence of SO2. Suitable for conveyor belts and general material handling, elevators, the furniture industry, the sugar and alcohol industries, pumps, and the machinery industry. (Not recommended for direct exposure to acid vapors, alkalis, and solvents)	C3
205P	Equipment exposed to abrasive and oxidizing agents (salinity). Suitable for the pulp and paper industry, mining (conveyors), the chemical industry (cooling towers), processing machinery (agribusiness), the petrochemical industry, the sugar and alcohol industries, transmission towers, and series-connected devices.	C4
211P	For industrial environments, indoor or outdoor, with high levels of contamination from corrosive agents such as SO_2 (sulfur dioxide) and Cl^- (chloride), which may have high humidity levels. Operating temperature range: -60 °C to 120 °C. For use in refineries and petrochemical industries.	C5
212P	For industrial and marine environments, whether dry or humid, protected or exposed to the elements, "onshore" or "offshore", with high salinity, with or without sulfur-derived gases. Operating temperature range: -60 °C to 120 °C. Suitable for use in the pulp and paper, mining, chemical, and petrochemical industries.	C5 e CX

8 IMPORTANT ORDERING

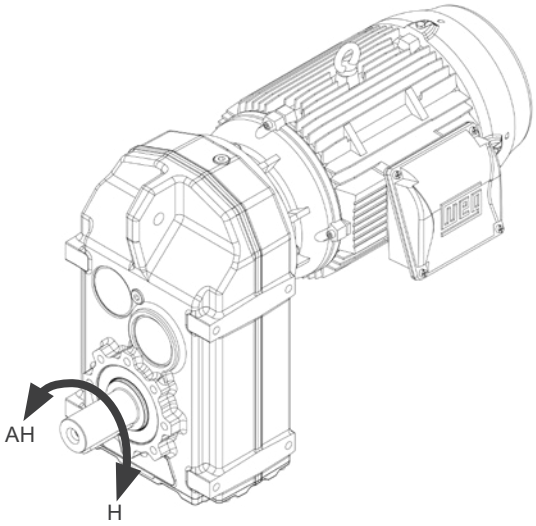
To ensure the correct drive configuration, in addition to the operating position of the gearmotors, the following data must be provided at the time of ordering:

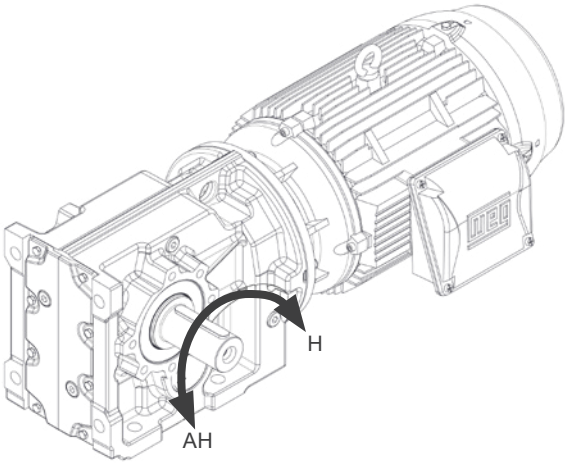
- Position of the output shaft on right angle gearmotors.
- Position of accessories, such as the output flange and torque arm.
- Side A or Side B.



If the drive has a reverse function, it is mandatory to indicate the direction of rotation of the output shaft:

- Clockwise free output (CW): clockwise rotation of the output shaft.
- Counterclockwise free output (CCW): counterclockwise rotation of the output shaft.





For right-angle gearboxes, it is also necessary to specify the direction of rotation when looking directly at the output shaft: side A or side B.

9 INSTALLATION OF GEARBOXES WITH HOLLOW OUTPUT SHAFT AND KEY

Supplied Fasteners

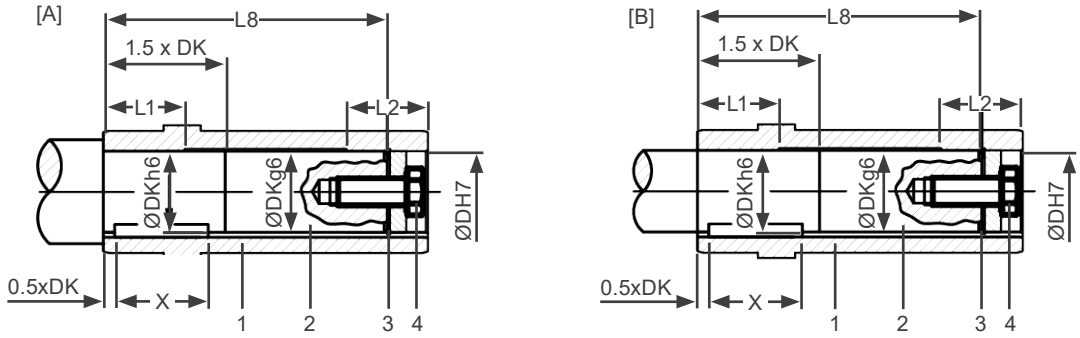
The following fasteners are included as standard:

- Screw with washer (2).
- Retaining ring (3).
- Customer's shaft.

A WEG-CESTARI recommends two mounting options for gear units with a keyed shaft on the input shaft of the driven machine:

- The installation length of the customer's shaft with a shoulder [A] must be L8 – 1 mm.
- The facility length of the customer's shaft without a shoulder lug [B] must be equal to L8.

Customer Shaft with Shoulder [A] and Without Shoulder [B]



(1) Hollow shaft (2) Customer-supplied shaft (3) Retaining ring (4) Screw and washer

Dimensions and Tightening Torque

The retaining screw (4) must be fastened to the torque specified in the following table.

Table 9.1: Dimensions and tightening torque

Size	ØD H7 DK	L1	L2	L8	DIN 933 8.8 Screw	Tightening Torque (Nm)
S03	20	34	40	104	M6x16	20
K02	25	24	50	107	M10x25	20
F02	25	31	31	89	M10x25	20
S04	25	34	40	105	M10x25	20
S04	30	34	40	105	M10x25	20
F03 / K03	30	34	45	105	M10x25	20
S05	30	44	50	132	M10x25	20
S05	35	44	50	132	M12x30	20
F04 / K04	35	36	55	132	M12x30	20
F05 / K05	40	46	60	142	M16x40	40
F06 / K06	40	47	65	156	M16x40	40
S06	40	48	52	144	M16x40	40
S06	45	48	52	144	M16x40	40
F07 / K07	50	53	75	183	M16x45	40
S07	50	63	63	183	M16x45	40
S07	60	69	72	180	M20x50	80
F08 / K08	60	49	90	210	M20x50	80
F09 / K09	70	61	105	270	M20x50	80
F10 / K10	90	82	125	313	M24x60	200
F12 / K12	100	94	150	373	M24x60	200
F15 / K15	120	129	180	460	M24x60	200

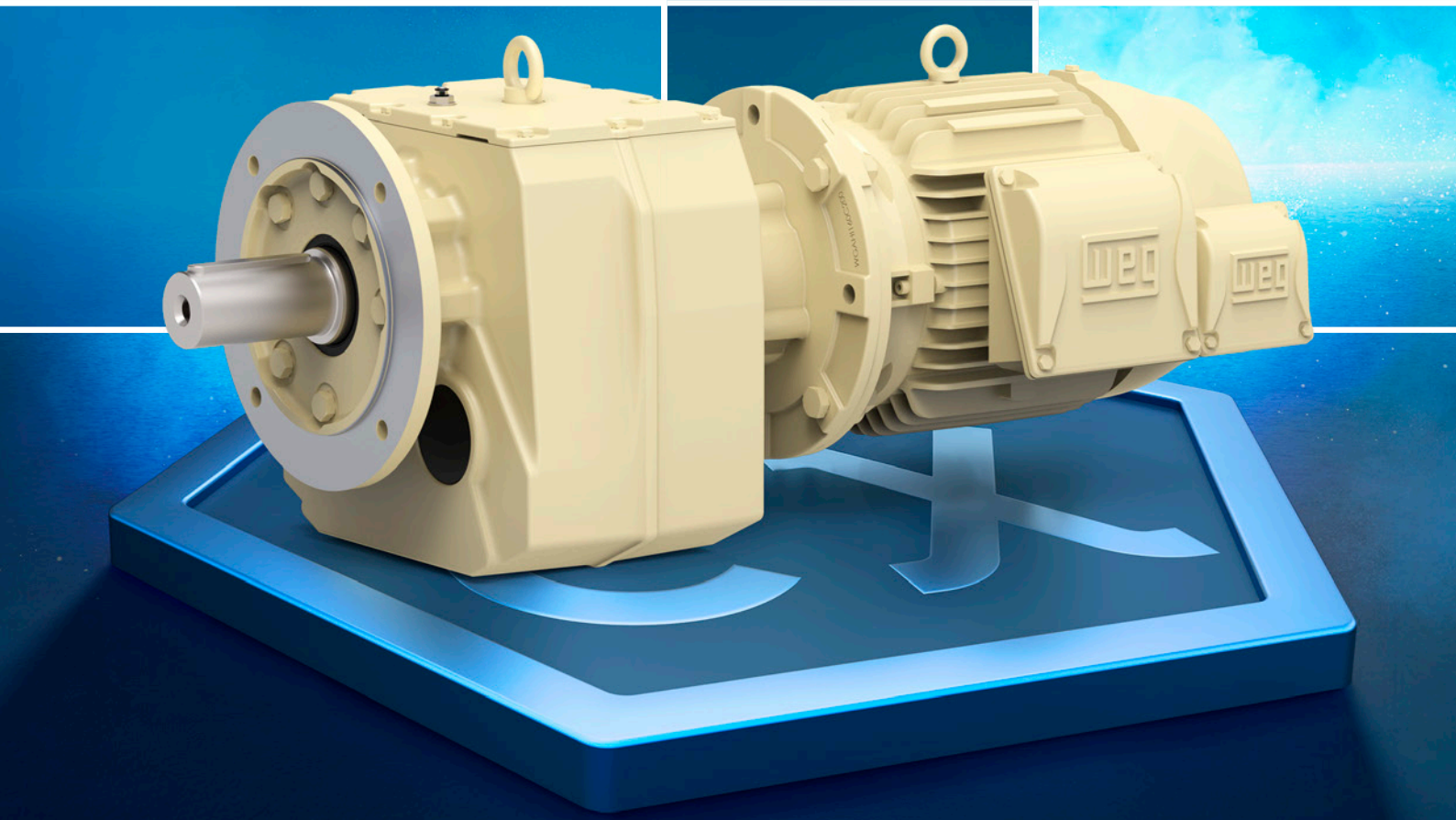
Recommendations

Use Klüber 46MR401 lubricating paste during installation. This prevents contact corrosion and facilitates subsequent removal. The X dimension of the keyway is specified by the customer; however, X must be > DK.

WCG20 C Ex h

Inline helical gearmotors.

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WEG CESTARI REDUTORES

1 TECHNICAL DATA

Size		C00	C01	C03	C05	C06	C07	C08
Power Range		0.12 - 0.75 kW	0.12 - 1.5 kW	0.12 - 3 kW	0.12 - 7.5 kW	0.12 - 9.2 kW	0.12 - 15 kW	0.18 - 22 kW
Nominal Torque		50 Nm	85 Nm	200 Nm	400 Nm	600 Nm	820 Nm	1550 Nm
Gear Ratio		2.44 - 47.44	3.09 - 66.5	3.34 - 286.32	3.83 - 328.43	3.73 - 375.71	5.30 - 351.33	5.12 - 368.94
Number of Stages		2	2	2 / 3	2 / 3	2 / 3	2 / 3	2 / 3
Case Material		Aluminum					Gray Cast Iron	
Solid Shaft	Design	With a split keyway in accordance with DIN 6885.1 and a threaded bore in accordance with DIN 332						
	Tolerance	< Ø 55: k6 / > Ø 55: m6						
	Material	SAE 1045						
Flange	Tolerance	Centering < 230:j6/ > 230: h6 according to DIN EN 50347						
	Material	Gray cast iron						
Toothed Parts	Design	Rectified						
	Material	Case-hardened SAE 8620 - min. 58 HRC						
Shaft Retainers	Design	Design A / AS according DIN 3760						
	Material	FKM						
Lubricants	Design	Standard: CLP ISO VG 220 / Optional: CLP ISO HC VG 200. CLP PG 220. and H1 ISO VG 220						
	Filling Capacity	Depending on the installation position						
Shaft Height		According to DIN 747: < 50: -0.4; > 50 to < 250: -0.5; > 250: -1 In compact gear units, the motor can be designed below the mounting surface						

Size		C09	C10	C13	C14	C16
Power Range		0.75 - 55 kW	0.75 - 55 kW	0.75 - 75 kW	0.75 - 75 kW	0.75 - 75 kW
Nominal Torque		3000 Nm	4500 Nm	8000 Nm	13000 Nm	18000 Nm
Gear Ratio		4.22 - 242.77	4.19 - 246.43	4.00 - 180.96	5.17 - 180.38	5.96 - 234.67
Number of Stages		2 / 3	2 / 3	2 / 3	2 / 3	2 / 3
Housing Material		Gray Cast Iron				
Solid Shaft	Design	With a split keyway in accordance with DIN 6885.1 and a threaded bore in accordance with DIN 332				
	Tolerance	< Ø 55: k6 / > Ø 55: m6				
	Material	SAE 1045				
Flange	Tolerance	Centering < 230:j6/ > 230: h6 according to DIN EN 50347				
	Material	Gray Cast Iron				
Gear Parts	Design	Rectified				
	Material	SAE 8620 case-hardened - min. 58 HRC				
Shaft Retainers	Design	Design A / AS according DIN 3760				
	Material	FKM				
Lubricants	Design	Standard: CLP ISO VG 220 / Optional: CLP ISO HC VG 200, CLP PG 220, and H1 ISO VG 220				
	Filling Capacity	Depending on the installation position				

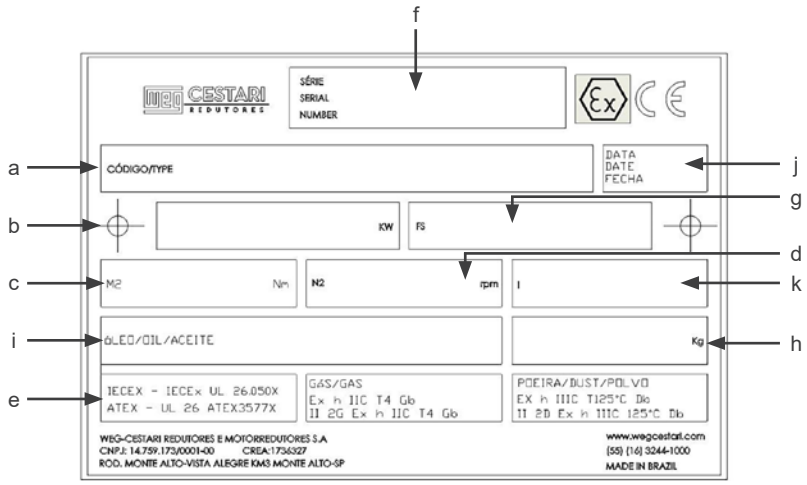
Shaft Height

Size	C09	C10	C13	C14	C16
Shaft Height	According to DIN 747: < 50: -0.4; > 50 to < 250: -0.5; > 250: -1 In compact gearboxes, the motor can be designed below its mounting surfaces				

Criterion	Description
Protection Type	Ex h - mechanical protection (ISO 80079-37)
Zones	1 / 21 (probable presence of gas or dust)
	2 / 22 (occasional and short-term presence)
Gas Groups	IIC: High-risk gases, such as hydrogen and acetylene
	IIIC - Conductive dusts, such as aluminum and coal
Temperature class	T4 / T125 °C - Maximum surface temperature limited to 135 °C for gases and 125 °C for dusts
EPL - Equipment protection level	Gb, Gc, Db, and Dc - High/average protection level

2 GENERAL INFORMATION

2.1 NAMEPLATE



a - Product name	g - Service factor
b - Motor power	h - Mass
c - Output torque	i - Oil quantity and type
d - Output speed	j - Date of manufacture
e - Certificate number	k - Gear ratio
f - Serial number	

2.2 PRODUCT DESCRIPTION

WCG20x C08 3 GS I 100 3kW 4P W21 S

1 2 3 4 5 6 7 8 9 10 11

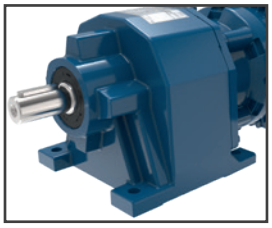
1 Geared Platform
WCG20x = Geared Motor Line Ex h
2 Sizes
C00 | C01 | C03 | C05 | C06 | C07 | C08 | C09 | C10 | C13 | C14 | C16
3 Number of Stages
2 = 2-stage gearbox 3 = 3-stage gearbox
4 Fixing
G = Feet F= B5 flange K = Feet + B5 flange
5 Output shaft
S = Solid
6 Input Type
I = Motor adapter with FF flange
7 Motor Housing
63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | 180 | 200 | 225 | 250 | 280
8 Motor Power
0.12 kW | 0.18 kW | 0.25 kW | 0.37 kW | 0.5k W | 0.75 kW | 1.1 kW | 1.5 kW | 2.2 kW | 3 kW | 3.7 kW | 4 kW | 4.5 kW | 7.5 kW | 9.2 kW | 11 kW | 15 kW | 18.5 kW | 22 kW | 30 kW | 37 kW | 45 kW | 55 kW
9 Motor Polarity
4P = 4 poles 6P = 6 poles 8P = 8 poles

10 Motor Platform
W21 W22
11 Specialty Indicator
(Empty) = Standard S = Special

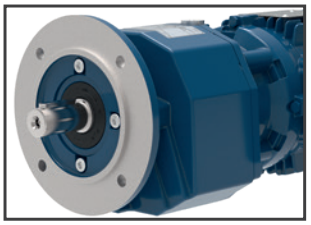
2.3 HOUSING MATERIAL

Case Size	C00	C01	C03	C05	C06	C07	C08	C09	C10	C13	C14	C16
Housing Material	Aluminum					Gray Cast Iron						

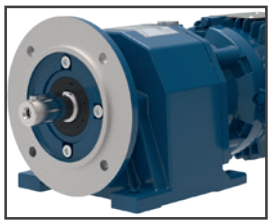
2.4 MOUNTING TYPE (FIXING + INPUT/OUTPUT SHAFT)



Legs



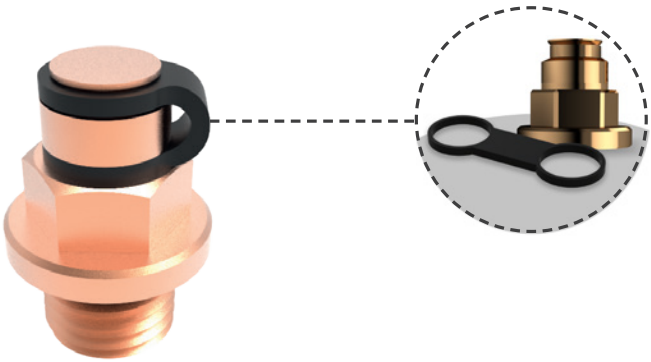
Flange



Flange + Legs

2.5 LUBRICATION AND VENT PLUGS

- Gearboxes C00 through C06: do not have ventilation plugs or oil drain plugs. These models are supplied with permanent lubrication (5,000 hours at an operating temperature of up to 80 °C).
- Gearboxes C07 through C16: come standard with vent holes equipped with protective caps for shipping (see illustration).

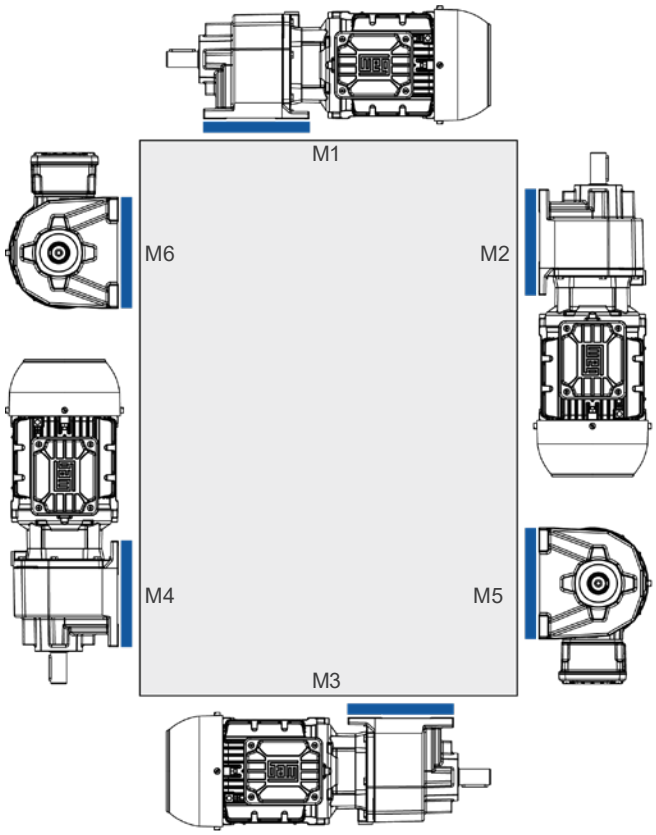


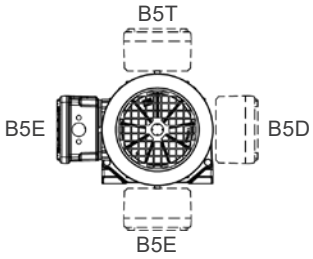
ATTENTION!

- The rubber lead seal on the breather must be completely removed before starting the equipment.
- The breather must be installed in the position corresponding to the assembly position (see Chapter 3 SERVICE FACTORS on page 28).

3 MOUNTING POSITION

Mounting Position: Mounting with Feet for Sizes C00 to C06

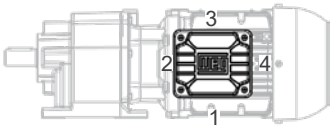




(Connection box position 270°))

Connection box position

Standard: B5E

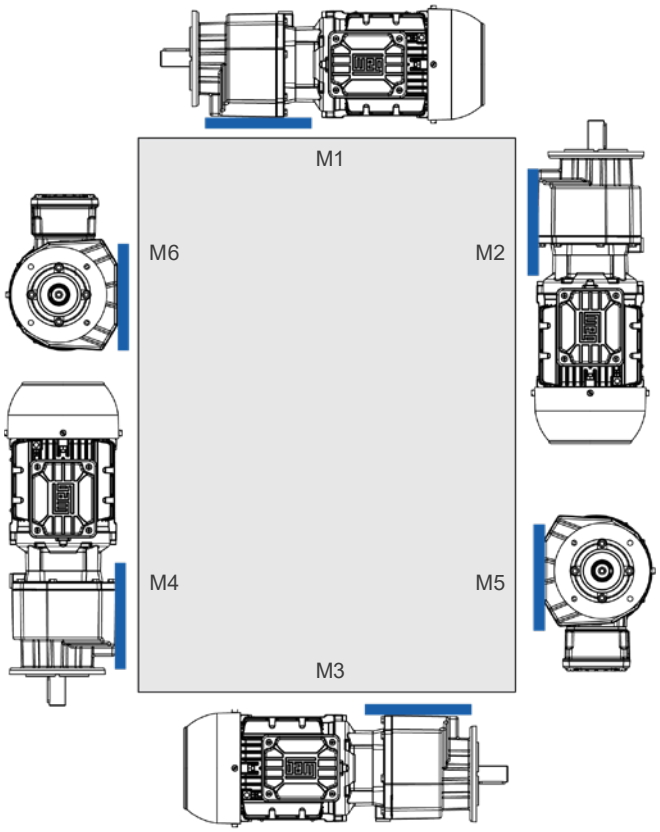


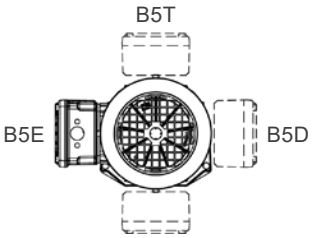
Cable Entry

Standard: for low-hand, single-axis

Notes: **(1)** For low-hand and center-spool.
(2) Facing the shaft.
(3) For top-hand for shaft-mounted.
(4) Facing the rear.

Mounting Position: Flange Mounting for Sizes C00 to C06

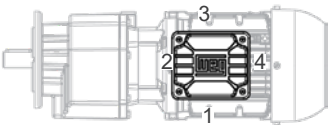




(Connection box position 270°)

Connection box position

Standard: B5E

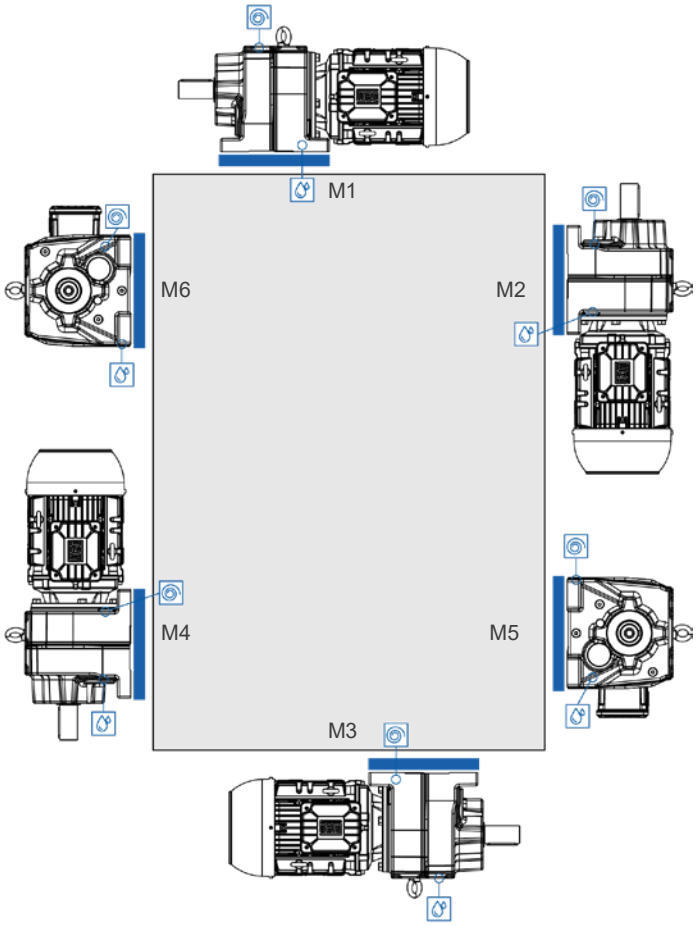


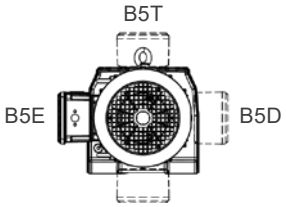
Cable Entry

Standard: for low-hand, single-axis

Notes: **(1)** For low-hand and center-spool.
(2) Facing the shaft.
(3) For top-hand for shaft-mounted.
(4) Facing the rear.

Mounting Position: Mounting by Feet for Sizes C07 to C16

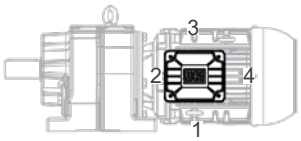




(Connection box position 270°)

Connection box position

Standard: B5E



Cable Entry

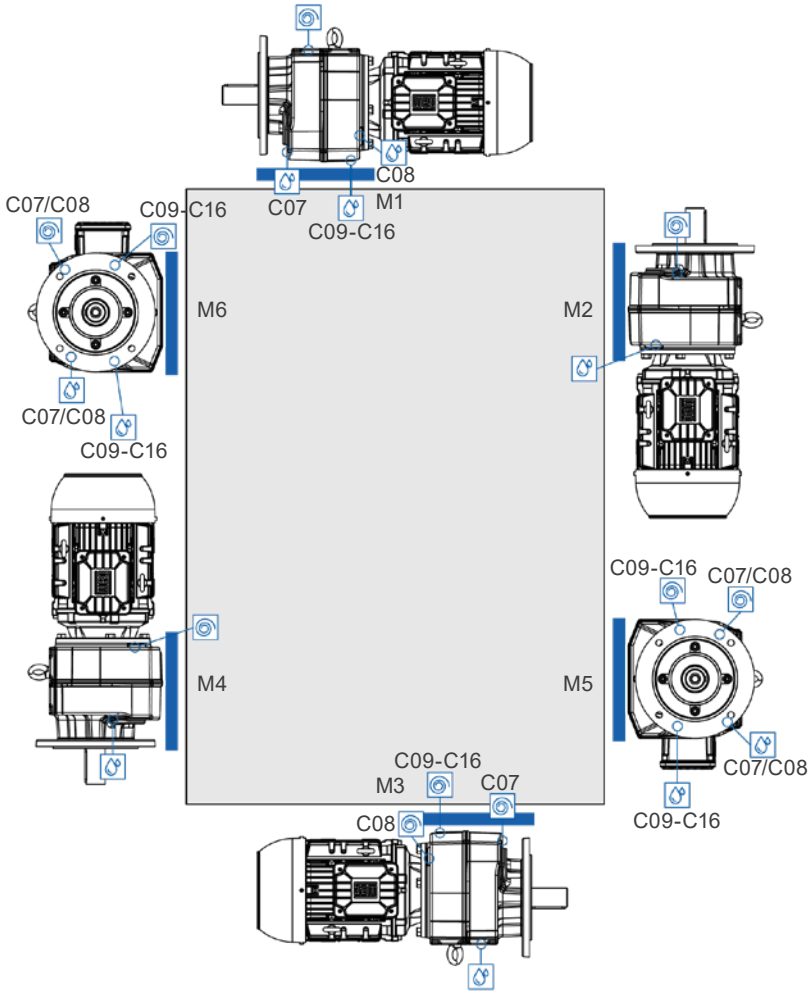
Standard: for low-profile handle on shaft

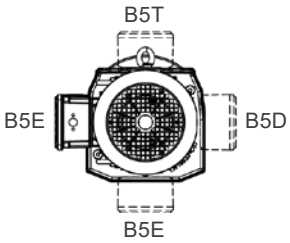
Breather position

Oil drain position

Notes: **(1)** For low-hand and shaft-mounted types.
(2) Facing the shaft.
(3) For top-mounted, for shaft-mounted.
(4) Facing the rear.

Mounting Position: Mounting by Feet for Sizes C07 to C16

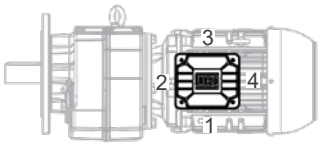




(Connection box position 270°)

Connection box position

Standard: B5E



Cable Entry

Standard: for low-profile handle on shaft

Breather position

Oil drain position

Notes: **(1)** For the lower hand guard on the axle.
(2) Facing the shaft.
(3) For the top, the eye is aligned with the shaft.
(4) Facing the rear.

4 OIL QUANTITY

Mounting by Legs or Legs + Flange - 2 and 3 Stages							
Mounting Positions / Quantity in Liters							
Sizes	**Stages**	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**
C00	2	0.1	0.3	0.3	0.3	0.2	0.2
C01		0.1	0.4	0.4	0.3	0.3	0.3
C03		0.3	0.7	0.6	0.6	0.5	0.4
C05		0.4	1.2	1.1	1.2	0.8	0.7
C06		0.5	1.6	1.6	1.5	1.1	1.0
C07		1.6	3.8	3.6	4.6	2.8	2.4
C08		3.4	7.1	6.7	8.9	4.7	5.4
C09		10.0	13.5	13.0	15.5	10.5	12.5
C10		14.5	21.0	16.5	22.5	14.5	18.5
C13		24.0	34.0	29.0	37.5	26.0	28.5
C14		36.0	49.0	43.5	56.0	36.5	44.0
C16		64.5	92.5	77.5	98.5	64.5	75.5
C03	3	0.2	0.7	0.7	0.6	0.4	0.4
C05		0.3	1.1	1.1	1.1	0.7	0.7
C06		0.3	1.5	1.6	1.4	1.0	0.9
C07		1.5	3.6	3.5	4.4	2.6	2.4
C08		3.3	6.9	6.6	8.8	4.8	5.1
C09		9.5	13.0	12.5	15.0	10.0	12.0
C10		13.5	20.0	16.0	21.5	14.0	17.5
C13		22.0	31.5	27.0	34.5	25.0	26.0
C14		33.0	45.5	40.5	51.5	34.5	40.0
C16		58.5	85.5	72.5	91.5	60.5	68.5

Flange Mounting: 2- and 3-Stage							
Mounting Positions / Capacity in Liters							
Sizes	**Stages**	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**
C00	2	0.1	0.3	0.4	0.3	0.2	0.3
C01		0.2	0.4	0.5	0.5	0.3	0.4
C03		0.4	0.8	0.7	0.8	0.5	0.5
C05		0.6	1.3	1.2	1.5	0.9	1.0
C06		0.9	1.8	1.9	2.2	1.9	1.4
C07		1.6	3.8	3.6	4.6	2.8	2.4
C08		3.4	7.1	6.7	8.9	4.7	5.4
C09		10.0	13.5	13.0	15.5	10.5	12.5
C10		14.5	21.0	16.5	22.5	14.5	18.5
C13		24.0	34.0	29.0	37.5	26.0	28.5
C14		36.0	49.0	43.5	56.0	36.5	44.0
C16		64.5	92.5	77.5	98.5	64.5	75.5
C03	3	0.3	0.7	0.7	0.7	0.5	0.5
C05		0.5	1.2	1.3	1.5	0.9	1.0
C06		0.8	1.7	1.8	2.1	1.2	1.3
C07		1.5	3.6	3.5	4.4	2.6	2.4
C08		3.3	6.9	6.6	8.8	4.8	5.1
C09		9.5	13.0	12.5	15.0	10.0	12.0
C10		13.5	20.0	16.0	21.5	14.0	17.5
C13		22.0	31.5	27.0	34.5	25.0	26.0
C14		33.0	45.5	40.5	51.5	34.5	40.0
C16		58.5	85.5	72.5	91.5	60.5	68.5

5 SELECTION TABLES - GEAR MOTORS

The technical data for the gearmotors listed in the selection tables refer to an ambient temperature of +20 °C.

Structure of the Selection Tables

							1				
PN = 0.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Weight (kg)
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
2	3	4	5	2	3	4	5	6	7	8	9

1. Nominal motor power.
2. Output speed.
3. Effective torque at the output shaft.
4. Service factor.
5. Permissible radial force at the center of the shaft (standard bearing) with axial force = 0.
6. Exact gear ratio of the gearbox.
7. Size of the gearbox.
8. Stages of the gearbox.
9. Weight of the gearmotor.

PN = 0.12 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
716.28	2	19.33	1.7	593.49	2	16.01	(**)	2.44	C00	2	9.1
493.99	2	15.09	1.8	409.30	3	12.50	1.9	3.54	C00	2	9.1
363.74	3	12.30	1.9	301.38	4	10.19	2.0	4.81	C00	2	9.1
285.19	4	12.19	2.1	236.30	5	10.10	2.2	6.14	C00	2	9.1
254.55	5	10.66	2.2	210.91	5	8.83	2.3	6.88	C00	2	9.1
214.11	5	8.40	2.2	177.40	6	6.96	2.3	8.17	C00	2	9.1
196.68	6	8.58	2.3	162.96	7	7.11	2.4	8.90	C00	2	9.1
175.55	7	7.66	2.4	145.45	8	6.35	2.5	9.97	C00	2	9.1
167.88	7	6.59	2.3	139.10	8	5.46	2.4	10.42	C00	2	9.1
144.82	8	6.32	2.5	119.99	10	5.24	2.6	12.08	C00	2	9.1
129.26	9	5.64	2.6	107.10	11	4.67	2.7	13.54	C00	2	9.1
113.43	10	4.95	2.6	93.98	12	4.10	2.7	15.43	C00	2	9.1
101.24	11	4.42	2.7	83.88	14	3.66	2.8	17.29	C00	2	9.1
85.25	13	3.72	2.8	70.63	16	3.08	2.8	20.53	C00	2	9.1
76.09	15	3.32	2.8	63.04	18	2.75	2.9	23.00	C00	2	9.1
66.84	17	2.92	2.8	55.38	21	2.42	2.9	26.18	C00	2	9.1
59.66	19	2.60	2.9	49.43	23	2.16	3.0	29.33	C00	2	9.1
53.21	22	2.32	2.9	44.09	26	1.92	3.0	32.89	C00	2	9.1
47.49	24	2.07	3.0	39.35	29	1.72	3.0	36.85	C00	2	9.1
41.33	28	1.80	3.0	34.25	33	1.49	3.0	42.34	C00	2	9.1
36.89	31	1.61	3.0	30.57	37	1.33	3.0	47.44	C00	2	9.1
52.88	22	3.92	3.5	43.82	26	3.25	3.5	33.09	C01	2	10.0
46.50	25	3.45	3.5	38.53	30	2.86	3.5	37.64	C01	2	10.0
41.67	28	3.09	3.5	34.52	33	2.56	3.5	42.00	C01	2	10.0
37.70	30	2.80	3.5	31.24	37	2.32	3.4	46.42	C01	2	10.0
33.78	34	2.51	3.5	27.99	41	2.08	3.4	51.80	C01	2	10.0
29.37	39	2.18	3.4	24.33	47	1.80	3.3	59.59	C01	2	10.0
26.32	44	1.95	3.4	21.80	53	1.62	3.3	66.50	C01	2	10.0
22.46	51	3.92	5.7	18.61	62	3.25	5.7	77.90	C03	3	12.0
20.40	56	3.56	5.7	16.90	68	2.95	5.7	85.78	C03	3	12.0
17.55	65	3.06	5.7	14.54	79	2.54	5.6	99.71	C03	3	12.0
15.94	72	2.78	5.7	13.21	87	2.30	5.6	109.79	C03	3	12.0
13.52	85	2.36	5.6	11.21	102	1.96	5.4	129.39	C03	3	12.0
12.28	93	2.14	5.5	10.18	113	1.78	5.3	142.47	C03	3	12.0

PN = 0.12 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
10.66	108	1.86	5.4	8.83	130	1.54	5.1	164.23	C03	3	12.0
9.68	118	1.69	5.3	8.02	143	1.40	4.9	180.83	C03	3	12.0
8.64	133	1.51	5.1	7.16	160	1.25	4.6	202.55	C03	3	12.0
7.85	146	1.37	4.9	6.50	176	1.13	4.3	223.03	C03	3	12.0
6.73	170	1.17	4.9	5.58	206	0.97	(**)	260.03	C03	3	12.0
6.11	187	1.07	4.5	5.06	226	0.88	(**)	286.32	C03	3	12.0
10.58	108	3.69	7.3	8.76	131	3.06	7.3	165.45	C05	3	16.4
9.01	127	3.14	7.3	7.46	154	2.60	7.1	194.29	C05	3	16.4
8.19	140	2.86	7.2	6.78	169	2.37	7.0	213.71	C05	3	16.4
7.18	160	2.51	7.1	5.95	193	2.08	6.8	243.57	C05	3	16.4
6.53	175	2.28	6.9	5.41	212	1.89	6.6	267.93	C05	3	16.4
5.86	196	2.05	6.7	4.86	236	1.70	6.3	298.57	C05	3	16.4
5.33	215	1.86	6.5	4.41	260	1.54	5.9	328.43	C05	3	16.4
7.21	159	3.78	10.5	5.98	192	3.13	10.8	242.60	C06	3	20.0
6.21	184	3.25	10.5	5.15	223	2.69	10.6	281.73	C06	3	20.0
5.70	201	2.98	10.7	4.72	243	2.47	10.5	307.24	C06	3	20.0
5.08	226	2.66	10.6	4.21	272	2.20	10.3	344.51	C06	3	20.0
4.66	246	2.44	10.5	3.86	297	2.02	10.1	375.71	C06	3	20.0
5.48	209	3.92	13.5	4.54	253	3.25	13.5	319.60	C07	3	39.0
4.98	230	3.56	13.5	4.13	278	2.95	13.5	351.33	C07	3	39.0

Note: (**) Upon request.

PN = 0.18 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
716.28	2	12.89	1.5	593.49	3	10.68	1.7	2.44	C00	2	9.8
493.99	3	10.06	1.7	409.30	4	8.33	1.8	3.54	C00	2	9.8
363.74	5	8.20	1.8	301.38	6	6.80	1.9	4.81	C00	2	9.8
285.19	6	8.13	2.0	236.30	7	6.74	2.0	6.14	C00	2	9.8
254.55	7	7.11	2.1	210.91	8	5.89	2.2	6.88	C00	2	9.8
214.11	8	5.60	2.0	177.40	10	4.64	2.1	8.17	C00	2	9.8
196.68	9	5.72	2.2	162.96	11	4.74	2.2	8.90	C00	2	9.8
175.55	10	5.11	2.2	145.45	12	4.23	2.3	9.97	C00	2	9.8
167.88	10	4.39	2.1	139.10	12	3.64	2.1	10.42	C00	2	9.8
144.82	12	4.21	2.3	119.99	14	3.49	2.3	12.08	C00	2	9.8
129.26	13	3.76	2.3	107.10	16	3.12	2.4	13.54	C00	2	9.8
113.43	15	3.30	2.4	93.98	18	2.73	2.4	15.43	C00	2	9.8
101.24	17	2.94	2.4	83.88	20	2.44	2.4	17.29	C00	2	9.8
85.25	20	2.48	2.4	70.63	24	2.05	2.4	20.53	C00	2	9.8
76.09	23	2.21	2.4	63.04	27	1.83	2.4	23.00	C00	2	9.8
66.84	26	1.94	2.4	55.38	31	1.61	2.4	26.18	C00	2	9.8
59.66	29	1.74	2.4	49.43	35	1.44	2.4	29.33	C00	2	9.8
53.21	32	1.55	2.4	44.09	39	1.28	2.3	32.89	C00	2	9.8
47.49	36	1.38	2.4	39.35	44	1.14	2.2	36.85	C00	2	9.8
41.33	42	1.20	2.4	34.25	50	1.00	2.2	42.34	C00	2	9.8
36.89	47	1.07	2.4	30.57	56	0.89	(**)	47.44	C00	2	9.8
76.58	22	3.79	3.5	63.46	27	3.14	3.5	22.85	C01	2	10.7
68.63	25	3.39	3.5	56.86	30	2.81	3.5	25.50	C01	2	10.7
59.02	29	2.92	3.5	48.90	35	2.42	3.5	29.65	C01	2	10.7

PN = 0.18 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
52.88	33	2.62	3.5	43.82	39	2.17	3.4	33.09	C01	2	10.7
46.50	37	2.30	3.4	38.53	45	1.91	3.4	37.64	C01	2	10.7
41.67	41	2.06	3.4	34.52	50	1.71	3.3	42.00	C01	2	10.7
37.70	46	1.86	3.3	31.24	55	1.54	3.2	46.42	C01	2	10.7
33.78	51	1.67	3.3	27.99	61	1.38	3.1	51.80	C01	2	10.7
29.37	59	1.45	3.2	24.33	71	1.20	3.0	59.59	C01	2	10.7
26.32	65	1.30	3.1	21.80	79	1.08	2.8	66.50	C01	2	10.7
30.09	57	3.50	5.7	24.93	69	2.90	5.7	58.17	C03	3	12.7
27.32	63	3.18	5.7	22.64	76	2.63	5.7	64.05	C03	3	12.7
22.46	77	2.61	5.7	18.61	92	2.17	5.5	77.90	C03	3	12.7
20.40	84	2.37	5.6	16.90	102	1.97	5.4	85.78	C03	3	12.7
17.55	98	2.04	5.5	14.54	118	1.69	5.3	99.71	C03	3	12.7
15.94	108	1.85	5.4	13.21	130	1.54	5.1	109.79	C03	3	12.7
13.52	127	1.57	5.1	11.21	153	1.30	4.7	129.39	C03	3	12.7
12.28	140	1.43	5.0	10.18	169	1.18	4.5	142.47	C03	3	12.7
10.66	161	1.24	4.6	8.83	195	1.03	3.9	164.23	C03	3	12.7
9.68	178	1.13	4.7	8.02	214	0.93	(**)	180.83	C03	3	12.7
8.64	199	1.01	4.7	7.16	240	0.83	(**)	202.55	C03	3	12.7
7.85	219	0.91	(**)	6.50	264	0.76	(**)	223.03	C03	3	12.7
14.48	119	3.37	7.3	12.00	143	2.79	7.2	120.88	C05	3	17.0
13.16	131	3.06	7.3	10.90	158	2.54	7.1	132.97	C05	3	17.0
11.64	148	2.71	7.2	9.64	178	2.24	6.9	150.41	C05	3	17.0
10.58	163	2.46	7.0	8.76	196	2.04	6.7	165.45	C05	3	17.0
9.01	191	2.10	6.8	7.46	230	1.74	6.3	194.29	C05	3	17.0
8.19	210	1.91	6.6	6.78	253	1.58	6.0	213.71	C05	3	17.0
7.18	239	1.67	6.2	5.95	289	1.39	5.4	243.57	C05	3	17.0
6.53	263	1.52	5.8	5.41	318	1.26	4.7	267.93	C05	3	17.0
5.86	293	1.36	5.2	4.86	354	1.13	3.6	298.57	C05	3	17.0
5.33	323	1.24	4.5	4.41	389	1.03	1.8	328.43	C05	3	17.0
11.37	151	3.97	10.7	9.42	183	3.29	10.7	153.96	C06	3	21.0
10.15	169	3.54	10.7	8.41	204	2.93	10.7	172.49	C06	3	21.0
9.30	185	3.25	10.6	7.71	223	2.69	10.6	188.11	C06	3	21.0
7.87	219	2.75	10.6	6.52	264	2.28	10.4	222.46	C06	3	21.0
7.21	238	2.52	10.5	5.98	288	2.09	10.2	242.60	C06	3	21.0
6.21	277	2.17	10.3	5.15	334	1.80	9.8	281.73	C06	3	21.0
5.70	302	1.99	10.1	4.72	364	1.65	9.5	307.24	C06	3	21.0
5.08	338	1.77	9.7	4.21	408	1.47	9.0	344.51	C06	3	21.0
4.66	369	1.63	9.4	3.86	445	1.35	8.5	375.71	C06	3	21.0
8.09	212	3.86	13.5	6.71	256	3.20	13.4	216.20	C07	3	40.0
6.91	249	3.30	13.5	5.72	300	2.73	13.4	253.30	C07	3	40.0
6.29	274	3.00	13.5	5.21	330	2.48	13.2	278.44	C07	3	40.0
5.48	314	2.61	13.3	4.54	379	2.16	12.9	319.60	C07	3	40.0
4.98	345	2.38	13.1	4.13	417	1.97	12.7	351.33	C07	3	40.0

Note: (**) Upon request.

PN = 0.25 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
716.28	3	9.28	1.6	593.49	4	7.69	1.6	2.44	C00	2	9.8
493.99	5	7.24	1.6	409.30	6	6.00	1.7	3.54	C00	2	9.8

PN = 0.25 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
363.74	7	5.90	1.7	301.38	8	4.89	1.8	4.81	C00	2	9.8
285.19	8	5.85	1.9	236.30	10	4.85	1.8	6.14	C00	2	9.8
254.55	9	5.12	1.9	210.91	11	4.24	2.0	6.88	C00	2	9.8
214.11	11	4.03	1.8	177.40	13	3.34	1.8	8.17	C00	2	9.8
196.68	12	4.12	2.0	162.96	15	3.41	2.0	8.90	C00	2	9.8
175.55	14	3.68	2.0	145.45	16	3.05	2.1	9.97	C00	2	9.8
167.88	14	3.16	1.8	139.10	17	2.62	1.8	10.42	C00	2	9.8
144.82	16	3.03	2.0	119.99	20	2.51	2.1	12.08	C00	2	9.8
129.26	18	2.71	2.1	107.10	22	2.24	2.1	13.54	C00	2	9.8
113.43	21	2.38	2.0	93.98	25	1.97	2.0	15.43	C00	2	9.8
101.24	24	2.12	2.1	83.88	28	1.76	2.0	17.29	C00	2	9.8
85.25	28	1.79	2.0	70.63	34	1.48	1.9	20.53	C00	2	9.8
76.09	31	1.59	2.0	63.04	38	1.32	1.9	23.00	C00	2	9.8
66.84	36	1.40	1.9	55.38	43	1.16	1.7	26.18	C00	2	9.8
59.66	40	1.25	1.8	49.43	48	1.04	1.7	29.33	C00	2	9.8
53.21	45	1.11	1.8	44.09	54	0.92	(**)	32.89	C00	2	9.8
47.49	50	0.99	(**)	39.35	61	0.82	(**)	36.85	C00	2	9.8
41.33	58	0.87	(**)	34.25	70	0.72	(**)	42.34	C00	2	9.8
110.63	22	3.05	3.1	91.67	26	2.53	3.3	15.82	C01	2	10.7
98.02	24	3.49	3.2	81.22	29	2.89	3.4	17.85	C01	2	10.7
87.84	27	3.13	3.4	72.78	33	2.59	3.5	19.92	C01	2	10.7
76.58	31	2.73	3.5	63.46	38	2.26	3.4	22.85	C01	2	10.7
68.63	35	2.44	3.5	56.86	42	2.02	3.4	25.50	C01	2	10.7
59.02	40	2.10	3.4	48.90	49	1.74	3.3	29.65	C01	2	10.7
52.88	45	1.88	3.3	43.82	54	1.56	3.2	33.09	C01	2	10.7
46.50	51	1.66	3.3	38.53	62	1.37	3.1	37.64	C01	2	10.7
41.67	57	1.48	3.2	34.52	69	1.23	3.0	42.00	C01	2	10.7
37.70	63	1.34	3.1	31.24	76	1.11	2.8	46.42	C01	2	10.7
33.78	71	1.20	3.1	27.99	85	1.00	2.8	51.80	C01	2	10.7
29.37	81	1.05	3.0	24.33	98	0.87	(**)	59.59	C01	2	10.7
26.32	91	0.94	(**)	21.80	109	0.78	(**)	66.50	C01	2	10.7
44.93	53	3.20	5.8	37.23	64	2.65	5.7	38.95	C03	2	12.3
40.81	59	3.08	5.8	33.81	71	2.55	5.7	42.88	C03	2	12.3
39.96	60	3.35	5.7	33.11	72	2.77	5.7	43.79	C03	3	12.7
36.29	66	3.04	5.7	30.07	79	2.52	5.6	48.22	C03	3	12.7
30.09	79	2.52	5.6	24.93	96	2.09	5.5	58.17	C03	3	12.7
27.32	87	2.29	5.6	22.64	105	1.90	5.4	64.05	C03	3	12.7
22.46	106	1.88	5.4	18.61	128	1.56	5.1	77.90	C03	3	12.7
20.40	117	1.71	5.3	16.90	141	1.42	4.9	85.78	C03	3	12.7
17.55	136	1.47	5.0	14.54	164	1.22	4.6	99.71	C03	3	12.7
15.94	150	1.34	4.8	13.21	181	1.11	4.2	109.79	C03	3	12.7
13.52	177	1.13	4.8	11.21	213	0.94	(**)	129.39	C03	3	12.7
12.28	194	1.03	4.8	10.18	235	0.85	(**)	142.47	C03	3	12.7
10.66	224	0.89	(**)	8.83	270	0.74	(**)	164.23	C03	3	12.7
32.71	73	3.15	7.6	27.10	88	2.61	7.5	53.50	C05	2	16.8
29.74	80	3.11	7.6	24.64	97	2.58	7.5	58.85	C05	2	16.8
22.50	106	3.77	7.3	18.64	128	3.12	7.3	77.79	C05	3	17.0
18.96	126	3.18	7.3	15.71	152	2.63	7.1	92.32	C05	3	17.0
17.23	139	2.89	7.2	14.28	167	2.39	7.0	101.55	C05	3	17.0

PN = 0.25 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
14.48	165	2.43	7.0	12.00	199	2.01	6.7	120.88	C05	3	17.0
13.16	181	2.21	6.9	10.90	219	1.83	6.5	132.97	C05	3	17.0
11.64	205	1.95	6.6	9.64	248	1.62	6.1	150.41	C05	3	17.0
10.58	226	1.77	6.4	8.76	272	1.47	5.7	165.45	C05	3	17.0
9.01	265	1.51	5.8	7.46	320	1.25	4.7	194.29	C05	3	17.0
8.19	292	1.37	5.3	6.78	352	1.14	3.7	213.71	C05	3	17.0
7.18	332	1.20	5.3	5.95	401	1.00	3.4	243.57	C05	3	17.0
6.53	366	1.09	5.3	5.41	441	0.91	(**)	267.93	C05	3	17.0
5.86	407	0.98	(**)	4.86	492	0.81	(**)	298.57	C05	3	17.0
5.33	448	0.89	(**)	4.41	541	0.74	(**)	328.43	C05	3	17.0
14.77	162	3.71	10.5	12.24	195	3.07	10.8	118.51	C06	3	21.0
12.40	193	3.12	10.8	10.27	232	2.58	10.6	141.17	C06	3	21.0
11.37	210	2.86	10.7	9.42	253	2.37	10.4	153.96	C06	3	21.0
10.15	235	2.55	10.5	8.41	284	2.11	10.2	172.49	C06	3	21.0
9.30	257	2.34	10.4	7.71	310	1.94	10.0	188.11	C06	3	21.0
7.87	303	1.98	10.1	6.52	366	1.64	9.5	222.46	C06	3	21.0
7.21	331	1.81	9.8	5.98	399	1.50	9.1	242.60	C06	3	21.0
6.21	384	1.56	9.3	5.15	464	1.29	8.2	281.73	C06	3	21.0
5.70	419	1.43	8.8	4.72	506	1.19	7.5	307.24	C06	3	21.0
5.08	470	1.28	8.1	4.21	567	1.06	6.2	344.51	C06	3	21.0
4.66	513	1.17	8.1	3.86	619	0.97	(**)	375.71	C06	3	21.0
10.84	220	3.72	13.5	8.99	266	3.09	13.5	161.38	C07	3	40.0
9.86	242	3.39	13.4	8.17	292	2.81	13.4	177.39	C07	3	40.0
8.90	268	3.06	13.5	7.37	324	2.53	13.2	196.68	C07	3	40.0
8.09	295	2.78	13.4	6.71	356	2.30	13.1	216.20	C07	3	40.0
6.91	346	2.37	13.1	5.72	417	1.97	12.7	253.30	C07	3	40.0
6.29	380	2.16	12.9	5.21	458	1.79	12.4	278.44	C07	3	40.0
5.48	436	1.88	12.5	4.54	526	1.56	11.8	319.60	C07	3	40.0
4.98	479	1.71	12.2	4.13	578	1.42	11.3	351.33	C07	3	40.0

Note: (**) Upon request.

PN = 0.37 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
716.28	5	6.27	1.5	593.49	6	5.19	1.5	2.44	C00	2	11.5
493.99	7	4.89	1.5	409.30	9	4.05	1.5	3.54	C00	2	11.5
363.74	10	3.99	1.5	301.38	12	3.31	1.5	4.81	C00	2	11.5
285.19	12	3.95	1.7	236.30	15	3.28	1.5	6.14	C00	2	11.5
254.55	14	3.46	1.7	210.91	17	2.87	1.7	6.88	C00	2	11.5
214.11	17	2.72	1.5	177.40	20	2.26	1.4	8.17	C00	2	11.5
196.68	18	2.78	1.7	162.96	22	2.31	1.7	8.90	C00	2	11.5
175.55	20	2.48	1.7	145.45	24	2.06	1.6	9.97	C00	2	11.5
167.88	21	2.14	1.4	139.10	25	1.77	1.3	10.42	C00	2	11.5
144.82	24	2.05	1.6	119.99	29	1.70	1.5	12.08	C00	2	11.5
129.26	27	1.83	1.6	107.10	33	1.52	1.5	13.54	C00	2	11.5
113.43	31	1.61	1.5	93.98	38	1.33	1.3	15.43	C00	2	11.5
101.24	35	1.43	1.4	83.88	42	1.19	1.3	17.29	C00	2	11.5
85.25	41	1.21	1.4	70.63	50	1.00	1.3	20.53	C00	2	11.5
76.09	46	1.08	1.4	63.04	56	0.89	(**)	23.00	C00	2	11.5

PN = 0.37 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
66.84	53	0.95	(**)	55.38	64	0.78	(**)	26.18	C00	2	11.5
182.22	19	3.40	2.9	150.98	23	2.82	2.8	9.60	C01	2	12.4
156.25	23	3.76	3.0	129.46	27	3.11	3.0	11.20	C01	2	12.4
131.29	27	3.16	3.0	108.78	32	2.62	3.1	13.33	C01	2	12.4
117.65	30	2.83	3.1	97.48	36	2.34	3.2	14.88	C01	2	12.4
110.63	32	2.06	3.1	91.67	39	1.71	3.2	15.82	C01	2	12.4
98.02	36	2.36	3.2	81.22	44	1.95	3.4	17.85	C01	2	12.4
87.84	40	2.11	3.3	72.78	49	1.75	3.3	19.92	C01	2	12.4
76.58	46	1.84	3.3	63.46	56	1.53	3.2	22.85	C01	2	12.4
68.63	51	1.65	3.2	56.86	62	1.37	3.1	25.50	C01	2	12.4
59.02	60	1.42	3.1	48.90	72	1.18	2.9	29.65	C01	2	12.4
52.88	67	1.27	3.0	43.82	81	1.05	2.7	33.09	C01	2	12.4
46.50	76	1.12	3.0	38.53	92	0.93	(**)	37.64	C01	2	12.4
41.67	85	1.00	3.0	34.52	102	0.83	(**)	42.00	C01	2	12.4
37.70	94	0.91	(**)	31.24	113	0.75	(**)	46.42	C01	2	12.4
69.53	51	3.94	5.4	57.61	61	3.26	5.4	25.17	C03	2	14.0
63.15	56	3.57	5.4	52.32	68	2.96	5.5	27.71	C03	2	14.0
55.25	64	3.13	5.4	45.78	77	2.59	5.6	31.67	C03	2	14.0
50.18	70	2.84	5.6	41.58	85	2.35	5.6	34.88	C03	2	14.0
44.93	79	2.16	5.6	37.23	95	1.79	5.5	38.95	C03	2	14.0
40.81	87	2.08	5.5	33.81	105	1.72	5.4	42.88	C03	2	14.0
54.46	65	3.08	5.5	45.13	78	2.55	5.6	32.13	C03	3	14.4
49.46	71	2.80	5.7	40.98	86	2.32	5.6	35.38	C03	3	14.4
39.96	88	2.26	5.5	33.11	107	1.87	5.3	43.79	C03	3	14.4
36.29	97	2.05	5.4	30.07	118	1.70	5.2	48.22	C03	3	14.4
30.09	117	1.70	5.2	24.93	142	1.41	4.9	58.17	C03	3	14.4
27.32	129	1.55	5.0	22.64	156	1.28	4.6	64.05	C03	3	14.4
22.46	157	1.27	4.6	18.61	190	1.05	3.8	77.90	C03	3	14.4
20.40	173	1.15	4.5	16.90	209	0.96	(**)	85.78	C03	3	14.4
17.55	201	0.99	(**)	14.54	243	0.82	(**)	99.71	C03	3	14.4
15.94	222	0.90	(**)	13.21	268	0.75	(**)	109.79	C03	3	14.4
40.00	88	3.51	7.4	33.14	107	2.91	7.4	43.75	C05	2	19.0
36.36	97	3.50	7.4	30.13	117	2.90	7.4	48.13	C05	2	19.0
32.71	108	2.13	7.4	27.10	130	1.76	7.3	53.50	C05	2	19.0
29.74	119	2.10	7.3	24.64	143	1.74	7.2	58.85	C05	2	19.0
31.24	113	3.54	7.3	25.88	137	2.93	7.2	56.02	C05	3	19.0
28.40	124	3.21	7.3	23.53	150	2.66	7.1	61.63	C05	3	19.0
24.75	143	2.80	7.2	20.51	172	2.32	6.9	70.71	C05	3	19.0
22.50	157	2.55	7.0	18.64	190	2.11	6.7	77.79	C05	3	19.0
18.96	186	2.15	6.7	15.71	225	1.78	6.3	92.32	C05	3	19.0
17.23	205	1.95	6.5	14.28	247	1.62	5.9	101.55	C05	3	19.0
14.48	244	1.64	6.0	12.00	295	1.36	5.0	120.88	C05	3	19.0
13.16	268	1.49	5.5	10.90	324	1.23	4.2	132.97	C05	3	19.0
11.64	304	1.32	3.0	9.64	367	1.09	2.4	150.41	C05	3	19.0
10.58	334	1.20	3.0	8.76	403	0.99	(**)	165.45	C05	3	19.0
9.01	392	1.02	3.0	7.46	473	0.84	(**)	194.29	C05	3	19.0
8.19	432	0.93	(**)	6.78	521	0.77	(**)	213.71	C05	3	19.0
31.81	111	3.51	11.0	26.36	134	2.91	11.0	55.02	C06	2	22.0
29.17	121	3.47	11.0	24.17	146	2.87	11.0	60.00	C06	2	22.0

PN = 0.37 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
21.31	166	3.62	10.7	17.66	200	3.00	10.7	82.10	C06	3	23.0
19.54	181	3.32	10.7	16.19	218	2.75	10.6	89.54	C06	3	23.0
16.10	219	2.73	10.6	13.34	265	2.27	10.3	108.67	C06	3	23.0
14.77	239	2.51	10.5	12.24	289	2.08	10.1	118.51	C06	3	23.0
12.40	285	2.10	10.1	10.27	344	1.74	9.6	141.17	C06	3	23.0
11.37	311	1.93	9.9	9.42	375	1.60	9.2	153.96	C06	3	23.0
10.15	348	1.72	9.5	8.41	420	1.43	8.6	172.49	C06	3	23.0
9.30	380	1.58	9.1	7.71	458	1.31	8.1	188.11	C06	3	23.0
7.87	449	1.34	8.2	6.52	542	1.11	6.3	222.46	C06	3	23.0
7.21	490	1.22	8.2	5.98	591	1.01	6.3	242.60	C06	3	23.0
6.21	569	1.05	8.2	5.15	687	0.87	(**)	281.73	C06	3	23.0
5.70	620	0.97	(**)	4.72	749	0.80	(**)	307.24	C06	3	23.0
5.08	696	0.86	(**)	4.21	840	0.71	(**)	344.51	C06	3	23.0
16.75	211	3.89	13.5	13.88	255	3.22	13.5	104.50	C07	3	42.0
14.00	252	3.25	13.5	11.60	305	2.69	13.3	124.97	C07	3	42.0
12.74	277	2.96	13.4	10.55	335	2.45	13.1	137.38	C07	3	42.0
10.84	326	2.52	13.2	8.99	393	2.09	12.7	161.38	C07	3	42.0
9.86	358	2.29	13.0	8.17	432	1.90	12.5	177.39	C07	3	42.0
8.90	397	2.06	12.7	7.37	479	1.71	12.1	196.68	C07	3	42.0
8.09	437	1.88	12.4	6.71	527	1.56	11.6	216.20	C07	3	42.0
6.91	511	1.60	11.7	5.72	617	1.33	10.6	253.30	C07	3	42.0
6.29	562	1.46	11.2	5.21	679	1.21	9.7	278.44	C07	3	42.0
5.48	645	1.27	10.1	4.54	779	1.05	7.8	319.60	C07	3	42.0
4.98	709	1.16	10.0	4.13	856	0.96	(**)	351.33	C07	3	42.0
7.33	482	3.21	23.8	6.07	582	2.66	23.5	238.89	C08	3	66.0
6.14	575	2.70	23.5	5.09	694	2.23	23.1	284.84	C08	3	66.0
4.74	745	2.08	22.8	3.93	899	1.72	22.3	368.94	C08	3	66.0

Note: (**) Upon request.

PN = 0.55 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
363.74	14	2.68	1.2	301.38	17	2.22	1.1	4.81	C00	2	12.8
285.19	18	2.66	1.4	236.30	22	2.20	1.0	6.14	C00	2	12.8
254.55	21	2.33	1.4	210.91	25	1.93	1.3	6.88	C00	2	12.8
214.11	25	1.83	1.0	177.40	30	1.52	0.8	8.17	C00	2	12.8
196.68	27	1.87	1.2	162.96	32	1.55	1.1	8.90	C00	2	12.8
175.55	30	1.67	1.2	145.45	36	1.38	1.1	9.97	C00	2	12.8
167.88	31	1.44	0.7	139.10	38	1.19	0.5	10.42	C00	2	12.8
144.82	36	1.38	1.0	119.99	44	1.14	0.8	12.08	C00	2	12.8
129.26	41	1.23	0.9	107.10	49	1.02	0.7	13.54	C00	2	12.8
113.43	46	1.08	0.9	93.98	56	0.89	(**)	15.43	C00	2	12.8
101.24	52	0.96	(**)	83.88	63	0.80	(**)	17.29	C00	2	12.8
312.37	17	3.92	2.6	258.82	20	3.25	2.6	5.60	C01	2	13.7
237.65	22	3.85	2.6	196.91	27	3.19	2.6	7.36	C01	2	13.7
212.96	25	3.45	2.6	176.46	30	2.86	2.6	8.22	C01	2	13.7
182.22	29	2.29	2.5	150.98	35	1.89	2.7	9.60	C01	2	13.7
174.37	30	2.82	2.6	144.47	36	2.34	2.7	10.04	C01	2	13.7
156.25	34	2.53	2.7	129.46	41	2.10	2.8	11.20	C01	2	13.7
131.29	40	2.12	2.8	108.78	48	1.76	3.0	13.33	C01	2	13.7

PN = 0.55 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
117.65	45	1.90	2.9	97.48	54	1.58	3.1	14.88	C01	2	13.7
110.63	47	1.39	2.9	91.67	57	1.15	2.9	15.82	C01	2	13.7
98.02	54	1.59	3.1	81.22	65	1.31	3.1	17.85	C01	2	13.7
87.84	60	1.42	3.1	72.78	72	1.18	3.0	19.92	C01	2	13.7
76.58	69	1.24	3.0	63.46	83	1.03	2.8	22.85	C01	2	13.7
68.63	77	1.11	3.0	56.86	92	0.92	(**)	25.50	C01	2	13.7
59.02	89	0.96	(**)	48.90	107	0.79	(**)	29.65	C01	2	13.7
52.88	99	0.86	(**)	43.82	120	0.71	(**)	33.09	C01	2	13.7
102.40	51	3.90	4.9	84.85	62	3.23	4.7	17.09	C03	2	15.3
90.02	58	3.43	4.9	74.59	70	2.84	4.7	19.44	C03	2	15.3
81.76	64	3.11	4.9	67.74	78	2.58	4.9	21.40	C03	2	15.3
69.53	76	2.65	4.9	57.61	91	2.19	5.1	25.17	C03	2	15.3
63.15	83	2.40	5.0	52.32	100	1.99	5.2	27.71	C03	2	15.3
55.25	95	2.10	5.1	45.78	115	1.74	5.3	31.67	C03	2	15.3
50.18	105	1.91	5.3	41.58	126	1.58	5.2	34.88	C03	2	15.3
44.93	117	1.45	5.3	37.23	141	1.20	5.0	38.95	C03	2	15.3
40.81	129	1.40	5.2	33.81	155	1.16	4.8	42.88	C03	2	15.3
54.46	96	2.07	5.2	45.13	116	1.72	5.3	32.13	C03	3	15.7
49.46	106	1.88	5.3	40.98	128	1.56	5.2	35.38	C03	3	15.7
39.96	131	1.52	5.1	33.11	159	1.26	4.7	43.79	C03	3	15.7
36.29	145	1.38	5.0	30.07	175	1.14	4.5	48.22	C03	3	15.7
30.09	175	1.15	5.0	24.93	211	0.95	(**)	58.17	C03	3	15.7
27.32	192	1.04	5.0	22.64	232	0.86	(**)	64.05	C03	3	15.7
22.46	234	0.86	(**)	18.61	282	0.71	(**)	77.90	C03	3	15.7
50.66	104	3.86	7.3	41.97	125	3.20	7.3	34.55	C05	2	20.0
46.05	114	3.51	7.3	38.16	138	2.91	7.3	38.00	C05	2	20.0
40.00	131	2.36	7.3	33.14	158	1.96	7.1	43.75	C05	2	20.0
36.36	144	2.35	7.2	30.13	174	1.95	7.0	48.13	C05	2	20.0
32.71	161	1.43	7.1	27.10	194	1.19	6.8	53.50	C05	2	20.0
29.74	177	1.42	7.0	24.64	213	1.17	6.6	58.85	C05	2	20.0
31.24	168	2.38	7.0	25.88	203	1.97	6.7	56.02	C05	3	20.0
28.40	185	2.16	6.9	23.53	223	1.79	6.5	61.63	C05	3	20.0
24.75	212	1.88	6.6	20.51	256	1.56	6.1	70.71	C05	3	20.0
22.50	233	1.71	6.4	18.64	282	1.42	5.7	77.79	C05	3	20.0
18.96	277	1.44	5.7	15.71	334	1.20	4.6	92.32	C05	3	20.0
17.23	305	1.31	5.2	14.28	368	1.09	3.5	101.55	C05	3	20.0
14.48	363	1.10	5.0	12.00	438	0.91	(**)	120.88	C05	3	20.0
13.16	399	1.00	5.0	10.90	482	0.83	(**)	132.97	C05	3	20.0
11.64	451	0.89	(**)	9.64	545	0.73	(**)	150.41	C05	3	20.0
31.81	165	2.36	10.9	26.36	199	1.96	10.8	55.02	C06	2	23.0
29.17	180	2.33	10.9	24.17	217	1.93	10.7	60.00	C06	2	23.0
26.04	202	2.98	10.8	21.58	243	2.47	10.6	67.19	C06	3	24.0
21.31	246	2.43	10.5	17.66	297	2.02	10.2	82.10	C06	3	24.0
19.54	269	2.23	10.4	16.19	324	1.85	10.0	89.54	C06	3	24.0
16.10	326	1.84	9.9	13.34	394	1.52	9.3	108.67	C06	3	24.0
14.77	356	1.69	9.7	12.24	429	1.40	8.9	118.51	C06	3	24.0
12.40	424	1.42	9.0	10.27	511	1.17	7.7	141.17	C06	3	24.0
11.37	462	1.30	8.4	9.42	558	1.08	6.9	153.96	C06	3	24.0
10.15	518	1.16	8.4	8.41	625	0.96	(**)	172.49	C06	3	24.0

PN = 0.55 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
9.30	565	1.06	8.4	7.71	681	0.88	(**)	188.11	C06	3	24.0
7.87	668	0.90	(**)	6.52	806	0.74	(**)	222.46	C06	3	24.0
22.33	235	3.49	13.5	18.50	284	2.89	13.5	78.39	C07	3	43.0
20.31	259	3.17	13.5	16.83	312	2.63	13.3	86.17	C07	3	43.0
18.41	285	2.87	13.5	15.25	344	2.38	13.2	95.06	C07	3	43.0
16.75	314	2.61	13.3	13.88	379	2.17	13.0	104.50	C07	3	43.0
14.00	375	2.19	13.0	11.60	453	1.81	12.5	124.97	C07	3	43.0
12.74	412	1.99	12.8	10.55	498	1.65	12.2	137.38	C07	3	43.0
10.84	484	1.69	12.3	8.99	585	1.40	11.4	161.38	C07	3	43.0
9.86	532	1.54	11.9	8.17	643	1.28	10.8	177.39	C07	3	43.0
8.90	590	1.39	11.3	7.37	712	1.15	9.9	196.68	C07	3	43.0
8.09	649	1.26	10.7	6.71	783	1.05	8.8	216.20	C07	3	43.0
6.91	760	1.08	10.7	5.72	918	0.89	(**)	253.30	C07	3	43.0
6.29	836	0.98	(**)	5.21	1009	0.81	(**)	278.44	C07	3	43.0
5.48	959	0.85	(**)	4.54	1158	0.71	(**)	319.60	C07	3	43.0
12.09	434	3.57	23.8	10.02	524	2.96	23.8	144.69	C08	3	67.0
9.33	563	2.75	23.7	7.73	679	2.28	23.3	187.48	C08	3	67.0
7.33	717	2.16	23.2	6.07	865	1.79	22.5	238.89	C08	3	67.0
6.14	855	1.81	22.6	5.09	1032	1.50	21.6	284.84	C08	3	67.0
4.74	1107	1.40	21.1	3.93	1336	1.16	21.0	368.94	C08	3	67.0

Note: (**) Upon request.

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
716.28	10	3.09	1.0	593.49	12	2.56	0.9	2.44	C00	2	15.8
493.99	14	2.41	1.0	409.30	17	2.00	0.9	3.54	C00	2	15.8
363.74	20	1.97	0.9	301.38	24	1.63	0.7	4.81	C00	2	15.8
285.19	25	1.95	1.0	236.30	30	1.62	0.5	6.14	C00	2	15.8
254.55	28	1.71	1.0	210.91	34	1.41	0.8	6.88	C00	2	15.8
214.11	33	1.34	0.4	177.40	40	1.11	0.1	8.17	C00	2	15.8
196.68	36	1.37	0.7	162.96	44	1.14	0.5	8.90	C00	2	15.8
175.55	41	1.23	0.7	145.45	49	1.02	0.4	9.97	C00	2	15.8
167.88	43	1.05	0.7	139.10	51	0.87	(**)	10.42	C00	2	15.8
144.82	49	1.01	0.6	119.99	60	0.84	(**)	12.08	C00	2	15.8
129.26	55	0.90	(**)	107.10	67	0.75	(**)	13.54	C00	2	15.8
414.87	17	3.82	2.1	343.75	21	3.16	2.1	4.22	C01	2	16.7
312.37	23	2.87	2.1	258.82	28	2.38	2.2	5.60	C01	2	16.7
237.65	30	2.82	2.3	196.91	36	2.34	2.4	7.36	C01	2	16.7
212.96	34	2.53	2.4	176.46	41	2.09	2.5	8.22	C01	2	16.7
182.22	39	1.68	2.5	150.98	47	1.39	2.5	9.60	C01	2	16.7
174.37	41	2.07	2.5	144.47	50	1.71	2.7	10.04	C01	2	16.7
156.25	46	1.85	2.6	129.46	55	1.54	2.7	11.20	C01	2	16.7
131.29	55	1.56	2.7	108.78	66	1.29	2.6	13.33	C01	2	16.7
117.65	61	1.40	2.8	97.48	73	1.16	2.5	14.88	C01	2	16.7
110.63	65	1.02	2.0	91.67	78	0.84	(**)	15.82	C01	2	16.7
98.02	73	1.16	2.0	81.22	88	0.96	(**)	17.85	C01	2	16.7
87.84	82	1.04	2.0	72.78	98	0.86	(**)	19.92	C01	2	16.7
76.58	94	0.91	(**)	63.46	113	0.75	(**)	22.85	C01	2	16.7
135.48	53	3.78	4.2	112.26	64	3.13	4.3	12.92	C03	2	18.0

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
112.75	64	3.15	4.2	93.42	77	2.61	4.3	15.52	C03	2	18.0
102.40	70	2.86	4.2	84.85	84	2.37	4.4	17.09	C03	2	18.0
90.02	80	2.51	4.4	74.59	96	2.08	4.6	19.44	C03	2	18.0
81.76	88	2.28	4.5	67.74	106	1.89	4.7	21.40	C03	2	18.0
69.53	103	1.94	4.7	57.61	124	1.61	4.9	25.17	C03	2	18.0
63.15	113	1.76	4.8	52.32	137	1.46	5.0	27.71	C03	2	18.0
55.25	130	1.54	4.9	45.78	156	1.28	4.8	31.67	C03	2	18.0
50.18	143	1.40	5.0	41.58	172	1.16	4.5	34.88	C03	2	18.0
44.93	159	1.07	5.0	37.23	192	0.88	(**)	38.95	C03	2	18.0
40.81	176	1.03	5.0	33.81	212	0.85	(**)	42.88	C03	2	18.0
54.46	132	1.52	4.9	45.13	159	1.26	4.8	32.13	C03	3	19.0
49.46	145	1.38	5.0	40.98	175	1.14	4.5	35.38	C03	3	19.0
39.96	179	1.12	5.0	33.11	216	0.92	(**)	43.79	C03	3	19.0
36.29	197	1.01	5.0	30.07	238	0.84	(**)	48.22	C03	3	19.0
65.33	110	3.65	7.3	54.13	132	3.02	7.3	26.79	C05	2	23.0
59.39	121	3.32	7.3	49.21	146	2.75	7.2	29.46	C05	2	23.0
50.66	141	2.83	7.3	41.97	171	2.34	7.0	34.55	C05	2	23.0
46.05	156	2.57	7.2	38.16	188	2.13	6.9	38.00	C05	2	23.0
40.00	179	1.73	7.0	33.14	216	1.43	6.6	43.75	C05	2	23.0
36.36	197	1.73	6.8	30.13	238	1.43	6.3	48.13	C05	2	23.0
32.71	219	1.05	6.8	27.10	264	0.87	(**)	53.50	C05	2	23.0
29.74	241	1.04	6.5	24.64	291	0.86	(**)	58.85	C05	2	23.0
39.13	183	2.19	6.9	32.42	221	1.81	6.5	44.73	C05	3	23.0
35.57	201	1.99	6.7	29.47	243	1.65	6.3	49.20	C05	3	23.0
31.24	229	1.74	6.4	25.88	277	1.45	5.8	56.02	C05	3	23.0
28.40	252	1.59	6.1	23.53	304	1.31	5.3	61.63	C05	3	23.0
24.75	289	1.38	5.5	20.51	349	1.15	4.2	70.71	C05	3	23.0
22.50	318	1.26	4.9	18.64	384	1.04	2.9	77.79	C05	3	23.0
18.96	378	1.06	4.0	15.71	456	0.88	(**)	92.32	C05	3	23.0
17.23	416	0.96	(**)	14.28	502	0.80	(**)	101.55	C05	3	23.0
47.40	151	3.97	10.7	39.27	182	3.29	10.7	36.92	C06	2	26.0
40.13	178	3.14	10.7	33.25	215	2.60	10.7	43.60	C06	2	26.0
36.80	195	3.08	10.7	30.49	235	2.55	10.6	47.55	C06	2	26.0
31.81	225	1.73	10.7	26.36	272	1.44	10.4	55.02	C06	2	26.0
29.17	246	1.71	10.5	24.17	296	1.42	10.2	60.00	C06	2	26.0
47.34	151	3.97	10.8	39.22	183	3.29	10.7	36.97	C06	3	27.0
43.41	165	3.64	10.8	35.97	199	3.01	10.7	40.32	C06	3	27.0
38.37	187	3.21	10.8	31.79	225	2.66	10.7	45.61	C06	3	27.0
35.18	204	2.95	10.8	29.15	246	2.44	10.5	49.74	C06	3	27.0
32.12	223	2.69	10.7	26.61	269	2.23	10.4	54.49	C06	3	27.0
29.45	243	2.47	10.5	24.40	294	2.04	10.2	59.42	C06	3	27.0
26.04	275	2.18	10.3	21.58	332	1.81	9.9	67.19	C06	3	27.0
21.31	336	1.79	9.9	17.66	406	1.48	9.2	82.10	C06	3	27.0
19.54	366	1.64	9.6	16.19	442	1.36	8.8	89.54	C06	3	27.0
16.10	445	1.35	8.7	13.34	537	1.12	7.3	108.67	C06	3	27.0
14.77	485	1.24	8.1	12.24	585	1.02	6.3	118.51	C06	3	27.0
12.40	578	1.04	8.0	10.27	697	0.86	(**)	141.17	C06	3	27.0
11.37	630	0.95	(**)	9.42	760	0.79	(**)	153.96	C06	3	27.0
32.03	224	3.67	13.5	26.54	270	3.04	13.5	54.63	C07	3	46.0

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
29.14	246	3.34	13.5	24.14	297	2.76	13.4	60.06	C07	3	46.0
27.22	263	3.12	13.4	22.55	318	2.58	13.3	64.30	C07	3	46.0
24.76	289	2.83	13.4	20.51	349	2.35	13.2	70.68	C07	3	46.0
22.33	321	2.56	13.3	18.50	387	2.12	13.0	78.39	C07	3	46.0
20.31	353	2.33	13.1	16.83	426	1.93	12.7	86.17	C07	3	46.0
18.41	389	2.11	12.9	15.25	470	1.75	12.4	95.06	C07	3	46.0
16.75	428	1.92	12.7	13.88	516	1.59	12.1	104.50	C07	3	46.0
14.00	511	1.60	12.1	11.60	617	1.33	11.1	124.97	C07	3	46.0
12.74	562	1.46	11.6	10.55	679	1.21	10.4	137.38	C07	3	46.0
10.84	660	1.24	10.6	8.99	797	1.03	8.6	161.38	C07	3	46.0
9.86	726	1.13	10.6	8.17	876	0.94	(**)	177.39	C07	3	46.0
8.90	805	1.02	10.2	7.37	972	0.84	(**)	196.68	C07	3	46.0
8.09	885	0.93	(**)	6.71	1068	0.77	(**)	216.20	C07	3	46.0
17.19	417	3.72	23.6	14.24	503	3.08	23.6	101.80	C08	3	70.0
14.62	490	3.16	23.6	12.12	591	2.62	23.6	119.68	C08	3	70.0
12.09	592	2.62	23.6	10.02	715	2.17	23.2	144.69	C08	3	70.0
9.33	767	2.02	23.0	7.73	926	1.67	22.2	187.48	C08	3	70.0
7.33	978	1.59	21.9	6.07	1180	1.31	21.5	238.89	C08	3	70.0
6.14	1166	1.33	20.8	5.09	1407	1.10	20.5	284.84	C08	3	70.0
4.74	1510	1.03	20.5	3.93	1822	0.85	(**)	368.94	C08	3	70.0

Note: (**) Upon request.

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
716.28	15	2.11	0.4	593.49	18	1.75	0.4	2.44	C00	2	17.0
493.99	21	1.65	0.4	409.30	26	1.36	0.4	3.54	C00	2	17.0
363.74	29	1.34	0.5	301.38	35	1.11	0.5	4.81	C00	2	17.0
285.19	37	1.33	0.5	236.30	44	1.10	0.5	6.14	C00	2	17.0
254.55	41	1.16	0.5	210.91	50	0.96	(**)	6.88	C00	2	17.0
214.11	49	0.92	(**)	177.40	59	0.76	(**)	8.17	C00	2	17.0
196.68	53	0.94	(**)	162.96	64	0.78	(**)	8.90	C00	2	17.0
565.45	19	3.55	1.9	468.52	22	2.94	1.8	3.09	C01	2	17.9
414.87	25	2.60	1.9	343.75	31	2.16	2.0	4.22	C01	2	17.9
312.37	34	1.96	2.0	258.82	41	1.62	2.1	5.60	C01	2	17.9
237.65	44	1.92	2.2	196.91	53	1.59	2.2	7.36	C01	2	17.9
212.96	49	1.72	2.3	176.46	60	1.43	2.1	8.22	C01	2	17.9
182.22	58	1.14	1.6	150.98	70	0.95	1.3	9.60	C01	2	17.9
174.37	60	1.41	2.1	144.47	73	1.17	1.8	10.04	C01	2	17.9
156.25	67	1.26	2.0	129.46	81	1.05	1.6	11.20	C01	2	17.9
131.29	80	1.06	1.8	108.78	97	0.88	(**)	13.33	C01	2	17.9
117.65	89	0.95	(**)	97.48	108	0.79	(**)	14.88	C01	2	17.9
196.29	54	3.74	3.7	162.64	65	3.10	3.7	8.92	C03	2	19.5
178.27	59	3.39	3.7	147.71	71	2.81	3.7	9.82	C03	2	19.5
149.18	70	2.84	3.7	123.61	85	2.35	3.8	11.73	C03	2	19.5
135.48	78	2.58	3.7	112.26	94	2.14	3.9	12.92	C03	2	19.5
112.75	93	2.15	3.9	93.42	112	1.78	4.1	15.52	C03	2	19.5
102.40	103	1.95	4.0	84.85	124	1.62	4.2	17.09	C03	2	19.5
90.02	117	1.71	4.1	74.59	141	1.42	4.3	19.44	C03	2	19.5
81.76	128	1.56	4.2	67.74	155	1.29	4.4	21.40	C03	2	19.5

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
69.53	151	1.32	4.3	57.61	182	1.10	4.4	25.17	C03	2	19.5
63.15	166	1.20	4.4	52.32	201	1.00	4.0	27.71	C03	2	19.5
55.25	190	1.05	(**)	45.78	229	0.87	(**)	31.67	C03	2	19.5
50.18	209	0.96	(**)	41.58	253	0.79	(**)	34.88	C03	2	19.5
54.46	193	1.04	(**)	45.13	233	0.86	(**)	32.13	C03	3	19.9
49.46	212	0.94	(**)	40.98	256	0.78	(**)	35.38	C03	3	19.9
103.70	101	3.95	7.3	85.93	122	3.27	7.3	16.88	C05	2	24.0
94.28	111	3.59	7.3	78.11	134	2.97	7.3	18.56	C05	2	24.0
79.82	132	3.04	7.3	66.14	159	2.52	7.2	21.92	C05	2	24.0
72.57	145	2.76	7.3	60.13	175	2.29	7.0	24.12	C05	2	24.0
65.33	161	2.49	7.1	54.13	194	2.06	6.9	26.79	C05	2	24.0
59.39	177	2.26	7.0	49.21	213	1.87	6.7	29.46	C05	2	24.0
50.66	207	1.93	6.7	41.97	250	1.60	6.2	34.55	C05	2	24.0
46.05	228	1.75	6.5	38.16	275	1.45	5.9	38.00	C05	2	24.0
40.00	263	1.18	6.1	33.14	317	0.98	(**)	43.75	C05	2	24.0
36.36	289	1.18	5.6	30.13	349	0.98	(**)	48.13	C05	2	24.0
39.13	268	1.49	6.0	32.42	324	1.23	5.0	44.73	C05	3	24.3
35.57	295	1.35	5.5	29.47	356	1.12	4.2	49.20	C05	3	24.3
31.24	336	1.19	4.7	25.88	406	0.99	(**)	56.02	C05	3	24.3
28.40	370	1.08	4.5	23.53	446	0.90	(**)	61.63	C05	3	24.3
24.75	424	0.94	(**)	20.51	512	0.78	(**)	70.71	C05	3	24.3
22.50	467	0.86	(**)	18.64	564	0.71	(**)	77.79	C05	3	24.3
62.99	167	3.60	10.8	52.20	201	2.98	10.8	27.78	C06	2	27.6
57.76	182	3.30	10.8	47.86	219	2.73	10.7	30.30	C06	2	27.6
51.69	203	2.95	10.8	42.83	245	2.45	10.6	33.86	C06	2	27.6
47.40	222	2.71	10.7	39.27	268	2.24	10.4	36.92	C06	2	27.6
40.13	262	2.14	10.5	33.25	316	1.77	10.1	43.60	C06	2	27.6
36.80	285	2.10	10.3	30.49	345	1.74	9.9	47.55	C06	2	27.6
31.81	330	1.18	10.0	26.36	399	0.98	(**)	55.02	C06	2	27.6
29.17	360	1.17	9.7	24.17	435	0.97	(**)	60.00	C06	2	27.6
47.34	222	2.70	10.7	39.22	268	2.24	10.0	36.97	C06	3	28.2
43.41	242	2.48	10.6	35.97	292	2.05	10.0	40.32	C06	3	28.2
38.37	274	2.19	10.4	31.79	330	1.82	10.0	45.61	C06	3	28.2
35.18	299	2.01	10.2	29.15	360	1.66	9.8	49.74	C06	3	28.2
32.12	327	1.83	10.0	26.61	395	1.52	9.4	54.49	C06	3	28.2
29.45	357	1.68	9.8	24.40	431	1.39	9.0	59.42	C06	3	28.2
26.04	403	1.49	9.3	21.58	487	1.23	8.3	67.19	C06	3	28.2
21.31	493	1.22	8.2	17.66	595	1.01	6.4	82.10	C06	3	28.2
19.54	537	1.12	8.0	16.19	649	0.92	(**)	89.54	C06	3	28.2
16.10	652	0.92	(**)	13.34	787	0.76	(**)	108.67	C06	3	28.2
49.12	214	3.41	13.6	40.70	258	2.83	13.3	35.63	C07	3	47.0
44.68	235	3.28	13.6	37.02	284	2.71	13.3	39.17	C07	3	47.0
38.96	270	2.97	13.6	32.28	325	2.46	13.3	44.92	C07	3	47.0
35.44	296	2.77	13.4	29.36	358	2.29	13.2	49.38	C07	3	47.0
32.03	328	2.50	13.3	26.54	396	2.07	13.0	54.63	C07	3	47.0
29.14	361	2.27	13.1	24.14	435	1.88	12.7	60.06	C07	3	47.0
27.22	386	2.12	13.0	22.55	466	1.76	12.5	64.30	C07	3	47.0
24.76	424	1.93	12.8	20.51	512	1.60	12.2	70.68	C07	3	47.0
22.33	471	1.74	12.5	18.50	568	1.44	11.7	78.39	C07	3	47.0

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
20.31	517	1.59	12.1	16.83	624	1.31	11.2	86.17	C07	3	47.0
18.41	571	1.44	11.7	15.25	689	1.19	10.5	95.06	C07	3	47.0
16.75	627	1.31	11.1	13.88	757	1.08	9.6	104.50	C07	3	47.0
14.00	750	1.09	10.0	11.60	905	0.91	(**)	124.97	C07	3	47.0
12.74	825	0.99	(**)	10.55	995	0.82	(**)	137.38	C07	3	47.0
23.49	447	3.47	23.8	19.46	540	2.87	23.8	74.50	C08	3	71.0
19.84	530	2.93	23.8	16.44	639	2.42	23.5	88.23	C08	3	71.0
17.19	611	2.54	23.6	14.24	738	2.10	23.2	101.80	C08	3	71.0
14.62	718	2.16	23.2	12.12	867	1.79	22.6	119.68	C08	3	71.0
12.09	869	1.78	22.6	10.02	1048	1.48	21.7	144.69	C08	3	71.0
9.33	1125	1.38	21.2	7.73	1358	1.14	19.6	187.48	C08	3	71.0
7.33	1434	1.08	21.0	6.07	1731	0.90	(**)	238.89	C08	3	71.0
6.14	1710	0.91	(**)	5.09	2064	0.75	(**)	284.84	C08	3	71.0
8.40	**1251**	**3.60**	**29.5**	**6.96**	**1509**	**2.98**	**29.5**	**208.33**	**C10**	**3**	**158.5**
7.10	**1479**	**3.04**	**29.5**	**5.88**	**1785**	**2.52**	**29.5**	**246.43**	**C10**	**3**	**158.5**

Note: (**) Upon request.

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
565.45	25	2.60	1.8	468.52	31	2.16	1.8	3.09	C01	2	20.8
414.87	35	1.91	1.8	343.75	42	1.58	1.6	4.22	C01	2	20.8
312.37	46	1.44	1.5	258.82	55	1.19	1.2	5.60	C01	2	20.8
237.65	60	1.41	1.6	196.91	73	1.17	1.3	7.36	C01	2	20.8
212.96	67	1.26	1.5	176.46	81	1.05	1.1	8.22	C01	2	20.8
174.37	82	1.03	1.0	144.47	99	0.86	(**)	10.04	C01	2	20.8
156.25	92	0.93	(**)	129.46	111	0.77	(**)	11.20	C01	2	20.8
408.96	35	3.71	3.3	338.85	42	3.08	3.2	4.28	C03	2	22.4
252.29	57	3.52	3.3	209.04	69	2.92	3.2	6.94	C03	2	22.4
229.13	63	3.20	3.3	189.85	75	2.65	3.3	7.64	C03	2	22.4
196.29	73	2.74	3.3	162.64	88	2.27	3.4	8.92	C03	2	22.4
178.27	80	2.49	3.4	147.71	97	2.06	3.5	9.82	C03	2	22.4
149.18	96	2.08	3.5	123.61	116	1.73	3.6	11.73	C03	2	22.4
135.48	106	1.89	3.6	112.26	128	1.57	3.7	12.92	C03	2	22.4
112.75	127	1.57	3.7	93.42	153	1.30	3.9	15.52	C03	2	22.4
102.40	140	1.43	3.8	84.85	169	1.18	3.9	17.09	C03	2	22.4
90.02	159	1.26	3.9	74.59	192	1.04	4.0	19.44	C03	2	22.4
81.76	175	1.14	3.5	67.74	211	0.95	(**)	21.40	C03	2	22.4
69.53	206	0.97	(**)	57.61	249	0.80	(**)	25.17	C03	2	22.4
63.15	227	0.88	(**)	52.32	274	0.73	(**)	27.71	C03	2	22.4
137.25	104	3.83	6.7	113.73	126	3.18	6.7	12.75	C05	2	26.9
124.78	115	3.48	6.7	103.39	139	2.89	6.7	14.03	C05	2	26.9
103.70	138	2.90	6.7	85.93	167	2.40	7.0	16.88	C05	2	26.9
94.28	152	2.63	6.9	78.11	183	2.18	7.0	18.56	C05	2	26.9
79.82	179	2.23	7.0	66.14	217	1.85	6.6	21.92	C05	2	26.9
72.57	197	2.03	6.8	60.13	238	1.68	6.4	24.12	C05	2	26.9
65.33	219	1.82	6.6	54.13	265	1.51	6.0	26.79	C05	2	26.9
59.39	241	1.66	6.3	49.21	291	1.37	5.6	29.46	C05	2	26.9
50.66	283	1.41	5.7	41.97	341	1.17	4.6	34.55	C05	2	26.9
46.05	311	1.29	5.2	38.16	375	1.07	3.6	38.00	C05	2	26.9

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
40.00	358	0.87	(**)	33.14	432	0.72	(**)	43.75	C05	2	26.9
36.36	394	0.86	(**)	30.13	475	0.72	(**)	48.13	C05	2	26.9
39.13	366	1.09	(**)	32.42	442	0.91	(**)	44.73	C05	3	27.2
35.57	403	0.99	(**)	29.47	486	0.82	(**)	49.20	C05	3	27.2
31.24	459	0.87	(**)	25.88	553	0.72	(**)	56.02	C05	3	27.2
81.34	176	3.41	10.0	67.40	213	2.82	9.8	21.51	C06	2	30.5
74.59	192	3.12	10.0	61.80	232	2.59	10.0	23.46	C06	2	30.5
62.99	227	2.64	10.0	52.20	274	2.19	10.4	27.78	C06	2	30.5
57.76	248	2.42	10.2	47.86	299	2.00	10.2	30.30	C06	2	30.5
51.69	277	2.16	10.4	42.83	334	1.79	10.0	33.86	C06	2	30.5
47.40	302	1.99	10.2	39.27	365	1.64	9.7	36.92	C06	2	30.5
40.13	357	1.57	9.8	33.25	431	1.30	9.0	43.60	C06	2	30.5
36.80	389	1.54	9.4	30.49	470	1.28	8.5	47.55	C06	2	30.5
31.81	450	0.87	(**)	26.36	544	0.72	(**)	55.02	C06	2	30.5
29.17	491	0.86	(**)	24.17	593	0.71	(**)	60.00	C06	2	30.5
47.34	303	1.98	10.2	39.22	365	1.64	8.8	36.97	C06	3	31.1
43.41	330	1.82	10.0	35.97	398	1.51	8.8	40.32	C06	3	31.1
38.37	373	1.61	9.6	31.79	451	1.33	8.8	45.61	C06	3	31.1
35.18	407	1.47	9.3	29.15	491	1.22	8.2	49.74	C06	3	31.1
32.12	446	1.35	8.8	26.61	538	1.11	7.5	54.49	C06	3	31.1
29.45	486	1.23	8.3	24.40	587	1.02	6.5	59.42	C06	3	31.1
26.04	550	1.09	8.2	21.58	664	0.90	(**)	67.19	C06	3	31.1
21.31	672	0.89	(**)	17.66	811	0.74	(**)	82.10	C06	3	31.1
81.60	176	3.87	13.5	67.61	212	3.21	13.5	21.45	C07	2	48.9
74.23	193	3.63	13.5	61.51	233	3.01	13.5	23.58	C07	2	48.9
62.98	227	3.25	13.5	52.18	275	2.70	13.5	27.79	C07	2	48.9
57.29	250	3.04	13.5	47.47	302	2.52	13.4	30.55	C07	2	48.9
49.12	292	2.50	13.5	40.70	352	2.07	12.7	35.63	C07	3	49.9
44.68	321	2.40	13.3	37.02	387	1.99	12.7	39.17	C07	3	49.9
38.96	368	2.18	13.1	32.28	444	1.80	12.7	44.92	C07	3	49.9
35.44	404	2.03	12.9	29.36	488	1.68	12.4	49.38	C07	3	49.9
32.03	447	1.83	12.6	26.54	540	1.52	12.0	54.63	C07	3	49.9
29.14	492	1.67	12.3	24.14	593	1.38	11.5	60.06	C07	3	49.9
27.22	526	1.56	12.0	22.55	635	1.29	11.1	64.30	C07	3	49.9
24.76	579	1.42	11.6	20.51	698	1.17	10.3	70.68	C07	3	49.9
22.33	642	1.28	10.9	18.50	774	1.06	9.3	78.39	C07	3	49.9
20.31	705	1.16	10.2	16.83	851	0.96	7.9	86.17	C07	3	49.9
18.41	778	1.05	10.0	15.25	939	0.87	(**)	95.06	C07	3	49.9
16.75	855	0.96	(**)	13.88	1032	0.79	(**)	104.50	C07	3	49.9
32.30	443	3.50	17.0	26.76	535	2.90	17.0	54.18	C08	2	72.9
28.51	502	3.09	17.0	23.63	606	2.56	17.0	61.37	C08	3	73.9
23.49	610	2.54	23.6	19.46	736	2.11	23.2	74.50	C08	3	73.9
19.84	722	2.15	23.2	16.44	872	1.78	22.6	88.23	C08	3	73.9
17.19	833	1.86	22.8	14.24	1006	1.54	21.9	101.80	C08	3	73.9
14.62	980	1.58	22.0	12.12	1182	1.31	20.9	119.68	C08	3	73.9
12.09	1184	1.31	20.8	10.02	1429	1.08	18.9	144.69	C08	3	73.9
9.33	1535	1.01	(**)	7.73	1852	0.84	(**)	187.48	C08	3	73.9
18.58	771	3.89	15.6	15.39	931	3.22	20.0	94.21	C09	3	120.0
17.18	834	3.60	15.9	14.24	1006	2.98	20.0	101.85	C09	3	120.0

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
16.42	873	3.44	16.1	13.60	1053	2.85	20.0	106.60	C09	3	120.0
14.72	973	3.08	16.4	12.20	1174	2.55	20.0	118.88	C09	3	120.0
12.85	1115	2.69	16.8	10.65	1345	2.23	20.0	136.18	C09	3	120.0
11.05	1297	2.31	12.8	9.15	1565	1.92	20.0	158.42	C09	3	120.0
9.34	1534	1.96	13.0	7.74	1851	1.62	20.0	187.34	C09	3	120.0
8.26	1735	1.73	18.0	6.84	2094	1.43	20.0	211.98	C09	3	120.0
12.67	1131	3.98	29.5	10.49	1365	3.30	29.5	138.17	C10	3	164.5
10.96	1307	3.44	29.5	9.08	1578	2.85	29.5	159.72	C10	3	164.5
9.70	1476	3.05	29.5	8.04	1782	2.53	29.5	180.35	C10	3	164.5
8.40	1705	2.64	29.5	6.96	2058	2.19	29.5	208.33	C10	3	164.5
7.10	2017	2.23	29.5	5.88	2435	1.85	29.5	246.43	C10	3	164.5

Note: (**) Upon request.

PN = 2.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
565.45	37	1.77	1.5	468.52	45	1.47	1.4	3.09	C01	2	24.2
414.87	51	1.30	1.5	343.75	61	1.08	1.4	4.22	C01	2	24.2
312.37	67	0.98	(**)	258.82	81	0.81	(**)	5.60	C01	2	24.2
237.65	88	0.96	(**)	196.91	107	0.80	(**)	7.36	C01	2	24.2
212.96	99	0.86	(**)	176.46	119	0.71	(**)	8.22	C01	2	24.2
523.94	40	3.24	2.6	434.12	48	2.69	2.5	3.34	C03	2	25.8
408.96	51	2.53	2.6	338.85	62	2.10	2.7	4.28	C03	2	25.8
323.22	65	3.08	2.8	267.81	78	2.55	2.9	5.41	C03	2	25.8
293.55	72	2.79	2.8	243.23	86	2.32	3.0	5.96	C03	2	25.8
252.29	83	2.40	2.9	209.04	101	1.99	3.0	6.94	C03	2	25.8
229.13	92	2.18	3.0	189.85	111	1.81	3.1	7.64	C03	2	25.8
196.29	107	1.87	3.1	162.64	129	1.55	3.2	8.92	C03	2	25.8
178.27	118	1.70	3.2	147.71	142	1.41	3.3	9.82	C03	2	25.8
149.18	141	1.42	3.3	123.61	170	1.18	3.3	11.73	C03	2	25.8
135.48	155	1.29	3.3	112.26	187	1.07	3.4	12.92	C03	2	25.8
112.75	186	1.07	3.0	93.42	225	0.89	(**)	15.52	C03	2	25.8
102.40	205	0.97	(**)	84.85	248	0.81	(**)	17.09	C03	2	25.8
90.02	233	0.86	(**)	74.59	282	0.71	(**)	19.44	C03	2	25.8
206.82	102	3.94	5.9	171.36	123	3.26	5.6	8.46	C05	2	30.3
188.02	112	3.58	5.9	155.79	135	2.97	5.8	9.31	C05	2	30.3
167.71	125	3.19	5.9	138.96	151	2.65	6.0	10.43	C05	2	30.3
152.46	138	2.90	5.9	126.33	166	2.41	6.1	11.48	C05	2	30.3
137.25	153	2.61	6.0	113.73	185	2.17	6.3	12.75	C05	2	30.3
124.78	168	2.38	6.2	103.39	203	1.97	6.5	14.03	C05	2	30.3
103.70	203	1.97	6.4	85.93	245	1.64	6.3	16.88	C05	2	30.3
94.28	223	1.79	6.5	78.11	269	1.49	5.9	18.56	C05	2	30.3
79.82	263	1.52	6.0	66.14	318	1.26	5.0	21.92	C05	2	30.3
72.57	290	1.38	5.6	60.13	349	1.14	4.3	24.12	C05	2	30.3
65.33	322	1.24	5.2	54.13	388	1.03	(**)	26.79	C05	2	30.3
59.39	354	1.13	5.0	49.21	427	0.94	(**)	29.46	C05	2	30.3
50.66	415	0.96	(**)	41.97	501	0.80	(**)	34.55	C05	2	30.3
46.05	456	0.88	(**)	38.16	551	0.73	(**)	38.00	C05	2	30.3
129.69	162	3.70	8.6	107.46	196	3.07	8.8	13.49	C06	2	33.9
106.94	196	3.05	8.6	88.61	237	2.53	8.8	16.36	C06	2	33.9

PN = 2.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
98.06	214	2.80	8.6	81.25	259	2.32	9.1	17.85	C06	2	33.9
81.34	258	2.32	9.0	67.40	312	1.92	9.5	21.51	C06	2	33.9
74.59	282	2.13	9.3	61.80	340	1.76	9.7	23.46	C06	2	33.9
62.99	334	1.80	9.7	52.20	403	1.49	9.3	27.78	C06	2	33.9
57.76	364	1.65	9.7	47.86	439	1.37	8.9	30.30	C06	2	33.9
51.69	406	1.48	9.4	42.83	491	1.22	8.9	33.86	C06	2	33.9
47.40	443	1.35	9.2	39.27	535	1.12	8.6	36.92	C06	2	33.9
40.13	523	1.07	9.0	33.25	632	0.89	(**)	43.60	C06	2	33.9
36.80	571	1.05	9.0	30.49	689	0.87	(**)	47.55	C06	2	33.9
47.34	444	1.35	8.8	39.22	536	1.12	8.0	36.97	C06	3	34.5
43.41	484	1.24	8.2	35.97	584	1.03	8.0	40.32	C06	3	34.5
38.37	548	1.10	8.0	31.79	661	0.91	(**)	45.61	C06	3	34.5
35.18	597	1.00	(**)	29.15	721	0.83	(**)	49.74	C06	3	34.5
32.12	654	0.92	(**)	26.61	790	0.76	(**)	54.49	C06	3	34.5
133.82	157	3.69	13.5	110.88	189	3.06	13.5	13.08	C07	2	52.3
121.74	173	3.48	13.5	100.87	208	2.88	13.5	14.38	C07	2	52.3
115.98	181	3.64	13.5	96.10	219	3.02	13.5	15.09	C07	2	52.3
105.51	199	3.36	13.5	87.42	240	2.79	13.5	16.59	C07	2	52.3
98.65	213	3.01	13.5	81.74	257	2.49	13.5	17.74	C07	2	52.3
89.74	234	2.82	13.5	74.36	283	2.34	13.5	19.50	C07	2	52.3
81.60	257	2.64	13.5	67.61	311	2.19	13.4	21.45	C07	2	52.3
74.23	283	2.47	13.5	61.51	342	2.05	13.2	23.58	C07	2	52.3
62.98	334	2.22	13.3	52.18	403	1.84	12.9	27.79	C07	2	52.3
57.29	367	2.07	13.1	47.47	443	1.72	12.6	30.55	C07	2	52.3
49.12	428	1.71	12.7	40.70	516	1.41	10.8	35.63	C07	3	53.3
44.68	470	1.64	12.4	37.02	568	1.36	10.8	39.17	C07	3	53.3
38.96	539	1.48	11.9	32.28	651	1.23	10.8	44.92	C07	3	53.3
35.44	593	1.38	11.4	29.36	715	1.15	10.0	49.38	C07	3	53.3
32.03	656	1.25	10.7	26.54	792	1.04	8.8	54.63	C07	3	53.3
29.14	721	1.14	10.5	24.14	870	0.94	(**)	60.06	C07	3	53.3
27.22	772	1.06	10.0	22.55	932	0.88	(**)	64.30	C07	3	53.3
24.76	849	0.97	(**)	20.51	1024	0.80	(**)	70.68	C07	3	53.3
22.33	941	0.87	(**)	18.50	1136	0.72	(**)	78.39	C07	3	53.3
62.54	336	3.87	19.9	51.82	405	3.21	20.0	27.98	C08	2	76.3
52.89	397	3.62	19.9	43.82	479	3.00	20.0	33.09	C08	2	76.3
46.74	449	3.34	19.9	38.73	542	2.76	20.0	37.44	C08	2	76.3
40.81	515	3.01	19.9	33.82	621	2.49	20.3	42.88	C08	2	76.3
32.30	650	2.38	20.5	26.76	785	1.97	17.0	54.18	C08	2	76.3
28.51	737	2.10	20.4	23.63	889	1.74	17.0	61.37	C08	3	77.3
23.49	894	1.73	20.3	19.46	1080	1.44	20.1	74.50	C08	3	77.3
19.84	1059	1.46	20.3	16.44	1278	1.21	19.5	88.23	C08	3	77.3
17.19	1222	1.27	19.4	14.24	1475	1.05	17.0	101.80	C08	3	77.3
14.62	1437	1.08	17.0	12.12	1734	0.89	(**)	119.68	C08	3	77.3
12.09	1737	0.89	(**)	10.02	2097	0.74	(**)	144.69	C08	3	77.3
25.56	822	3.65	13.6	21.17	992	3.02	20.0	68.48	C09	3	122.0
21.97	956	3.14	14.0	18.20	1154	2.60	20.0	79.66	C09	3	122.0
18.58	1131	2.65	14.4	15.39	1365	2.20	20.0	94.21	C09	3	122.0
17.18	1223	2.45	14.5	14.24	1476	2.03	20.0	101.85	C09	3	122.0
16.42	1280	2.34	14.6	13.60	1545	1.94	20.0	106.60	C09	3	122.0

PN = 2.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
14.72	1427	2.10	14.8	12.20	1723	1.74	20.0	118.88	C09	3	122.0
12.85	1635	1.83	15.0	10.65	1973	1.52	20.0	136.18	C09	3	122.0
11.05	1902	1.58	15.2	9.15	2296	1.31	20.0	158.42	C09	3	122.0
9.34	2249	1.33	15.2	7.74	2715	1.11	20.0	187.34	C09	3	122.0
8.26	2545	1.18	15.1	6.84	3072	0.98	(**)	211.98	C09	3	122.0
16.96	1238	3.63	29.5	14.06	1495	3.01	29.5	103.15	C10	3	166.5
14.34	1465	3.07	29.5	11.88	1768	2.55	29.5	122.02	C10	3	166.5
12.67	1659	2.71	29.5	10.49	2002	2.25	29.5	138.17	C10	3	166.5
10.96	1918	2.35	29.5	9.08	2314	1.94	29.5	159.72	C10	3	166.5
9.70	2165	2.08	29.5	8.04	2613	1.72	29.5	180.35	C10	3	166.5
8.40	2501	1.80	29.5	6.96	3019	1.49	29.5	208.33	C10	3	166.5
7.10	2959	1.52	29.5	5.88	3571	1.26	29.5	246.43	C10	3	166.5

Note: (**) Upon request.

PN = 3.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
523.94	55	2.38	2.5	434.12	66	1.97	2.4	3.34	C03	2	36
408.96	70	1.86	2.5	338.85	85	1.54	2.5	4.28	C03	2	36
323.22	89	2.26	2.6	267.81	107	1.87	2.7	5.41	C03	2	36
293.55	98	2.05	2.7	243.23	118	1.70	2.8	5.96	C03	2	36
252.29	114	1.76	2.7	209.04	137	1.46	2.8	6.94	C03	2	36
229.13	125	1.60	2.8	189.85	151	1.33	2.9	7.64	C03	2	36
196.29	146	1.37	2.9	162.64	176	1.14	2.9	8.92	C03	2	36
178.27	161	1.24	2.9	147.71	194	1.03	2.9	9.82	C03	2	36
149.18	192	1.04	(**)	123.61	232	0.86	(**)	11.73	C03	2	36
135.48	211	0.95	(**)	112.26	255	0.78	(**)	12.92	C03	2	36
370.59	77	3.49	4.4	307.06	93	2.89	4.7	4.72	C05	2	41
277.13	103	3.87	4.8	229.62	125	3.21	5.1	6.31	C05	2	41
247.06	116	3.45	5.0	204.71	140	2.86	5.2	7.08	C05	2	41
206.82	139	2.89	5.2	171.36	167	2.39	5.5	8.46	C05	2	41
188.02	152	2.63	5.3	155.79	184	2.18	5.6	9.31	C05	2	41
167.71	171	2.34	5.5	138.96	206	1.94	5.7	10.43	C05	2	41
152.46	188	2.13	5.6	126.33	227	1.76	5.9	11.48	C05	2	41
137.25	209	1.92	5.7	113.73	252	1.59	6.0	12.75	C05	2	41
124.78	230	1.74	5.9	103.39	277	1.44	5.8	14.03	C05	2	41
103.70	276	1.45	5.8	85.93	333	1.20	4.7	16.88	C05	2	41
94.28	304	1.32	5.3	78.11	367	1.09	3.8	18.56	C05	2	41
79.82	359	1.11	5.1	66.14	433	0.92	(**)	21.92	C05	2	41
72.57	395	1.01	5.0	60.13	476	0.84	(**)	24.12	C05	2	41
65.33	439	0.91	(**)	54.13	529	0.76	(**)	26.79	C05	2	41
186.08	154	3.90	7.7	154.18	186	3.23	7.6	9.40	C06	2	44
170.63	168	3.57	7.7	141.38	203	2.96	7.6	10.26	C06	2	44
158.10	181	3.31	7.7	131.00	219	2.74	7.7	11.07	C06	2	44
144.98	198	3.04	7.5	120.12	239	2.52	7.9	12.07	C06	2	44
129.69	221	2.72	7.7	107.46	267	2.25	8.1	13.49	C06	2	44
106.94	268	2.24	8.1	88.61	323	1.86	8.5	16.36	C06	2	44
98.06	292	2.05	8.3	81.25	353	1.70	8.7	17.85	C06	2	44
81.34	352	1.70	8.7	67.40	425	1.41	9.1	21.51	C06	2	44
74.59	384	1.56	8.9	61.80	464	1.29	8.6	23.46	C06	2	44

PN = 3.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
62.99	455	1.32	8.7	52.20	549	1.09	7.2	27.78	C06	2	44
57.76	496	1.21	8.1	47.86	599	1.00	6.2	30.30	C06	2	44
51.69	554	1.08	8.0	42.83	669	0.90	(**)	33.86	C06	2	44
47.40	604	0.99	(**)	39.27	730	0.82	(**)	36.92	C06	2	44
192.37	149	3.76	13.5	159.39	180	3.12	12.9	9.10	C07	2	63
175.00	164	3.54	13.5	145.00	198	2.94	12.9	10.00	C07	2	63
158.48	181	3.32	13.5	131.31	218	2.75	12.9	11.04	C07	2	63
144.16	199	3.07	13.5	119.45	240	2.54	12.9	12.14	C07	2	63
133.82	214	2.71	13.5	110.88	258	2.24	13.3	13.08	C07	2	63
121.74	235	2.55	13.5	100.87	284	2.11	13.5	14.38	C07	2	63
115.98	247	2.67	13.5	96.10	298	2.21	13.4	15.09	C07	2	63
105.51	272	2.47	13.5	87.42	328	2.04	13.3	16.59	C07	2	63
98.65	290	2.20	13.5	81.74	351	1.83	13.2	17.74	C07	2	63
89.74	319	2.07	13.3	74.36	385	1.71	13.0	19.50	C07	2	63
81.60	351	1.94	13.2	67.61	424	1.60	12.8	21.45	C07	2	63
74.23	386	1.81	13.0	61.51	466	1.50	12.5	23.58	C07	2	63
62.98	455	1.63	12.6	52.18	549	1.35	11.8	27.79	C07	2	63
57.29	500	1.52	12.2	47.47	604	1.26	11.3	30.55	C07	2	63
49.12	583	1.25	11.5	40.70	704	1.04	10.2	35.63	C07	3	64
44.68	641	1.20	10.9	37.02	774	0.99	9.2	39.17	C07	3	64
38.96	735	1.09	10.5	32.28	888	0.90	(**)	44.92	C07	3	64
35.44	808	1.01	(**)	29.36	976	0.84	(**)	49.38	C07	3	64
32.03	894	0.92	(**)	26.54	1079	0.76	(**)	54.63	C07	3	64
83.35	344	3.61	17.2	69.06	415	2.99	17.2	21.00	C08	2	87
72.76	394	3.23	17.2	60.29	475	2.67	17.2	24.05	C08	2	87
62.54	458	2.84	17.2	51.82	553	2.35	17.4	27.98	C08	2	87
52.89	542	2.66	17.2	43.82	654	2.20	17.4	33.09	C08	2	87
46.74	613	2.45	17.4	38.73	740	2.03	17.5	37.44	C08	2	87
40.81	702	2.21	17.3	33.82	847	1.83	17.0	42.88	C08	2	87
32.30	887	1.75	17.1	26.76	1070	1.45	17.0	54.18	C08	2	87
28.51	1005	1.54	16.9	23.63	1213	1.28	17.0	61.37	C08	3	88
23.49	1220	1.27	16.1	19.46	1472	1.05	15.0	74.50	C08	3	88
19.84	1444	1.07	16.0	16.44	1743	0.89	(**)	88.23	C08	3	88
17.19	1667	0.93	(**)	14.24	2011	0.77	(**)	101.80	C08	3	88
34.17	838	3.58	12.0	28.31	1012	2.96	20.0	51.22	C09	3	130
29.27	979	3.07	12.3	24.26	1181	2.54	20.0	59.78	C09	3	130
25.56	1121	2.68	12.6	21.17	1353	2.22	20.0	68.48	C09	3	130
21.97	1304	2.30	12.8	18.20	1574	1.91	20.0	79.66	C09	3	130
18.58	1542	1.95	13.0	15.39	1861	1.61	20.0	94.21	C09	3	130
17.18	1667	1.80	13.0	14.24	2012	1.49	20.0	101.85	C09	3	130
16.42	1745	1.72	13.0	13.60	2106	1.42	20.0	106.60	C09	3	130
14.72	1946	1.54	13.0	12.20	2349	1.28	20.0	118.88	C09	3	130
12.85	2229	1.35	13.0	10.65	2691	1.11	20.0	136.18	C09	3	130
11.05	2594	1.16	12.7	9.15	3130	0.96	20.0	158.42	C09	3	130
9.34	3067	0.98	12.3	7.74	3702	0.81	20.0	187.34	C09	3	130
8.26	3470	0.86	(**)	6.84	4188	0.72	20.0	211.98	C09	3	130
22.13	1295	3.48	29.5	18.33	1563	2.88	29.5	79.08	C10	3	175
19.60	1462	3.08	29.5	16.24	1764	2.55	29.5	89.30	C10	3	175
16.96	1689	2.66	29.5	14.06	2038	2.21	29.5	103.15	C10	3	175

PN = 3.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
14.34	1998	2.25	29.5	11.88	2411	1.87	29.5	122.02	C10	3	175
12.67	2262	1.99	29.5	10.49	2730	1.65	29.5	138.17	C10	3	175
10.96	2615	1.72	29.5	9.08	3156	1.43	29.5	159.72	C10	3	175
9.70	2953	1.52	29.5	8.04	3563	1.26	29.5	180.35	C10	3	175
8.40	3411	1.32	29.5	6.96	4116	1.09	29.5	208.33	C10	3	175
7.10	4034	1.12	29.5	5.88	4869	0.92	29.5	246.43	C10	3	175

Note: (**) Upon request.

PN = 3.70 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
523.94	67	1.93	0.9	434.12	81	1.60	1.0	3.34	C03	2	37
408.96	86	1.50	0.9	338.85	104	1.25	1.0	4.28	C03	2	37
323.22	109	1.83	0.9	267.81	132	1.52	1.0	5.41	C03	2	37
293.55	120	1.66	0.9	243.23	145	1.38	1.0	5.96	C03	2	37
252.29	140	1.43	0.9	209.04	169	1.18	0.9	6.94	C03	2	37
229.13	154	1.30	1.7	189.85	186	1.07	1.6	7.64	C03	2	37
196.29	180	1.11	1.7	162.64	217	0.92	(**)	8.92	C03	2	37
178.27	198	1.01	(**)	147.71	239	0.84	(**)	9.82	C03	2	37
457.26	77	3.49	1.9	378.87	93	2.90	1.9	3.83	C05	2	41
370.59	95	2.83	1.9	307.06	115	2.35	1.9	4.72	C05	2	41
304.84	116	3.45	1.8	252.58	140	2.86	1.8	5.74	C05	2	41
277.13	128	3.14	1.8	229.62	154	2.60	1.8	6.31	C05	2	41
247.06	143	2.80	1.8	204.71	173	2.32	1.8	7.08	C05	2	41
206.82	171	2.34	2.0	171.36	206	1.94	2.0	8.46	C05	2	41
188.02	188	2.13	3.1	155.79	227	1.76	3.1	9.31	C05	2	41
167.71	211	1.90	3.3	138.96	254	1.57	3.3	10.43	C05	2	41
152.46	232	1.73	3.4	126.33	280	1.43	3.3	11.48	C05	2	41
137.25	257	1.55	3.6	113.73	311	1.29	3.6	12.75	C05	2	41
124.78	283	1.41	3.7	103.39	342	1.17	3.6	14.03	C05	2	41
103.70	341	1.17	3.9	85.93	411	0.97	(**)	16.88	C05	2	41
94.28	375	1.07	(**)	78.11	452	0.88	(**)	18.56	C05	2	41
79.82	443	0.90	(**)	66.14	534	0.75	(**)	21.92	C05	2	41
306.25	115	3.29	5.4	253.75	139	2.73	5.4	5.71	C06	2	45
226.31	156	3.84	5.8	187.51	188	3.18	5.7	7.73	C06	2	45
207.52	170	3.52	5.9	171.94	206	2.92	5.8	8.43	C06	2	45
186.08	190	3.16	6.3	154.18	229	2.62	6.3	9.40	C06	2	45
170.63	207	2.90	7.0	141.38	250	2.40	7.0	10.26	C06	2	45
158.10	223	2.68	7.2	131.00	270	2.22	7.2	11.07	C06	2	45
144.98	244	2.46	7.4	120.12	294	2.04	7.3	12.07	C06	2	45
129.69	272	2.20	7.6	107.46	329	1.82	7.5	13.49	C06	2	45
106.94	330	1.82	7.9	88.61	399	1.50	8.0	16.36	C06	2	45
98.06	360	1.67	8.1	81.25	435	1.38	8.0	17.85	C06	2	45
81.34	434	1.38	8.0	67.40	524	1.14	8.0	21.51	C06	2	45
74.59	474	1.27	8.0	61.80	572	1.05	8.0	23.46	C06	2	45
62.99	561	1.07	8.0	52.20	677	0.89	(**)	27.78	C06	2	45
57.76	612	0.98	(**)	47.86	738	0.81	(**)	30.30	C06	2	45
51.69	684	0.88	(**)	42.83	825	0.73	(**)	33.86	C06	2	45
229.51	154	3.64	9.4	190.16	186	3.01	10.0	7.63	C07	2	63
198.91	178	3.32	9.8	164.81	214	2.75	11.0	8.80	C07	2	63

PN = 3.70 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
192.37	184	3.05	10.0	159.39	222	2.53	10.6	9.10	C07	2	63
175.00	202	2.87	10.3	145.00	244	2.38	11.0	10.00	C07	2	63
158.48	223	2.69	10.6	131.31	269	2.23	11.0	11.04	C07	2	63
144.16	245	2.49	10.9	119.45	296	2.06	11.0	12.14	C07	2	63
133.82	264	2.20	11.0	110.88	319	1.82	11.0	13.08	C07	2	63
121.74	290	2.07	11.0	100.87	350	1.71	11.0	14.38	C07	2	63
115.98	305	2.17	11.0	96.10	368	1.79	11.0	15.09	C07	2	63
105.51	335	2.00	11.0	87.42	404	1.66	11.0	16.59	C07	2	63
98.65	358	1.79	11.0	81.74	432	1.48	11.0	17.74	C07	2	63
89.74	394	1.68	11.0	74.36	475	1.39	11.0	19.50	C07	2	63
81.60	433	1.57	11.0	67.61	523	1.30	11.0	21.45	C07	2	63
74.23	476	1.47	11.0	61.51	574	1.22	11.0	23.58	C07	2	63
62.98	561	1.32	11.0	52.18	677	1.09	11.0	27.79	C07	2	63
57.29	617	1.23	11.0	47.47	744	1.02	10.6	30.55	C07	2	63
49.12	719	1.01	(**)	40.70	868	0.84	(**)	35.63	C07	3	64
44.68	791	0.97	(**)	37.02	954	0.81	(**)	39.17	C07	3	64
38.96	907	0.88	(**)	32.28	1095	0.73	(**)	44.92	C07	3	64
114.30	309	3.62	16.2	94.71	373	3.00	16.6	15.31	C08	2	87
97.28	363	3.25	16.5	80.60	438	2.69	16.9	17.99	C08	2	87
83.35	424	2.92	16.8	69.06	512	2.42	17.0	21.00	C08	2	87
72.76	486	2.62	17.0	60.29	586	2.17	17.0	24.05	C08	2	87
62.54	565	2.30	17.0	51.82	682	1.91	17.0	27.98	C08	2	87
52.89	668	2.16	17.0	43.82	806	1.79	17.0	33.09	C08	2	87
46.74	756	1.98	17.0	38.73	912	1.64	16.7	37.44	C08	2	87
40.81	866	1.79	16.9	33.82	1045	1.48	16.3	42.88	C08	2	87
32.30	1094	1.42	16.1	26.76	1320	1.17	15.0	54.18	C08	2	87
28.51	1239	1.25	15.4	23.63	1496	1.04	14.0	61.37	C08	3	88
23.49	1504	1.03	(**)	19.46	1816	0.85	(**)	74.50	C08	3	88
19.84	1781	0.87	(**)	16.44	2150	0.72	(**)	88.23	C08	3	88
77.50	456	3.71	20.0	64.21	550	3.08	20.0	22.58	C09	2	133
44.19	800	3.71	20.0	36.62	965	3.08	20.0	39.60	C09	2	133
34.17	1034	2.90	11.4	28.31	1248	2.40	20.0	51.22	C09	3	135
29.27	1207	2.49	11.5	24.26	1457	2.06	20.0	59.78	C09	3	135
25.56	1383	2.17	11.7	21.17	1669	1.80	20.0	68.48	C09	3	135
21.97	1609	1.87	11.7	18.20	1941	1.55	20.0	79.66	C09	3	135
18.58	1902	1.58	11.7	15.39	2296	1.31	20.0	94.21	C09	3	135
17.18	2057	1.46	11.6	14.24	2482	1.21	20.0	101.85	C09	3	135
16.42	2152	1.39	11.6	13.60	2598	1.15	20.0	106.60	C09	3	135
14.72	2400	1.25	11.4	12.20	2897	1.04	(**)	118.88	C09	3	135
12.85	2750	1.09	11.1	10.65	3319	0.90	(**)	136.18	C09	3	135
11.05	3199	0.94	(**)	9.15	3861	0.78	(**)	158.42	C09	3	135
25.58	1381	3.26	29.5	21.19	1667	2.70	29.5	68.41	C10	3	180
22.13	1597	2.82	29.5	18.33	1927	2.33	29.5	79.08	C10	3	180
19.60	1803	2.50	29.5	16.24	2176	2.07	29.5	89.30	C10	3	180
16.96	2083	2.16	29.5	14.06	2514	1.79	29.5	103.15	C10	3	180
14.34	2464	1.83	29.5	11.88	2973	1.51	29.5	122.02	C10	3	180
12.67	2790	1.61	29.5	10.49	3367	1.34	29.5	138.17	C10	3	180
10.96	3225	1.40	29.5	9.08	3892	1.16	29.5	159.72	C10	3	180
9.70	3641	1.24	29.5	8.04	4395	1.02	(**)	180.35	C10	3	180

PN = 3.70 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
8.40	4207	1.07	(**)	6.96	5077	0.89	(**)	208.33	C10	3	180
7.10	4976	0.90	(**)	5.88	6005	0.75	(**)	246.43	C10	3	180

Note: (**) Upon request.

PN = 4.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
457.26	94	2.87	1.5	378.87	113	2.38	1.8	3.83	C05	2	46
370.59	116	2.33	1.9	307.06	140	1.93	1.8	4.72	C05	2	46
304.84	141	2.84	1.8	252.58	170	2.35	1.7	5.74	C05	2	46
277.13	155	2.58	1.7	229.62	187	2.14	1.7	6.31	C05	2	46
247.06	174	2.30	1.9	204.71	210	1.91	1.9	7.08	C05	2	46
206.82	208	1.93	2.0	171.36	251	1.60	2.0	8.46	C05	2	46
188.02	229	1.75	3.2	155.79	276	1.45	3.2	9.31	C05	2	46
167.71	256	1.56	3.4	138.96	309	1.29	3.4	10.43	C05	2	46
152.46	282	1.42	3.5	126.33	340	1.18	3.4	11.48	C05	2	46
137.25	313	1.28	3.5	113.73	378	1.06	(**)	12.75	C05	2	46
124.78	344	1.16	3.6	103.39	416	0.96	(**)	14.03	C05	2	46
103.70	414	0.97	(**)	85.93	500	0.80	(**)	16.88	C05	2	46
94.28	456	0.88	(**)	78.11	550	0.73	(**)	18.56	C05	2	46
372.47	115	3.29	5.5	308.61	139	2.73	5.5	4.70	C06	2	50
306.25	140	2.71	5.8	253.75	169	2.24	5.8	5.71	C06	2	50
285.32	151	3.98	6.0	236.41	182	3.30	6.0	6.13	C06	2	50
226.31	190	3.16	6.4	187.51	229	2.62	6.4	7.73	C06	2	50
207.52	207	2.90	6.6	171.94	250	2.40	6.6	8.43	C06	2	50
186.08	231	2.60	6.7	154.18	279	2.15	6.7	9.40	C06	2	50
170.63	252	2.38	6.9	141.38	304	1.97	6.9	10.26	C06	2	50
158.10	272	2.21	7.0	131.00	328	1.83	7.0	11.07	C06	2	50
144.98	296	2.02	7.2	120.12	358	1.68	7.2	12.07	C06	2	50
129.69	331	1.81	7.3	107.46	400	1.50	7.3	13.49	C06	2	50
106.94	402	1.49	7.3	88.61	485	1.24	7.2	16.36	C06	2	50
98.06	438	1.37	7.3	81.25	529	1.13	7.2	17.85	C06	2	50
81.34	528	1.14	7.3	67.40	638	0.94	(**)	21.51	C06	2	50
74.59	576	1.04	(**)	61.80	695	0.86	(**)	23.46	C06	2	50
62.99	682	0.88	(**)	52.20	823	0.73	(**)	27.78	C06	2	50
329.92	130	3.84	8.4	273.36	157	3.18	8.8	5.30	C07	2	75
271.79	158	3.35	8.9	225.19	191	2.78	10.1	6.44	C07	2	75
229.51	187	2.99	10.1	190.16	226	2.48	10.3	7.63	C07	2	75
198.91	216	2.73	10.2	164.81	261	2.26	10.3	8.80	C07	2	75
192.37	223	2.51	10.7	159.39	270	2.08	10.9	9.10	C07	2	75
175.00	246	2.36	10.9	145.00	296	1.96	10.9	10.00	C07	2	75
158.48	271	2.21	10.9	131.31	327	1.83	10.9	11.04	C07	2	75
144.16	298	2.05	11.0	119.45	360	1.70	10.9	12.14	C07	2	75
133.82	321	1.81	10.9	110.88	388	1.50	10.9	13.08	C07	2	75
121.74	353	1.70	11.0	100.87	426	1.41	10.8	14.38	C07	2	75
115.98	371	1.78	10.9	96.10	447	1.48	10.7	15.09	C07	2	75
105.51	407	1.64	10.9	87.42	492	1.36	10.6	16.59	C07	2	75
98.65	436	1.47	10.8	81.74	526	1.22	10.4	17.74	C07	2	75
89.74	479	1.38	10.8	74.36	578	1.14	10.2	19.50	C07	2	75
81.60	527	1.29	10.4	67.61	636	1.07	9.8	21.45	C07	2	75

PN = 4.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
74.23	579	1.21	10.3	61.51	699	1.00	9.5	23.58	C07	2	75
168.75	255	3.85	14.1	139.82	307	3.19	14.4	10.37	C08	2	99
161.69	266	3.80	14.5	133.97	321	3.15	14.9	10.82	C08	2	99
136.26	315	3.30	14.9	112.90	381	2.73	15.3	12.84	C08	2	99
114.30	376	2.98	15.2	94.71	454	2.47	15.5	15.31	C08	2	99
97.28	442	2.67	15.5	80.60	533	2.21	15.6	17.99	C08	2	99
83.35	516	2.40	15.6	69.06	622	1.99	15.6	21.00	C08	2	99
72.76	591	2.15	15.6	60.29	713	1.78	15.5	24.05	C08	2	99
62.54	687	1.89	15.5	51.82	829	1.57	15.2	27.98	C08	2	99
52.89	813	1.77	15.2	43.82	981	1.47	14.6	33.09	C08	2	99
28.51	1507	1.03	(**)	23.63	1819	0.85	(**)	61.37	C08	3	100
91.67	469	3.64	20.0	75.95	566	3.02	20.0	19.09	C09	2	139
77.50	555	3.05	20.0	64.21	669	2.53	20.0	22.58	C09	2	139
52.27	822	3.64	20.0	43.31	992	3.02	20.0	33.48	C09	2	139
44.19	972	3.05	20.0	36.62	1174	2.53	20.0	39.60	C09	2	139
40.15	1070	2.80	10.4	33.26	1292	2.32	20.0	43.59	C09	3	141
35.43	1213	2.47	10.5	29.36	1464	2.05	20.0	49.39	C09	3	141
34.17	1258	2.39	10.6	28.31	1518	1.98	20.0	51.22	C09	3	141
29.27	1468	2.04	10.6	24.26	1772	1.69	20.0	59.78	C09	3	141
25.56	1682	1.78	10.6	21.17	2030	1.48	20.0	68.48	C09	3	141
21.97	1956	1.53	10.5	18.20	2361	1.27	20.0	79.66	C09	3	141
20.19	2129	1.41	10.4	16.73	2569	1.17	20.0	86.68	C09	3	141
18.58	2313	1.30	10.3	15.39	2792	1.07	20.0	94.21	C09	3	141
17.82	2412	1.24	10.2	14.76	2911	1.03	(**)	98.21	C09	3	141
17.18	2501	1.20	10.1	14.24	3019	0.99	(**)	101.85	C09	3	141
14.72	2919	1.03	(**)	12.20	3523	0.85	(**)	118.88	C09	3	141
12.85	3344	0.90	(**)	10.65	4036	0.74	(**)	136.18	C09	3	141
30.06	1429	3.15	29.5	24.91	1725	2.61	29.5	58.21	C10	3	186
26.53	1620	2.78	29.5	21.98	1955	2.30	29.5	65.97	C10	3	186
25.58	1680	2.68	29.5	21.19	2028	2.22	29.5	68.41	C10	3	186
22.13	1942	2.32	29.5	18.33	2344	1.92	29.5	79.08	C10	3	186
19.60	2193	2.05	29.5	16.24	2647	1.70	29.5	89.30	C10	3	186
16.96	2533	1.78	29.5	14.06	3057	1.47	29.5	103.15	C10	3	186
14.89	2887	1.56	29.5	12.33	3484	1.29	29.5	117.56	C10	3	186
14.34	2996	1.50	29.5	11.88	3616	1.24	29.5	122.02	C10	3	186
13.13	3272	1.38	29.5	10.88	3949	1.14	29.5	133.24	C10	3	186
12.67	3393	1.33	29.5	10.49	4095	1.10	29.5	138.17	C10	3	186
10.96	3922	1.15	29.5	9.08	4734	0.95	(**)	159.72	C10	3	186
9.70	4429	1.02	(**)	8.04	5345	0.84	(**)	180.35	C10	3	186
8.40	5116	0.88	(**)	6.96	6175	0.73	(**)	208.33	C10	3	186

Note: (**) Upon request.

PN = 5.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
457.26	115	2.35	3.9	378.87	139	1.95	4.1	3.83	C05	2	50
370.59	142	1.90	4.1	307.06	171	1.58	4.3	4.72	C05	2	50
304.84	172	2.32	4.3	252.58	208	1.92	4.5	5.74	C05	2	50
277.13	190	2.11	4.4	229.62	229	1.75	4.6	6.31	C05	2	50

PN = 5.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
247.06	213	1.88	4.5	204.71	257	1.56	4.7	7.08	C05	2	50
206.82	254	1.58	4.7	171.36	307	1.31	4.8	8.46	C05	2	50
188.02	279	1.43	4.8	155.79	337	1.19	4.8	9.31	C05	2	50
167.71	313	1.28	4.9	138.96	378	1.06	3.6	10.43	C05	2	50
152.46	345	1.16	4.5	126.33	416	0.96	(**)	11.48	C05	2	50
137.25	383	1.05	(**)	113.73	462	0.87	(**)	12.75	C05	2	50
124.78	421	0.95	(**)	103.39	508	0.79	(**)	14.03	C05	2	50
469.58	112	3.40	5.1	389.08	135	2.81	5.4	3.73	C06	2	54
372.47	141	2.69	5.4	308.61	170	2.23	5.7	4.70	C06	2	54
306.25	172	2.22	5.7	253.75	207	1.84	6.0	5.71	C06	2	54
285.32	184	3.26	5.9	236.41	222	2.70	5.9	6.13	C06	2	54
226.31	232	2.59	6.2	187.51	280	2.14	6.5	7.73	C06	2	54
207.52	253	2.37	6.4	171.94	305	1.96	6.7	8.43	C06	2	54
186.08	282	2.13	6.5	154.18	341	1.76	6.8	9.40	C06	2	54
170.63	308	1.95	6.7	141.38	372	1.61	6.9	10.26	C06	2	54
158.10	332	1.81	6.8	131.00	401	1.50	7.1	11.07	C06	2	54
144.98	362	1.66	6.9	120.12	437	1.37	7.2	12.07	C06	2	54
129.69	405	1.48	7.1	107.46	489	1.23	7.3	13.49	C06	2	54
106.94	491	1.22	7.3	88.61	593	1.01	(**)	16.36	C06	2	54
98.06	536	1.12	7.3	81.25	646	0.93	(**)	17.85	C06	2	54
81.34	646	0.93	(**)	67.40	779	0.77	(**)	21.51	C06	2	54
74.59	704	0.85	(**)	61.80	850	0.71	(**)	23.46	C06	2	54
329.92	159	3.14	8.3	273.36	192	2.60	9.2	5.30	C07	2	77
271.79	193	2.74	9.2	225.19	233	2.27	9.3	6.44	C07	2	77
229.51	229	2.45	9.3	190.16	276	2.03	9.3	7.63	C07	2	77
198.91	264	2.23	9.3	164.81	319	1.85	9.2	8.80	C07	2	77
192.37	273	2.05	9.9	159.39	330	1.70	9.9	9.10	C07	2	77
175.00	300	1.93	10.0	145.00	362	1.60	9.8	10.00	C07	2	77
158.48	331	1.81	9.9	131.31	400	1.50	9.7	11.04	C07	2	77
144.16	364	1.67	9.9	119.45	440	1.39	9.6	12.14	C07	2	77
133.82	392	1.48	9.7	110.88	474	1.22	9.4	13.08	C07	2	77
121.74	431	1.39	9.7	100.87	521	1.15	9.2	14.38	C07	2	77
115.98	453	1.46	9.5	96.10	547	1.21	9.1	15.09	C07	2	77
105.51	498	1.35	9.5	87.42	601	1.12	8.8	16.59	C07	2	77
98.65	532	1.20	9.1	81.74	643	1.00	8.5	17.74	C07	2	77
89.74	585	1.13	9.0	74.36	706	0.93	(**)	19.50	C07	2	77
81.60	644	1.06	(**)	67.61	777	0.88	(**)	21.45	C07	2	77
74.23	708	0.99	(**)	61.51	854	0.82	(**)	23.58	C07	2	77
236.36	222	3.96	13.0	195.84	268	3.28	13.2	7.40	C08	2	101
198.28	265	3.51	13.0	164.29	320	2.91	13.2	8.83	C08	2	101
168.75	311	3.15	13.2	139.82	376	2.61	13.4	10.37	C08	2	101
161.69	325	3.11	13.7	133.97	392	2.58	14.0	10.82	C08	2	101
136.26	385	2.70	14.0	112.90	465	2.24	12.9	12.84	C08	2	101
114.30	460	2.44	14.1	94.71	555	2.02	14.1	15.31	C08	2	101
97.28	540	2.19	14.1	80.60	652	1.81	14.0	17.99	C08	2	101
83.35	630	1.97	14.0	69.06	761	1.63	13.7	21.00	C08	2	101
72.76	722	1.76	13.8	60.29	871	1.46	13.3	24.05	C08	2	101
62.54	840	1.55	13.4	51.82	1014	1.28	12.6	27.98	C08	2	101
52.89	993	1.45	12.7	43.82	1199	1.20	11.6	33.09	C08	2	101

PN = 5.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
143.33	366	4.00	20.0	118.76	442	3.31	20.0	12.21	C09	2	141
105.89	496	3.43	20.0	87.74	599	2.84	20.0	16.53	C09	2	141
91.67	573	2.98	20.0	75.95	692	2.47	20.0	19.09	C09	2	141
81.73	643	4.00	20.0	67.72	776	3.31	20.0	21.41	C09	2	141
77.50	678	2.50	20.0	64.21	818	2.07	20.0	22.58	C09	2	141
68.18	770	3.89	20.0	56.49	930	3.23	20.0	25.67	C09	2	141
60.38	870	3.43	20.0	50.03	1050	2.84	20.0	28.98	C09	2	141
52.27	1005	2.98	20.0	43.31	1213	2.47	20.0	33.48	C09	2	141
44.19	1189	2.50	20.0	36.62	1434	2.07	20.0	39.60	C09	2	141
40.15	1308	2.29	9.6	33.26	1579	1.90	20.0	43.59	C09	3	143
35.43	1482	2.02	9.6	29.36	1789	1.68	20.0	49.39	C09	3	143
34.17	1537	1.95	9.6	28.31	1855	1.62	20.0	51.22	C09	3	143
29.27	1794	1.67	9.5	24.26	2165	1.39	20.0	59.78	C09	3	143
25.56	2055	1.46	9.3	21.17	2481	1.21	20.0	68.48	C09	3	143
21.97	2391	1.25	9.0	18.20	2886	1.04	20.0	79.66	C09	3	143
20.19	2602	1.15	8.8	16.73	3140	0.96	(**)	86.68	C09	3	143
18.58	2828	1.06	8.5	15.39	3413	0.88	(**)	94.21	C09	3	143
17.82	2948	1.02	(**)	14.76	3558	0.84	(**)	98.21	C09	3	143
17.18	3057	0.98	(**)	14.24	3689	0.81	(**)	101.85	C09	3	143
123.51	425	4.00	25.4	102.33	513	3.31	26.9	14.17	C10	2	181
91.31	575	3.73	27.9	75.66	694	3.09	29.5	19.17	C10	2	181
71.71	732	4.00	29.5	59.41	884	3.31	29.5	24.40	C10	2	181
53.01	991	3.73	29.5	43.93	1196	3.09	29.5	33.01	C10	2	181
30.06	1747	2.58	29.5	24.91	2109	2.13	29.5	58.21	C10	3	188
26.53	1980	2.27	29.5	21.98	2390	1.88	29.5	65.97	C10	3	188
25.58	2053	2.19	29.5	21.19	2478	1.82	29.5	68.41	C10	3	188
22.13	2374	1.90	29.5	18.33	2865	1.57	29.5	79.08	C10	3	188
19.60	2680	1.68	29.5	16.24	3235	1.39	29.5	89.30	C10	3	188
16.96	3096	1.45	29.5	14.06	3737	1.20	29.5	103.15	C10	3	188
14.89	3528	1.28	29.5	12.33	4258	1.06	29.5	117.56	C10	3	188
14.34	3662	1.23	29.5	11.88	4420	1.02	(**)	122.02	C10	3	188
13.13	3999	1.13	29.5	10.88	4826	0.93	(**)	133.24	C10	3	188
12.67	4147	1.09	29.5	10.49	5005	0.90	(**)	138.17	C10	3	188
10.96	4794	0.94	(**)	9.08	5786	0.78	(**)	159.72	C10	3	188

Note: (**) Upon request.

PN = 7.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
457.26	157	1.7 2	3.7	378.87	189	1.43	3.8	3.83	C05	2	69
370.59	193	1.40	3.9	307.06	233	1.16	4.0	4.72	C05	2	69
304.84	235	1.70	4.1	252.58	284	1.41	4.2	5.74	C05	2	69
277.13	258	1.55	4.1	229.62	312	1.28	4.3	6.31	C05	2	69
247.06	290	1.38	(**)	204.71	350	1.14	(**)	7.08	C05	2	69
206.82	346	1.16	3.7	171.36	418	0.96	(**)	8.46	C05	2	69
188.02	381	1.05	(**)	155.79	460	0.87	(**)	9.31	C05	2	69
167.71	427	0.94	(**)	138.96	515	0.78	(**)	10.43	C05	2	69
152.46	470	0.85	(**)	126.33	567	0.71	(**)	11.48	C05	2	69
469.58	153	2.49	4.9	389.08	184	2.06	5.5	3.73	C06	2	73
372.47	192	1.98	5.2	308.61	232	1.64	5.5	4.70	C06	2	73

PN = 7.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
306.25	234	1.62	5.5	253.75	282	1.35	5.7	5.71	C06	2	73
285.32	251	2.39	5.6	236.41	303	1.98	5.9	6.13	C06	2	73
226.31	316	1.90	5.9	187.51	382	1.57	6.2	7.73	C06	2	73
207.52	345	1.74	6.1	171.94	417	1.44	6.3	8.43	C06	2	73
186.08	385	1.56	6.2	154.18	465	1.29	6.4	9.40	C06	2	73
170.63	420	1.43	6.3	141.38	507	1.18	6.5	10.26	C06	2	73
158.10	453	1.32	6.4	131.00	547	1.10	6.6	11.07	C06	2	73
144.98	494	1.21	6.5	120.12	596	1.01	6.5	12.07	C06	2	73
129.69	552	1.09	6.5	107.46	667	0.90	(**)	13.49	C06	2	73
106.94	670	0.90	(**)	88.61	808	0.74	(**)	16.36	C06	2	73
329.92	217	2.30	8.0	273.36	262	1.91	7.9	5.30	C07	2	103
271.79	264	2.01	7.9	225.19	318	1.67	7.8	6.44	C07	2	103
229.51	312	1.79	7.8	190.16	377	1.49	7.5	7.63	C07	2	103
198.91	360	1.64	7.6	164.81	435	1.36	7.1	8.80	C07	2	103
192.37	372	1.50	8.2	159.39	449	1.25	7.9	9.10	C07	2	103
175.00	409	1.42	8.2	145.00	494	1.17	7.6	10.00	C07	2	103
158.48	452	1.33	7.9	131.31	545	1.10	7.3	11.04	C07	2	103
144.16	497	1.23	7.8	119.45	600	1.02	6.9	12.14	C07	2	103
133.82	535	1.08	7.4	110.88	646	0.90	(**)	13.08	C07	2	103
121.74	588	1.02	(**)	100.87	710	0.84	(**)	14.38	C07	2	103
115.98	618	1.07	6.8	96.10	745	0.89	(**)	15.09	C07	2	103
105.51	679	0.99	(**)	87.42	819	0.82	(**)	16.59	C07	2	103
98.65	726	0.88	(**)	81.74	876	0.73	(**)	17.74	C07	2	103
342.11	209	3.68	11.0	283.46	253	3.05	11.0	5.12	C08	2	127
280.49	255	3.25	11.0	232.40	308	2.69	11.0	6.24	C08	2	127
236.36	303	2.90	11.4	195.84	366	2.41	11.5	7.40	C08	2	127
198.28	361	2.57	11.5	164.29	436	2.13	11.5	8.83	C08	2	127
197.21	363	2.62	12.0	163.41	438	2.17	12.1	8.87	C08	2	127
168.75	424	2.31	11.5	139.82	512	1.91	11.3	10.37	C08	2	127
161.69	443	2.28	12.1	133.97	535	1.89	12.0	10.82	C08	2	127
136.26	526	1.98	12.0	112.90	634	1.64	11.8	12.84	C08	2	127
114.30	627	1.79	11.8	94.71	756	1.48	11.3	15.31	C08	2	127
97.28	736	1.60	11.4	80.60	889	1.33	10.7	17.99	C08	2	127
83.35	859	1.44	10.9	69.06	1037	1.20	9.9	21.00	C08	2	127
72.76	984	1.29	10.2	60.29	1188	1.07	8.9	24.05	C08	2	127
62.54	1145	1.14	9.2	51.82	1382	0.94	(**)	27.98	C08	2	127
143.33	500	2.93	20.0	118.76	603	2.43	20.0	12.21	C09	2	167
138.21	518	3.51	19.6	114.52	625	2.91	20.0	12.66	C09	2	167
119.57	599	3.04	20.0	99.07	723	2.52	20.0	14.64	C09	2	167
105.89	676	2.51	20.0	87.74	816	2.08	20.0	16.53	C09	2	167
92.64	773	3.88	20.0	76.75	933	3.21	20.0	18.89	C09	2	167
91.67	781	2.18	20.0	75.95	943	1.81	20.0	19.09	C09	2	167
81.73	876	2.93	20.0	67.72	1058	2.43	20.0	21.41	C09	2	167
78.82	909	3.30	20.0	65.30	1097	2.74	20.0	22.20	C09	2	167
68.18	1051	2.86	20.0	56.49	1268	2.37	20.0	25.67	C09	2	167
60.38	1186	2.51	20.0	50.03	1432	2.08	20.0	28.98	C09	2	167
52.27	1370	2.18	20.0	43.31	1654	1.81	20.0	33.48	C09	2	167
69.27	1034	2.90	20.0	57.39	1248	2.40	20.0	25.26	C09	3	169
56.79	1261	2.38	20.0	47.06	1522	1.97	20.0	30.81	C09	3	169
47.86	1497	2.00	8.2	39.65	1806	1.66	20.0	36.57	C09	3	169
40.15	1784	1.68	8.0	33.26	2153	1.39	20.0	43.59	C09	3	169
35.43	2021	1.48	20.0	29.36	2440	1.23	20.0	49.39	C09	3	169
34.83	2056	1.46	20.0	28.86	2482	1.21	20.0	50.24	C09	3	169

PN = 7.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
34.17	2096	1.43	7.6	28.31	2530	1.19	20.0	51.22	C09	3	169
29.27	2447	1.23	7.2	24.26	2953	1.02	18.7	59.78	C09	3	169
28.56	2508	1.20	7.1	23.66	3027	0.99	(**)	61.28	C09	3	169
25.56	2803	1.07	6.7	21.17	3383	0.89	(**)	68.48	C09	3	169
24.07	2976	1.01	(**)	19.94	3592	0.84	(**)	72.72	C09	3	169
21.97	3261	0.92	(**)	18.20	3935	0.76	(**)	79.66	C09	3	169
123.51	580	2.93	25.1	102.33	700	2.43	26.6	14.17	C10	2	207
103.38	693	3.89	26.5	85.66	836	3.23	28.1	16.93	C10	2	207
91.31	784	2.74	27.6	75.66	947	2.27	29.2	19.17	C10	2	207
71.71	999	2.93	29.5	59.41	1206	2.43	29.5	24.40	C10	2	207
60.02	1193	3.77	29.5	49.73	1440	3.12	29.5	29.16	C10	2	207
53.01	1351	2.74	29.5	43.93	1631	2.27	29.5	33.01	C10	2	207
48.82	1467	3.07	29.5	40.45	1771	2.54	29.5	35.85	C10	3	214
40.95	1749	2.57	29.5	33.93	2111	2.13	29.5	42.74	C10	3	214
35.33	2027	2.22	29.5	29.27	2447	1.84	29.5	49.54	C10	3	214
30.06	2382	1.89	29.5	24.91	2875	1.57	29.5	58.21	C10	3	214
26.53	2700	1.67	29.5	21.98	3259	1.38	29.5	65.97	C10	3	214
25.58	2800	1.61	29.5	21.19	3379	1.33	29.5	68.41	C10	3	214
24.17	2963	1.52	29.5	20.03	3576	1.26	29.5	72.40	C10	3	214
22.13	3237	1.39	29.5	18.33	3906	1.15	29.5	79.08	C10	3	214
20.28	3533	1.27	29.5	16.80	4263	1.06	29.5	86.31	C10	3	214
19.60	3655	1.23	29.5	16.24	4411	1.02	(**)	89.30	C10	3	214
17.49	4095	1.10	29.5	14.49	4942	0.91	(**)	100.05	C10	3	214
16.96	4222	1.07	29.5	14.06	5095	0.88	(**)	103.15	C10	3	214
14.89	4812	0.94	(**)	12.33	5807	0.77	(**)	117.56	C10	3	214
102.94	696	2.93	55.0	85.29	840	2.43	55.0	17.00	C13	2	296
86.55	828	3.66	55.0	71.71	999	3.04	55.0	20.22	C13	2	296
58.61	1222	2.93	55.0	48.56	1475	2.43	55.0	29.86	C13	2	296
49.28	1453	3.66	55.0	40.83	1754	3.04	55.0	35.51	C13	2	296
35.09	2041	3.92	55.0	29.08	2463	3.25	55.0	49.87	C13	3	307
30.31	2363	3.39	55.0	25.11	2852	2.80	55.0	57.74	C13	3	307
25.94	2761	2.90	55.0	21.49	3333	2.40	55.0	67.47	C13	3	307
23.24	3082	2.60	55.0	19.26	3720	2.15	55.0	75.30	C13	3	307
22.41	3196	2.50	55.0	18.57	3857	2.07	55.0	78.09	C13	3	307
20.63	3472	2.30	55.0	17.09	4190	1.91	55.0	84.82	C13	3	307
19.45	3682	2.17	55.0	16.12	4444	1.80	55.0	89.96	C13	3	307
17.45	4106	1.95	55.0	14.46	4955	1.61	55.0	100.31	C13	3	307
15.07	4753	1.68	55.0	12.48	5737	1.39	55.0	116.14	C13	3	307
12.89	5555	1.44	55.0	10.68	6704	1.19	55.0	135.71	C13	3	307
11.55	6199	1.29	55.0	9.57	7482	1.07	55.0	151.47	C13	3	307
11.14	6429	1.24	55.0	9.23	7759	1.03	(**)	157.08	C13	3	307
9.67	7406	1.08	55.0	8.01	8938	0.90	(**)	180.95	C13	3	307

Note: (**) Upon request.

PN = 9.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
457.26	192	1.41	1.9	378.87	232	1.16	1.8	3.83	C05	2	73
370.59	237	1.14	1.9	307.06	286	0.94	(**)	4.72	C05	2	73
304.84	288	1.39	1.9	252.58	348	1.15	1.8	5.74	C05	2	73
277.13	317	1.26	1.8	229.62	383	1.05	1.8	6.31	C05	2	73
247.06	356	1.12	1.9	204.71	429	0.93	(**)	7.08	C05	2	73
206.82	425	0.94	(**)	171.36	513	0.78	(**)	8.46	C05	2	73

PN = 9.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
188.02	467	0.86	(**)	155.79	564	0.71	(**)	9.31	C05	2	73
469.58	187	2.03	4.8	389.08	226	1.68	5.3	3.73	C06	2	77
372.47	236	1.61	5.1	308.61	285	1.33	5.3	4.70	C06	2	77
306.25	287	1.32	5.3	253.75	346	1.10	5.5	5.71	C06	2	77
285.32	308	1.95	5.4	236.41	372	1.61	5.4	6.13	C06	2	77
226.31	388	1.55	5.7	187.51	469	1.28	5.9	7.73	C06	2	77
207.52	423	1.42	5.8	171.94	511	1.17	6.0	8.43	C06	2	77
186.08	472	1.27	5.9	154.18	570	1.05	6.0	9.40	C06	2	77
170.63	515	1.17	6.0	141.38	621	0.97	(**)	10.26	C06	2	77
158.10	556	1.08	5.8	131.00	671	0.89	(**)	11.07	C06	2	77
144.98	606	0.99	(**)	120.12	731	0.82	(**)	12.07	C06	2	77
129.69	677	0.89	(**)	107.46	818	0.73	(**)	13.49	C06	2	77
329.92	266	1.88	7.1	273.36	321	1.56	6.8	5.30	C07	2	109
271.79	323	1.64	6.8	225.19	390	1.36	6.4	6.44	C07	2	109
229.51	383	1.46	6.5	190.16	462	1.21	5.9	7.63	C07	2	109
198.91	442	1.34	6.0	164.81	533	1.11	5.3	8.80	C07	2	109
192.37	457	1.23	6.8	159.39	551	1.02	6.2	9.10	C07	2	109
175.00	502	1.16	6.7	145.00	606	0.96	(**)	10.00	C07	2	109
158.48	554	1.08	6.2	131.31	669	0.90	(**)	11.04	C07	2	109
144.16	609	1.00	5.9	119.45	736	0.83	(**)	12.14	C07	2	109
133.82	657	0.88	(**)	110.88	792	0.73	(**)	13.08	C07	2	109
115.98	758	0.87	(**)	96.10	914	0.72	(**)	15.09	C07	2	109
342.11	257	3.00	10.0	283.46	310	2.48	10.0	5.12	C08	2	133
280.49	313	2.65	10.0	232.40	378	2.20	10.0	6.24	C08	2	133
236.36	372	2.37	10.4	195.84	449	1.96	10.3	7.40	C08	2	133
198.28	443	2.10	10.3	164.29	535	1.74	10.0	8.83	C08	2	133
197.21	446	2.13	10.9	163.41	538	1.77	10.7	8.87	C08	2	133
168.75	521	1.88	10.0	139.82	628	1.56	9.6	10.37	C08	2	133
161.69	543	1.86	10.7	133.97	656	1.54	10.3	10.82	C08	2	133
136.26	645	1.61	10.4	112.90	778	1.34	9.8	12.84	C08	2	133
114.30	769	1.46	9.9	94.71	928	1.21	9.0	15.31	C08	2	133
97.28	903	1.31	9.1	80.60	1090	1.08	8.0	17.99	C08	2	133
83.35	1054	1.18	8.2	69.06	1272	0.97	(**)	21.00	C08	2	133
72.76	1208	1.05	(**)	60.29	1457	0.87	(**)	24.05	C08	2	133
62.54	1405	0.93	(**)	51.82	1695	0.77	(**)	27.98	C08	2	133
190.88	460	3.95	17.6	158.16	556	3.27	19.7	9.17	C09	2	173
162.45	541	3.36	18.5	134.60	653	2.79	20.0	10.77	C09	2	173
143.33	613	2.39	19.0	118.76	740	1.98	19.0	12.21	C09	2	173
138.21	636	2.86	20.0	114.52	767	2.37	20.0	12.66	C09	2	173
119.57	735	2.48	20.0	99.07	887	2.05	20.0	14.64	C09	2	173
108.85	807	3.72	20.0	90.19	974	3.08	20.0	16.08	C09	2	173
105.89	830	2.05	20.0	87.74	1001	1.70	20.0	16.53	C09	2	173
92.64	948	3.16	20.0	76.75	1145	2.62	20.0	18.89	C09	2	173
91.67	958	1.78	20.0	75.95	1157	1.47	20.0	19.09	C09	2	173
81.73	1075	2.39	20.0	67.72	1297	1.98	20.0	21.41	C09	2	173
78.82	1115	2.69	20.0	65.30	1345	2.23	20.0	22.20	C09	2	173
68.18	1289	2.33	20.0	56.49	1555	1.93	20.0	25.67	C09	2	173
60.38	1455	2.05	20.0	50.03	1756	1.70	20.0	28.98	C09	2	173
52.27	1681	1.78	20.0	43.31	2029	1.47	19.5	33.48	C09	2	173

PN = 9.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
69.27	1268	2.37	19.0	57.39	1531	1.96	19.5	25.26	C09	3	175
56.79	1547	1.94	7.2	47.06	1867	1.61	20.0	30.81	C09	3	175
47.86	1836	1.63	7.0	39.65	2216	1.35	18.8	36.57	C09	3	175
40.15	2188	1.37	6.5	33.26	2641	1.14	17.0	43.59	C09	3	175
35.43	2480	1.21	6.5	29.36	2993	1.00	(**)	49.39	C09	3	175
34.83	2522	1.19	6.3	28.86	3044	0.99	(**)	50.24	C09	3	175
34.17	2571	1.17	6.0	28.31	3103	0.97	(**)	51.22	C09	3	175
29.27	3001	1.00	(**)	24.26	3622	0.83	(**)	59.78	C09	3	175
28.56	3076	0.98	(**)	23.66	3713	0.81	(**)	61.28	C09	3	175
25.56	3438	0.87	(**)	21.17	4149	0.72	(**)	68.48	C09	3	175
123.51	711	2.39	24.9	102.33	859	1.98	26.4	14.17	C10	2	213
119.10	738	3.66	25.2	98.68	890	3.03	26.7	14.69	C10	2	213
103.38	850	3.17	26.3	85.66	1026	2.63	27.8	16.93	C10	2	213
91.31	962	2.23	27.3	75.66	1161	1.85	28.8	19.17	C10	2	213
71.71	1225	2.39	29.5	59.41	1479	1.98	29.5	24.40	C10	2	213
69.15	1271	3.54	29.5	57.29	1534	2.93	29.5	25.31	C10	2	213
60.02	1464	3.07	29.5	49.73	1767	2.55	29.5	29.16	C10	2	213
53.01	1657	2.23	29.5	43.93	2000	1.85	29.5	33.01	C10	2	213
48.82	1800	2.50	29.5	40.45	2172	2.07	29.5	35.85	C10	3	220
40.95	2146	2.10	29.5	33.93	2589	1.74	29.5	42.74	C10	3	220
35.33	2487	1.81	29.5	29.27	3002	1.50	29.5	49.54	C10	3	220
30.06	2922	1.54	29.5	24.91	3527	1.28	29.5	58.21	C10	3	220
26.53	3312	1.36	29.5	21.98	3997	1.13	29.5	65.97	C10	3	220
25.58	3435	1.31	29.5	21.19	4145	1.09	29.5	68.41	C10	3	220
24.17	3635	1.24	29.5	20.03	4387	1.03	29.5	72.40	C10	3	220
22.13	3970	1.13	29.5	18.33	4792	0.94	(**)	79.08	C10	3	220
20.28	4333	1.04	29.5	16.80	5230	0.86	(**)	86.31	C10	3	220
19.60	4483	1.00	29.5	16.24	5411	0.83	(**)	89.30	C10	3	220
17.49	5023	0.90	(**)	14.49	6062	0.74	(**)	100.05	C10	3	220
16.96	5179	0.87	(**)	14.06	6250	0.72	(**)	103.15	C10	3	220
102.94	853	2.39	50.0	85.29	1030	1.98	50.0	17.00	C13	2	302
86.55	1015	2.99	50.0	71.71	1225	2.47	50.0	20.22	C13	2	302
58.61	1499	2.39	55.0	48.56	1809	1.98	55.0	29.86	C13	2	302
49.28	1783	2.99	55.0	40.83	2152	2.47	55.0	35.51	C13	2	302
41.50	2117	3.78	55.0	34.39	2555	3.13	55.0	42.17	C13	3	313
35.09	2504	3.20	55.0	29.08	3022	2.65	55.0	49.87	C13	3	313
30.31	2899	2.76	55.0	25.11	3499	2.29	55.0	57.74	C13	3	313
25.94	3387	2.36	55.0	21.49	4088	1.96	55.0	67.47	C13	3	313
23.24	3781	2.12	55.0	19.26	4563	1.75	55.0	75.30	C13	3	313
22.41	3921	2.04	55.0	18.57	4732	1.69	55.0	78.09	C13	3	313
20.63	4259	1.88	55.0	17.09	5140	1.56	55.0	84.82	C13	3	313
19.45	4516	1.77	55.0	16.12	5451	1.47	55.0	89.96	C13	3	313
17.45	5036	1.59	55.0	14.46	6078	1.32	55.0	100.31	C13	3	313
15.07	5831	1.37	55.0	12.48	7037	1.14	55.0	116.14	C13	3	313
12.89	6814	1.17	55.0	10.68	8223	0.97	(**)	135.71	C13	3	313
11.55	7605	1.05	55.0	9.57	9178	0.87	(**)	151.47	C13	3	313
11.14	7886	1.01	55.0	9.23	9518	0.84	(**)	157.08	C13	3	313
9.67	9085	0.88	(**)	8.01	10964	0.73	(**)	180.95	C13	3	313

Note: (**) Upon request.

PN = 11.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
329.92	318	1.57	6.1	273.36	384	1.30	5.7	5.30	C07	2	113
271.79	387	1.37	5.7	225.19	466	1.14	5.0	6.44	C07	2	113
229.51	458	1.22	5.1	190.16	552	1.01	4.2	7.63	C07	2	113
198.91	528	1.12	4.4	164.81	637	0.93	(**)	8.80	C07	2	113
192.37	546	1.03	5.3	159.39	659	0.85	(**)	9.10	C07	2	113
175.00	600	0.97	(**)	145.00	724	0.80	(**)	10.00	C07	2	113
158.48	663	0.91	(**)	131.31	800	0.75	(**)	11.04	C07	2	113
342.11	307	2.51	8.7	283.46	371	2.08	8.6	5.12	C08	2	137
280.49	375	2.22	9.5	232.40	452	1.84	9.3	6.24	C08	2	137
236.36	444	1.98	9.3	195.84	536	1.64	8.9	7.40	C08	2	137
198.28	530	1.76	9.0	164.29	639	1.45	8.4	8.83	C08	2	137
197.21	533	1.78	8.8	163.41	643	1.48	8.4	8.87	C08	2	137
168.75	623	1.57	8.5	139.82	751	1.30	7.7	10.37	C08	2	137
161.69	650	1.55	9.3	133.97	784	1.29	8.6	10.82	C08	2	137
136.26	771	1.35	8.7	112.90	930	1.12	7.7	12.84	C08	2	137
114.30	919	1.22	7.8	94.71	1109	1.01	6.5	15.31	C08	2	137
97.28	1080	1.09	6.7	80.60	1303	0.91	(**)	17.99	C08	2	137
83.35	1260	0.98	(**)	69.06	1521	0.82	(**)	21.00	C08	2	137
72.76	1444	0.88	(**)	60.29	1743	0.73	(**)	24.05	C08	2	137
221.26	475	3.83	16.7	183.33	573	3.17	18.2	7.91	C09	2	177
190.88	550	3.31	18.8	158.16	664	2.74	18.4	9.17	C09	2	177
162.45	647	2.81	19.2	134.60	780	2.33	18.6	10.77	C09	2	177
143.33	733	2.00	19.3	118.76	885	1.66	18.5	12.21	C09	2	177
138.21	760	2.39	19.5	114.52	917	1.98	18.5	12.66	C09	2	177
126.18	833	3.60	19.6	104.55	1005	2.99	19.6	13.87	C09	2	177
119.57	879	2.07	19.6	99.07	1060	1.72	18.3	14.64	C09	2	177
108.85	965	3.11	19.6	90.19	1165	2.58	19.5	16.08	C09	2	177
105.89	992	1.71	19.6	87.74	1197	1.42	19.2	16.53	C09	2	177
92.64	1134	2.65	19.6	76.75	1369	2.19	19.2	18.89	C09	2	177
91.67	1146	1.49	19.4	75.95	1383	1.23	18.9	19.09	C09	2	177
81.73	1285	2.00	19.3	67.72	1551	1.66	15.6	21.41	C09	2	177
78.82	1333	2.25	19.3	65.30	1609	1.86	18.6	22.20	C09	2	177
68.18	1541	1.95	18.8	56.49	1860	1.61	17.8	25.67	C09	2	177
60.38	1740	1.71	18.0	50.03	2100	1.42	17.5	28.98	C09	2	177
52.27	2010	1.49	18.0	43.31	2425	1.23	17.5	33.48	C09	2	177
69.27	1517	1.98	17.0	57.39	1830	1.64	17.0	25.26	C09	3	179
56.79	1850	1.62	6.2	47.06	2232	1.34	16.3	30.81	C09	3	179
47.86	2195	1.37	5.7	39.65	2649	1.13	14.4	36.57	C09	3	179
40.15	2617	1.15	5.0	33.26	3158	0.95	(**)	43.59	C09	3	179
35.43	2965	1.01	(**)	29.36	3578	0.84	(**)	49.39	C09	3	179
34.83	3016	0.99	(**)	28.86	3640	0.82	(**)	50.24	C09	3	179
34.17	3074	0.98	(**)	28.31	3711	0.81	(**)	51.22	C09	3	179
137.84	762	3.54	23.9	114.21	920	2.93	25.3	12.70	C10	2	217
123.51	851	2.00	24.7	102.33	1027	1.66	26.1	14.17	C10	2	217
119.10	882	3.06	25.0	98.68	1065	2.53	26.4	14.69	C10	2	217
103.38	1016	2.65	26.0	85.66	1226	2.20	27.5	16.93	C10	2	217
91.31	1150	1.86	27.0	75.66	1389	1.55	28.5	19.17	C10	2	217
80.03	1313	3.43	28.3	66.31	1584	2.84	29.5	21.87	C10	2	217
71.71	1465	2.00	29.2	59.41	1768	1.66	29.5	24.40	C10	2	217

PN = 11.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
69.15	1519	2.96	29.5	57.29	1834	2.45	29.5	25.31	C10	2	217
60.02	1750	2.57	29.5	49.73	2112	2.13	29.5	29.16	C10	2	217
53.01	1982	1.86	29.5	43.93	2392	1.55	29.5	33.01	C10	2	217
48.82	2152	2.09	29.5	40.45	2597	1.73	29.5	35.85	C10	3	224
40.95	2565	1.75	29.5	33.93	3096	1.45	29.5	42.74	C10	3	224
35.33	2974	1.51	29.5	29.27	3589	1.25	29.5	49.54	C10	3	224
30.06	3494	1.29	29.5	24.91	4217	1.07	29.5	58.21	C10	3	224
26.53	3960	1.14	29.5	21.98	4779	0.94	29.5	65.97	C10	3	224
25.58	4107	1.10	29.5	21.19	4956	0.91	(**)	68.41	C10	3	224
24.17	4346	1.04	29.5	20.03	5245	0.86	(**)	72.40	C10	3	224
22.13	4747	0.95	(**)	18.33	5730	0.79	(**)	79.08	C10	3	224
20.28	5181	0.87	(**)	16.80	6253	0.72	(**)	86.31	C10	3	224
102.94	1020	2.00	52.0	85.29	1232	1.66	50.0	17.00	C13	2	306
99.26	1058	3.63	52.0	82.25	1277	3.01	50.0	17.63	C13	2	306
86.55	1214	2.50	54.0	71.71	1465	2.07	53.0	20.22	C13	2	306
58.61	1792	2.00	55.0	48.56	2163	1.66	55.0	29.86	C13	2	306
56.52	1859	3.63	55.0	46.83	2243	3.01	55.0	30.96	C13	2	306
49.28	2132	2.50	55.0	40.83	2573	2.07	55.0	35.51	C13	2	306
41.50	2531	3.16	55.0	34.39	3055	2.62	55.0	42.17	C13	3	317
35.09	2994	2.67	55.0	29.08	3613	2.21	55.0	49.87	C13	3	317
30.31	3466	2.31	55.0	25.11	4183	1.91	55.0	57.74	C13	3	317
25.94	4050	1.98	55.0	21.49	4888	1.64	55.0	67.47	C13	3	317
23.24	4520	1.77	55.0	19.26	5455	1.47	55.0	75.30	C13	3	317
22.41	4688	1.71	55.0	18.57	5657	1.41	55.0	78.09	C13	3	317
20.63	5092	1.57	55.0	17.09	6145	1.30	55.0	84.82	C13	3	317
19.45	5400	1.48	55.0	16.12	6517	1.23	55.0	89.96	C13	3	317
17.45	6021	1.33	55.0	14.46	7267	1.10	55.0	100.31	C13	3	317
15.07	6972	1.15	55.0	12.48	8414	0.95	(**)	116.14	C13	3	317
12.89	8147	0.98	(**)	10.68	9832	0.81	(**)	135.71	C13	3	317
11.55	9092	0.88	(**)	9.57	10974	0.73	55.0	151.47	C13	3	317

Note: (**) Upon request.

PN = 15.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
329.92	434	1.15	4.0	273.36	524	0.95	(**)	5.30	C07	2	164
271.79	527	1.01	3.1	225.19	636	0.83	(**)	6.44	C07	2	164
229.51	624	0.90	(**)	190.16	753	0.74	(**)	7.63	C07	2	164
342.11	419	1.84	7.8	283.46	505	1.52	7.4	5.12	C08	2	188
280.49	511	1.63	7.4	232.40	616	1.35	6.8	6.24	C08	2	188
236.36	606	1.45	6.9	195.84	731	1.20	6.0	7.40	C08	2	188
198.28	722	1.29	6.1	164.29	872	1.07	4.9	8.83	C08	2	188
197.21	726	1.31	7.0	163.41	877	1.08	6.1	8.87	C08	2	188
168.75	849	1.15	5.1	139.82	1025	0.96	(**)	10.37	C08	2	188
161.69	886	1.14	6.0	133.97	1069	0.94	(**)	10.82	C08	2	188
136.26	1051	0.99	(**)	112.90	1269	0.82	(**)	12.84	C08	2	188
114.30	1253	0.89	(**)	94.71	1513	0.74	(**)	15.31	C08	2	188
263.77	543	3.35	16.7	218.55	655	2.78	15.9	6.63	C09	2	228
221.26	647	2.81	16.7	183.33	781	2.33	15.9	7.91	C09	2	228

PN = 15.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
190.88	750	2.42	16.8	158.16	906	2.01	15.7	9.17	C09	2	228
184.99	774	3.87	16.8	153.28	935	3.21	16.8	9.46	C09	2	228
162.45	882	2.06	16.8	134.60	1064	1.71	15.4	10.77	C09	2	228
150.41	952	3.15	16.8	124.63	1149	2.61	16.5	11.63	C09	2	228
143.33	999	1.47	16.5	118.76	1206	1.21	15.0	12.21	C09	2	228
138.21	1036	1.76	16.7	114.52	1251	1.45	14.8	12.66	C09	2	228
126.18	1135	2.64	16.5	104.55	1370	2.19	15.9	13.87	C09	2	228
119.57	1198	1.52	16.4	99.07	1446	1.26	14.0	14.64	C09	2	228
108.85	1316	2.28	16.1	90.19	1588	1.89	15.3	16.08	C09	2	228
92.64	1546	1.94	15.4	76.75	1866	1.61	14.2	18.89	C09	2	228
81.73	1753	1.47	15.0	67.72	2115	1.21	13.6	21.41	C09	2	228
78.82	1818	1.65	14.4	65.30	2194	1.37	12.7	22.20	C09	2	228
68.18	2101	1.43	13.1	56.49	2536	1.18	11.0	25.67	C09	2	228
69.27	2068	1.45	13.3	57.39	2496	1.20	11.2	25.26	C09	3	230
56.79	2522	1.19	3.8	47.06	3044	0.99	(**)	30.81	C09	3	230
47.86	2993	1.00	(**)	39.65	3612	0.83	(**)	36.57	C09	3	230
186.49	768	3.51	13.4	154.52	927	2.91	22.7	9.38	C10	2	268
161.07	889	3.03	14.0	133.46	1073	2.51	23.7	10.86	C10	2	268
137.84	1039	2.60	23.5	114.21	1254	2.15	24.8	12.70	C10	2	268
123.51	1160	1.47	24.2	102.33	1400	1.21	25.5	14.17	C10	2	268
119.10	1203	2.24	24.5	98.68	1452	1.86	25.8	14.69	C10	2	268
108.28	1323	3.40	25.4	89.71	1597	2.82	26.7	16.16	C10	2	268
103.38	1386	1.95	25.5	85.66	1672	1.61	26.8	16.93	C10	2	268
93.52	1532	2.94	26.4	77.49	1849	2.43	27.8	18.71	C10	2	268
80.03	1790	2.51	27.6	66.31	2160	2.08	29.0	21.87	C10	2	268
71.71	1998	1.47	28.4	59.41	2411	1.21	29.5	24.40	C10	2	268
69.15	2072	2.17	28.7	57.29	2500	1.80	29.5	25.31	C10	2	268
60.02	2387	1.89	29.5	49.73	2880	1.56	29.5	29.16	C10	2	268
76.79	1866	2.41	27.9	63.62	2252	2.00	29.4	22.79	C10	3	275
60.04	2386	1.89	29.5	49.75	2880	1.56	29.5	29.15	C10	3	275
48.82	2934	1.53	29.5	40.45	3542	1.27	29.5	35.85	C10	3	275
40.95	3498	1.29	29.5	33.93	4222	1.07	29.5	42.74	C10	3	275
38.02	3768	1.19	29.5	31.50	4547	0.99	(**)	46.03	C10	3	275
35.33	4055	1.11	29.5	29.27	4894	0.92	(**)	49.54	C10	3	275
30.06	4765	0.94	(**)	24.91	5751	0.78	(**)	58.21	C10	3	275
29.73	4819	0.93	(**)	24.63	5816	0.77	(**)	58.87	C10	3	275
115.24	1243	3.98	55.0	95.48	1500	3.30	55.0	15.19	C13	2	357
102.94	1392	1.47	55.0	85.29	1679	1.21	55.0	17.00	C13	2	357
99.26	1443	2.66	55.0	82.25	1742	2.21	55.0	17.63	C13	2	357
86.55	1655	1.83	55.0	71.71	1998	1.52	55.0	20.22	C13	2	357
65.61	2183	3.66	55.0	54.37	2635	3.04	55.0	26.67	C13	2	357
58.61	2444	1.47	55.0	48.56	2950	1.21	55.0	29.86	C13	2	357
56.52	2535	2.66	55.0	46.83	3059	2.21	55.0	30.96	C13	2	357
49.28	2907	1.83	55.0	40.83	3508	1.52	55.0	35.51	C13	2	357
62.68	2285	3.50	55.0	51.94	2758	2.90	55.0	27.92	C13	3	368
50.86	2817	2.84	55.0	42.14	3399	2.35	55.0	34.41	C13	3	368
41.50	3452	2.32	55.0	34.39	4166	1.92	55.0	42.17	C13	3	368
35.09	4082	1.96	55.0	29.08	4927	1.62	55.0	49.87	C13	3	368
31.16	4597	1.74	55.0	25.82	5548	1.44	55.0	56.16	C13	3	368

PN = 15.00 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
30.31	4726	1.69	55.0	25.11	5704	1.40	55.0	57.74	C13	3	368
25.94	5523	1.45	55.0	21.49	6666	1.20	55.0	67.47	C13	3	368
25.28	5666	1.41	55.0	20.95	6838	1.17	55.0	69.21	C13	3	368
23.24	6164	1.30	55.0	19.26	7439	1.08	55.0	75.30	C13	3	368
22.41	6392	1.25	55.0	18.57	7715	1.04	55.0	78.09	C13	3	368
20.63	6943	1.15	55.0	17.09	8380	0.95	(**)	84.82	C13	3	368
19.45	7364	1.09	50.0	16.12	8887	0.90	(**)	89.96	C13	3	368
17.45	8211	0.97	(**)	14.46	9910	0.81	(**)	100.31	C13	3	368
38.28	3742	3.47	65.0	31.72	4516	2.88	65.0	45.71	C14	3	505
31.66	4525	2.87	65.0	26.23	5461	2.38	65.0	55.27	C14	3	505
27.35	5238	2.48	65.0	22.66	6322	2.06	65.0	63.99	C14	3	505
25.47	5624	2.31	65.0	21.11	6787	1.92	65.0	68.70	C14	3	505
23.89	5996	2.17	65.0	19.79	7237	1.80	65.0	73.25	C14	3	505
20.96	6834	1.90	65.0	17.37	8248	1.58	65.0	83.49	C14	3	505
20.57	6963	1.87	65.0	17.05	8404	1.55	65.0	85.07	C14	3	505
18.38	7795	1.67	65.0	15.23	9408	1.38	65.0	95.23	C14	3	505
17.72	8084	1.61	65.0	14.68	9757	1.33	65.0	98.76	C14	3	505
17.33	8264	1.57	65.0	14.36	9974	1.30	65.0	100.96	C14	3	505
14.97	9567	1.36	65.0	12.41	11546	1.13	65.0	116.88	C14	3	505
13.08	10952	1.19	65.0	10.84	13218	0.98	(**)	133.80	C14	3	505
11.26	12719	1.02	(**)	9.33	15350	0.85	(**)	155.38	C14	3	505
10.06	14238	0.91	(**)	8.34	17184	0.76	(**)	173.94	C14	3	505
9.70	14765	0.88	(**)	8.04	17820	0.73	(**)	180.38	C14	3	505
28.55	5017	3.59	100.0	23.66	6055	2.97	100.0	61.29	C16	3	711
23.76	6030	2.98	100.0	19.68	7278	2.47	100.0	73.67	C16	3	711
20.40	7021	2.56	100.0	16.90	8474	2.12	100.0	85.78	C16	3	711
19.14	7484	2.41	100.0	15.86	9033	1.99	100.0	91.43	C16	3	711
18.00	7960	2.26	100.0	14.91	9607	1.87	100.0	97.24	C16	3	711
15.88	9020	2.00	100.0	13.16	10886	1.65	100.0	110.19	C16	3	711
15.57	9203	1.96	100.0	12.90	11107	1.62	100.0	112.42	C16	3	711
13.41	10685	1.68	100.0	11.11	12895	1.40	100.0	130.53	C16	3	711
13.21	10841	1.66	100.0	10.95	13084	1.38	100.0	132.44	C16	3	711
11.35	12623	1.43	100.0	9.40	15235	1.18	100.0	154.21	C16	3	711
10.01	14310	1.26	100.0	8.29	17271	1.04	100.0	174.82	C16	3	711
8.66	16545	1.09	100.0	7.17	19968	0.90	(**)	202.12	C16	3	711
7.46	19209	0.94	(**)	6.18	23183	0.78	(**)	234.67	C16	3	711

Note: (**) Upon request.

PN = 18.50 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
329.92	536	0.93	(**)	273.36	646	0.77	(**)	5.30	C07	2	179
342.11	516	1.49	6.4	283.46	623	1.24	5.7	5.12	C08	2	203
280.49	630	1.32	5.6	232.40	760	1.09	4.6	6.24	C08	2	203
236.36	747	1.18	4.7	195.84	902	0.98	(**)	7.40	C08	2	203
198.28	891	1.04	3.5	164.29	1075	0.86	(**)	8.83	C08	2	203
197.21	896	1.06	4.7	163.41	1081	0.88	(**)	8.87	C08	2	203
168.75	1047	0.94	(**)	139.82	1264	0.78	(**)	10.37	C08	2	203
161.69	1093	0.92	(**)	133.97	1319	0.77	(**)	10.82	C08	2	203
324.40	545	3.34	14.0	268.79	657	2.77	14.0	5.39	C09	2	243

PN = 18.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
263.77	670	2.72	14.0	218.55	808	2.25	13.9	6.63	C09	2	243
221.26	798	2.28	15.1	183.33	964	1.89	13.8	7.91	C09	2	243
190.88	926	1.97	15.0	158.16	1117	1.63	13.3	9.17	C09	2	243
184.99	955	3.14	15.0	153.28	1153	2.60	14.6	9.46	C09	2	243
162.45	1088	1.67	14.7	134.60	1313	1.39	12.6	10.77	C09	2	243
150.41	1175	2.55	14.5	124.63	1418	2.12	13.8	11.63	C09	2	243
143.33	1233	1.19	14.3	118.76	1488	0.98	(**)	12.21	C09	2	243
138.21	1278	1.42	14.2	114.52	1543	1.18	11.5	12.66	C09	2	243
126.18	1400	2.14	13.8	104.55	1690	1.78	12.7	13.87	C09	2	243
119.57	1478	1.23	13.5	99.07	1783	1.02	12.5	14.64	C09	2	243
108.85	1623	1.85	13.0	90.19	1959	1.53	11.5	16.08	C09	2	243
92.64	1907	1.57	11.8	76.75	2302	1.30	9.8	18.89	C09	2	243
81.73	2162	1.19	11.5	67.72	2609	0.98	(**)	21.41	C09	2	243
78.82	2242	1.34	10.1	65.30	2705	1.11	7.5	22.20	C09	2	243
68.18	2591	1.16	10.1	56.49	3127	0.96	(**)	25.67	C09	2	243
69.27	2551	1.18	8.4	57.39	3078	0.97	(**)	25.26	C09	3	245
56.79	3111	0.96	(**)	47.06	3754	0.80	(**)	30.81	C09	3	245
220.55	801	3.37	12.6	182.74	967	2.79	21.3	7.93	C10	2	283
186.49	947	2.85	13.2	154.52	1143	2.36	22.4	9.38	C10	2	283
161.07	1097	2.46	13.8	133.46	1324	2.04	23.3	10.86	C10	2	283
156.92	1126	4.00	14.0	130.02	1359	3.31	23.7	11.15	C10	2	283
137.84	1282	2.10	23.1	114.21	1547	1.74	24.3	12.70	C10	2	283
128.05	1380	3.26	23.8	106.10	1665	2.70	25.1	13.67	C10	2	283
123.51	1430	1.19	23.8	102.33	1726	0.98	(**)	14.17	C10	2	283
119.10	1483	1.82	24.0	98.68	1790	1.51	25.3	14.69	C10	2	283
108.28	1632	2.76	24.9	89.71	1969	2.29	26.2	16.16	C10	2	283
103.38	1709	1.58	25.0	85.66	2063	1.31	26.2	16.93	C10	2	283
93.52	1889	2.38	25.9	77.49	2280	1.97	27.2	18.71	C10	2	283
80.03	2208	2.04	27.0	66.31	2664	1.69	28.3	21.87	C10	2	283
71.71	2464	1.19	27.8	59.41	2974	0.98	(**)	24.40	C10	2	283
69.15	2555	1.76	28.0	57.29	3084	1.46	29.4	25.31	C10	2	283
60.02	2943	1.53	29.0	49.73	3552	1.27	29.5	29.16	C10	2	283
76.79	2301	1.96	27.3	63.62	2777	1.62	28.6	22.79	C10	3	290
60.04	2943	1.53	29.0	49.75	3552	1.27	29.5	29.15	C10	3	290
48.82	3619	1.24	29.5	40.45	4368	1.03	(**)	35.85	C10	3	290
40.95	4314	1.04	29.5	33.93	5207	0.86	(**)	42.74	C10	3	290
38.02	4647	0.97	(**)	31.50	5608	0.80	(**)	46.03	C10	3	290
35.33	5001	0.90	(**)	29.27	6036	0.75	(**)	49.54	C10	3	290
133.82	1320	3.70	55.0	110.88	1593	3.07	55.0	13.08	C13	2	372
115.24	1533	3.23	55.0	95.48	1850	2.67	55.0	15.19	C13	2	372
102.94	1716	1.19	55.0	85.29	2071	0.98	55.0	17.00	C13	2	372
99.26	1780	2.16	55.0	82.25	2148	1.79	55.0	17.63	C13	2	372
87.23	2025	3.95	55.0	72.28	2444	3.27	55.0	20.06	C13	2	372
86.55	2041	1.49	55.0	71.71	2464	1.23	55.0	20.22	C13	2	372
76.20	2319	3.45	55.0	63.13	2798	2.86	55.0	22.97	C13	2	372
65.61	2693	2.97	55.0	54.37	3250	2.46	55.0	26.67	C13	2	372
58.61	3014	1.19	55.0	48.56	3638	0.98	55.0	29.86	C13	2	372
56.52	3126	2.16	55.0	46.83	3773	1.79	55.0	30.96	C13	2	372
49.28	3585	1.49	55.0	40.83	4327	1.23	55.0	35.51	C13	2	372

PN = 18.50 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
62.68	2819	2.84	55.0	51.94	3402	2.35	55.0	27.92	C13	3	383
50.86	3474	2.30	55.0	42.14	4193	1.91	55.0	34.41	C13	3	383
41.50	4257	1.88	55.0	34.39	5138	1.56	55.0	42.17	C13	3	383
35.09	5035	1.59	55.0	29.08	6076	1.32	55.0	49.87	C13	3	383
31.16	5670	1.41	55.0	25.82	6843	1.17	55.0	56.16	C13	3	383
30.31	5829	1.37	55.0	25.11	7035	1.14	55.0	57.74	C13	3	383
25.94	6812	1.17	55.0	21.49	8221	0.97	(**)	67.47	C13	3	383
25.28	6988	1.14	55.0	20.95	8433	0.95	(**)	69.21	C13	3	383
23.24	7602	1.05	55.0	19.26	9175	0.87	(**)	75.30	C13	3	383
22.41	7884	1.01	(**)	18.57	9515	0.84	(**)	78.09	C13	3	383
20.63	8563	0.93	(**)	17.09	10335	0.77	(**)	84.82	C13	3	383
19.45	9082	0.88	(**)	16.12	10961	0.73	(**)	89.96	C13	3	383
46.52	3797	3.42	65.0	38.55	4583	2.84	65.0	37.61	C14	3	520
38.28	4615	2.82	65.0	31.72	5570	2.33	65.0	45.71	C14	3	520
31.66	5580	2.33	65.0	26.23	6735	1.93	65.0	55.27	C14	3	520
27.35	6460	2.01	65.0	22.66	7797	1.67	65.0	63.99	C14	3	520
25.47	6936	1.87	65.0	21.11	8371	1.55	65.0	68.70	C14	3	520
23.89	7396	1.76	65.0	19.79	8926	1.46	65.0	73.25	C14	3	520
20.96	8429	1.54	65.0	17.37	10173	1.28	65.0	83.49	C14	3	520
20.57	8588	1.51	65.0	17.05	10365	1.25	65.0	85.07	C14	3	520
18.38	9614	1.35	65.0	15.23	11603	1.12	65.0	95.23	C14	3	520
17.72	9970	1.30	65.0	14.68	12033	1.08	65.0	98.76	C14	3	520
17.33	10192	1.28	65.0	14.36	12301	1.06	65.0	100.96	C14	3	520
14.97	11799	1.10	65.0	12.41	14241	0.91	(**)	116.88	C14	3	520
13.08	13508	0.96	(**)	10.84	16303	0.80	(**)	133.80	C14	3	520
34.41	5134	3.51	100.0	28.51	6197	2.90	100.0	50.86	C16	3	726
28.55	6188	2.91	100.0	23.66	7468	2.41	100.0	61.29	C16	3	726
23.76	7437	2.42	100.0	19.68	8976	2.01	100.0	73.67	C16	3	726
20.40	8660	2.08	100.0	16.90	10451	1.72	100.0	85.78	C16	3	726
19.14	9231	1.95	100.0	15.86	11140	1.62	100.0	91.43	C16	3	726
18.00	9817	1.83	100.0	14.91	11849	1.52	100.0	97.24	C16	3	726
15.88	11125	1.62	100.0	13.16	13426	1.34	100.0	110.19	C16	3	726
15.57	11350	1.59	100.0	12.90	13698	1.31	100.0	112.42	C16	3	726
13.41	13178	1.37	100.0	11.11	15904	1.13	100.0	130.53	C16	3	726
13.21	13371	1.35	100.0	10.95	16137	1.12	100.0	132.44	C16	3	726
11.35	15568	1.16	100.0	9.40	18789	0.96	(**)	154.21	C16	3	726
10.01	17650	1.02	(**)	8.29	21301	0.85	(**)	174.82	C16	3	726
8.66	20405	0.88	(**)	7.17	24627	0.73	(**)	202.12	C16	3	726

Note: (**) Upon request.

PN = 22.00 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
342.11	614	1.25	4.9	283.46	741	1.04	3.9	5.12	C08	2	231
280.49	749	1.11	3.8	232.40	904	0.92	(**)	6.24	C08	2	231
236.36	889	0.99	(**)	195.84	1073	0.82	(**)	7.40	C08	2	231
198.28	1060	0.88	(**)	164.29	1279	0.73	(**)	8.83	C08	2	231
197.21	1065	0.89	(**)	163.41	1286	0.74	(**)	8.87	C08	2	231
414.90	506	3.59	13.0	343.78	611	2.98	13.3	4.22	C09	2	271
324.40	648	2.81	13.0	268.79	782	2.33	13.3	5.39	C09	2	271

PN = 22.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
263.77	797	2.28	13.0	218.55	961	1.89	13.3	6.63	C09	2	271
236.60	888	3.38	13.7	196.04	1072	2.80	13.3	7.40	C09	2	271
221.26	950	1.92	13.6	183.33	1146	1.59	11.8	7.91	C09	2	271
190.88	1101	1.65	13.3	158.16	1328	1.37	10.9	9.17	C09	2	271
184.99	1136	2.64	13.2	153.28	1371	2.19	12.4	9.46	C09	2	271
162.45	1293	1.41	12.7	134.60	1561	1.17	9.8	10.77	C09	2	271
150.41	1397	2.15	12.3	124.63	1686	1.78	11.1	11.63	C09	2	271
143.33	1466	1.00	(**)	118.76	1769	0.83	(**)	12.21	C09	2	271
138.21	1520	1.20	11.8	114.52	1835	0.99	(**)	12.66	C09	2	271
126.18	1665	1.80	11.2	104.55	2010	1.49	9.5	13.87	C09	2	271
108.85	1930	1.55	9.9	90.19	2329	1.29	7.8	16.08	C09	2	271
92.64	2268	1.32	9.9	76.75	2737	1.10	7.8	18.89	C09	2	271
81.73	2571	1.00	(**)	67.72	3102	0.83	(**)	21.41	C09	2	271
78.82	2666	1.13	7.0	65.30	3217	0.93	(**)	22.20	C09	2	271
69.27	3033	0.99	(**)	57.39	3661	0.82	(**)	25.26	C09	3	273
270.28	777	3.47	11.7	223.95	938	2.88	19.9	6.47	C10	2	311
220.55	953	2.83	12.4	182.74	1150	2.35	21.1	7.93	C10	2	311
186.49	1127	2.39	13.0	154.52	1360	1.98	22.0	9.38	C10	2	311
161.07	1304	2.07	13.6	133.46	1574	1.71	22.9	10.86	C10	2	311
156.92	1339	3.36	13.8	130.02	1616	2.78	23.3	11.15	C10	2	311
137.84	1524	1.77	22.7	114.21	1840	1.47	23.9	12.70	C10	2	311
128.05	1641	2.74	23.4	106.10	1980	2.27	24.6	13.67	C10	2	311
123.51	1701	1.00	(**)	102.33	2053	0.83	(**)	14.17	C10	2	311
119.10	1764	1.53	23.6	98.68	2129	1.27	24.8	14.69	C10	2	311
108.28	1940	2.32	24.5	89.71	2342	1.92	25.7	16.16	C10	2	311
93.52	2247	2.00	25.4	77.49	2711	1.66	26.7	18.71	C10	2	311
80.03	2625	1.71	26.5	66.31	3168	1.42	27.6	21.87	C10	2	311
71.71	2930	1.00	(**)	59.41	3536	0.83	(**)	24.40	C10	2	311
69.15	3038	1.48	27.4	57.29	3667	1.23	28.6	25.31	C10	2	311
76.79	2736	1.64	26.7	63.62	3302	1.36	27.9	22.79	C10	3	318
60.04	3499	1.29	28.3	49.75	4223	1.07	29.4	29.15	C10	3	318
48.82	4304	1.05	(**)	40.45	5194	0.87	(**)	35.85	C10	3	318
40.95	5131	0.88	(**)	33.93	6192	0.73	(**)	42.74	C10	3	318
153.20	1371	3.61	55.0	126.94	1655	2.99	55.0	11.42	C13	2	400
133.82	1570	3.11	55.0	110.88	1895	2.58	55.0	13.08	C13	2	400
115.24	1823	2.71	55.0	95.48	2200	2.25	55.0	15.19	C13	2	400
102.94	2041	1.00	55.0	85.29	2463	0.83	(**)	17.00	C13	2	400
100.98	2081	3.85	55.0	83.67	2511	3.19	55.0	17.33	C13	2	400
99.26	2117	1.82	55.0	82.25	2554	1.50	55.0	17.63	C13	2	400
87.23	2409	3.32	55.0	72.28	2907	2.75	55.0	20.06	C13	2	400
76.20	2757	2.90	55.0	63.13	3328	2.40	55.0	22.97	C13	2	400
65.61	3202	2.50	55.0	54.37	3865	2.07	55.0	26.67	C13	2	400
58.61	3585	1.00	55.0	48.56	4326	0.83	(**)	29.86	C13	2	400
56.52	3717	1.82	55.0	46.83	4486	1.50	55.0	30.96	C13	2	400
78.51	2676	2.99	55.0	65.05	3230	2.48	55.0	22.29	C13	3	411
62.68	3352	2.39	55.0	51.94	4045	1.98	55.0	27.92	C13	3	411
50.86	4131	1.94	55.0	42.14	4986	1.60	55.0	34.41	C13	3	411
41.50	5063	1.58	55.0	34.39	6110	1.31	55.0	42.17	C13	3	411
39.03	5383	1.49	55.0	32.34	6496	1.23	55.0	44.83	C13	3	411

PN = 22.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
35.09	5987	1.34	55.0	29.08	7226	1.11	55.0	49.87	C13	3	411
31.16	6742	1.19	55.0	25.82	8137	0.98	(**)	56.16	C13	3	411
30.31	6932	1.15	55.0	25.11	8366	0.96	(**)	57.74	C13	3	411
25.94	8100	0.99	(**)	21.49	9776	0.82	(**)	67.47	C13	3	411
25.28	8310	0.96	(**)	20.95	10029	0.80	(**)	69.21	C13	3	411
23.24	9040	0.88	(**)	19.26	10911	0.73	(**)	75.30	C13	3	411
22.41	9375	0.85	(**)	18.57	11315	0.71	(**)	78.09	C13	3	411
109.90	1912	3.51	65.0	91.06	2307	2.91	65.0	15.92	C14	2	530
62.67	3352	3.51	65.0	51.93	4046	2.91	65.0	27.92	C14	2	530
56.60	3712	3.50	65.0	46.90	4480	2.90	65.0	30.92	C14	3	548
46.52	4516	2.88	65.0	38.55	5450	2.39	65.0	37.61	C14	3	548
38.28	5488	2.37	65.0	31.72	6623	1.96	65.0	45.71	C14	3	548
31.66	6636	1.96	65.0	26.23	8009	1.62	65.0	55.27	C14	3	548
30.99	6780	1.92	65.0	25.68	8183	1.59	65.0	56.47	C14	3	548
27.35	7682	1.69	65.0	22.66	9272	1.40	65.0	63.99	C14	3	548
25.47	8248	1.58	65.0	21.11	9955	1.31	65.0	68.70	C14	3	548
23.89	8795	1.48	65.0	19.79	10614	1.22	65.0	73.25	C14	3	548
20.96	10024	1.30	65.0	17.37	12097	1.07	65.0	83.49	C14	3	548
20.57	10213	1.27	65.0	17.05	12326	1.05	65.0	85.07	C14	3	548
18.38	11433	1.14	65.0	15.23	13799	0.94	(**)	95.23	C14	3	548
17.72	11857	1.10	65.0	14.68	14310	0.91	(**)	98.76	C14	3	548
17.33	12121	1.07	65.0	14.36	14628	0.89	(**)	100.96	C14	3	548
14.97	14032	0.93	(**)	12.41	16935	0.77	(**)	116.88	C14	3	548
98.89	2124	3.51	100.0	81.94	2564	2.91	100.0	17.70	C16	2	724
53.03	3962	3.51	100.0	43.94	4782	2.91	100.0	33.00	C16	2	724
41.26	5092	3.54	100.0	34.19	6145	2.93	100.0	42.41	C16	3	754
34.41	6106	2.95	100.0	28.51	7369	2.44	100.0	50.86	C16	3	754
28.55	7359	2.45	100.0	23.66	8881	2.03	100.0	61.29	C16	3	754
23.76	8844	2.04	100.0	19.68	10674	1.69	100.0	73.67	C16	3	754
22.95	9154	1.97	100.0	19.02	11048	1.63	100.0	76.25	C16	3	754
20.40	10298	1.75	100.0	16.90	12429	1.45	100.0	85.78	C16	3	754
19.14	10977	1.64	100.0	15.86	13248	1.36	100.0	91.43	C16	3	754
18.00	11675	1.54	100.0	14.91	14090	1.28	100.0	97.24	C16	3	754
15.88	13229	1.36	100.0	13.16	15966	1.13	100.0	110.19	C16	3	754
15.57	13497	1.33	100.0	12.90	16290	1.10	100.0	112.42	C16	3	754
13.41	15671	1.15	100.0	11.11	18913	0.95	(**)	130.53	C16	3	754
13.21	15901	1.13	100.0	10.95	19190	0.94	(**)	132.44	C16	3	754
11.35	18514	0.97	(**)	9.40	22344	0.81	(**)	154.21	C16	3	754
10.01	20989	0.86	(**)	8.29	25331	0.71	(**)	174.82	C16	3	754

Note: (**) Upon request.

PN = 30.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
414.90	691	2.63	10.0	343.78	833	2.18	10.0	4.22	C09	2	310
324.40	883	2.06	10.0	268.79	1066	1.71	10.0	5.39	C09	2	310
263.77	1086	1.67	10.0	218.55	1311	1.39	10.0	6.63	C09	2	310
236.60	1211	2.48	10.5	196.04	1461	2.05	9.4	7.40	C09	2	310
221.26	1295	1.40	10.1	183.33	1563	1.16	7.1	7.91	C09	2	310

PN = 30.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
190.88	1501	1.21	9.2	158.16	1811	1.00	5.5	9.17	C09	2	310
184.99	1549	1.94	9.0	153.28	1869	1.60	7.4	9.46	C09	2	310
150.41	1905	1.58	7.2	124.63	2299	1.31	4.9	11.63	C09	2	310
126.18	2271	1.32	5.1	104.55	2740	1.09	2.1	13.87	C09	2	310
108.85	2632	1.14	2.8	90.19	3177	0.94	(**)	16.08	C09	2	310
417.25	687	3.93	10.1	345.72	829	3.26	17.2	4.19	C10	2	350
333.12	860	3.14	10.8	276.01	1038	2.60	18.3	5.25	C10	2	350
270.28	1060	2.55	11.5	223.95	1279	2.11	19.4	6.47	C10	2	350
242.25	1183	3.81	11.9	200.73	1427	3.15	20.2	7.22	C10	2	350
220.55	1299	2.08	12.1	182.74	1568	1.72	20.4	7.93	C10	2	350
193.41	1481	3.04	12.7	160.25	1788	2.52	21.4	9.05	C10	2	350
186.49	1536	1.76	12.7	154.52	1854	1.46	21.3	9.38	C10	2	350
161.07	1779	1.52	13.1	133.46	2147	1.26	22.0	10.86	C10	2	350
156.92	1826	2.46	13.4	130.02	2203	2.04	22.5	11.15	C10	2	350
128.05	2237	2.01	22.6	106.10	2700	1.67	23.7	13.67	C10	2	350
108.28	2646	1.70	23.5	89.71	3193	1.41	24.5	16.16	C10	2	350
93.52	3064	1.47	24.3	77.49	3697	1.22	25.3	18.71	C10	2	350
76.79	3731	1.21	25.3	63.62	4503	1.00	(**)	22.79	C10	3	357
60.04	4772	0.94	(**)	49.75	5759	0.78	(**)	29.15	C10	3	357
214.46	1336	3.70	55.0	177.70	1612	3.07	55.0	8.16	C13	2	439
177.36	1615	3.06	55.0	146.95	1950	2.54	55.0	9.87	C13	2	439
153.20	1870	2.64	55.0	126.94	2257	2.19	55.0	11.42	C13	2	439
133.82	2141	2.28	55.0	110.88	2584	1.89	55.0	13.08	C13	2	439
122.11	2346	3.41	55.0	101.18	2832	2.83	55.0	14.33	C13	2	439
100.98	2837	2.82	55.0	83.67	3424	2.34	55.0	17.33	C13	2	439
87.23	3284	2.44	55.0	72.28	3964	2.02	55.0	20.06	C13	2	439
76.20	3760	2.13	55.0	63.13	4538	1.76	55.0	22.97	C13	2	439
78.51	3649	2.19	55.0	65.05	4404	1.82	55.0	22.29	C13	3	450
62.68	4571	1.75	55.0	51.94	5516	1.45	55.0	27.92	C13	3	450
50.86	5633	1.42	55.0	42.14	6799	1.18	55.0	34.41	C13	3	450
41.50	6904	1.16	55.0	34.39	8332	0.96	(**)	42.17	C13	3	450
39.03	7340	1.09	55.0	32.34	8859	0.90	(**)	44.83	C13	3	450
35.09	8164	0.98	(**)	29.08	9853	0.81	(**)	49.87	C13	3	450
31.16	9194	0.87	(**)	25.82	11096	0.72	(**)	56.16	C13	3	450
124.60	2299	3.55	65.0	103.24	2775	2.94	65.0	14.05	C14	2	569
109.90	2607	2.57	65.0	91.06	3146	2.13	65.0	15.92	C14	2	569
82.73	3463	3.75	65.0	68.55	4180	3.11	65.0	21.15	C14	2	569
71.05	4032	3.22	65.0	58.87	4867	2.67	65.0	24.63	C14	2	569
62.67	4571	2.57	65.0	51.93	5517	2.13	65.0	27.92	C14	2	569
78.10	3668	3.54	65.0	64.71	4427	2.94	65.0	22.41	C14	3	587
66.66	4298	3.02	65.0	55.23	5187	2.51	65.0	26.25	C14	3	587
56.60	5062	2.57	65.0	46.90	6109	2.13	65.0	30.92	C14	3	587
46.52	6158	2.11	65.0	38.55	7432	1.75	65.0	37.61	C14	3	587
42.76	6700	1.94	65.0	35.43	8087	1.61	65.0	40.93	C14	3	587
38.28	7484	1.74	65.0	31.72	9032	1.44	65.0	45.71	C14	3	587
36.50	7850	1.66	65.0	30.24	9474	1.37	65.0	47.95	C14	3	587
31.66	9049	1.44	65.0	26.23	10921	1.19	65.0	55.27	C14	3	587
30.99	9245	1.41	65.0	25.68	11158	1.17	65.0	56.47	C14	3	587
27.35	10476	1.24	65.0	22.66	12643	1.03	(**)	63.99	C14	3	587

PN = 30.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
25.47	11248	1.16	65.0	21.11	13575	0.96	(**)	68.70	C14	3	587
23.89	11993	1.08	65.0	19.79	14474	0.90	(**)	73.25	C14	3	587
20.96	13669	0.95	(**)	17.37	16496	0.79	(**)	83.49	C14	3	587
98.89	2897	2.58	100.0	81.94	3496	2.14	100.0	17.70	C16	2	763
53.03	5403	2.58	100.0	43.94	6520	2.14	100.0	33.00	C16	2	763
55.47	5165	3.49	100.0	45.96	6233	2.89	100.0	31.55	C16	3	793
48.01	5968	3.02	100.0	39.78	7203	2.50	100.0	36.45	C16	3	793
41.26	6943	2.59	100.0	34.19	8380	2.15	100.0	42.41	C16	3	793
34.41	8326	2.16	100.0	28.51	10049	1.79	100.0	50.86	C16	3	793
30.86	9285	1.94	100.0	25.57	11206	1.61	100.0	56.72	C16	3	793
28.55	10034	1.79	100.0	23.66	12111	1.49	100.0	61.29	C16	3	793
26.70	10729	1.68	100.0	22.12	12949	1.39	100.0	65.54	C16	3	793
23.76	12061	1.49	100.0	19.68	14556	1.24	100.0	73.67	C16	3	793
22.95	12483	1.44	100.0	19.02	15066	1.19	100.0	76.25	C16	3	793
20.40	14043	1.28	100.0	16.90	16948	1.06	(**)	85.78	C16	3	793
19.14	14968	1.20	100.0	15.86	18065	1.00	(**)	91.43	C16	3	793
18.00	15920	1.13	100.0	14.91	19214	0.94	(**)	97.24	C16	3	793
15.88	18040	1.00	100.0	13.16	21772	0.83	(**)	110.19	C16	3	793

Note: (**) Upon request.

PN = 37.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
414.90	852	2.14	7.0	343.78	1028	1.77	7.0	4.22	C09	2	338
324.40	1089	1.67	7.0	268.79	1315	1.38	7.0	5.39	C09	2	338
263.77	1340	1.36	6.5	218.55	1617	1.13	6.5	6.63	C09	2	338
236.60	1493	2.01	7.6	196.04	1802	1.66	6.0	7.40	C09	2	338
221.26	1597	1.14	7.1	183.33	1927	0.94	(**)	7.91	C09	2	338
190.88	1851	0.98	(**)	158.16	2234	0.81	(**)	9.17	C09	2	338
184.99	1910	1.57	5.3	153.28	2305	1.30	3.0	9.46	C09	2	338
150.41	2349	1.28	2.7	124.63	2835	1.06	(**)	11.63	C09	2	338
126.18	2800	1.07	(**)	104.55	3380	0.89	(**)	13.87	C09	2	338
108.85	3246	0.92	(**)	90.19	3918	0.77	(**)	16.08	C09	2	338
417.25	847	3.19	10.0	345.72	1022	2.64	16.9	4.19	C10	2	378
333.12	1061	2.54	10.6	276.01	1280	2.11	17.9	5.25	C10	2	378
270.28	1307	2.06	11.2	223.95	1578	1.71	18.9	6.47	C10	2	378
242.25	1459	3.09	11.7	200.73	1760	2.56	19.7	7.22	C10	2	378
220.55	1602	1.68	11.8	182.74	1934	1.40	19.9	7.93	C10	2	378
193.41	1827	2.46	12.4	160.25	2205	2.04	20.8	9.05	C10	2	378
186.49	1895	1.42	12.3	154.52	2287	1.18	20.6	9.38	C10	2	378
161.07	2194	1.23	12.7	133.46	2648	1.02	(**)	10.86	C10	2	378
156.92	2252	2.00	20.9	130.02	2718	1.66	21.8	11.15	C10	2	378
128.05	2759	1.63	21.9	106.10	3330	1.35	22.8	13.67	C10	2	378
108.28	3263	1.38	22.7	89.71	3939	1.14	23.5	16.16	C10	2	378
93.52	3778	1.19	23.3	77.49	4560	0.99	(**)	18.71	C10	2	378
76.79	4602	0.98	(**)	63.62	5554	0.81	(**)	22.79	C10	3	385
260.62	1356	3.65	55.0	215.94	1636	3.02	55.0	6.71	C13	2	467
214.46	1648	3.00	55.0	177.70	1989	2.49	55.0	8.16	C13	2	467
177.36	1992	2.48	55.0	146.95	2405	2.06	55.0	9.87	C13	2	467
153.20	2306	2.14	55.0	126.94	2784	1.78	55.0	11.42	C13	2	467
148.39	2381	3.36	55.0	122.95	2874	2.78	55.0	11.79	C13	2	467
133.82	2640	1.85	55.0	110.88	3187	1.53	55.0	13.08	C13	2	467

PN = 37.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
122.11	2894	2.76	55.0	101.18	3492	2.29	55.0	14.33	C13	2	467
100.98	3499	2.29	55.0	83.67	4223	1.89	55.0	17.33	C13	2	467
87.23	4051	1.97	55.0	72.28	4889	1.64	55.0	20.06	C13	2	467
76.20	4637	1.73	55.0	63.13	5597	1.43	55.0	22.97	C13	2	467
78.51	4500	1.78	55.0	65.05	5432	1.47	55.0	22.29	C13	3	478
62.68	5637	1.42	55.0	51.94	6803	1.18	55.0	27.92	C13	3	478
50.86	6948	1.15	55.0	42.14	8385	0.95	(**)	34.41	C13	3	478
41.50	8514	0.94	(**)	34.39	10276	0.78	(**)	42.17	C13	3	478
39.03	9053	0.88	(**)	32.34	10926	0.73	(**)	44.83	C13	3	478
145.07	2436	3.30	65.0	120.20	2940	2.73	65.0	12.06	C14	2	597
124.60	2836	2.88	65.0	103.24	3423	2.38	65.0	14.05	C14	2	597
109.90	3215	2.09	65.0	91.06	3880	1.73	65.0	15.92	C14	2	597
99.43	3554	3.66	65.0	82.39	4289	3.03	65.0	17.60	C14	2	597
82.73	4271	3.04	65.0	68.55	5155	2.52	65.0	21.15	C14	2	597
71.05	4973	2.61	65.0	58.87	6002	2.17	65.0	24.63	C14	2	597
62.67	5638	2.09	65.0	51.93	6805	1.73	65.0	27.92	C14	2	597
78.10	4524	2.87	65.0	64.71	5460	2.38	65.0	22.41	C14	3	615
66.66	5301	2.45	65.0	55.23	6397	2.03	65.0	26.25	C14	3	615
56.60	6243	2.08	65.0	46.90	7535	1.73	65.0	30.92	C14	3	615
46.52	7595	1.71	65.0	38.55	9166	1.42	65.0	37.61	C14	3	615
42.76	8264	1.57	65.0	35.43	9973	1.30	65.0	40.93	C14	3	615
38.28	9230	1.41	65.0	31.72	11139	1.17	65.0	45.71	C14	3	615
36.50	9681	1.34	65.0	30.24	11684	1.11	65.0	47.95	C14	3	615
31.66	11161	1.16	65.0	26.23	13470	0.97	(**)	55.27	C14	3	615
30.99	11403	1.14	65.0	25.68	13762	0.94	(**)	56.47	C14	3	615
27.35	12920	1.01	(**)	22.66	15594	0.83	(**)	63.99	C14	3	615
25.47	13872	0.94	(**)	21.11	16742	0.78	(**)	68.70	C14	3	615
23.89	14791	0.88	(**)	19.79	17851	0.73	(**)	73.25	C14	3	615
129.74	2723	3.67	100.0	107.50	3287	3.04	100.0	13.49	C16	2	791
98.89	3573	2.09	100.0	81.94	4312	1.73	100.0	17.70	C16	2	791
69.57	5079	3.54	100.0	57.65	6130	2.94	100.0	25.15	C16	2	791
53.03	6663	2.09	100.0	43.94	8042	1.73	100.0	33.00	C16	2	791
55.47	6370	2.83	100.0	45.96	7688	2.34	100.0	31.55	C16	3	821
48.01	7361	2.45	100.0	39.78	8883	2.03	100.0	36.45	C16	3	821
41.26	8564	2.10	100.0	34.19	10335	1.74	100.0	42.41	C16	3	821
34.41	10269	1.75	100.0	28.51	12393	1.45	100.0	50.86	C16	3	821
30.86	11452	1.57	100.0	25.57	13821	1.30	100.0	56.72	C16	3	821
28.55	12376	1.45	100.0	23.66	14936	1.21	100.0	61.29	C16	3	821
26.70	13233	1.36	100.0	22.12	15971	1.13	100.0	65.54	C16	3	821
23.76	14875	1.21	100.0	19.68	17952	1.00	(**)	73.67	C16	3	821
22.95	15396	1.17	100.0	19.02	18581	0.97	(**)	76.25	C16	3	821
20.40	17319	1.04	100.0	16.90	20903	0.86	(**)	85.78	C16	3	821
19.14	18461	0.98	(**)	15.86	22281	0.81	(**)	91.43	C16	3	821
18.00	19635	0.92	(**)	14.91	23697	0.76	(**)	97.24	C16	3	821

Note: (**) Upon request.

PN = 45 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
414.90	1036	1.76	4.0	343.78	1250	1.46	4.0	4.22	C09	2	505
324.40	1325	1.37	4.0	268.79	1599	1.14	4.0	5.39	C09	2	505
263.77	1629	1.12	4.0	218.55	1966	0.93	(**)	6.63	C09	2	505
236.60	1816	1.65	4.4	196.04	2192	1.37	2.0	7.40	C09	2	505
221.26	1942	0.94	(**)	183.33	2344	0.78	(**)	7.91	C09	2	505
184.99	2323	1.29	1.2	153.28	2804	1.07	1.2	9.46	C09	2	505
150.41	2857	1.05	(**)	124.63	3448	0.87	(**)	11.63	C09	2	505
126.18	3406	0.88	(**)	104.55	4111	0.73	(**)	13.87	C09	2	505
417.25	1030	2.62	9.8	345.72	1243	2.17	16.5	4.19	C10	2	545
333.12	1290	2.09	10.4	276.01	1557	1.73	17.5	5.25	C10	2	545
270.28	1590	1.70	11.0	223.95	1919	1.41	18.4	6.47	C10	2	545
242.25	1774	2.54	11.4	200.73	2141	2.10	19.2	7.22	C10	2	545
220.55	1949	1.38	11.5	182.74	2352	1.15	19.2	7.93	C10	2	545
193.41	2222	2.03	12.1	160.25	2682	1.68	20.2	9.05	C10	2	545
186.49	2304	1.17	11.9	154.52	2781	0.97	(**)	9.38	C10	2	545
161.07	2668	1.01	(**)	133.46	3220	0.84	(**)	10.86	C10	2	545
156.92	2739	1.64	20.3	130.02	3305	1.36	21.0	11.15	C10	2	545
128.05	3356	1.34	21.1	106.10	4051	1.11	21.8	13.67	C10	2	545
108.28	3969	1.13	21.7	89.71	4790	0.94	(**)	16.16	C10	2	545
93.52	4595	0.98	(**)	77.49	5546	0.81	(**)	18.71	C10	2	545
317.06	1355	3.65	55.0	262.71	1636	3.02	55.0	5.52	C13	2	634
260.62	1649	3.00	55.0	215.94	1990	2.49	55.0	6.71	C13	2	634
214.46	2004	2.47	55.0	177.70	2418	2.04	55.0	8.16	C13	2	634
212.63	2021	3.96	55.0	176.18	2439	3.28	55.0	8.23	C13	2	634
180.53	2381	3.36	55.0	149.58	2873	2.78	55.0	9.69	C13	2	634
177.36	2423	2.04	55.0	146.95	2924	1.69	55.0	9.87	C13	2	634
153.20	2805	1.76	5.0	126.94	3386	1.46	55.0	11.42	C13	2	634
148.39	2896	2.76	55.0	122.95	3495	2.29	55.0	11.79	C13	2	634
133.82	3211	1.52	55.0	110.88	3876	1.26	55.0	13.08	C13	2	634
122.11	3519	2.27	55.0	101.18	4248	1.88	55.0	14.33	C13	2	634
100.98	4256	1.88	55.0	83.67	5136	1.56	55.0	17.33	C13	2	634
87.23	4927	1.62	55.0	72.28	5946	1.35	55.0	20.06	C13	2	634
76.20	5640	1.42	55.0	63.13	6807	1.18	55.0	22.97	C13	2	634
78.51	5474	1.46	55.0	65.05	6606	1.21	55.0	22.29	C13	3	645
62.68	6856	1.17	55.0	51.94	8274	0.97	(**)	27.92	C13	3	645
50.86	8450	0.95	(**)	42.14	10198	0.78	(**)	34.41	C13	3	645
174.37	2465	3.69	65.0	144.47	2975	3.06	65.0	10.04	C14	2	764
145.07	2962	2.71	65.0	120.20	3575	2.25	65.0	12.06	C14	2	764
124.60	3449	2.36	65.0	103.24	4163	1.96	65.0	14.05	C14	2	764
119.83	3586	3.63	65.0	99.29	4328	3.00	65.0	14.60	C14	2	764
109.90	3910	1.71	65.0	91.06	4719	1.42	65.0	15.92	C14	2	764
99.43	4322	3.01	65.0	82.39	5216	2.49	65.0	17.60	C14	2	764
82.73	5195	2.50	65.0	68.55	6270	2.07	65.0	21.15	C14	2	764
71.05	6049	2.15	65.0	58.87	7300	1.78	65.0	24.63	C14	2	764
62.67	6857	1.71	65.0	51.93	8276	1.42	65.0	27.92	C14	2	764
78.10	5503	2.36	65.0	64.71	6641	1.96	65.0	22.41	C14	3	782
66.66	6447	2.02	65.0	55.23	7780	1.67	65.0	26.25	C14	3	782
56.60	7593	1.71	65.0	46.90	9164	1.42	65.0	30.92	C14	3	782
46.52	9237	1.41	65.0	38.55	11148	1.17	65.0	37.61	C14	3	782

PN = 45 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
42.76	10050	1.29	65.0	35.43	12130	1.07	65.0	40.93	C14	3	782
38.28	11225	1.16	65.0	31.72	13548	0.96	(**)	45.71	C14	3	782
36.50	11775	1.10	65.0	30.24	14211	0.91	(**)	47.95	C14	3	782
31.66	13574	0.96	(**)	26.23	16382	0.79	(**)	55.27	C14	3	782
30.99	13868	0.94	(**)	25.68	16737	0.78	(**)	56.47	C14	3	782
129.74	3312	3.02	100.0	107.50	3998	2.50	100.0	13.49	C16	2	958
98.89	4346	1.72	100.0	81.94	5245	1.42	100.0	17.70	C16	2	958
82.86	5186	3.47	100.0	68.66	6260	2.88	100.0	21.12	C16	2	958
69.57	6177	2.91	100.0	57.65	7455	2.41	100.0	25.15	C16	2	958
53.03	8104	1.72	100.0	43.94	9781	1.42	100.0	33.00	C16	2	958
55.47	7747	2.32	100.0	45.96	9350	1.93	100.0	31.55	C16	3	988
48.01	8952	2.01	100.0	39.78	10804	1.67	100.0	36.45	C16	3	988
41.26	10415	1.73	100.0	34.19	12570	1.43	100.0	42.41	C16	3	988
34.41	12489	1.44	100.0	28.51	15073	1.19	100.0	50.86	C16	3	988
30.86	13928	1.29	100.0	25.57	16809	1.07	100.0	56.72	C16	3	988
28.55	15052	1.20	100.0	23.66	18166	0.99	(**)	61.29	C16	3	988
26.70	16094	1.12	100.0	22.12	19424	0.93	(**)	65.54	C16	3	988
23.76	18091	0.99	(**)	19.68	21834	0.82	(**)	73.67	C16	3	988
22.95	18724	0.96	(**)	19.02	22598	0.80	(**)	76.25	C16	3	988
20.40	21064	0.85	(**)	16.90	25422	0.71	(**)	85.78	C16	3	988

Note: (**) Upon request.

PN = 55 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
414.90	1266	1.44	0.3	343.78	1528	1.19	0.3	4.22	C09	2	505
324.40	1619	1.12	(**)	268.79	1954	0.93	(**)	5.39	C09	2	505
263.77	1991	0.91	(**)	218.55	2403	0.76	(**)	6.63	C09	2	505
236.60	2220	1.35	0.3	196.04	2679	1.12	0.3	7.40	C09	2	505
184.99	2839	1.06	(**)	153.28	3427	0.88	(**)	9.46	C09	2	505
150.41	3492	0.86	(**)	124.63	4215	0.71	(**)	11.63	C09	2	505
417.25	1259	2.14	9.6	345.72	1519	1.78	16.1	4.19	C10	2	545
333.12	1577	1.71	10.1	276.01	1903	1.42	17.0	5.25	C10	2	545
270.28	1943	1.39	10.6	223.95	2345	1.15	17.7	6.47	C10	2	545
242.25	2168	2.08	11.1	200.73	2617	1.72	18.5	7.22	C10	2	545
220.55	2382	1.13	11.1	182.74	2874	0.94	(**)	7.93	C10	2	545
193.41	2716	1.66	11.6	160.25	3278	1.37	19.3	9.05	C10	2	545
186.49	2816	0.96	(**)	154.52	3399	0.79	(**)	9.38	C10	2	545
156.92	3347	1.34	19.4	130.02	4040	1.11	20.0	11.15	C10	2	545
128.05	4102	1.10	20.1	106.10	4951	0.91	(**)	13.67	C10	2	545
108.28	4851	0.93	(**)	89.71	5855	0.77	(**)	16.16	C10	2	545
373.44	1407	3.52	55.0	309.42	1698	2.91	55.0	4.69	C13	2	634
317.06	1657	2.99	55.0	262.71	1999	2.47	55.0	5.52	C13	2	634
260.62	2015	2.45	55.0	215.94	2432	2.03	55.0	6.71	C13	2	634
249.10	2109	3.79	55.0	206.40	2545	3.14	55.0	7.03	C13	2	634
214.46	2449	2.02	55.0	177.70	2956	1.67	55.0	8.16	C13	2	634
212.63	2470	3.24	55.0	176.18	2981	2.68	55.0	8.23	C13	2	634
180.53	2910	2.75	55.0	149.58	3512	2.28	55.0	9.69	C13	2	634
177.36	2962	1.67	55.0	146.95	3574	1.38	55.0	9.87	C13	2	634
153.20	3429	1.44	55.0	126.94	4138	1.20	55.0	11.42	C13	2	634

PN = 55 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
148.39	3540	2.26	55.0	122.95	4272	1.87	55.0	11.79	C13	2	634
133.82	3925	1.24	55.0	110.88	4737	1.03	(**)	13.08	C13	2	634
122.11	4301	1.86	55.0	101.18	5191	1.54	55.0	14.33	C13	2	634
100.98	5201	1.54	55.0	83.67	6278	1.27	55.0	17.33	C13	2	634
87.23	6021	1.33	55.0	72.28	7267	1.10	55.0	20.06	C13	2	634
76.20	6893	1.16	55.0	63.13	8320	0.96	(**)	22.97	C13	2	634
78.51	6690	1.20	55.0	65.05	8074	0.99	(**)	22.29	C13	3	645
62.68	8379	0.95	(**)	51.94	10113	0.79	(**)	27.92	C13	3	645
210.14	2499	3.61	65.0	174.12	3017	2.99	65.0	8.33	C14	2	764
174.37	3012	3.02	65.0	144.47	3636	2.50	65.0	10.04	C14	2	764
145.07	3621	2.22	65.0	120.20	4370	1.84	65.0	12.06	C14	2	764
143.70	3655	3.56	65.0	119.06	4412	2.95	65.0	12.18	C14	2	764
124.60	4216	1.93	65.0	103.24	5088	1.60	65.0	14.05	C14	2	764
119.83	4383	2.97	65.0	99.29	5290	2.46	65.0	14.60	C14	2	764
109.90	4779	1.40	65.0	91.06	5768	1.16	65.0	15.92	C14	2	764
99.43	5283	2.46	65.0	82.39	6375	2.04	65.0	17.60	C14	2	764
82.73	6349	2.05	65.0	68.55	7663	1.70	65.0	21.15	C14	2	764
71.05	7393	1.76	65.0	58.87	8922	1.46	65.0	24.63	C14	2	764
62.67	8381	1.40	65.0	51.93	10115	1.16	65.0	27.92	C14	2	764
78.10	6725	1.93	65.0	64.71	8117	1.60	65.0	22.41	C14	3	782
66.66	7879	1.65	65.0	55.23	9509	1.37	65.0	26.25	C14	3	782
56.60	9280	1.40	65.0	46.90	11200	1.16	65.0	30.92	C14	3	782
46.52	11290	1.15	65.0	38.55	13626	0.95	(**)	37.61	C14	3	782
42.76	12284	1.06	(**)	35.43	14825	0.88	(**)	40.93	C14	3	782
38.28	13720	0.95	(**)	31.72	16558	0.79	(**)	45.71	C14	3	782
36.50	14391	0.90	(**)	30.24	17369	0.75	(**)	47.95	C14	3	782
154.52	3399	3.31	100.0	128.03	4102	2.74	100.0	11.33	C16	2	958
129.74	4048	2.47	100.0	107.50	4886	2.05	100.0	13.49	C16	2	958
100.69	5216	3.45	100.0	83.43	6296	2.86	100.0	17.38	C16	2	958
98.89	5311	1.41	100.0	81.94	6410	1.16	100.0	17.70	C16	2	958
82.86	6339	2.84	100.0	68.66	7651	2.35	100.0	21.12	C16	2	958
69.57	7550	2.38	100.0	57.65	9112	1.98	100.0	25.15	C16	2	958
53.03	9905	1.41	100.0	43.94	11954	1.16	100.0	33.00	C16	2	958
55.47	9469	1.90	100.0	45.96	11428	1.58	100.0	31.55	C16	3	988
48.01	10941	1.65	100.0	39.78	13205	1.36	100.0	36.45	C16	3	988
41.26	12730	1.41	100.0	34.19	15363	1.17	100.0	42.41	C16	3	988
34.41	15264	1.18	100.0	28.51	18422	0.98	(**)	50.86	C16	3	988
30.86	17023	1.06	(**)	25.57	20545	0.88	(**)	56.72	C16	3	988
28.55	18396	0.98	(**)	23.66	22203	0.81	(**)	61.29	C16	3	988
26.70	19671	0.92	(**)	22.12	23740	0.76	(**)	65.54	C16	3	988

Note: (**) Upon request.

6 SELECTION TABLES - GEARBOXES

Structured Selection Tables

Size	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	n1 1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
1	2	3	4	5	6	7	8	9											

1. Size of the gearbox.
2. Stages of the reducer.
3. Exact gear ratio of the gearbox.
4. Permissible output torque for operating mode S1 (Fs = 1.0).
5. Permissible input power under operating mode S1 (Fs = 1.0).
6. Output speed with n1 = 1750 rpm.
7. Weight of the gearbox (without motor).
8. Maximum input speed.
9. Applicable motor frame sizes.

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C00	2	2.44	31	2.319	716.28	2	1800	●	●	●									
C00	2	3.54	35	1.810	493.99	2	1800	●	●	●									
C00	2	4.81	39	1.476	363.74	2	1800	●	●	●									
C00	2	6.14	49	1.463	285.19	2	1800	●	●	●									
C00	2	6.88	48	1.279	254.55	2	1800	●	●	●									
C00	2	8.17	45	1.008	214.11	2	1800	●	●	●									
C00	2	8.90	50	1.030	196.68	2	1800	●	●	●									
C00	2	9.97	50	0.919	175.55	2	1800	●	●	●									
C00	2	10.42	45	0.790	167.88	2	1800	●	●	●									
C00	2	12.08	50	0.758	144.82	2	1800	●	●	●									
C00	2	13.54	50	0.677	129.26	2	1800	●	●	●									
C00	2	15.43	50	0.594	113.43	2	1800	●	●	●									
C00	2	17.29	50	0.530	101.24	2	1800	●	●	●									
C00	2	20.53	50	0.446	85.25	2	1800	●	●	●									
C00	2	23.00	50	0.398	76.09	2	1800	●	●	●									
C00	2	26.18	50	0.350	66.84	2	1800	●	●	●									
C00	2	29.33	50	0.312	59.66	2	1800	●	●	●									
C00	2	32.89	50	0.279	53.21	2	1800	●	●	●									
C00	2	36.85	50	0.249	47.49	2	1800	●	●	●									
C00	2	42.34	50	0.216	41.33	2	1800	●	●										
C00	2	47.44	50	0.193	36.89	2	1800	●	●										
C01	2	3.09	66	3.902	565.45	3	1800	●	●	●	●								
C01	2	4.22	66	2.863	414.87	3	1800	●	●	●	●								
C01	2	5.60	66	2.156	312.37	3	1800	●	●	●	●								
C01	2	7.36	85	2.115	237.65	3	1800	●	●	●	●								
C01	2	8.22	85	1.895	212.96	3	1800	●	●	●	●								
C01	2	9.60	66	1.258	182.22	3	1800	●	●	●	●								
C01	2	10.04	85	1.552	174.37	3	1800	●	●	●	●								
C01	2	11.20	85	1.391	156.25	3	1800	●	●	●	●								
C01	2	13.33	85	1.169	131.29	3	1800	●	●	●	●								

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C01	2	14.88	85	1.047	117.65	3	1800	●	●	●	●								
C01	2	15.82	66	0.764	110.63	3	1800	●	●	●	●								
C01	2	17.85	85	0.872	98.02	3	1800	●	●	●	●								
C01	2	19.92	85	0.782	87.84	3	1800	●	●	●	●								
C01	2	22.85	85	0.682	76.58	3	1800	●	●	●	●								
C01	2	25.50	85	0.611	68.63	3	1800	●	●	●	●								
C01	2	29.65	85	0.525	59.02	3	1800	●	●	●	●								
C01	2	33.09	85	0.471	52.88	3	1800	●	●	●	●								
C01	2	37.64	85	0.414	46.50	3	1800	●	●	●	●								
C01	2	42.00	85	0.371	41.67	3	1800	●	●	●	●								
C01	2	46.42	85	0.336	37.70	3	1800	●	●	●	●								
C01	2	51.80	85	0.301	33.78	3	1800	●	●	●	●								
C01	2	59.59	85	0.261	29.37	3	1800	●	●										
C01	2	66.50	85	0.234	26.32	3	1800	●	●										
C03	2	3.34	130	7.132	523.94	5	1800			●	●	●							
C03	2	4.28	130	5.567	408.96	5	1800	●	●	●	●	●							
C03	2	5.41	200	6.769	323.22	5	1800			●	●	●							
C03	2	5.96	200	6.148	293.55	5	1800			●	●	●							
C03	2	6.94	200	5.284	252.29	5	1800	●	●	●	●	●							
C03	2	7.64	200	4.798	229.13	5	1800	●	●	●	●	●							
C03	2	8.92	200	4.111	196.29	5	1800	●	●	●	●	●							
C03	2	9.82	200	3.733	178.27	5	1800	●	●	●	●	●							
C03	2	11.73	200	3.124	149.18	5	1800	●	●	●	●	●							
C03	2	12.92	200	2.837	135.48	5	1800	●	●	●	●	●							
C03	2	15.52	200	2.361	112.75	5	1800	●	●	●	●	●							
C03	2	17.09	200	2.145	102.40	5	1800	●	●	●	●	●							
C03	2	19.44	200	1.885	90.02	5	1800	●	●	●	●	●							
C03	2	21.40	200	1.712	81.76	5	1800	●	●	●	●	●							
C03	2	25.17	200	1.456	69.53	5	1800	●	●	●	●								
C03	2	27.71	200	1.322	63.15	5	1800	●	●	●	●								
C03	2	31.67	200	1.157	55.25	5	1800	●	●	●	●								
C03	2	34.88	200	1.051	50.18	5	1800	●	●	●	●								
C03	2	38.95	170	0.800	44.93	5	1800	●	●	●	●								
C03	2	42.88	180	0.769	40.81	5	1800	●	●	●	●								
C03	3	32.13	200	1.141	54.46	5	1800	●	●	●	●								
C03	3	35.38	200	1.036	49.46	5	1800	●	●	●	●								
C03	3	43.79	200	0.837	39.96	5	1800	●	●	●	●								
C03	3	48.22	200	0.760	36.29	5	1800	●	●	●	●								
C03	3	58.17	200	0.630	30.09	5	1800	●	●	●	●								
C03	3	64.05	200	0.572	27.32	5	1800	●	●	●	●								
C03	3	77.90	200	0.470	22.46	5	1800	●	●	●	●								
C03	3	85.78	200	0.427	20.40	5	1800	●	●	●	●								
C03	3	99.71	200	0.368	17.55	5	1800	●	●	●	●								
C03	3	109.79	200	0.334	15.94	5	1800	●	●	●	●								

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C03	3	129.39	200	0.283	13.52	5	1800	●	●	●	●								
C03	3	142.47	200	0.257	12.28	5	1800	●	●	●	●								
C03	3	164.23	200	0.223	10.66	5	1800	●	●	●	●								
C03	3	180.83	200	0.203	9.68	5	1800	●	●	●	●								
C03	3	202.55	200	0.181	8.64	5	1800	●	●	●	●								
C03	3	223.03	200	0.164	7.85	5	1800	●	●	●	●								
C03	3	260.03	200	0.141	6.73	5	1800	●	●										
C03	3	286.32	200	0.128	6.11	5	1800	●	●										
C05	2	3.83	270	12.928	457.26	9	1800			●	●	●	●	●					
C05	2	4.72	270	10.477	370.59	9	1800			●	●	●	●	●					
C05	2	5.74	400	12.768	304.84	9	1800			●	●	●	●	●					
C05	2	6.31	400	11.607	277.13	9	1800			●	●	●	●	●					
C05	2	7.08	400	10.348	247.06	9	1800			●	●	●	●	●					
C05	2	8.46	400	8.663	206.82	9	1800			●	●	●	●	●					
C05	2	9.31	400	7.875	188.02	9	1800			●	●	●	●	●					
C05	2	10.43	400	7.024	167.71	9	1800	●	●	●	●	●	●	●					
C05	2	11.48	400	6.386	152.46	9	1800	●	●	●	●	●	●	●					
C05	2	12.75	400	5.749	137.25	9	1800	●	●	●	●	●	●	●					
C05	2	14.03	400	5.226	124.78	9	1800	●	●	●	●	●	●	●					
C05	2	16.88	400	4.344	103.70	9	1800	●	●	●	●	●	●	●					
C05	2	18.56	400	3.949	94.28	9	1800	●	●	●	●	●	●	●					
C05	2	21.92	400	3.343	79.82	9	1800	●	●	●	●	●	●	●					
C05	2	24.12	400	3.039	72.57	9	1800	●	●	●	●	●	●	●					
C05	2	26.79	400	2.736	65.33	9	1800	●	●	●	●	●	●	●					
C05	2	29.46	400	2.488	59.39	9	1800	●	●	●	●	●	●	●					
C05	2	34.55	400	2.122	50.66	9	1800	●	●	●	●								
C05	2	38.00	400	1.929	46.05	9	1800	●	●	●	●								
C05	2	43.75	310	1.298	40.00	9	1800	●	●	●	●								
C05	2	48.13	340	1.295	36.36	9	1800	●	●	●	●								
C05	2	53.50	230	0.788	32.71	9	1800	●	●	●	●								
C05	2	58.85	250	0.778	29.74	9	1800	●	●	●	●								
C05	3	44.73	400	1.639	39.13	9	1800			●	●								
C05	3	49.20	400	1.490	35.57	9	1800			●	●								
C05	3	56.02	400	1.308	31.24	9	1800	●	●	●	●								
C05	3	61.63	400	1.189	28.40	9	1800	●	●	●	●								
C05	3	70.71	400	1.037	24.75	9	1800	●	●	●	●								
C05	3	77.79	400	0.942	22.50	9	1800	●	●	●	●								
C05	3	92.32	400	0.794	18.96	9	1800	●	●	●	●								
C05	3	101.55	400	0.722	17.23	9	1800	●	●	●	●								
C05	3	120.88	400	0.606	14.48	9	1800	●	●	●	●								
C05	3	132.97	400	0.551	13.16	9	1800	●	●	●	●								
C05	3	150.41	400	0.487	11.64	9	1800	●	●	●	●								
C05	3	165.45	400	0.443	10.58	9	1800	●	●	●	●								
C05	3	194.29	400	0.377	9.01	9	1800	●	●	●	●								

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C05	3	213.71	400	0.343	8.19	9	1800	●	●	●	●								
C05	3	243.57	400	0.301	7.18	9	1800	●	●	●	●								
C05	3	267.93	400	0.274	6.53	9	1800	●	●	●	●								
C05	3	298.57	400	0.245	5.86	9	1800	●	●	●	●								
C05	3	328.43	400	0.223	5.33	9	1800	●	●	●	●								
C06	2	3.73	380	18.685	469.58	13	1800			●	●	●	●	●					
C06	2	4.70	380	14.821	372.47	13	1800			●	●	●	●	●					
C06	2	5.71	380	12.186	306.25	13	1800			●	●	●	●	●					
C06	2	6.13	600	17.926	285.32	13	1800			●	●	●	●	●					
C06	2	7.73	600	14.218	226.31	13	1800			●	●	●	●	●					
C06	2	8.43	600	13.038	207.52	13	1800			●	●	●	●	●					
C06	2	9.40	600	11.691	186.08	13	1800			●	●	●	●	●					
C06	2	10.26	600	10.720	170.63	13	1800			●	●	●	●	●					
C06	2	11.07	600	9.933	158.10	13	1800			●	●	●	●	●					
C06	2	12.07	600	9.108	144.98	13	1800			●	●	●	●	●					
C06	2	13.49	600	8.148	129.69	13	1800	●	●	●	●	●	●	●					
C06	2	16.36	600	6.719	106.94	13	1800	●	●	●	●	●	●	●					
C06	2	17.85	600	6.161	98.06	13	1800	●	●	●	●	●	●	●					
C06	2	21.51	600	5.111	81.34	13	1800	●	●	●	●	●	●	●					
C06	2	23.46	600	4.686	74.59	13	1800	●	●	●	●	●	●	●					
C06	2	27.78	600	3.958	62.99	13	1800	●	●	●	●	●	●	●					
C06	2	30.30	600	3.629	57.76	13	1800	●	●	●	●	●	●	●					
C06	2	33.86	600	3.247	51.69	13	1800	●	●	●	●	●	●	●					
C06	2	36.92	600	2.978	47.40	13	1800	●	●	●	●	●	●	●					
C06	2	43.60	560	2.353	40.13	13	1800	●	●	●	●								
C06	2	47.55	600	2.312	36.80	13	1800	●	●	●	●								
C06	2	55.02	390	1.299	31.81	13	1800	●	●	●	●								
C06	2	60.00	420	1.283	29.17	13	1800	●	●	●	●								
C06	3	36.97	600	2.974	47.34	13	1800			●	●								
C06	3	40.32	600	2.727	43.41	13	1800			●	●								
C06	3	45.61	600	2.410	38.37	13	1800			●	●								
C06	3	49.74	600	2.210	35.18	13	1800			●	●								
C06	3	54.49	600	2.018	32.12	13	1800			●	●								
C06	3	59.42	600	1.850	29.45	13	1800			●	●								
C06	3	67.19	600	1.636	26.04	13	1800	●	●	●	●								
C06	3	82.10	600	1.339	21.31	13	1800	●	●	●	●								
C06	3	89.54	600	1.228	19.54	13	1800	●	●	●	●								
C06	3	108.67	600	1.012	16.10	13	1800	●	●	●	●								
C06	3	118.51	600	0.928	14.77	13	1800	●	●	●	●								
C06	3	141.17	600	0.779	12.40	13	1800	●	●	●	●								
C06	3	153.96	600	0.714	11.37	13	1800	●	●	●	●								
C06	3	172.49	600	0.637	10.15	13	1800	●	●	●	●								
C06	3	188.11	600	0.584	9.30	13	1800	●	●	●	●								

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C06	3	222.46	600	0.494	7.87	13	1800	●	●	●	●								
C06	3	242.60	600	0.453	7.21	13	1800	●	●	●	●								
C06	3	281.73	600	0.390	6.21	13	1800	●	●	●	●								
C06	3	307.24	600	0.358	5.70	13	1800	●	●	●	●								
C06	3	344.51	600	0.319	5.08	13	1800	●	●	●	●								
C06	3	375.71	600	0.293	4.66	13	1800	●	●	●	●								
C07	2	5.30	500	17.273	329.92	31	1800			●	●	●	●	●	●				
C07	2	6.44	530	15.083	271.79	31	1800			●	●	●	●	●	●				
C07	2	7.63	560	13.458	229.51	31	1800			●	●	●	●	●	●				
C07	2	8.80	590	12.289	198.91	31	1800			●	●	●	●	●	●				
C07	2	9.10	560	11.280	192.37	31	1800			●	●	●	●	●	●				
C07	2	10.00	580	10.628	175.00	31	1800			●	●	●	●	●	●				
C07	2	11.04	600	9.957	158.48	31	1800			●	●	●	●	●	●				
C07	2	12.14	610	9.208	144.16	31	1800			●	●	●	●	●	●				
C07	2	13.08	580	8.128	133.82	31	1800			●	●	●	●	●	●				
C07	2	14.38	600	7.649	121.74	31	1800			●	●	●	●	●	●				
C07	2	15.09	660	8.015	115.98	31	1800			●	●	●	●	●					
C07	2	16.59	670	7.402	105.51	31	1800			●	●	●	●	●					
C07	2	17.74	640	6.611	98.65	31	1800			●	●	●	●	●					
C07	2	19.50	660	6.202	89.74	31	1800			●	●	●	●	●					
C07	2	21.45	680	5.810	81.60	31	1800			●	●	●	●						
C07	2	23.58	700	5.441	74.23	31	1800			●	●	●	●						
C07	2	27.79	740	4.880	62.98	31	1800			●	●	●	●	●					
C07	2	30.55	760	4.559	57.29	31	1800			●	●	●	●	●					
C07	3	35.63	730	3.754	49.12	32	1800			●	●	●	●	●					
C07	3	39.17	770	3.603	44.68	32	1800			●	●	●	●	●					
C07	3	44.92	800	3.264	38.96	32	1800			●	●	●	●	●					
C07	3	49.38	820	3.043	35.44	32	1800			●	●	●	●	●					
C07	3	54.63	820	2.750	32.03	32	1800			●	●	●	●	●					
C07	3	60.06	820	2.502	29.14	32	1800			●	●	●	●	●					
C07	3	64.30	820	2.337	27.22	32	1800			●	●	●	●	●					
C07	3	70.68	820	2.126	24.76	32	1800			●	●	●	●	●					
C07	3	78.39	820	1.917	22.33	32	1800	●	●	●	●	●	●	●					
C07	3	86.17	820	1.744	20.31	32	1800	●	●	●	●	●	●	●					
C07	3	95.06	820	1.581	18.41	32	1800	●	●	●	●	●	●						
C07	3	104.50	820	1.438	16.75	32	1800	●	●	●	●	●	●						
C07	3	124.97	820	1.202	14.00	32	1800	●	●	●	●	●							
C07	3	137.38	820	1.094	12.74	32	1800	●	●	●	●	●							
C07	3	161.38	820	0.931	10.84	32	1800	●	●	●	●	●							
C07	3	177.39	820	0.847	9.86	32	1800	●	●	●	●	●							
C07	3	196.68	820	0.764	8.90	32	1800	●	●	●	●	●							
C07	3	216.20	820	0.695	8.09	32	1800	●	●	●	●	●							
C07	3	253.30	820	0.593	6.91	32	1800	●	●	●	●								
C07	3	278.44	820	0.540	6.29	32	1800	●	●	●	●								

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C07	3	319.60	820	0.470	5.48	32	1800	●	●	●	●								
C07	3	351.33	820	0.428	4.98	32	1800	●	●	●	●								
C08	2	5.12	770	27.583	342.11	55	1800							●	●	●			
C08	2	6.24	830	24.377	280.49	55	1800					●	●	●	●	●			
C08	2	7.40	880	21.780	236.36	55	1800					●	●	●	●	●			
C08	2	8.83	930	19.309	198.28	55	1800			●	●	●	●	●	●	●			
C08	2	8.87	950	19.618	197.21	55	1800							●	●	●			
C08	2	10.37	980	17.317	168.75	55	1800			●	●	●	●	●	●	●			
C08	2	10.82	1010	17.101	161.69	55	1800					●	●	●	●	●			
C08	2	12.84	1040	14.838	136.26	55	1800					●	●	●	●	●			
C08	2	15.31	1120	13.405	114.30	55	1800			●	●	●	●	●	●	●			
C08	2	17.99	1180	12.020	97.28	55	1800			●	●	●	●	●	●	●			
C08	2	21.00	1240	10.822	83.35	55	1800			●	●	●	●	●					
C08	2	24.05	1270	9.676	72.76	55	1800			●	●	●	●	●					
C08	2	27.98	1300	8.514	62.54	55	1800			●	●	●	●	●					
C08	2	33.09	1440	7.975	52.89	55	1800			●	●	●	●						
C08	2	37.44	1500	7.341	46.74	55	1800			●	●	●							
C08	2	42.88	1550	6.624	40.81	55	1800			●	●	●							
C08	2	54.18	1550	5.243	32.30	55	1800			●	●	●							
C08	3	61.37	1550	4.628	28.51	56	1800			●	●	●	●						
C08	3	74.50	1550	3.812	23.49	56	1800			●	●	●	●						
C08	3	88.23	1550	3.219	19.84	56	1800			●	●	●	●						
C08	3	101.80	1550	2.790	17.19	56	1800		●	●	●	●	●						
C08	3	119.68	1550	2.373	14.62	56	1800		●	●	●	●	●						
C08	3	144.69	1550	1.963	12.09	56	1800		●	●	●	●							
C08	3	187.48	1550	1.515	9.33	56	1800		●	●	●	●							
C08	3	238.89	1550	1.189	7.33	56	1800		●	●	●	●							
C08	3	284.84	1550	0.997	6.14	56	1800		●	●	●	●							
C08	3	368.94	1550	0.770	4.74	56	1800		●	●	●								
C09	2	4.22	1819	79.031	414.90	95	1800								●	●	●	●	
C09	2	5.39	1819	61.792	324.40	95	1800								●	●	●	●	
C09	2	6.63	1819	50.243	263.77	95	1800							●	●	●	●	●	
C09	2	7.40	3000	74.324	236.60	95	1800								●	●	●	●	
C09	2	7.91	1819	42.147	221.26	95	1800							●	●	●	●	●	
C09	2	9.17	1819	36.360	190.88	95	1800							●	●	●	●	●	
C09	2	9.46	3000	58.112	184.99	95	1800								●	●	●	●	
C09	2	10.77	1819	30.943	162.45	95	1800						●	●	●	●			
C09	2	11.63	3000	47.250	150.41	95	1800							●	●	●	●	●	
C09	2	12.21	1465	21.990	143.33	95	1800						●	●	●	●			
C09	2	12.66	1819	26.327	138.21	95	1800				●	●	●	●	●	●			
C09	2	13.87	3000	39.636	126.18	95	1800							●	●	●	●	●	
C09	2	14.64	1819	22.775	119.57	95	1800				●	●	●	●	●				
C09	2	16.08	3000	34.194	108.85	95	1800							●	●	●	●	●	
C09	2	16.53	1700	18.849	105.89	95	1800				●	●	●	●					

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C09	2	18.89	3000	29.100	92.64	95	1800						●	●	●	●			
C09	2	19.09	1706	16.377	91.67	95	1800				●	●	●	●					
C09	2	21.41	2569	21.990	81.73	95	1800						●	●	●	●			
C09	2	22.20	3000	24.759	78.82	95	1800				●	●	●	●	●	●			
C09	2	22.58	1694	13.743	77.50	95	1800				●	●	●						
C09	2	25.67	3000	21.418	68.18	95	1800				●	●	●	●	●				
C09	2	28.98	2981	18.849	60.38	95	1800				●	●	●	●					
C09	2	33.48	2992	16.377	52.27	95	1800				●	●	●	●					
C09	2	39.60	2970	13.743	44.19	95	1800				●	●	●						
C09	3	25.26	3000	21.760	69.27	97	1800							●	●	●	●	●	
C09	3	30.81	3000	17.841	56.79	97	1800							●	●	●	●	●	
C09	3	36.57	3000	15.034	47.86	97	1800							●	●	●	●	●	
C09	3	43.59	3000	12.612	40.15	97	1800						●	●	●	●			
C09	3	49.39	3000	11.131	35.43	97	1800						●	●	●	●			
C09	3	50.24	3000	10.942	34.83	97	1800							●	●	●	●	●	
C09	3	51.22	3000	10.734	34.17	97	1800				●	●	●	●	●	●			
C09	3	59.78	3000	9.196	29.27	97	1800				●	●	●	●	●				
C09	3	61.28	3000	8.971	28.56	97	1800							●	●	●	●	●	
C09	3	68.48	3000	8.028	25.56	97	1800				●	●	●	●					
C09	3	72.72	3000	7.560	24.07	97	1800							●	●	●	●	●	
C09	3	79.66	3000	6.901	21.97	97	1800				●	●	●	●					
C09	3	86.68	3000	6.342	20.19	97	1800						●	●	●	●			
C09	3	94.21	3000	5.835	18.58	97	1800				●	●	●						
C09	3	98.21	3000	5.597	17.82	97	1800						●	●	●	●			
C09	3	101.85	3000	5.397	17.18	97	1800				●	●	●	●	●	●			
C09	3	106.60	3000	5.157	16.42	97	1800				●	●							
C09	3	118.88	3000	4.624	14.72	97	1800				●	●	●	●	●				
C09	3	122.08	3000	4.503	14.33	97	1800				●								
C09	3	136.18	3000	4.037	12.85	97	1800				●	●	●	●					
C09	3	158.42	3000	3.470	11.05	97	1800				●	●	●	●					
C09	3	187.34	3000	2.934	9.34	97	1800				●	●	●						
C09	3	211.98	3000	2.593	8.26	97	1800				●	●							
C09	3	242.77	3000	2.264	7.21	97	1800			●	●	●	●	●					
C10	2	4.19	2698	117.872	417.25	135	1800									●	●	●	
C10	2	5.25	2698	94.104	333.12	135	1800								●	●	●	●	
C10	2	6.47	2698	76.353	270.28	135	1800								●	●	●	●	
C10	2	7.22	4500	114.151	242.25	135	1800									●	●	●	
C10	2	7.93	2698	62.304	220.55	135	1800							●	●	●	●	●	
C10	2	9.05	4500	91.134	193.41	135	1800								●	●	●	●	
C10	2	9.38	2698	52.683	186.49	135	1800							●	●	●	●	●	
C10	2	10.86	2698	45.503	161.07	135	1800							●	●	●	●	●	
C10	2	11.15	4500	73.943	156.92	135	1800								●	●	●	●	
C10	2	12.70	2698	38.940	137.84	135	1800						●	●	●	●			
C10	2	13.67	4500	60.337	128.05	135	1800							●	●	●	●	●	
C10	2	14.17	1700	21.990	123.51	135	1800						●	●	●	●			

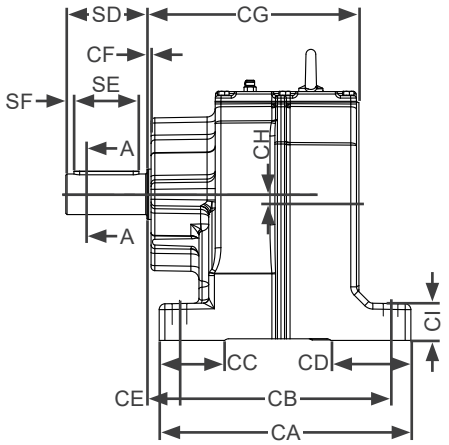
Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C10	2	14.69	2698	33.644	119.10	135	1800						●	●	●	●			
C10	2	16.16	4500	51.020	108.28	135	1800							●	●	●	●	●	
C10	2	16.93	2698	29.205	103.38	135	1800							●	●				
C10	2	18.71	4500	44.066	93.52	135	1800							●	●	●	●	●	
C10	2	19.17	2146	20.514	91.31	135	1800						●	●					
C10	2	21.87	4500	37.711	80.03	135	1800						●	●	●	●			
C10	2	24.40	2929	21.990	71.71	135	1800						●	●	●	●			
C10	2	25.31	4500	32.582	69.15	135	1800						●	●	●	●			
C10	2	29.16	4500	28.283	60.02	135	1800						●	●	●				
C10	2	33.01	3695	20.514	53.01	135	1800						●	●					
C10	3	22.79	4500	36.182	76.79	142	1800								●	●	●	●	
C10	3	29.15	4500	28.290	60.04	142	1800								●	●	●	●	
C10	3	35.85	4500	23.002	48.82	142	1800							●	●	●	●	●	
C10	3	42.74	4500	19.296	40.95	142	1800							●	●	●	●	●	
C10	3	46.03	4500	17.915	38.02	142	1800								●	●	●	●	
C10	3	49.54	4500	16.646	35.33	142	1800							●	●	●	●	●	
C10	3	58.21	4500	14.167	30.06	142	1800						●	●	●	●			
C10	3	58.87	4500	14.008	29.73	142	1800								●	●	●	●	
C10	3	65.97	4500	12.500	26.53	142	1800						●	●	●	●			
C10	3	68.41	4500	12.053	25.58	142	1800				●	●	●	●	●	●			
C10	3	72.40	4500	11.389	24.17	142	1800							●	●	●	●	●	
C10	3	79.08	4500	10.427	22.13	142	1800				●	●	●	●	●				
C10	3	86.31	4500	9.554	20.28	142	1800							●	●	●	●	●	
C10	3	89.30	4500	9.235	19.60	142	1800			●	●	●	●	●					
C10	3	100.05	4500	8.242	17.49	142	1800							●	●	●	●	●	
C10	3	103.15	4500	7.994	16.96	142	1800			●	●	●	●	●					
C10	3	117.56	4500	7.014	14.89	142	1800						●	●	●	●			
C10	3	122.02	4500	6.758	14.34	142	1800			●	●	●	●						
C10	3	133.24	4500	6.189	13.13	142	1800						●	●	●	●			
C10	3	138.17	4500	5.968	12.67	142	1800				●	●	●	●	●	●			
C10	3	159.72	4500	5.163	10.96	142	1800				●	●	●	●	●				
C10	3	180.35	4500	4.572	9.70	142	1800			●	●	●	●	●	●				
C10	3	208.33	4500	3.958	8.40	142	1800			●	●	●	●	●					
C10	3	246.43	4500	3.346	7.10	142	1800			●	●	●	●						
C13	2	4.00	4945	226.559	437.50	224	1800										●	●	
C13	2	4.69	4945	193.383	373.44	224	1800										●	●	
C13	2	5.52	4945	164.188	317.06	224	1800									●	●	●	
C13	2	6.71	4945	134.962	260.62	224	1800								●	●	●	●	
C13	2	7.03	8000	208.673	249.10	224	1800										●	●	
C13	2	8.16	4945	111.058	214.46	224	1800								●	●	●	●	
C13	2	8.23	8000	178.116	212.63	224	1800										●	●	
C13	2	9.69	8000	151.226	180.53	224	1800									●	●	●	
C13	2	9.87	4945	91.844	177.36	224	1800							●	●	●	●	●	
C13	2	11.42	4945	79.335	153.20	224	1800							●	●	●	●	●	

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C13	2	11.79	8000	124.307	148.39	224	1800								●	●	●	●	
C13	2	13.08	4884	68.434	133.82	224	1800								●	●	●	●	
C13	2	14.33	8000	102.290	122.11	224	1800								●	●	●	●	
C13	2	15.19	4945	59.677	115.24	224	1800							●	●	●			
C13	2	17.00	2040	21.990	102.94	224	1800							●	●	●			
C13	2	17.33	8000	84.593	100.98	224	1800							●	●	●	●	●	
C13	2	17.63	3842	39.935	99.26	224	1800							●	●	●			
C13	2	20.06	8000	73.071	87.23	224	1800							●	●	●	●	●	
C13	2	20.22	3032	27.480	86.55	224	1800							●	●				
C13	2	22.97	8000	63.829	76.20	224	1800							●	●	●			
C13	2	26.67	8000	54.965	65.61	224	1800							●	●	●			
C13	2	29.86	3583	21.990	58.61	224	1800							●	●	●			
C13	2	30.96	6748	39.935	56.52	224	1800							●	●	●			
C13	2	35.51	5325	27.480	49.28	224	1800							●	●				
C13	3	22.29	8000	65.771	78.51	235	1800									●	●	●	
C13	3	27.92	8000	52.509	62.68	235	1800								●	●	●	●	
C13	3	34.41	8000	42.604	50.86	235	1800								●	●	●	●	
C13	3	42.17	8000	34.765	41.50	235	1800							●	●	●	●	●	
C13	3	44.83	8000	32.698	39.03	235	1800									●	●	●	
C13	3	49.87	8000	29.397	35.09	235	1800							●	●	●	●	●	
C13	3	56.16	8000	26.105	31.16	235	1800								●	●	●	●	
C13	3	57.74	8000	25.390	30.31	235	1800							●	●	●	●	●	
C13	3	67.47	8000	21.728	25.94	235	1800							●	●	●			
C13	3	69.21	8000	21.180	25.28	235	1800								●	●	●	●	
C13	3	75.30	8000	19.468	23.24	235	1800							●	●	●			
C13	3	78.09	8000	18.773	22.41	235	1800							●	●	●			
C13	3	84.82	8000	17.283	20.63	235	1800							●	●	●	●	●	
C13	3	89.96	8000	16.296	19.45	235	1800							●	●				
C13	3	100.31	8000	14.614	17.45	235	1800							●	●	●	●	●	
C13	3	101.85	8000	14.393	17.18	235	1800							●					
C13	3	116.14	8000	12.622	15.07	235	1800							●	●	●	●	●	
C13	3	135.71	8000	10.802	12.89	235	1800							●	●	●			
C13	3	151.47	8000	9.678	11.55	235	1800							●	●	●			
C13	3	157.08	8000	9.333	11.14	235	1800							●	●	●			
C13	3	180.95	8000	8.101	9.67	235	1800							●	●				
C14	2	5.17	8816	312.74	338.8	354	1800										●	●	
C14	2	5.97	9095	279.22	293.2	354	1800										●	●	
C14	2	6.94	9095	239.99	252.0	354	1800									●	●	●	
C14	2	8.33	9017	198.42	210.1	354	1800									●	●	●	
C14	2	9.06	13000	262.97	193.2	354	1800										●	●	
C14	2	10.04	9095	166.07	174.4	354	1800									●	●	●	
C14	2	10.47	13000	227.58	167.2	354	1800										●	●	
C14	2	12.06	8032	122.02	145.1	354	1800									●	●	●	
C14	2	12.18	13000	195.61	143.7	354	1800									●	●	●	
C14	2	14.05	8155	106.39	124.6	354	1800									●	●	●	

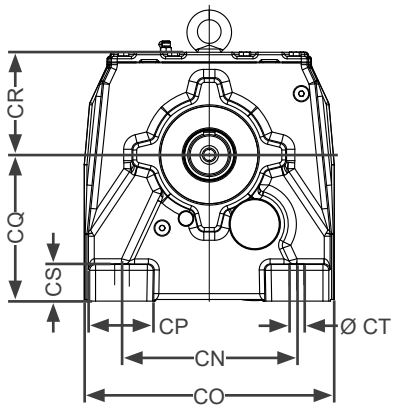
Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C14	2	14.60	13000	163.13	119.8	354	1800									●	●	●	
C14	2	15.92	6706	77.17	109.9	354	1800									●	●	●	
C14	2	17.60	13000	135.35	99.4	354	1800									●	●	●	
C14	2	21.15	13000	112.61	82.7	354	1800									●	●	●	
C14	2	21.37	5213	44.69	81.9	354	1800									●			
C14	2	24.63	13000	96.72	71.1	354	1800									●	●	●	
C14	2	27.92	11759	77.17	62.7	354	1800									●	●	●	
C14	2	37.48	9141	44.69	46.7	354	1800									●			
C14	3	22.41	13000	106.31	78.1	372	1800										●	●	
C14	3	26.25	13000	90.75	66.7	372	1800										●	●	
C14	3	30.92	13000	77.05	56.6	372	1800									●	●	●	
C14	3	37.61	13000	63.33	46.5	372	1800								●	●	●	●	
C14	3	40.93	13000	58.21	42.8	372	1800										●	●	
C14	3	45.71	13000	52.11	38.3	372	1800								●	●	●	●	
C14	3	47.95	13000	49.68	36.5	372	1800										●	●	
C14	3	55.27	13000	43.10	31.7	372	1800								●	●	●	●	
C14	3	56.47	13000	42.18	31.0	372	1800									●	●	●	
C14	3	63.99	13000	37.23	27.3	372	1800								●	●	●	●	
C14	3	68.70	13000	34.67	25.5	372	1800								●	●	●	●	
C14	3	73.25	13000	32.52	23.9	372	1800								●	●	●	●	
C14	3	83.49	13000	28.53	21.0	372	1800								●	●	●	●	
C14	3	85.07	13000	28.00	20.6	372	1800								●	●			
C14	3	95.23	13000	25.01	18.4	372	1800								●	●			
C14	3	98.76	13000	24.12	17.7	372	1800								●	●			
C14	3	100.96	13000	23.60	17.3	372	1800								●	●	●	●	
C14	3	113.27	13000	21.03	15.5	372	1800								●				
C14	3	116.88	13000	20.38	15.0	372	1800								●	●	●	●	
C14	3	133.80	13000	17.80	13.1	372	1800								●	●	●	●	
C14	3	155.38	13000	15.33	11.3	372	1800								●	●			
C14	3	173.94	13000	13.70	10.1	372	1800								●	●			
C14	3	180.38	13000	13.21	9.7	372	1800								●	●			
C16	2	5.96	11261	346.131	293.54	548	1800										●	●	
C16	2	6.85	11261	301.245	255.48	548	1800										●	●	
C16	2	7.93	11261	260.263	220.72	548	1800									●	●	●	
C16	2	9.32	11197	220.157	187.78	548	1800								●	●	●	●	
C16	2	11.12	18000	296.684	157.41	548	1800										●	●	
C16	2	11.33	11261	182.205	154.52	548	1800								●	●	●	●	
C16	2	12.77	18000	258.210	136.99	548	1800										●	●	
C16	2	13.49	10003	135.895	129.74	548	1800								●	●	●	●	
C16	2	14.79	18000	223.082	118.36	548	1800									●	●	●	
C16	2	17.38	18000	189.791	100.69	548	1800								●	●	●	●	
C16	2	17.70	7468	77.330	98.89	548	1800								●	●	●	●	
C16	2	21.12	18000	156.176	82.86	548	1800								●	●	●	●	
C16	2	25.15	18000	131.130	69.57	548	1800								●	●	●	●	
C16	2	33.00	13926	77.330	53.03	548	1800								●	●	●	●	

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
C16	3	31.55	18000	104.554	55.47	578	1800										●	●	
C16	3	36.45	18000	90.482	48.01	578	1800										●	●	
C16	3	42.41	18000	77.771	41.26	578	1800									●	●	●	
C16	3	50.86	18000	64.857	34.41	578	1800								●	●	●	●	
C16	3	56.72	18000	58.157	30.86	578	1800										●	●	
C16	3	61.29	18000	53.815	28.55	578	1800								●	●	●	●	
C16	3	65.54	18000	50.329	26.70	578	1800										●	●	
C16	3	73.67	18000	44.774	23.76	578	1800								●	●	●	●	
C16	3	76.25	18000	43.259	22.95	578	1800									●	●	●	
C16	3	85.78	18000	38.454	20.40	578	1800								●	●	●	●	
C16	3	91.43	18000	36.076	19.14	578	1800								●	●	●	●	
C16	3	97.24	18000	33.920	18.00	578	1800								●	●	●	●	
C16	3	110.19	18000	29.934	15.88	578	1800								●	●	●	●	
C16	3	112.42	18000	29.339	15.57	578	1800								●	●			
C16	3	130.53	18000	25.270	13.41	578	1800								●	●			
C16	3	132.44	18000	24.905	13.21	578	1800								●	●	●	●	
C16	3	154.21	18000	21.389	11.35	578	1800								●	●	●	●	
C16	3	174.82	18000	18.867	10.01	578	1800								●	●	●	●	
C16	3	202.12	18000	16.319	8.66	578	1800								●	●			
C16	3	234.67	18000	14.056	7.46	578	1800								●	●			

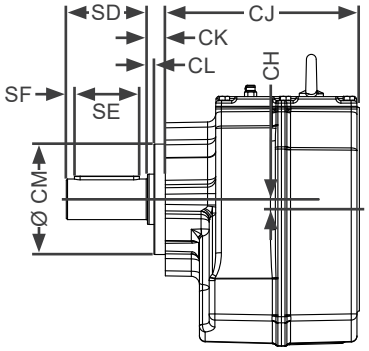
7 DIMENSIONAL DRAWINGS



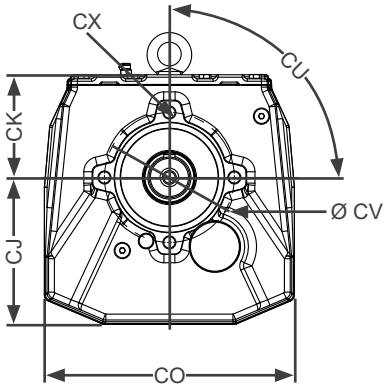
Side view - with feet



Front view - with feet



Side view - without feet

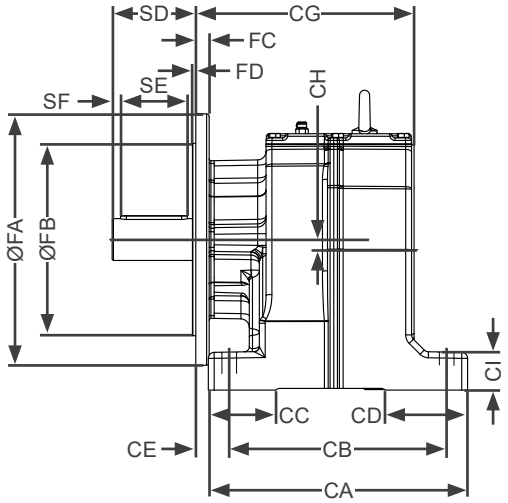


Front view - without feet

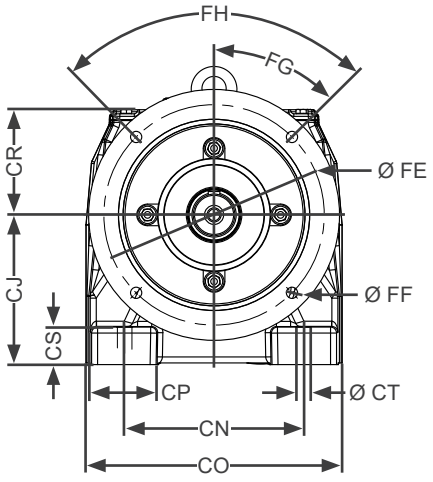
Sizes	Side View												
	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM
C00	108.5	95	29	32	8	1.5	118.5	1.2	7.5	108	12	2	56j6
C01	133	110	28	42	18	1	131	7.3	9	120	12	2	56j6
C03	160	130	40	46	25	2.5	158.5	13.1	11	144.5	13	3	75j6
C05	200	165	56	54	30	5	194 (1) | 204 (2)	16.1	14	177 (1) | 187 (2)	16	6	93j6
C06	241	195	65.5	69.5	30	5	209 (1) | 219 (2)	24.8	15	191 (1) | 201 (2)	17.5	5.5	105j6
C07	245	205	63	80	35	3	219.5	15.5	31	200.5	18.5	6	112j6
C08	310	260	81	99	40	5	261	12.3	46	239	22	8	136j6
C09	365	310	95	105	40	4	318	14.3	56	293	-	-	-
C10	440	370	112	148	45	5	354	22.8	65	329	-	-	-
C13	490	410	122	136	50	5	419	32.9	65	391	-	-	-
C14	590	500	156	176	50	5	485	35.4	82	457	-	-	-
C16	670	580	195	180	60	5	580	67.1	100	549	-	-	-

(1) With FC120 at the input.
(2) With FC160 at the entrance.

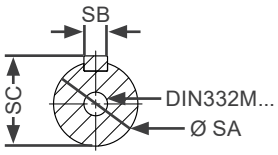
Sizes	Front View									
	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CX
C00	85	108	22	63.5	51	11	6.6	90°	69	M6x12
C01	110	140	29	74	57	12.5	9	90°	69	M6x12
C03	110	161	44	89	61	19	9	90°	90	M6x12
C05	135	190	50	114	71	23	14	90°	112	M10x20
C06	150	215	63	128.5	82	29	14	90°	130	M10x20
C07	170	251	67	141	98.5	31	17.5	90°	136	M12x18
C08	215	308	81	181	126	46	17.5	90°	160	M16x24
C09	250	366	107	226	152	56	22	-	-	-
C10	290	426	115	251	159	65	26	-	-	-
C13	340	468	110	315	186	65	33	-	-	-
C14	380	551	170	355	211	82	39	-	-	-
C16	500	666	160	425	251	100	39	-	-	-



Side view with flange



Front view with flange



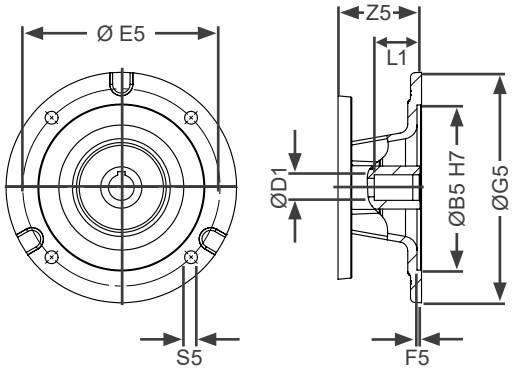
DETAIL A-A: Detail of the output shaft

Sizes	Solid Output Shaft						
	SA	SB	SC	SD	SE	SF	DIN332 M...
C00	20k6	6	22.5	40	32	4	M6
C01	20k6	6	22.5	40	32	4	M6
C03	25k6	8	28	50	40	5	M10
C05	30k6	8	33	60	50	5	M12
C06	35k6	10	38	70	56	7	M12
C07	40k6	12	43	80	70	5	M16
C08	50k6	14	53.5	100	80	10	M16
C09	60m6	18	64	120	110	5	M20
C10	70m6	20	74.5	140	125	7.5	M20
C13	90m6	25	95	170	160	5	M24
C14	110m6	28	116	210	180	15	M24
C16	120m6	32	127	210	200	5	M24

Sizes	Flange							
	FA	FB	FC	FD	FE	FF	FG	FH
C00	120	80j6	8	3	100	6.5	45°	(4x)90°
	140	95j6	9	3	115	9	45°	(4x)90°
	160	110j6	10	3.5	130	9	45°	(4x)90°
C01	120	80j6	8	3	100	6.5	45°	(4x)90°
	140	95j6	9	3	115	9	45°	(4x)90°
	160	110j6	10	3.5	130	9	45°	(4x)90°
C03	120	80j6	8	3	100	6.5	45°	(4x)90°
	140	95j6	9	3	115	9	45°	(4x)90°
	160	110j6	10	3.5	130	9	45°	(4x)90°
	200	130j6	12	3.5	165	11	45°	(4x)90°
C05	160	110j6	10	3.5	130	9	45°	(4x)90°
	200	130j6	12	3.5	165	11	45°	(4x)90°
	250	180j6	15	4	215	13.5	45°	(4x)90°
C06	200	130j6	12	3.5	165	11	45°	(4x)90°
	250	180j6	15	4	215	13.5	45°	(4x)90°

Sizes	Flange							
	FA	FB	FC	FD	FE	FF	FG	FH
C07	250	180j6	15	4	215	13.5	45°	(4x)90°
	300	230j6	16	4	265	13.5	45°	(4x)90°
C08	300	230j6	16	4	265	13.5	45°	(4x)90°
	350	250h6	18	5	300	17.5	45°	(4x)90°
C09	350	250h6	20	5	300	17.5	45°	(4x)90°
	450	350h6	22	5	400	17.5	22.5°	(8x)45°
C10	350	250h6	20	5	300	17.5	45°	(4x)90°
	450	350h6	22	5	400	17.5	22.5°	(8x)45°
C13	450	350h6	22	5	400	17.5	22.5°	(8x)45°
	550	450h6	25	5	500	17.5	22.5°	(8x)45°
C14	450	350h6	22	5	400	17.5	22.5°	(8x)45°
	550	450h6	25	5	500	17.5	22.5°	(8x)45°
C16	550	450h6	25	5	500	17.5	22.5°	(8x)45°
	660	550h6	28	6	600	22	22.5°	(8x)45°

7.1 IEC ADAPTER



Size		C00	C01	C03	C05	C06	C07	C08	C09	C10	C13	C14	C16
IEC63	Z5	32	32	32	32	32	32	-	-	-	-	-	-
IEC71		32	32	32	32	32	32	32	-	-	-	-	-
IEC80		60	60	60	60	60	60	60	60	60	-	-	-
IEC90		-	60	60	60	60	60	60	60	60	-	-	-
IEC100		-	-	91	91	91	91	91	82.5	82.5	-	-	-
IEC112		-	-	-	91	91	91	91	82.5	82.5	-	-	-
IEC132		-	-	-	-	101.5	111.5	110.5	103	103	92.5	92.5	-
IEC160		-	-	-	-	-	152.5	152.5	143	143	144	144	144
IEC180		-	-	-	-	-	-	152.5	143	143	144	144	144

Type	B5	E5	F5	G5	S5	D1	L1
IEC63	95	115	4.5	160	M8	11	23
IEC71	110	130	4.5	160	M8	14	30
IEC80	130	165	4.5	200	12	19	40
IEC90	130	165	4.5	200	12	24	50
IEC100	180	215	5	250	14	28	60
IEC112	180	215	5	250	14	28	60
IEC132	230	265	6	300	15	38	80
IEC160	250	300	6	350	19	42	110
IEC180	250	300	6	350	19	48	110

WCG20 F Ex h

Parallel helical gearmotors.

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WEG CESTARI REDUTORES

1 TECHNICAL SPECIFICATIONS

Housing Size		F02	F03	F04	F05	F06	F07
Power Range		0.12 - 1.5 kW	0.12 - 3 kW	0.12 - 3 kW	0.12 - 9.2 kW	0.12 - 15 kW	0.12 - 15 kW
Rated Torque		130 Nm	220 Nm	400 Nm	600 Nm	820 Nm	1500 Nm
Gear Ratio		3.93 - 97.85	3.85 - 70.17	4.42 - 422.98	5.17 - 487.67	4.41 - 412.64	4.29 - 305.42
Number of Stages		2	2	2 / 3	2 / 3	2 / 3	2 / 3
Case Material		Aluminum				Gray Cast Iron	
Solid Shaft	Design	With a split keyway in accordance with DIN 6885.1 and a threaded bore in accordance with DIN 332					
	Tolerance	< Ø 55: k6 / > Ø 55: m6					
	Material	SAE 1045					
Flange	Tolerance	Centering < 230: j6 / > 230: h6 according to DIN EN 50347					
	Material	Gray cast iron					
Toothed Parts	Design	Rectified					
	Material	Case-hardened SAE 8620 - min. 58 HRC					
Shaft Retainers	Design	Design A / AS per DIN 3760					
	Material	FKM					
Lubricants	Design	Standard: CLP ISO VG 220 / Optional: CLP ISO HC VG 200, CLP PG 220, and H1 ISO VG 220					
	Filling Capacity	Depending on the installation position					
Shaft Height		According to DIN 747: < 50: -0.4; > 50 to < 250: -0.5; > 250: -1 In compact gear units, the motor can be designed below its mounting surfaces					

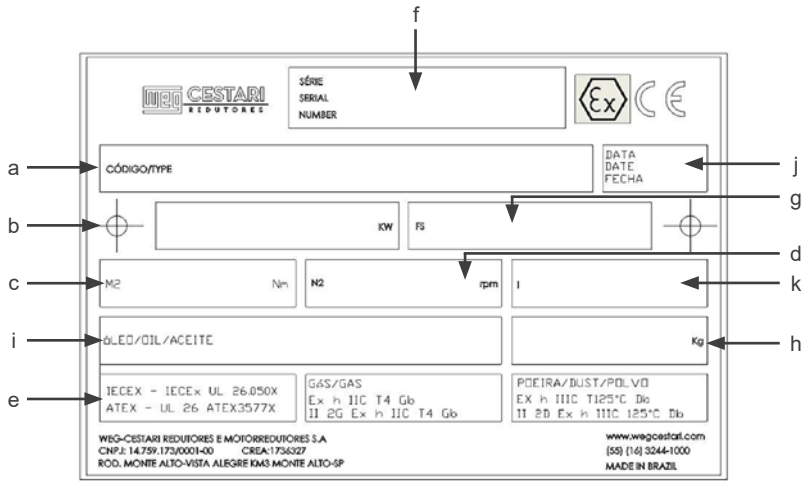
Housing Size		F08	F09	F10	F12	F15
Power Range		0.75 - 55 kW	0.75 - 55 kW	0.75 - 75 kW	0.75 - 75 kW	15 - 75 kW
Nominal Torque		3000 Nm	4500 Nm	8000 Nm	13000 Nm	18000 Nm
Gear Ratio		4.09 - 283.76	4.46 - 288.50	4.38 - 246.57	4.64 - 220.67	5.84 - 259.81
Number of Stages		2 / 3	2 / 3	2 / 3	2 / 3	2 / 3
Housing Material		Gray Cast Iron				
Solid Shaft	Design	With a split keyway in accordance with DIN 6885.1 and a threaded bore in accordance with DIN 332				
	Tolerance	< Ø 55: k6 / > Ø 55: m6				
	Material	SAE 1045				
Flange	Tolerance	Centering < 230: j6 / > 230: h6 according to DIN EN 50347				
	Material	Gray Cast Iron				
Toothed Parts	Design	Rectified				
	Material	Case-hardened SAE 8620 - min. 58 HRC				
Shaft Seals	Design	Design A / AS per DIN 3760				
	Material	FKM				
Lubricants	Design	Standard: CLP ISO VG 220 / Optional: CLP ISO HC VG 200, CLP PG 220, and H1 ISO VG 220				
	Filling Capacity	Depending on the installation position				
Shaft Height		According to DIN 747: < 50: -0.4; > 50 to < 250: -0.5; > 250: -1 In compact gearboxes, the motor can be designed below its mounting surfaces				

Criterion

Criterion	Description
Type of protection	Ex h - mechanical protection (ISO 80079-37)
Zones	1 / 21 (probable presence of gas or dust)
	2 / 22 (occasional and short-term presence)
Gas Groups	IIC: High-risk gases, such as hydrogen and acetylene
	IIIC - Conductive dusts, such as aluminum and coal
Temperature class	T4 / T125 °C - Maximum surface temperature limited to 135 °C for gases and 125 °C for dusts
EPL - Equipment protection level	Gb, Gc, Db, and Dc - High/average protection level

2 GENERAL INFORMATION

2.1 IDENTIFICATION PLATE



a - Product name	g - Service factor
b - Motor power	h - Mass
c - Output torque	i - Oil quantity and type
d - Output speed	j - Date of manufacture
e - Certificate number	k - Gear ratio
f - Serial number	

2.2 PRODUCT DESCRIPTION

WCG20x F08 3 TH I 100 3kW 4P W22 S

1 2 3 4 5 6 7 8 9 10 11

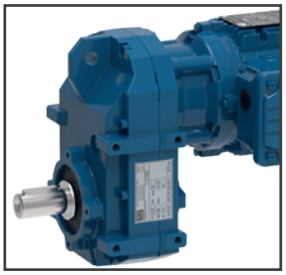
1 Geared Platform
WCG20x = Geared Motor Line Ex h
2 Sizes
F02 | F03 | F04 | F05 | F06 | F07 | F08 | F09 | F10 | F12 | F15
3 Number of Stages
2 = 2-stage gearbox 3 = 3-stage gearbox
4 Fixing
H = Housing F = B5 flange K = Feet + B5 flange
5 Output shaft
H = Hollow S = Solid B = Solid on both sides (A+B) D = Shrink disc E = Easylock
6 Input Type
I = Motor adapter with FF flange
7 Motor Frame
63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | 180 | 200 | 225 | 250 | 280
8 Motor Power
0.12 kW | 0.18 kW | 0.25 kW | 0.37 kW | 0.5 kW | 0.75 kW | 1.1 kW | 1.5 kW | 2.2 kW | 3 kW | 3.7 kW | 4 kW | 4.5 kW | 7.5 kW | 9.2 kW | 11 kW | 15 kW | 18.5 kW | 22 kW | 30 kW | 37 kW | 45 kW | 55 kW

9 Motor Polarity
4P = 4 poles 6P = 6 poles 8P = 8 poles
10 Motor Platform
W21 W22
11 Specialty Indicator
(No load) = Standard S = Special

2.3 HOUSING MATERIAL

Housing Size	F02	F03	F04	F05	F06	F07	F08	F09	F10	F12	F15
Housing Material	Aluminum				Cast iron						

2.4 MOUNTING TYPE (FIXING + OUTPUT SHAFT)



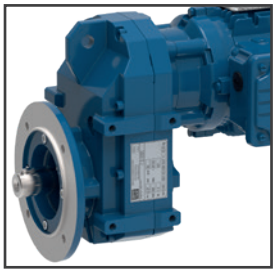
1



2



3



4



5



6



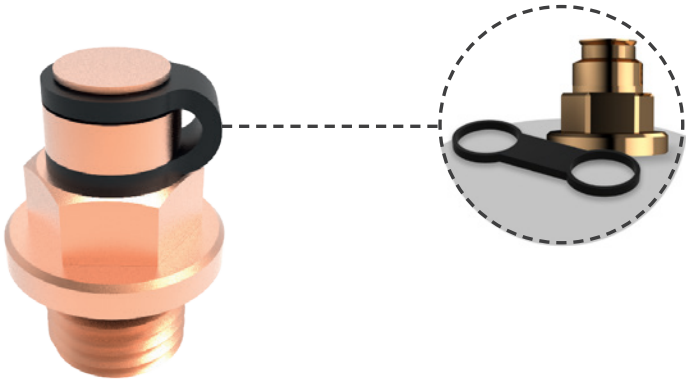
7

1 - Feet + Integral Shaft	5 - Flange + Hollow shaft with key
2 - Feet + Hollow Shaft with Key	6 - Torque arm + Hollow shaft with key
3 - Feet + Double-Ended Shaft	7 - Torque arm + Hollow shaft with shrink disc
4 - Flange + Solid shaft	

2.5 LUBRICATION AND VENT PLUGS

- Gearboxes F02 to F05: do not have breather plugs or oil drains. These models are supplied with permanent lubrication (5,000 h at an operating temperature of up to 80 °C).

- Gearboxes F06 to F15: are equipped, as standard, with breather vents with transport protection (see illustration).

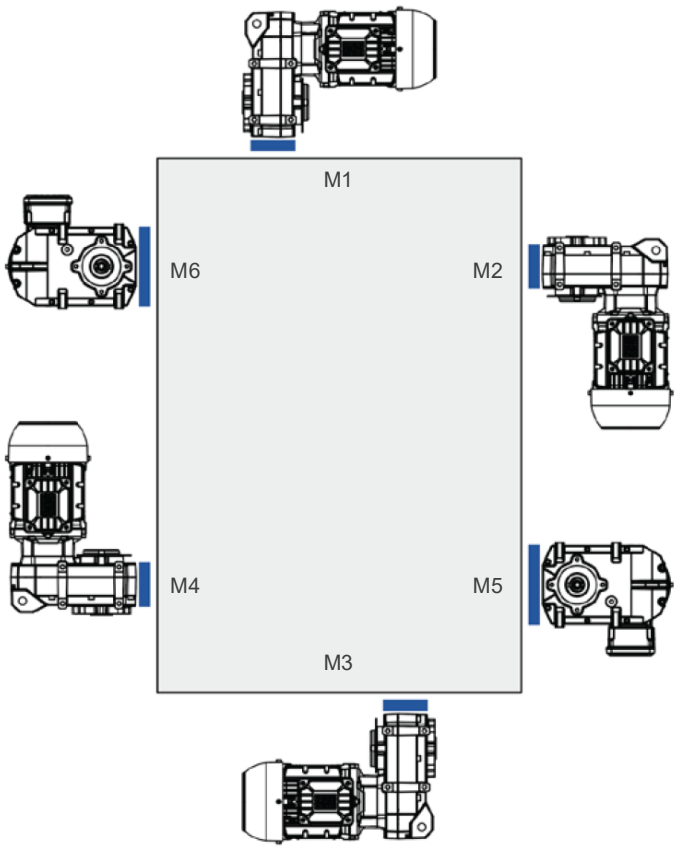


ATTENTION!

- The rubber lead seal on the breather must be completely removed before starting the equipment.
- The breather must be installed in the position corresponding to the mounting position (Chapter 3 MOUNTIN POSITION on page 95).

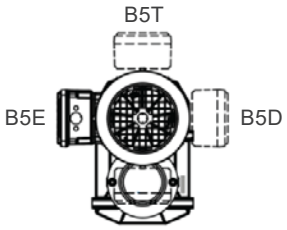
3 MOUNTING POSITION

Mounting Position: Sizes F02 to F05

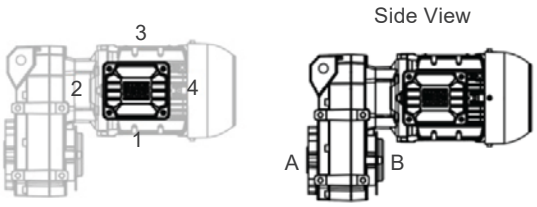


Position of the junction box

Standard: B5E



(Connection housing position 270°)

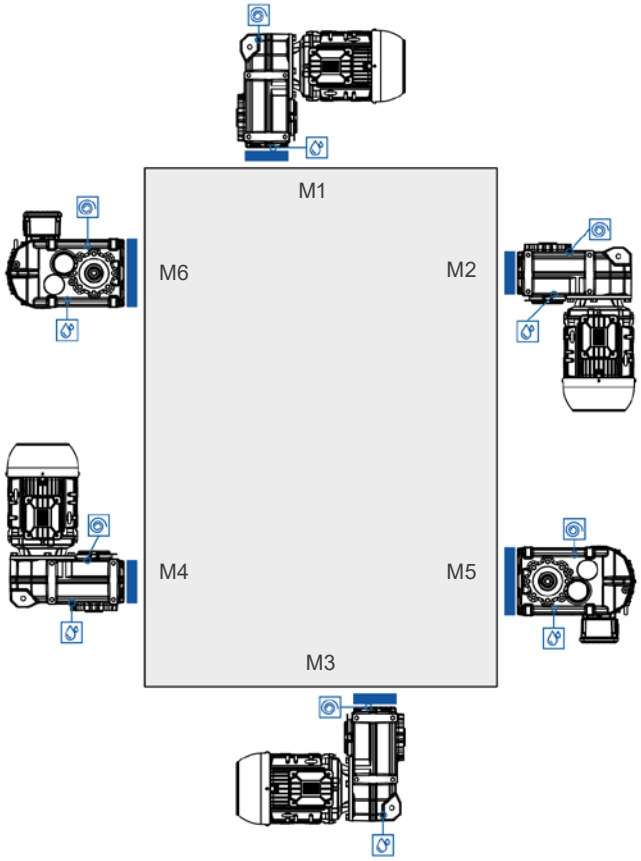


Cable Entry

Standard: for low-hand, dotted, and axis

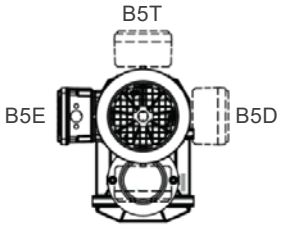
Notes: **(1)** For low-hand and center-axle.
(2) Axle-facing.
(3) For top-mounted, shaft-mounted.
(4) Facing the rear.

Mounting Position: Sizes F06 to F15

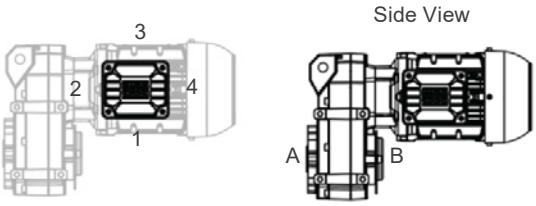


Connection box position

Standard: B5E



(Connection housing position 270°)



Cable Entry

Standard: downward when looking at the shaft extension

Breather position

Oil drain position

Notes: **(1)** Downward when looking toward the shaft end.
(2) Facing the shaft.
(3) Up when looking toward the shaft end.
(4) Facing the rear.

4 OIL QUANTITY

2- and 3-Stages							
Mounting Positions/Quantity in Liters							
Sizes	**Stages**	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**
F02	2	0.5	0.7	0.6	0.8	0.5	0.5
F03		0.8	1.1	0.7	1.1	0.8	0.8
F04		1.1	1.8	1.1	1.9	1.1	1.1
F05		2.0	2.3	1.5	2.8	1.7	1.8
F06		2.3	3.6	2.5	4.0	2.3	2.5
F07		4.9	6.3	4.2	8.0	4.4	4.8
F08		10.0	13.5	11.5	13.5	11.0	9.5
F09		17.0	22.0	20.0	26.0	19.0	16.0
F10		23.0	33.5	29.5	37.0	27.5	24.0
F12		35.0	55.5	46.5	64.5	28.5	40.5
F15		60.0	105.0	88.0	100.5	50.5	75.5
F04	3	1.5	1.7	1.1	1.8	1.0	1.1
F05		2.3	2.2	1.4	2.5	1.6	1.5
F06		2.7	3.5	2.3	3.8	2.4	2.3
F07		5.8	6.2	3.9	7.7	4.4	4.5
F08		8.5	14.5	12.5	15.0	7.0	10.5
F09		16.0	24.0	21.5	28.0	13.5	18.0
F10		22.0	36.5	32.5	41.0	19.5	27.5
F12		36.5	51.0	42.5	58.5	40.5	35.5
F15		69.0	101.5	83.0	108.5	78.5	71.5

5 SELECTION TABLES - GEAR MOTORS

The technical data for the gearmotors listed in the selection tables refer to an ambient temperature of +20 °C.

Structure of the Selection Tables

						1					
PN = 0,00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Weight (kg)
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
2	3	4	5	2	3	4	5	6	7	8	9

1. Nominal motor power.
2. Output speed.
3. Effective torque at the output shaft.
4. Service factor.
5. Permissible radial force at the center of the shaft (standard bearing) with axial force = 0.
6. Exact gear ratio of the reducer.
7. Size of the gearbox.
8. Stages of the gearbox.
9. Weight of the gearmotor.

PN = 0.12 kW										
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
445.51	3	27.91	3.0	369.14	3	23.13	3.2	3.93	F02	2	12.00
326.87	4	23.86	3.3	270.83	4	19.77	3.6	5.35	F02	2	12.00
246.11	5	17.97	3.7	203.92	6	14.89	3.9	7.11	F02	2	12.00
183.75	6	13.41	4.1	152.25	8	11.11	4.3	9.52	F02	2	12.00
160.77	7	18.24	4.3	133.21	9	15.11	4.5	10.89	F02	2	12.00
144.73	8	16.42	4.4	119.92	10	13.60	4.7	12.09	F02	2	12.00
117.95	10	13.38	4.7	97.73	12	11.09	5.0	14.84	F02	2	12.00
110.63	10	8.08	4.8	91.67	13	6.69	5.1	15.82	F02	2	12.00
106.19	11	12.05	4.9	87.99	13	9.98	5.2	16.48	F02	2	12.00
88.81	13	10.07	5.2	73.59	16	8.35	5.2	19.70	F02	2	12.00
79.95	14	9.07	5.2	66.25	17	7.52	5.2	21.89	F02	2	12.00
66.31	17	7.52	5.2	54.94	21	6.23	5.2	26.39	F02	2	12.00
59.70	19	6.77	5.2	49.46	23	5.61	5.2	29.32	F02	2	12.00
51.81	22	5.88	5.2	42.93	27	4.87	5.2	33.78	F02	2	12.00
46.64	25	5.29	5.2	38.64	30	4.38	5.2	37.52	F02	2	12.00
39.92	29	4.53	5.2	33.08	35	3.75	5.2	43.83	F02	2	12.00
35.94	32	4.08	5.2	29.78	38	3.38	5.2	48.69	F02	2	12.00
31.45	36	3.57	5.2	26.06	44	2.96	5.2	55.64	F02	2	12.00
28.32	40	3.21	5.2	23.46	49	2.66	5.1	61.80	F02	2	12.00
25.50	45	2.89	5.2	21.13	54	2.40	5.1	68.62	F02	2	12.00
22.96	50	2.60	5.1	19.02	60	2.16	5.1	76.22	F02	2	12.00
19.87	58	2.25	5.1	16.46	70	1.87	5.0	88.09	F02	2	12.00
17.88	64	2.03	5.0	14.82	77	1.68	4.9	97.85	F02	2	12.00
10.79	106	3.77	6.6	8.94	128	3.12	6.6	162.19	F04	3	18
9.11	126	3.18	6.6	7.55	152	2.64	6.4	192.00	F04	3	18
8.31	138	2.90	6.5	6.89	166	2.40	6.3	210.48	F04	3	18
7.18	160	2.51	6.3	5.95	193	2.08	6.0	243.69	F04	3	18
6.55	175	2.29	6.2	5.43	211	1.89	5.7	267.14	F04	3	18
5.82	197	2.03	5.9	4.82	238	1.68	5.4	300.55	F04	3	18
5.31	216	1.85	5.7	4.40	260	1.54	5.0	329.48	F04	3	18
4.54	253	1.58	5.1	3.76	305	1.31	3.9	385.85	F04	3	18
4.14	277	1.44	4.6	3.43	334	1.20	2.9	422.98	F04	3	18
7.21	159	3.78	9.2	5.98	192	3.13	9.2	242.67	F05	3	21
6.22	184	3.26	9.2	5.15	222	2.70	9.0	281.41	F05	3	21
5.68	202	2.97	9.2	4.71	243	2.46	8.9	308.00	F05	3	21

PN = 0.12 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
5.04	227	2.64	9.0	4.18	274	2.19	8.6	347.07	F05	3	21
4.61	249	2.41	8.8	3.82	300	2.00	8.4	379.87	F05	3	21
3.93	292	2.06	8.5	3.25	352	1.70	7.8	445.56	F05	3	21
3.59	319	1.88	8.2	2.97	385	1.56	7.4	487.67	F05	3	21
5.19	221	3.71	13.6	4.30	267	3.07	13.6	337.44	F06	3	38
4.63	248	3.31	13.5	3.83	299	2.74	13.5	378.37	F06	3	38
4.24	270	3.03	11.8	3.51	326	2.51	12.5	412.64	F06	3	38

PN = 0.18 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
445.51	4	18.61	3.0	369.14	5	15.42	3.2	3.93	F02	2	12.7
326.87	5	15.91	3.4	270.83	6	13.18	3.6	5.35	F02	2	12.7
246.11	7	11.98	3.7	203.92	8	9.92	3.9	7.11	F02	2	12.7
183.75	9	8.94	4.1	152.25	11	7.41	4.4	9.52	F02	2	12.7
160.77	11	12.16	4.3	133.21	13	10.07	4.6	10.89	F02	2	12.7
144.73	12	10.95	4.5	119.92	14	9.07	4.8	12.09	F02	2	12.7
117.95	15	8.92	4.8	97.73	18	7.39	5.1	14.84	F02	2	12.7
110.63	16	5.38	4.9	91.67	19	4.46	5.2	15.82	F02	2	12.7
106.19	16	8.03	5.0	87.99	20	6.65	5.2	16.48	F02	2	12.7
88.81	19	6.72	5.2	73.59	23	5.57	5.2	19.70	F02	2	12.7
79.95	21	6.05	5.2	66.25	26	5.01	5.2	21.89	F02	2	12.7
66.31	26	5.01	5.2	54.94	31	4.15	5.2	26.39	F02	2	12.7
59.70	29	4.51	5.2	49.46	35	3.74	5.2	29.32	F02	2	12.7
51.81	33	3.92	5.2	42.93	40	3.25	5.2	33.78	F02	2	12.7
46.64	37	3.53	5.2	38.64	44	2.92	5.2	37.52	F02	2	12.7
39.92	43	3.02	5.2	33.08	52	2.50	5.1	43.83	F02	2	12.7
35.94	48	2.72	5.1	29.78	58	2.25	5.1	48.69	F02	2	12.7
31.45	55	2.38	5.1	26.06	66	1.97	5.0	55.64	F02	2	12.7
28.32	61	2.14	5.1	23.46	73	1.77	5.0	61.80	F02	2	12.7
25.50	67	1.93	5.0	21.13	81	1.60	4.9	68.62	F02	2	12.7
22.96	75	1.74	5.0	19.02	90	1.44	4.8	76.22	F02	2	12.7
19.87	87	1.50	4.9	16.46	104	1.24	4.7	88.09	F02	2	12.7
17.88	96	1.35	4.8	14.82	116	1.12	4.5	97.85	F02	2	12.7
30.67	56	3.92	4.9	25.41	68	3.25	4.8	57.07	F03	2	14.2
27.50	63	3.52	4.9	22.79	75	2.92	4.8	63.63	F03	2	14.2
24.94	69	3.19	4.9	20.66	83	2.64	4.8	70.17	F03	2	14.2
15.14	114	3.52	6.5	12.54	137	2.92	6.5	115.60	F04	3	18.2
15.14	114	3.52	6.5	12.54	137	2.92	6.5	115.60	F04	3	18
13.81	124	3.21	6.4	11.44	150	2.66	6.4	126.72	F04	3	18
11.83	145	2.75	6.4	9.80	175	2.28	6.2	147.96	F04	3	18
10.79	159	2.51	6.3	8.94	192	2.08	5.5	162.19	F04	3	18
9.11	189	2.12	6.0	7.55	228	1.76	5.5	192.00	F04	3	18
8.31	207	1.93	5.8	6.89	250	1.60	5.1	210.48	F04	3	18
7.18	239	1.67	5.3	5.95	289	1.38	4.3	243.69	F04	3	18
6.55	262	1.52	4.9	5.43	317	1.26	3.5	267.14	F04	3	18
5.82	295	1.35	4.1	4.82	356	1.12	1.6	300.55	F04	3	18
5.31	324	1.24	3.2	4.40	391	1.02	(**)	329.48	F04	3	18
4.54	379	1.06	(**)	3.76	457	0.87	(**)	385.85	F04	3	18
4.14	415	0.96	(**)	3.43	501	0.80	(**)	422.98	F04	3	18

PN = 0.18 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
10.24	168	3.58	9.0	8.49	203	2.96	9.2	170.85	F05	3	22
9.36	184	3.27	9.0	7.75	222	2.71	9.0	187.00	F05	3	22
7.89	218	2.75	9.0	6.54	263	2.28	8.7	221.71	F05	3	22
7.21	238	2.52	8.9	5.98	288	2.09	8.5	242.67	F05	3	22
6.22	276	2.17	8.6	5.15	334	1.80	8.0	281.41	F05	3	22
5.68	303	1.98	8.4	4.71	365	1.64	7.7	308.00	F05	3	22
5.04	341	1.76	7.9	4.18	411	1.46	7.0	347.07	F05	3	22
4.61	373	1.61	7.5	3.82	450	1.33	6.3	379.87	F05	3	22
3.93	438	1.37	6.5	3.25	528	1.14	4.4	445.56	F05	3	22
3.59	479	1.25	5.6	2.97	578	1.04	(**)	487.67	F05	3	22
7.16	240	3.42	11.9	5.93	290	2.83	13.6	244.32	F06	3	39
6.57	262	3.13	11.9	5.44	316	2.60	13.5	266.44	F06	3	39
5.66	304	2.70	11.7	4.69	367	2.24	13.3	309.42	F06	3	39
5.19	331	2.47	11.5	4.30	400	2.05	13.1	337.44	F06	3	39
4.63	372	2.21	11.2	3.83	449	1.83	12.8	378.37	F06	3	39
4.24	405	2.02	11.0	3.51	489	1.68	12.6	412.64	F06	3	39

Note: (**) Upon request.

PN = 0.25 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
445.51	5	13.40	3.0	369.14	6	11.10	3.2	3.93	F02	2	12.7
326.87	7	11.45	3.4	270.83	9	9.49	3.6	5.35	F02	2	12.7
246.11	10	8.62	3.7	203.92	12	7.15	4.0	7.11	F02	2	12.7
183.75	13	6.44	4.1	152.25	16	5.33	4.4	9.52	F02	2	12.7
160.77	15	8.75	4.3	133.21	18	7.25	4.6	10.89	F02	2	12.7
144.73	16	7.88	4.5	119.92	20	6.53	4.8	12.09	F02	2	12.7
117.95	20	6.42	4.8	97.73	24	5.32	5.1	14.84	F02	2	12.7
110.63	22	3.88	4.9	91.67	26	3.21	5.2	15.82	F02	2	12.7
106.19	22	5.78	5.0	87.99	27	4.79	5.2	16.48	F02	2	12.7
88.81	27	4.84	5.2	73.59	32	4.01	5.2	19.70	F02	2	12.7
79.95	30	4.35	5.2	66.25	36	3.61	5.2	21.89	F02	2	12.7
66.31	36	3.61	5.2	54.94	43	2.99	5.2	26.39	F02	2	12.7
59.70	40	3.25	5.2	49.46	48	2.69	5.1	29.32	F02	2	12.7
51.81	46	2.82	5.1	42.93	56	2.34	5.1	33.78	F02	2	12.7
46.64	51	2.54	5.1	38.64	62	2.10	5.1	37.52	F02	2	12.7
39.92	60	2.17	5.1	33.08	72	1.80	5.0	43.83	F02	2	12.7
35.94	66	1.96	5.0	29.78	80	1.62	4.9	48.69	F02	2	12.7
31.45	76	1.71	5.0	26.06	92	1.42	4.8	55.64	F02	2	12.7
28.32	84	1.54	4.9	23.46	102	1.28	4.7	61.80	F02	2	12.7
25.50	94	1.39	4.8	21.13	113	1.15	4.6	68.62	F02	2	12.7
22.96	104	1.25	4.7	19.02	126	1.04	(**)	76.22	F02	2	12.7
19.87	120	1.08	4.5	16.46	145	0.90	(**)	88.09	F02	2	12.7
17.88	133	0.97	(**)	14.82	161	0.81	(**)	97.85	F02	2	12.7
42.56	56	3.92	4.9	35.26	68	3.25	4.9	41.12	F03	2	14.2
38.59	62	3.56	4.9	31.98	75	2.95	4.9	45.35	F03	2	14.2
33.82	71	3.12	4.9	28.02	85	2.58	4.8	51.75	F03	2	14.2
30.67	78	2.83	4.8	25.41	94	2.34	4.7	57.07	F03	2	14.2
27.50	87	2.53	4.7	22.79	105	2.10	4.5	63.63	F03	2	14.2
24.94	96	2.30	4.6	20.66	116	1.90	4.4	70.17	F03	2	14.2

PN = 0.25 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
20.28	118	3.40	6.6	16.80	142	2.81	6.5	86.31	F04	3	18
18.50	129	3.10	6.6	15.33	156	2.57	6.4	94.61	F04	3	18
15.14	158	2.54	6.3	12.54	190	2.10	6.0	115.60	F04	3	18
13.81	173	2.31	6.2	11.44	209	1.92	5.8	126.72	F04	3	18
11.83	202	1.98	5.8	9.80	244	1.64	5.2	147.96	F04	3	18
10.79	221	1.81	5.6	8.94	267	1.50	4.8	162.19	F04	3	18
9.11	262	1.53	4.9	7.55	316	1.27	3.5	192.00	F04	3	18
8.31	287	1.39	4.3	6.89	347	1.15	2.2	210.48	F04	3	18
7.18	332	1.20	4.2	5.95	401	1.00	(**)	243.69	F04	3	18
6.55	364	1.10	4.0	5.43	440	0.91	(**)	267.14	F04	3	18
5.82	410	0.98	(**)	4.82	495	0.81	(**)	300.55	F04	3	18
5.31	449	0.89	(**)	4.40	542	0.74	(**)	329.48	F04	3	18
13.11	182	3.29	9.2	10.86	220	2.73	9.0	133.49	F05	3	22
11.98	199	3.01	9.2	9.92	241	2.49	8.9	146.10	F05	3	22
10.24	233	2.57	8.9	8.49	281	2.13	8.6	170.85	F05	3	22
9.36	255	2.35	8.8	7.75	308	1.95	8.3	187.00	F05	3	22
7.89	302	1.98	8.4	6.54	365	1.64	7.7	221.71	F05	3	22
7.21	331	1.81	8.0	5.98	400	1.50	7.2	242.67	F05	3	22
6.22	384	1.56	7.4	5.15	463	1.29	6.0	281.41	F05	3	22
5.68	420	1.43	6.8	4.71	507	1.18	5.0	308.00	F05	3	22
5.04	474	1.27	5.8	4.18	571	1.05	(**)	347.07	F05	3	22
4.61	518	1.16	5.5	3.82	625	0.96	(**)	379.87	F05	3	22
3.93	608	0.99	(**)	3.25	734	0.82	(**)	445.56	F05	3	22
3.59	665	0.90	(**)	2.97	803	0.75	(**)	487.67	F05	3	22
11.29	212	3.88	12.2	9.35	255	3.21	13.6	155.05	F06	3	39
10.35	231	3.55	12.0	8.58	278	2.95	13.6	169.09	F06	3	39
9.24	258	3.17	11.9	7.65	312	2.63	13.5	189.44	F06	3	39
8.47	282	2.91	11.8	7.02	340	2.41	13.4	206.59	F06	3	39
7.16	333	2.46	11.5	5.93	402	2.04	13.1	244.32	F06	3	39
6.57	364	2.26	11.3	5.44	439	1.87	12.9	266.44	F06	3	39
5.66	422	1.94	10.9	4.69	509	1.61	12.5	309.42	F06	3	39
5.19	460	1.78	10.5	4.30	556	1.48	12.1	337.44	F06	3	39
4.63	516	1.59	10.0	3.83	623	1.32	11.6	378.37	F06	3	39
4.24	563	1.46	9.4	3.51	679	1.21	11.0	412.64	F06	3	39

Note: (**) Upon request.

PN = 0.37 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
445.51	8	9.05	3.1	369.14	10	7.50	3.3	3.93	F02	2	14.4
326.87	11	7.74	3.4	270.83	13	6.41	3.7	5.35	F02	2	14.4
246.11	14	5.83	3.8	203.92	17	4.83	4.1	7.11	F02	2	14.4
183.75	19	4.35	4.2	152.25	23	3.60	4.5	9.52	F02	2	14.4
160.77	22	5.91	4.4	133.21	27	4.90	4.7	10.89	F02	2	14.4
144.73	24	5.32	4.6	119.92	29	4.41	4.9	12.09	F02	2	14.4
117.95	30	4.34	4.9	97.73	36	3.60	5.2	14.84	F02	2	14.4
110.63	32	2.62	5.1	91.67	39	2.17	5.2	15.82	F02	2	14.4
106.19	33	3.91	5.2	87.99	40	3.24	5.2	16.48	F02	2	14.4
88.81	40	3.27	5.2	73.59	48	2.71	5.1	19.70	F02	2	14.4
79.95	44	2.94	5.1	66.25	53	2.44	5.1	21.89	F02	2	14.4

PN = 0.37 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
66.31	53	2.44	5.1	54.94	64	2.02	5.0	26.39	F02	2	14.4
59.70	59	2.20	5.1	49.46	71	1.82	5.0	29.32	F02	2	14.4
51.81	68	1.91	5.0	42.93	82	1.58	4.9	33.78	F02	2	14.4
46.64	76	1.72	4.9	38.64	91	1.42	4.8	37.52	F02	2	14.4
39.92	89	1.47	4.8	33.08	107	1.22	4.6	43.83	F02	2	14.4
35.94	98	1.32	4.7	29.78	119	1.10	4.5	48.69	F02	2	14.4
31.45	112	1.16	4.5	26.06	136	0.96	(**)	55.64	F02	2	14.4
28.32	125	1.04	(**)	23.46	151	0.86	(**)	61.80	F02	2	14.4
25.50	139	0.94	(**)	21.13	167	0.78	(**)	68.62	F02	2	14.4
62.58	56	3.90	4.9	51.85	68	3.23	4.9	27.97	F03	2	15.9
55.10	64	3.43	4.9	45.65	77	2.84	4.8	31.76	F03	2	15.9
49.96	71	3.11	4.9	41.40	85	2.58	4.7	35.03	F03	2	15.9
42.56	83	2.65	4.7	35.26	100	2.20	4.6	41.12	F03	2	15.9
38.59	92	2.40	4.7	31.98	111	1.99	4.4	45.35	F03	2	15.9
33.82	104	2.11	4.5	28.02	126	1.74	4.2	51.75	F03	2	15.9
30.67	115	1.91	4.3	25.41	139	1.58	3.9	57.07	F03	2	15.9
27.50	128	1.71	4.1	22.79	155	1.42	3.6	63.63	F03	2	15.9
24.94	142	1.55	3.9	20.66	171	1.29	3.1	70.17	F03	2	15.9
30.95	114	3.50	6.6	25.65	138	2.90	6.5	56.54	F04	2	19.8
28.24	125	3.20	6.6	23.39	151	2.65	6.4	61.98	F04	2	19.8
33.48	106	3.79	6.5	27.74	127	3.14	6.6	52.27	F04	3	19.9
26.93	131	3.05	6.5	22.31	158	2.53	6.3	64.98	F04	3	19.9
24.57	144	2.78	6.4	20.35	174	2.30	6.1	71.24	F04	3	19.9
20.28	174	2.30	6.1	16.80	210	1.90	5.6	86.31	F04	3	19.9
18.50	191	2.09	5.9	15.33	231	1.73	5.3	94.61	F04	3	19.9
15.14	233	1.71	5.2	12.54	282	1.42	4.2	115.60	F04	3	19.9
13.81	256	1.56	4.8	11.44	309	1.30	3.4	126.72	F04	3	19.9
11.83	299	1.34	3.7	9.80	361	1.11	3.3	147.96	F04	3	19.9
10.79	327	1.22	3.7	8.94	395	1.01	(**)	162.19	F04	3	19.9
9.11	388	1.03	(**)	7.55	468	0.85	(**)	192.00	F04	3	19.9
8.31	425	0.94	(**)	6.89	513	0.78	(**)	210.48	F04	3	19.9
26.80	132	3.49	9.2	22.21	159	2.89	9.4	65.29	F05	2	24
24.49	144	3.47	9.2	20.29	174	2.87	9.3	71.46	F05	2	24
23.32	152	3.96	9.2	19.32	183	3.28	9.2	75.04	F05	3	24
21.31	166	3.62	9.1	17.65	200	3.00	9.1	82.13	F05	3	24
17.56	201	2.98	9.1	14.55	243	2.47	8.8	99.66	F05	3	24
16.04	220	2.72	9.0	13.29	266	2.26	8.6	109.08	F05	3	24
13.11	270	2.23	8.6	10.86	325	1.84	8.0	133.49	F05	3	24
11.98	295	2.03	8.3	9.92	356	1.69	7.6	146.10	F05	3	24
10.24	345	1.74	7.7	8.49	416	1.44	6.6	170.85	F05	3	24
9.36	378	1.59	7.3	7.75	456	1.32	5.8	187.00	F05	3	24
7.89	448	1.34	6.0	6.54	540	1.11	3.1	221.71	F05	3	24
7.21	490	1.22	6.0	5.98	591	1.01	(**)	242.67	F05	3	24
6.22	568	1.06	5.8	5.15	686	0.87	(**)	281.41	F05	3	24
5.68	622	0.96	(**)	4.71	751	0.80	(**)	308.00	F05	3	24
5.04	701	0.86	(**)	4.18	846	0.71	(**)	347.07	F05	3	24
14.66	241	3.40	13.5	12.15	291	2.82	13.5	119.35	F06	3	41
13.45	263	3.12	11.8	11.14	317	2.59	13.4	130.15	F06	3	41
11.29	313	2.62	11.5	9.35	378	2.17	13.1	155.05	F06	3	41

PN = 0.37 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
10.35	341	2.40	11.4	8.58	412	1.99	13.0	169.09	F06	3	41
9.24	383	2.14	11.1	7.65	462	1.78	12.7	189.44	F06	3	41
8.47	417	1.97	10.8	7.02	503	1.63	12.4	206.59	F06	3	41
7.16	493	1.66	10.0	5.93	595	1.38	11.6	244.32	F06	3	41
6.57	538	1.52	9.5	5.44	649	1.26	11.1	266.44	F06	3	41
5.66	625	1.31	8.2	4.69	754	1.09	(**)	309.42	F06	3	41
5.19	681	1.20	8.0	4.30	822	1.00	(**)	337.44	F06	3	41
4.63	764	1.07	7.9	3.83	922	0.89	(**)	378.37	F06	3	41
4.24	833	0.98	(**)	3.51	1006	0.82	(**)	412.64	F06	3	41
8.99	393	3.82	19.6	7.45	474	3.16	19.7	194.58	F07	3	64
7.38	479	3.13	19.6	6.11	578	2.60	17.9	237.15	F07	3	64
5.73	617	2.43	19.1	4.75	744	2.02	19.0	305.42	F07	3	64

Note: (**) Upon request.

PN = 0.55 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
445.51	12	6.09	3.0	369.14	14	5.05	3.2	3.93	F02	2	15.7
326.87	16	5.21	3.4	270.83	19	4.31	3.6	5.35	F02	2	15.7
246.11	21	3.92	3.8	203.92	26	3.25	4.0	7.11	F02	2	15.7
183.75	29	2.93	4.2	152.25	34	2.42	4.5	9.52	F02	2	15.7
160.77	33	3.98	4.4	133.21	39	3.30	4.7	10.89	F02	2	15.7
144.73	36	3.58	4.6	119.92	44	2.97	4.9	12.09	F02	2	15.7
117.95	45	2.92	4.9	97.73	54	2.42	5.1	14.84	F02	2	15.7
110.63	47	1.76	5.0	91.67	57	1.46	5.1	15.82	F02	2	15.7
106.19	49	2.63	5.1	87.99	60	2.18	5.1	16.48	F02	2	15.7
88.81	59	2.20	5.1	73.59	71	1.82	5.0	19.70	F02	2	15.7
79.95	66	1.98	5.0	66.25	79	1.64	5.0	21.89	F02	2	15.7
66.31	79	1.64	4.9	54.94	96	1.36	4.8	26.39	F02	2	15.7
59.70	88	1.48	4.9	49.46	106	1.22	4.7	29.32	F02	2	15.7
51.81	101	1.28	4.7	42.93	122	1.06	4.5	33.78	F02	2	15.7
46.64	113	1.15	4.5	38.64	136	0.96	(**)	37.52	F02	2	15.7
39.92	132	0.99	(**)	33.08	159	0.82	(**)	43.83	F02	2	15.7
35.94	146	0.89	(**)	29.78	176	0.74	(**)	48.69	F02	2	15.7
91.30	58	3.82	4.9	75.65	69	3.17	4.9	19.17	F03	2	17
82.80	63	3.47	4.9	68.60	77	2.87	4.9	21.14	F03	2	17
69.01	76	2.89	4.9	57.18	92	2.39	4.7	25.36	F03	2	17
62.58	84	2.62	4.8	51.85	101	2.17	4.6	27.97	F03	2	17
55.10	95	2.31	4.7	45.65	115	1.91	4.5	31.76	F03	2	17
49.96	105	2.09	4.6	41.40	127	1.73	4.3	35.03	F03	2	17
42.56	123	1.78	4.3	35.26	149	1.48	3.9	41.12	F03	2	17
38.59	136	1.62	4.1	31.98	164	1.34	3.6	45.35	F03	2	17
33.82	155	1.42	3.8	28.02	187	1.17	3.0	51.75	F03	2	17
30.67	171	1.28	3.4	25.41	207	1.06	2.3	57.07	F03	2	17
27.50	191	1.15	3.2	22.79	231	0.95	(**)	63.63	F03	2	17
24.94	211	1.04	(**)	20.66	254	0.87	(**)	70.17	F03	2	17
50.56	104	3.85	6.5	41.89	125	3.19	6.5	34.62	F04	2	21
46.12	114	3.51	6.5	38.21	137	2.91	6.5	37.95	F04	2	21
39.20	134	2.99	6.5	32.48	162	2.47	6.4	44.64	F04	2	21
35.76	147	2.72	6.5	29.63	177	2.26	6.2	48.94	F04	2	21
30.95	170	2.36	6.3	25.65	205	1.95	5.9	56.54	F04	2	21

PN = 0.55 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
28.24	186	2.15	6.1	23.39	225	1.78	5.7	61.98	F04	2	21
36.70	143	2.80	6.5	30.41	173	2.32	6.3	47.68	F04	3	21
33.48	157	2.55	6.4	27.74	189	2.11	6.1	52.27	F04	3	21
26.93	195	2.05	6.0	22.31	235	1.70	5.5	64.98	F04	3	21
24.57	214	1.87	5.8	20.35	258	1.55	5.1	71.24	F04	3	21
20.28	259	1.54	5.1	16.80	313	1.28	3.9	86.31	F04	3	21
18.50	284	1.41	4.6	15.33	343	1.17	2.9	94.61	F04	3	21
15.14	347	1.15	4.3	12.54	419	0.96	(**)	115.60	F04	3	21
13.81	380	1.05	4.0	11.44	459	0.87	(**)	126.72	F04	3	21
11.83	444	0.90	(**)	9.80	536	0.75	(**)	147.96	F04	3	21
33.95	155	3.88	9.2	28.13	187	3.21	9.2	51.55	F05	2	25
31.02	169	3.54	9.2	25.70	204	2.94	9.2	56.42	F05	2	25
26.80	196	2.35	9.2	22.21	237	1.95	9.0	65.29	F05	2	25
24.49	214	2.33	9.1	20.29	259	1.93	8.8	71.46	F05	2	25
31.78	165	3.63	9.1	26.34	199	3.01	9.2	55.06	F05	3	25
29.04	181	3.32	9.0	24.06	218	2.75	9.1	60.26	F05	3	25
23.32	225	2.66	9.0	19.32	272	2.21	8.7	75.04	F05	3	25
21.31	247	2.43	8.9	17.65	298	2.02	8.5	82.13	F05	3	25
17.56	299	2.01	8.5	14.55	361	1.66	7.9	99.66	F05	3	25
16.04	327	1.83	8.2	13.29	395	1.52	7.4	109.08	F05	3	25
13.11	401	1.50	7.3	10.86	484	1.24	5.9	133.49	F05	3	25
11.98	439	1.37	6.7	9.92	529	1.13	4.8	146.10	F05	3	25
10.24	513	1.17	6.5	8.49	619	0.97	(**)	170.85	F05	3	25
9.36	561	1.07	6.3	7.75	677	0.89	(**)	187.00	F05	3	25
7.89	665	0.90	(**)	6.54	803	0.75	(**)	221.71	F05	3	25
23.71	222	3.70	13.7	19.65	267	3.07	13.7	73.80	F06	3	42
21.74	242	3.39	12.1	18.02	292	2.81	13.6	80.48	F06	3	42
19.41	271	3.03	11.9	16.08	327	2.51	13.5	90.17	F06	3	42
17.80	295	2.78	11.8	14.74	356	2.30	13.4	98.34	F06	3	42
14.66	358	2.29	11.4	12.15	432	1.90	13.0	119.35	F06	3	42
13.45	391	2.10	11.2	11.14	471	1.74	12.8	130.15	F06	3	42
11.29	465	1.76	10.6	9.35	562	1.46	12.2	155.05	F06	3	42
10.35	508	1.62	10.2	8.58	613	1.34	11.8	169.09	F06	3	42
9.24	569	1.44	9.6	7.65	686	1.19	11.2	189.44	F06	3	42
8.47	620	1.32	8.9	7.02	748	1.10	10.6	206.59	F06	3	42
7.16	733	1.12	8.5	5.93	885	0.93	(**)	244.32	F06	3	42
6.57	800	1.03	(**)	5.44	965	0.85	(**)	266.44	F06	3	42
5.66	929	0.88	(**)	4.69	1121	0.73	(**)	309.42	F06	3	42
11.61	452	3.32	19.4	9.62	546	2.75	19.5	150.69	F07	3	65
8.99	584	2.57	19.4	7.45	705	2.13	18.9	194.58	F07	3	65
7.38	712	2.11	18.8	6.11	859	1.75	18.1	237.15	F07	3	65
5.73	917	1.64	17.7	4.75	1106	1.36	17.5	305.42	F07	3	65

Note: (**) Upon request.

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
445.51	16	4.47	3.1	369.14	19	3.70	3.3	3.93	F02	2	19
326.87	22	3.82	3.4	270.83	26	3.16	3.7	5.35	F02	2	19
246.11	29	2.87	3.8	203.92	35	2.38	4.1	7.11	F02	2	19

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
183.75	39	2.15	4.2	152.25	47	1.78	4.5	9.52	F02	2	19
160.77	45	2.92	4.5	133.21	54	2.42	4.8	10.89	F02	2	19
144.73	49	2.63	4.7	119.92	60	2.18	5.0	12.09	F02	2	19
117.95	61	2.14	5.0	97.73	73	1.77	5.0	14.84	F02	2	19
110.63	65	1.29	5.1	91.67	78	1.07	5.0	15.82	F02	2	19
106.19	67	1.93	5.0	87.99	81	1.60	4.9	16.48	F02	2	19
88.81	81	1.61	4.9	73.59	97	1.34	4.8	19.70	F02	2	19
79.95	90	1.45	4.9	66.25	108	1.20	4.7	21.89	F02	2	19
66.31	108	1.20	4.7	54.94	130	1.00	(**)	26.39	F02	2	19
59.70	120	1.08	4.5	49.46	145	0.90	(**)	29.32	F02	2	19
51.81	138	0.94	(**)	42.93	167	0.78	(**)	33.78	F02	2	19
140.02	51	3.91	4.9	116.02	62	3.24	4.9	12.50	F03	2	20
120.14	60	3.52	4.9	99.54	72	2.92	4.9	14.57	F03	2	20
108.94	66	3.35	4.8	90.27	79	2.77	4.8	16.06	F03	2	20
91.30	78	2.80	4.8	75.65	95	2.32	4.7	19.17	F03	2	20
82.80	87	2.54	4.8	68.60	104	2.11	4.6	21.14	F03	2	20
69.01	104	2.12	4.6	57.18	125	1.76	4.3	25.36	F03	2	20
62.58	114	1.92	4.5	51.85	138	1.59	4.1	27.97	F03	2	20
55.10	130	1.69	4.2	45.65	157	1.40	3.8	31.76	F03	2	20
49.96	143	1.53	4.0	41.40	173	1.27	3.4	35.03	F03	2	20
42.56	168	1.31	3.5	35.26	203	1.08	2.5	41.12	F03	2	20
38.59	186	1.19	3.0	31.98	224	0.98	(**)	45.35	F03	2	20
33.82	212	1.04	(**)	28.02	256	0.86	(**)	51.75	F03	2	20
30.67	234	0.94	(**)	25.41	282	0.78	(**)	57.07	F03	2	20
61.77	116	3.45	6.5	51.18	140	2.86	6.5	28.33	F04	2	24
56.35	127	3.15	6.5	46.69	153	2.61	6.4	31.06	F04	2	24
50.56	142	2.82	6.5	41.89	171	2.34	6.3	34.62	F04	2	24
46.12	155	2.58	6.4	38.21	187	2.13	6.1	37.95	F04	2	24
39.20	183	2.19	6.1	32.48	221	1.81	5.7	44.64	F04	2	24
35.76	200	2.00	6.0	29.63	242	1.65	5.4	48.94	F04	2	24
30.95	231	1.73	5.5	25.65	279	1.43	4.7	56.54	F04	2	24
28.24	254	1.58	5.2	23.39	306	1.31	4.1	61.98	F04	2	24
36.70	195	2.05	6.0	30.41	236	1.70	5.5	47.68	F04	3	24
33.48	214	1.87	5.8	27.74	258	1.55	5.1	52.27	F04	3	24
26.93	266	1.50	5.0	22.31	321	1.25	3.7	64.98	F04	3	24
24.57	292	1.37	4.5	20.35	352	1.14	2.6	71.24	F04	3	24
20.28	353	1.13	4.3	16.80	426	0.94	(**)	86.31	F04	3	24
18.50	387	1.03	(**)	15.33	467	0.86	(**)	94.61	F04	3	24
43.78	164	3.67	9.2	36.27	197	3.04	9.2	39.97	F05	2	28
40.00	179	3.35	9.1	33.14	216	2.78	9.1	43.75	F05	2	28
33.95	211	2.84	9.1	28.13	255	2.36	8.9	51.55	F05	2	28
31.02	231	2.60	9.0	25.70	279	2.15	8.7	56.42	F05	2	28
26.80	267	1.72	8.8	22.21	323	1.43	8.3	65.29	F05	2	28
24.49	292	1.71	8.5	20.29	353	1.42	8.0	71.46	F05	2	28
31.78	225	2.66	9.1	26.34	272	2.21	8.7	55.06	F05	3	28
29.04	247	2.43	8.9	24.06	298	2.02	8.5	60.26	F05	3	28
23.32	307	1.95	8.4	19.32	371	1.62	7.8	75.04	F05	3	28
21.31	336	1.78	8.1	17.65	406	1.48	7.3	82.13	F05	3	28
17.56	408	1.47	7.2	14.55	492	1.22	5.8	99.66	F05	3	28

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
16.04	446	1.34	6.6	13.29	539	1.11	4.6	109.08	F05	3	28
13.11	546	1.10	4.8	10.86	659	0.91	(**)	133.49	F05	3	28
11.98	598	1.00	(**)	9.92	722	0.83	(**)	146.10	F05	3	28
10.24	699	0.86	(**)	8.49	844	0.71	(**)	170.85	F05	3	28
34.93	205	4.00	13.7	28.94	247	3.31	13.7	50.10	F06	3	45
32.03	224	3.67	13.0	26.54	270	3.04	13.7	54.63	F06	3	45
29.24	245	3.35	12.5	24.23	296	2.77	13.6	59.84	F06	3	45
23.71	302	2.71	11.7	19.65	365	2.25	13.3	73.80	F06	3	45
21.74	329	2.49	11.6	18.02	398	2.06	13.2	80.48	F06	3	45
19.41	369	2.22	11.4	16.08	445	1.84	12.9	90.17	F06	3	45
17.80	402	2.04	11.1	14.74	486	1.69	12.7	98.34	F06	3	45
14.66	488	1.68	10.4	12.15	590	1.39	12.0	119.35	F06	3	45
13.45	533	1.54	10.0	11.14	643	1.28	11.6	130.15	F06	3	45
11.29	635	1.29	8.8	9.35	766	1.07	10.4	155.05	F06	3	45
10.35	692	1.18	7.8	8.58	835	0.98	(**)	169.09	F06	3	45
9.24	775	1.06	(**)	7.65	936	0.88	(**)	189.44	F06	3	45
8.47	846	0.97	(**)	7.02	1021	0.80	(**)	206.59	F06	3	45
18.52	387	3.88	19.5	15.34	467	3.21	19.5	94.52	F07	3	68
15.27	469	3.20	19.5	12.65	566	2.65	19.5	114.62	F07	3	68
11.61	617	2.43	19.3	9.62	744	2.02	18.7	150.69	F07	3	68
8.99	796	1.88	18.4	7.45	961	1.56	18.5	194.58	F07	3	68
7.38	971	1.55	17.3	6.11	1171	1.28	17.0	237.15	F07	3	68
5.73	1250	1.20	14.9	4.75	1509	0.99	(**)	305.42	F07	3	68

Note: (**) Upon request.

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
445.51	24	3.04	3.1	369.14	28	2.52	3.3	3.93	F02	2	20
326.87	32	2.60	3.5	270.83	39	2.16	3.7	5.35	F02	2	20
246.11	43	1.96	3.9	203.92	52	1.62	4.1	7.11	F02	2	20
183.75	57	1.46	4.3	152.25	69	1.21	4.6	9.52	F02	2	20
160.77	65	1.99	4.5	133.21	79	1.65	4.9	10.89	F02	2	20
144.73	73	1.79	4.8	119.92	88	1.48	4.9	12.09	F02	2	20
117.95	89	1.46	4.9	97.73	107	1.21	4.7	14.84	F02	2	20
110.63	95	0.88	(**)	91.67	115	0.73	(**)	15.82	F02	2	20
106.19	99	1.31	4.8	87.99	119	1.09	4.6	16.48	F02	2	20
88.81	118	1.10	4.5	73.59	143	0.91	(**)	19.70	F02	2	20
79.95	131	0.99	(**)	66.25	159	0.82	(**)	21.89	F02	2	20
276.32	38	3.68	5.0	228.95	46	3.05	5.0	6.33	F03	2	21
197.83	53	3.39	5.0	163.91	64	2.81	5.0	8.85	F03	2	21
179.39	59	3.24	4.9	148.64	71	2.69	4.9	9.76	F03	2	21
154.41	68	2.94	4.9	127.94	82	2.44	4.8	11.33	F03	2	21
140.02	75	2.67	4.9	116.02	91	2.21	4.8	12.50	F03	2	21
120.14	87	2.40	4.8	99.54	106	1.99	4.6	14.57	F03	2	21
108.94	96	2.28	4.7	90.27	116	1.89	4.5	16.06	F03	2	21
91.30	115	1.91	4.5	75.65	139	1.58	4.2	19.17	F03	2	21
82.80	127	1.73	4.3	68.60	153	1.44	3.9	21.14	F03	2	21
69.01	152	1.45	3.9	57.18	184	1.20	3.2	25.36	F03	2	21
62.58	168	1.31	3.6	51.85	203	1.09	2.7	27.97	F03	2	21

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
55.10	191	1.15	3.0	45.65	230	0.96	(**)	31.76	F03	2	21
49.96	210	1.05	(**)	41.40	254	0.87	(**)	35.03	F03	2	21
42.56	247	0.89	(**)	35.26	298	0.74	(**)	41.12	F03	2	21
96.89	108	3.69	6.5	80.28	131	3.06	6.5	18.06	F04	2	25
80.25	131	3.06	6.5	66.49	158	2.53	6.4	21.81	F04	2	25
73.20	144	2.79	6.5	60.65	173	2.31	6.3	23.91	F04	2	25
61.77	170	2.35	6.3	51.18	205	1.95	6.0	28.33	F04	2	25
56.35	186	2.15	6.2	46.69	225	1.78	5.7	31.06	F04	2	25
50.56	208	1.93	5.9	41.89	251	1.60	5.4	34.62	F04	2	25
46.12	228	1.76	5.7	38.21	275	1.45	5.0	37.95	F04	2	25
39.20	268	1.49	5.1	32.48	323	1.24	3.9	44.64	F04	2	25
35.76	294	1.36	4.6	29.63	355	1.13	2.9	48.94	F04	2	25
30.95	339	1.18	3.3	25.65	410	0.98	(**)	56.54	F04	2	25
28.24	372	1.08	3.2	23.39	449	0.89	(**)	61.98	F04	2	25
36.70	286	1.40	4.7	30.41	345	1.16	3.2	47.68	F04	3	25
33.48	314	1.27	4.1	27.74	379	1.06	1.5	52.27	F04	3	25
26.93	390	1.03	(**)	22.31	471	0.85	(**)	64.98	F04	3	25
24.57	428	0.94	(**)	20.35	516	0.78	(**)	71.24	F04	3	25
69.49	151	3.97	9.1	57.58	182	3.29	9.1	25.18	F05	2	29
63.49	165	3.63	9.1	52.61	200	3.00	9.1	27.56	F05	2	29
53.49	196	3.06	9.1	44.32	237	2.53	9.0	32.72	F05	2	29
48.87	215	2.79	9.1	40.49	259	2.31	8.9	35.81	F05	2	29
43.78	240	2.50	9.0	36.27	290	2.07	8.6	39.97	F05	2	29
40.00	263	2.28	8.8	33.14	317	1.89	8.4	43.75	F05	2	29
33.95	309	1.94	8.5	28.13	373	1.61	7.8	51.55	F05	2	29
31.02	339	1.77	8.2	25.70	409	1.47	7.4	56.42	F05	2	29
26.80	392	1.17	7.6	22.21	473	0.97	(**)	65.29	F05	2	29
24.49	429	1.17	7.1	20.29	518	0.97	(**)	71.46	F05	2	29
31.78	331	1.82	8.3	26.34	399	1.50	7.5	55.06	F05	3	29
29.04	362	1.66	7.9	24.06	437	1.37	7.0	60.26	F05	3	29
23.32	450	1.33	6.7	19.32	544	1.10	4.9	75.04	F05	3	29
21.31	493	1.22	6.0	17.65	595	1.01	(**)	82.13	F05	3	29
17.56	598	1.00	(**)	14.55	722	0.83	(**)	99.66	F05	3	29
16.04	655	0.92	(**)	13.29	790	0.76	(**)	109.08	F05	3	29
45.81	229	3.58	13.0	37.96	277	2.96	13.7	38.20	F06	2	45
42.01	250	3.28	12.5	34.81	302	2.72	13.6	41.66	F06	2	45
38.42	273	3.00	11.9	31.84	330	2.49	13.5	45.55	F06	2	45
35.23	298	2.75	11.8	29.19	360	2.28	13.4	49.67	F06	2	45
43.10	244	3.36	11.8	35.71	294	2.79	13.4	40.60	F06	3	46
39.52	266	3.09	11.8	32.75	321	2.56	13.4	44.28	F06	3	46
34.93	301	2.73	11.8	28.94	363	2.26	13.4	50.10	F06	3	46
32.03	328	2.50	11.6	26.54	396	2.07	13.2	54.63	F06	3	46
29.24	359	2.28	11.5	24.23	434	1.89	13.1	59.84	F06	3	46
23.71	443	1.85	10.9	19.65	535	1.53	12.5	73.80	F06	3	46
21.74	483	1.70	10.6	18.02	583	1.41	12.2	80.48	F06	3	46
19.41	541	1.51	10.0	16.08	653	1.26	11.6	90.17	F06	3	46
17.80	590	1.39	9.5	14.74	712	1.15	11.1	98.34	F06	3	46
14.66	716	1.14	7.7	12.15	865	0.95	(**)	119.35	F06	3	46
13.45	781	1.05	(**)	11.14	943	0.87	(**)	130.15	F06	3	46

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
11.29	931	0.88	(**)	9.35	1123	0.73	(**)	155.05	F06	3	46
26.57	395	3.79	19.5	22.01	477	3.14	19.5	65.88	F07	3	69
22.57	465	3.22	19.5	18.70	562	2.67	19.5	77.53	F07	3	69
18.52	567	2.64	19.5	15.34	685	2.19	19.1	94.52	F07	3	69
15.27	688	2.18	19.0	12.65	830	1.81	18.4	114.62	F07	3	69
11.61	905	1.66	17.9	9.62	1092	1.37	16.7	150.69	F07	3	69
8.99	1168	1.28	16.0	7.45	1410	1.06	15.0	194.58	F07	3	69
7.38	1424	1.05	(**)	6.11	1718	0.87	(**)	237.15	F07	3	69

Note: (**) Upon request.

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
445.51	32	2.23	3.1	369.14	39	1.85	3.4	3.93	F02	2	23
326.87	44	1.91	3.5	270.83	53	1.58	3.8	5.35	F02	2	23
246.11	58	1.44	4.0	203.92	70	1.19	4.3	7.11	F02	2	23
183.75	78	1.07	4.5	152.25	94	0.89	(**)	9.52	F02	2	23
160.77	89	1.46	4.7	133.21	108	1.21	4.7	10.89	F02	2	23
144.73	99	1.31	4.8	119.92	119	1.09	4.6	12.09	F02	2	23
117.95	121	1.07	4.5	97.73	147	0.89	(**)	14.84	F02	2	23
106.19	135	0.96	(**)	87.99	163	0.80	(**)	16.48	F02	2	23
455.00	31	3.49	4.8	377.00	38	2.89	4.3	3.85	F03	2	24
355.15	40	2.98	4.8	294.26	49	2.47	4.7	4.93	F03	2	24
276.32	52	2.70	4.8	228.95	63	2.24	5.0	6.33	F03	2	24
197.83	72	2.49	4.9	163.91	87	2.06	4.8	8.85	F03	2	24
179.39	80	2.38	4.8	148.64	96	1.97	4.7	9.76	F03	2	24
154.41	93	2.16	4.7	127.94	112	1.79	4.5	11.33	F03	2	24
140.02	102	1.95	4.6	116.02	123	1.62	4.4	12.50	F03	2	24
120.14	119	1.76	4.4	99.54	144	1.46	4.1	14.57	F03	2	24
108.94	131	1.67	4.3	90.27	159	1.39	3.8	16.06	F03	2	24
91.30	157	1.40	3.8	75.65	189	1.16	3.1	19.17	F03	2	24
82.80	173	1.27	3.5	68.60	209	1.05	2.4	21.14	F03	2	24
69.01	208	1.06	(**)	57.18	251	0.88	(**)	25.36	F03	2	24
62.58	229	0.96	(**)	51.85	276	0.80	(**)	27.97	F03	2	24
129.77	110	3.62	6.6	107.53	133	3.00	6.5	13.48	F04	2	28
118.38	121	3.31	6.6	98.09	146	2.74	6.5	14.78	F04	2	28
106.21	135	2.97	6.6	88.00	163	2.46	6.4	16.48	F04	2	28
96.89	148	2.71	6.5	80.28	178	2.24	6.2	18.06	F04	2	28
80.25	179	2.24	6.2	66.49	215	1.86	5.8	21.81	F04	2	28
73.20	196	2.04	6.1	60.65	236	1.69	5.6	23.91	F04	2	28
61.77	232	1.72	5.6	51.18	280	1.43	4.9	28.33	F04	2	28
56.35	254	1.57	5.3	46.69	307	1.30	4.3	31.06	F04	2	28
50.56	283	1.41	4.8	41.89	342	1.17	3.3	34.62	F04	2	28
46.12	311	1.29	4.1	38.21	375	1.07	1.7	37.95	F04	2	28
39.20	365	1.09	(**)	32.48	441	0.91	(**)	44.64	F04	2	28
35.76	401	1.00	(**)	29.63	483	0.83	(**)	48.94	F04	2	28
30.95	463	0.86	(**)	25.65	559	0.72	(**)	56.54	F04	2	28
36.70	390	1.02	(**)	30.41	471	0.85	(**)	47.68	F04	3	28
33.48	428	0.93	(**)	27.74	516	0.77	(**)	52.27	F04	3	28
91.97	156	3.85	9.2	76.21	188	3.19	9.2	19.03	F05	2	32

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
84.03	170	3.52	9.2	69.63	206	2.92	9.2	20.83	F05	2	32
69.49	206	2.91	9.2	57.58	249	2.41	8.9	25.18	F05	2	32
63.49	226	2.66	9.1	52.61	272	2.20	8.8	27.56	F05	2	32
53.49	268	2.24	8.8	44.32	323	1.86	8.3	32.72	F05	2	32
48.87	293	2.05	8.6	40.49	354	1.70	8.0	35.81	F05	2	32
43.78	327	1.83	8.3	36.27	395	1.52	7.6	39.97	F05	2	32
40.00	358	1.68	8.0	33.14	432	1.39	7.0	43.75	F05	2	32
33.95	422	1.42	7.2	28.13	509	1.18	5.7	51.55	F05	2	32
31.02	462	1.30	6.5	25.70	557	1.08	4.4	56.42	F05	2	32
26.80	534	0.86	(**)	22.21	645	0.71	(**)	65.29	F05	2	32
24.49	585	0.85	(**)	20.29	706	0.71	(**)	71.46	F05	2	32
31.78	451	1.33	6.7	26.34	544	1.10	4.8	55.06	F05	3	32
29.04	493	1.22	5.9	24.06	595	1.01	(**)	60.26	F05	3	32
23.32	614	0.98	(**)	19.32	741	0.81	(**)	75.04	F05	3	32
21.31	672	0.89	(**)	17.65	811	0.74	(**)	82.13	F05	3	32
69.36	207	3.97	11.7	57.47	249	3.29	13.6	25.23	F06	2	48
58.38	245	3.34	11.7	48.37	296	2.77	13.6	29.98	F06	2	48
53.53	268	3.06	11.7	44.35	323	2.54	13.5	32.69	F06	2	48
45.81	313	2.62	11.7	37.96	377	2.17	13.3	38.20	F06	2	48
42.01	341	2.40	11.6	34.81	412	1.99	13.2	41.66	F06	2	48
38.42	373	2.20	11.4	31.84	450	1.82	13.0	45.55	F06	2	48
35.23	407	2.02	11.2	29.19	491	1.67	12.7	49.67	F06	2	48
43.10	332	2.47	11.6	35.71	401	2.04	12.7	40.60	F06	3	49
39.52	362	2.26	11.4	32.75	437	1.87	12.7	44.28	F06	3	49
34.93	410	2.00	11.1	28.94	495	1.66	12.7	50.10	F06	3	49
32.03	447	1.83	10.9	26.54	540	1.52	12.5	54.63	F06	3	49
29.24	490	1.67	10.5	24.23	591	1.39	12.1	59.84	F06	3	49
23.71	604	1.36	9.3	19.65	729	1.12	10.9	73.80	F06	3	49
21.74	659	1.24	8.6	18.02	795	1.03	(**)	80.48	F06	3	49
19.41	738	1.11	(**)	16.08	891	0.92	(**)	90.17	F06	3	49
17.80	805	1.02	(**)	14.74	972	0.84	(**)	98.34	F06	3	49
32.31	443	3.38	19.6	26.77	535	2.80	19.6	54.16	F07	3	72
26.57	539	2.78	19.6	22.01	651	2.30	19.2	65.88	F07	3	72
22.57	635	2.36	19.2	18.70	766	1.96	18.7	77.53	F07	3	72
18.52	774	1.94	18.6	15.34	934	1.61	17.8	94.52	F07	3	72
15.27	938	1.60	16.0	12.65	1132	1.32	16.3	114.62	F07	3	72
11.61	1233	1.22	15.4	9.62	1489	1.01	(**)	150.69	F07	3	72
8.99	1593	0.94	(**)	7.45	1922	0.78	(**)	194.58	F07	3	72
18.79	762	3.94	20.0	15.57	920	3.26	20.0	93.11	F08	3	123
15.89	901	3.33	20.0	13.17	1088	2.76	20.0	110.11	F08	3	123
14.70	974	3.08	20.0	12.18	1176	2.55	20.0	119.05	F08	3	123
14.05	1020	2.94	20.0	11.64	1231	2.44	20.0	124.59	F08	3	123
12.59	1137	2.64	20.0	10.44	1373	2.19	20.0	138.95	F08	3	123
10.99	1303	2.30	20.0	9.11	1572	1.91	20.0	159.17	F08	3	123
9.45	1516	1.98	20.0	7.83	1829	1.64	20.0	185.17	F08	3	123
7.99	1792	1.67	20.0	6.62	2163	1.39	20.0	218.97	F08	3	123
7.06	2028	1.48	20.0	5.85	2448	1.23	20.0	247.77	F08	3	123

Note: (**) Upon request.

PN = 2.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
445.51	47	1.52	3.0	369.14	57	1.26	3.0	3.93	F02	2	26
326.87	64	1.30	3.0	270.83	78	1.08	3.0	5.35	F02	2	26
246.11	85	0.98	(**)	203.92	103	0.81	(**)	7.11	F02	2	26
160.77	131	0.99	(**)	133.21	158	0.82	(**)	10.89	F02	2	26
144.73	145	0.90	(**)	119.92	175	0.74	(**)	12.09	F02	2	26
455.00	46	2.38	4.1	377.00	56	1.97	4.4	3.85	F03	2	28
355.15	59	2.03	4.5	294.26	71	1.68	4.8	4.93	F03	2	28
276.32	76	1.84	4.9	228.95	92	1.53	4.7	6.33	F03	2	28
197.83	106	1.69	4.6	163.91	128	1.40	4.3	8.85	F03	2	28
179.39	117	1.62	4.4	148.64	141	1.34	4.1	9.76	F03	2	28
154.41	136	1.47	4.2	127.94	164	1.22	3.7	11.33	F03	2	28
140.02	150	1.33	3.9	116.02	181	1.10	3.2	12.50	F03	2	28
120.14	175	1.20	3.4	99.54	211	0.99	(**)	14.57	F03	2	28
108.94	193	1.14	3.3	90.27	233	0.95	(**)	16.06	F03	2	28
91.30	230	0.96	(**)	75.65	278	0.79	(**)	19.17	F03	2	28
82.80	254	0.87	(**)	68.60	306	0.72	(**)	21.14	F03	2	28
395.89	53	3.96	6.7	328.03	64	3.28	6.8	4.42	F04	2	32
320.86	65	3.67	6.7	265.85	79	3.04	6.8	5.45	F04	2	32
268.60	78	3.45	6.7	222.55	94	2.86	6.8	6.52	F04	2	32
235.89	89	3.59	6.7	195.45	107	2.98	6.7	7.42	F04	2	32
215.18	98	3.48	6.7	178.29	118	2.89	6.7	8.13	F04	2	32
191.18	110	3.28	6.6	158.40	133	2.71	6.6	9.15	F04	2	32
174.39	120	3.15	6.5	144.50	145	2.61	6.5	10.03	F04	2	32
160.04	131	2.97	6.6	132.60	158	2.46	6.4	10.93	F04	2	32
145.99	144	2.78	6.5	120.96	174	2.30	6.3	11.99	F04	2	32
129.77	162	2.47	6.4	107.53	195	2.05	6.0	13.48	F04	2	32
118.38	177	2.25	6.2	98.09	214	1.87	5.8	14.78	F04	2	32
106.21	198	2.02	6.0	88.00	239	1.68	5.5	16.48	F04	2	32
96.89	217	1.84	5.8	80.28	262	1.53	5.1	18.06	F04	2	32
80.25	262	1.53	5.1	66.49	316	1.27	4.0	21.81	F04	2	32
73.20	287	1.39	4.6	60.65	346	1.15	3.0	23.91	F04	2	32
61.77	340	1.18	3.2	51.18	411	0.97	(**)	28.33	F04	2	32
56.35	373	1.07	3.1	46.69	450	0.89	(**)	31.06	F04	2	32
50.56	416	0.96	(**)	41.89	502	0.80	(**)	34.62	F04	2	32
46.12	456	0.88	(**)	38.21	550	0.73	(**)	37.95	F04	2	32
229.80	91	3.94	9.2	190.40	110	3.26	9.2	7.62	F05	2	35
138.59	152	3.96	9.2	114.83	183	3.28	9.2	12.63	F05	2	35
126.62	166	3.62	9.2	104.92	200	3.00	9.2	13.82	F05	2	35
112.38	187	3.21	9.2	93.12	226	2.66	9.1	15.57	F05	2	35
91.97	228	2.63	9.0	76.21	276	2.18	8.7	19.03	F05	2	35
84.03	250	2.40	8.9	69.63	302	1.99	8.5	20.83	F05	2	35
69.49	302	1.98	8.5	57.58	365	1.64	7.9	25.18	F05	2	35
63.49	331	1.81	8.2	52.61	399	1.50	7.4	27.56	F05	2	35
53.49	393	1.53	7.5	44.32	474	1.27	6.3	32.72	F05	2	35
48.87	430	1.40	7.0	40.49	519	1.16	5.3	35.81	F05	2	35
43.78	480	1.25	6.8	36.27	579	1.04	(**)	39.97	F05	2	35
40.00	525	1.14	6.5	33.14	634	0.95	(**)	43.75	F05	2	35
33.95	619	0.97	(**)	28.13	747	0.80	(**)	51.55	F05	2	35
31.02	677	0.89	(**)	25.70	818	0.73	(**)	56.42	F05	2	35

PN = 2.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
31.78	661	0.91	(**)	26.34	798	0.75	(**)	55.06	F05	3	35
91.45	230	3.57	12.0	75.77	277	2.96	13.6	19.14	F06	2	51
75.64	278	2.95	11.9	62.67	335	2.45	13.5	23.14	F06	2	51
69.36	303	2.71	11.7	57.47	366	2.24	13.3	25.23	F06	2	51
58.38	360	2.28	11.4	48.37	434	1.89	13.0	29.98	F06	2	51
53.53	392	2.09	11.2	44.35	474	1.73	12.8	32.69	F06	2	51
45.81	459	1.79	10.7	37.96	553	1.48	12.3	38.20	F06	2	51
42.01	500	1.64	10.4	34.81	604	1.36	12.0	41.66	F06	2	51
38.42	547	1.50	10.4	31.84	660	1.24	12.0	45.55	F06	2	51
35.23	596	1.38	10.5	29.19	720	1.14	11.0	49.67	F06	2	51
43.10	487	1.68	10.5	35.71	588	1.39	11.0	40.60	F06	3	52
39.52	532	1.54	10.1	32.75	642	1.28	11.0	44.28	F06	3	52
34.93	601	1.36	9.3	28.94	726	1.13	10.9	50.10	F06	3	52
32.03	656	1.25	8.5	26.54	792	1.04	(**)	54.63	F06	3	52
29.24	718	1.14	8.3	24.23	867	0.95	(**)	59.84	F06	3	52
23.71	886	0.93	(**)	19.65	1069	0.77	(**)	73.80	F06	3	52
50.37	417	3.60	19.7	41.73	503	2.98	19.7	34.74	F07	2	74
44.52	472	3.18	19.5	36.88	570	2.63	19.5	39.31	F07	2	74
38.87	541	2.78	19.6	32.21	652	2.30	19.2	45.02	F07	2	74
32.31	650	2.31	19.2	26.77	785	1.91	18.6	54.16	F07	3	75
26.57	791	1.90	18.5	22.01	955	1.57	17.6	65.88	F07	3	75
22.57	931	1.61	17.7	18.70	1123	1.34	16.3	77.53	F07	3	75
18.52	1135	1.32	16.1	15.34	1370	1.10	13.8	94.52	F07	3	75
15.27	1376	1.09	16.0	12.65	1661	0.90	(**)	114.62	F07	3	75
25.05	839	3.58	20.0	20.75	1012	2.96	20.0	69.87	F08	3	125
21.86	961	3.12	20.0	18.12	1160	2.59	20.0	80.04	F08	3	125
18.79	1118	2.68	20.0	15.57	1349	2.22	20.0	93.11	F08	3	125
15.89	1322	2.27	20.0	13.17	1595	1.88	20.0	110.11	F08	3	125
14.70	1429	2.10	20.0	12.18	1725	1.74	20.0	119.05	F08	3	125
14.05	1496	2.01	20.0	11.64	1805	1.66	20.0	124.59	F08	3	125
12.59	1668	1.80	20.0	10.44	2013	1.49	20.0	138.95	F08	3	125
12.26	1713	1.75	20.0	10.16	2068	1.45	20.0	142.69	F08	3	125
10.99	1911	1.57	20.0	9.11	2306	1.30	20.0	159.17	F08	3	125
9.45	2223	1.35	20.0	7.83	2683	1.12	20.0	185.17	F08	3	125
7.99	2629	1.14	20.0	6.62	3173	0.95	(**)	218.97	F08	3	125
7.06	2975	1.01	20.0	5.85	3590	0.84	(**)	247.77	F08	3	125
6.17	3407	0.88	20.0	5.11	4112	0.73	(**)	283.76	F08	3	125

Note: (**) Upon request.

PN = 3.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
455.00	63	1.75	4.2	377.00	76	1.45	4.5	3.85	F03	2	38
355.15	81	1.49	4.6	294.26	97	1.23	4.7	4.93	F03	2	38
276.32	104	1.35	4.6	228.95	125	1.12	4.4	6.33	F03	2	38
197.83	145	1.24	4.0	163.91	175	1.03	3.4	8.85	F03	2	38
179.39	160	1.19	3.7	148.64	193	0.99	(**)	9.76	F03	2	38
154.41	186	1.08	3.6	127.94	224	0.89	(**)	11.33	F03	2	38
140.02	205	0.98	(**)	116.02	247	0.81	(**)	12.50	F03	2	38
120.14	238	0.88	(**)	99.54	288	0.73	(**)	14.57	F03	2	38

PN = 3.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
395.89	72	2.90	6.2	328.03	87	2.40	6.6	4.42	F04	2	42
320.86	89	2.69	6.7	265.85	108	2.23	6.8	5.45	F04	2	42
268.60	107	2.53	6.8	222.55	129	2.10	6.6	6.52	F04	2	42
235.89	121	2.63	6.7	195.45	147	2.18	6.5	7.42	F04	2	42
215.18	133	2.55	6.6	178.29	161	2.12	6.4	8.13	F04	2	42
191.18	150	2.40	6.5	158.40	181	1.99	6.2	9.15	F04	2	42
174.39	164	2.31	6.3	144.50	198	1.92	6.0	10.03	F04	2	42
160.04	179	2.18	6.2	132.60	216	1.81	5.8	10.93	F04	2	42
145.99	196	2.04	6.0	120.96	237	1.69	5.5	11.99	F04	2	42
129.77	221	1.81	5.7	107.53	266	1.50	5.1	13.48	F04	2	42
118.38	242	1.65	5.4	98.09	292	1.37	4.6	14.78	F04	2	42
106.21	270	1.48	5.0	88.00	326	1.23	3.7	16.48	F04	2	42
96.89	296	1.35	4.8	80.28	357	1.12	2.6	18.06	F04	2	42
80.25	357	1.12	3.8	66.49	431	0.93	(**)	21.81	F04	2	42
73.20	391	1.02	(**)	60.65	472	0.85	(**)	23.91	F04	2	42
61.77	464	0.86	(**)	51.18	560	0.71	(**)	28.33	F04	2	42
274.51	104	3.45	9.4	227.45	126	2.86	9.4	6.38	F05	2	46
229.80	125	2.89	9.4	190.40	150	2.39	9.5	7.62	F05	2	46
204.27	140	3.92	9.4	169.26	169	3.25	9.3	8.57	F05	2	46
186.64	154	3.65	9.3	154.64	185	3.02	9.2	9.38	F05	2	46
165.55	173	3.35	9.2	137.17	209	2.78	9.2	10.57	F05	2	46
151.26	189	3.17	9.2	125.33	229	2.62	9.1	11.57	F05	2	46
138.59	207	2.90	9.2	114.83	249	2.40	8.9	12.63	F05	2	46
126.62	226	2.65	9.1	104.92	273	2.20	8.8	13.82	F05	2	46
112.38	255	2.35	8.9	93.12	308	1.95	8.5	15.57	F05	2	46
91.97	311	1.93	7.8	76.21	376	1.60	7.8	19.03	F05	2	46
84.03	341	1.76	7.0	69.63	411	1.46	7.3	20.83	F05	2	46
69.49	412	1.46	6.0	57.58	498	1.21	5.8	25.18	F05	2	46
63.49	451	1.33	5.0	52.61	545	1.10	4.7	27.56	F05	2	46
53.49	536	1.12	4.7	44.32	646	0.93	(**)	32.72	F05	2	46
48.87	586	1.02	(**)	40.49	708	0.85	(**)	35.81	F05	2	46
43.78	654	0.92	(**)	36.27	790	0.76	(**)	39.97	F05	2	46
134.70	213	3.86	13.6	111.61	257	3.19	13.6	12.99	F06	2	62
124.05	231	3.55	13.6	102.78	279	2.94	13.6	14.11	F06	2	62
113.75	252	3.26	13.6	94.25	304	2.70	13.6	15.38	F06	2	62
107.51	266	3.08	13.5	89.08	322	2.55	13.5	16.28	F06	2	62
91.45	313	2.62	13.3	75.77	378	2.17	13.3	19.14	F06	2	62
75.64	379	2.16	12.9	62.67	457	1.79	12.9	23.14	F06	2	62
69.36	413	1.99	12.7	57.47	499	1.64	12.7	25.23	F06	2	62
58.38	491	1.67	12.1	48.37	592	1.38	12.1	29.98	F06	2	62
53.53	535	1.53	11.6	44.35	646	1.27	11.6	32.69	F06	2	62
45.81	625	1.31	10.6	37.96	755	1.09	10.6	38.20	F06	2	62
42.01	682	1.20	10.0	34.81	823	1.00	(**)	41.66	F06	2	62
38.42	746	1.10	9.8	31.84	900	0.91	(**)	45.55	F06	2	62
35.23	813	1.01	9.5	29.19	981	0.84	(**)	49.67	F06	2	62
69.29	413	3.63	19.7	57.41	499	3.01	19.7	25.25	F07	2	85
59.56	481	3.12	19.5	49.35	581	2.58	19.5	29.38	F07	2	85
50.37	569	2.64	18.0	41.73	686	2.19	18.3	34.74	F07	2	85
44.52	644	2.33	17.0	36.88	777	1.93	18.6	39.31	F07	2	85

PN = 3.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
38.87	737	2.04	17.0	32.21	890	1.69	17.0	45.02	F07	2	85
32.31	887	1.69	15.0	26.77	1070	1.40	16.8	54.16	F07	3	86
26.57	1078	1.39	14.0	22.01	1302	1.15	14.6	65.88	F07	3	86
22.57	1269	1.18	14.0	18.70	1532	0.98	(**)	77.53	F07	3	86
18.52	1547	0.97	(**)	15.34	1868	0.80	(**)	94.52	F07	3	86
29.23	980	3.06	20.0	24.22	1183	2.54	20.0	59.86	F08	3	133
25.05	1144	2.62	20.0	20.75	1381	2.17	20.0	69.87	F08	3	133
21.86	1310	2.29	20.0	18.12	1581	1.90	20.0	80.04	F08	3	133
18.79	1524	1.97	20.0	15.57	1840	1.63	20.0	93.11	F08	3	133
15.89	1803	1.66	20.0	13.17	2176	1.38	20.0	110.11	F08	3	133
14.70	1949	1.54	20.0	12.18	2352	1.28	20.0	119.05	F08	3	133
14.05	2040	1.47	20.0	11.64	2462	1.22	20.0	124.59	F08	3	133
12.59	2275	1.32	20.0	10.44	2745	1.09	20.0	138.95	F08	3	133
10.99	2606	1.15	20.0	9.11	3145	0.95	(**)	159.17	F08	3	133
9.45	3032	0.99	(**)	7.83	3659	0.82	(**)	185.17	F08	3	133
21.85	1311	3.43	29.0	18.10	1583	2.84	29.0	80.09	F09	3	185
18.90	1516	2.97	29.0	15.66	1829	2.46	29.0	92.59	F09	3	185
16.74	1711	2.63	29.0	13.87	2066	2.18	29.0	104.54	F09	3	185
14.49	1977	2.28	29.0	12.01	2386	1.89	29.0	120.77	F09	3	185
12.25	2339	1.92	29.0	10.15	2822	1.59	29.0	142.85	F09	3	185
10.82	2648	1.70	29.0	8.96	3196	1.41	29.0	161.76	F09	3	185
9.36	3061	1.47	29.0	7.75	3695	1.22	29.0	186.99	F09	3	185
8.29	3457	1.30	29.0	6.87	4172	1.08	29.0	211.14	F09	3	185
7.18	3993	1.13	29.0	5.95	4819	0.93	(**)	243.90	F09	3	185
6.07	4723	0.95	(**)	5.03	5700	0.79	(**)	288.50	F09	3	185

Note: (**) Upon request.

PN = 3.70 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
455.00	78	1.42	4.0	377.00	94	1.17	4.0	3.85	F03	2	39
355.15	99	1.21	3.7	294.26	120	1.00	(**)	4.93	F03	2	39
276.32	128	1.09	3.5	228.95	154	0.91	(**)	6.33	F03	2	39
197.83	179	1.01	(**)	163.91	216	0.83	(**)	8.85	F03	2	39
179.39	197	0.96	(**)	148.64	238	0.80	(**)	9.76	F03	2	39
154.41	229	0.87	(**)	127.94	276	0.72	(**)	11.33	F03	2	39
395.89	89	2.35	6.5	328.03	108	1.95	6.5	4.42	F04	2	43
320.86	110	2.18	6.5	265.85	133	1.81	6.5	5.45	F04	2	43
268.60	132	2.05	6.4	222.55	159	1.70	6.5	6.52	F04	2	43
235.89	150	2.14	6.3	195.45	181	1.77	6.3	7.42	F04	2	43
215.18	164	2.07	6.2	178.29	198	1.72	6.3	8.13	F04	2	43
191.18	185	1.95	6.0	158.40	223	1.61	6.0	9.15	F04	2	43
174.39	203	1.88	5.9	144.50	245	1.55	6.0	10.03	F04	2	43
160.04	221	1.77	5.8	132.60	266	1.46	5.8	10.93	F04	2	43
145.99	242	1.65	5.5	120.96	292	1.37	5.5	11.99	F04	2	43
129.77	272	1.47	5.0	107.53	329	1.22	5.0	13.48	F04	2	43
118.38	298	1.34	4.5	98.09	360	1.11	4.5	14.78	F04	2	43
106.21	333	1.20	4.5	88.00	402	1.00	(**)	16.48	F04	2	43
96.89	365	1.10	4.0	80.28	440	0.91	(**)	18.06	F04	2	43
80.25	440	0.91	(**)	66.49	531	0.75	(**)	21.81	F04	2	43

PN = 3.70 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.71	104	3.45	9.1	280.65	126	2.86	9.1	5.17	F05	2	47
274.51	129	2.80	9.1	227.45	155	2.32	9.1	6.38	F05	2	47
229.80	154	2.34	8.8	190.40	186	1.94	8.8	7.62	F05	2	47
204.27	173	3.18	8.5	169.26	209	2.63	8.5	8.57	F05	2	47
186.64	189	2.96	8.2	154.64	228	2.45	8.2	9.38	F05	2	47
165.55	213	2.72	7.7	137.17	258	2.25	7.7	10.57	F05	2	47
151.26	234	2.57	7.3	125.33	282	2.13	7.3	11.57	F05	2	47
138.59	255	2.35	7.3	114.83	308	1.95	7.3	12.63	F05	2	47
126.62	279	2.15	7.3	104.92	337	1.78	7.3	13.82	F05	2	47
112.38	314	1.91	6.9	93.12	379	1.58	6.9	15.57	F05	2	47
91.97	384	1.56	6.8	76.21	464	1.29	6.8	19.03	F05	2	47
84.03	420	1.43	6.7	69.63	507	1.18	6.7	20.83	F05	2	47
69.49	508	1.18	6.0	57.58	614	0.98	(**)	25.18	F05	2	47
63.49	557	1.08	5.8	52.61	672	0.89	(**)	27.56	F05	2	47
53.49	661	0.91	(**)	44.32	797	0.75	(**)	32.72	F05	2	47
238.99	148	3.86	12.3	198.02	178	3.19	12.3	7.32	F06	2	62
203.28	174	3.28	12.2	168.43	210	2.72	12.2	8.61	F06	2	62
163.52	216	3.79	12.1	135.48	261	3.14	12.0	10.70	F06	2	62
146.90	241	3.41	12.0	121.72	290	2.82	11.9	11.91	F06	2	62
134.70	262	3.13	11.9	111.61	317	2.59	11.8	12.99	F06	2	62
124.05	285	2.88	11.8	102.78	344	2.39	11.7	14.11	F06	2	62
113.75	311	2.64	11.7	94.25	375	2.19	11.6	15.38	F06	2	62
107.51	329	2.49	11.6	89.08	397	2.07	11.3	16.28	F06	2	62
91.45	386	2.12	11.3	75.77	466	1.76	10.7	19.14	F06	2	62
75.64	467	1.76	10.7	62.67	564	1.45	10.3	23.14	F06	2	62
69.36	509	1.61	10.3	57.47	615	1.33	10.0	25.23	F06	2	62
58.38	605	1.35	10.0	48.37	731	1.12	10.0	29.98	F06	2	62
53.53	660	1.24	10.0	44.35	797	1.03	(**)	32.69	F06	2	62
45.81	771	1.06	9.8	37.96	931	0.88	(**)	38.20	F06	2	62
42.01	841	0.97	(**)	34.81	1015	0.81	(**)	41.66	F06	2	62
38.42	920	0.89	(**)	31.84	1110	0.74	(**)	45.55	F06	2	62
92.65	381	3.93	19.7	76.76	460	3.26	19.7	18.89	F07	2	85
79.38	445	3.37	19.7	65.77	537	2.79	19.7	22.05	F07	2	85
69.29	510	2.94	19.7	57.41	615	2.44	19.7	25.25	F07	2	85
59.56	593	2.53	19.4	49.35	716	2.10	19.4	29.38	F07	2	85
50.37	702	2.14	18.9	41.73	847	1.77	18.9	34.74	F07	2	85
44.52	794	1.89	18.5	36.88	958	1.57	18.5	39.31	F07	2	85
38.87	909	1.65	18.0	32.21	1097	1.37	18.0	45.02	F07	2	85
32.31	1094	1.37	16.5	26.77	1320	1.14	16.5	54.16	F07	3	86
26.57	1330	1.13	16.5	22.01	1605	0.93	(**)	65.88	F07	3	86
22.57	1565	0.96	(**)	18.70	1889	0.79	(**)	77.53	F07	3	86
29.23	1209	2.48	20.0	24.22	1459	2.06	20.0	59.86	F08	3	138
25.05	1411	2.13	20.0	20.75	1703	1.76	20.0	69.87	F08	3	138
21.86	1616	1.86	20.0	18.12	1950	1.54	20.0	80.04	F08	3	138
18.79	1880	1.60	20.0	15.57	2269	1.32	20.0	93.11	F08	3	138
15.89	2223	1.35	20.0	13.17	2683	1.12	20.0	110.11	F08	3	138
14.70	2404	1.25	20.0	12.18	2901	1.03	20.0	119.05	F08	3	138
14.05	2516	1.19	20.0	11.64	3036	0.99	(**)	124.59	F08	3	138
12.59	2806	1.07	20.0	10.44	3386	0.89	(**)	138.95	F08	3	138

PN = 3.70 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
10.99	3214	0.93	(**)	9.11	3879	0.77	(**)	159.17	F08	3	138
21.85	1617	2.78	29.0	18.10	1952	2.31	29.0	80.09	F09	3	190
18.90	1869	2.41	29.0	15.66	2256	1.99	29.0	92.59	F09	3	190
16.74	2111	2.13	29.0	13.87	2548	1.77	29.0	104.54	F09	3	190
14.49	2438	1.85	29.0	12.01	2943	1.53	29.0	120.77	F09	3	190
12.25	2884	1.56	29.0	10.15	3481	1.29	29.0	142.85	F09	3	190
10.82	3266	1.38	29.0	8.96	3942	1.14	29.0	161.76	F09	3	190
9.36	3776	1.19	29.0	7.75	4557	0.99	(**)	186.99	F09	3	190
8.29	4263	1.06	29.0	6.87	5145	0.87	(**)	211.14	F09	3	190
7.18	4925	0.91	(**)	5.95	5944	0.76	(**)	243.90	F09	3	190

Note: (**) Upon request.

PN = 4.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.71	127	2.84	9.0	280.65	153	2.35	9.0	5.17	F05	2	51
274.51	157	2.30	9.0	227.45	189	1.91	9.0	6.38	F05	2	51
229.80	187	1.93	8.0	190.40	226	1.60	8.0	7.62	F05	2	51
204.27	210	2.61	9.0	169.26	254	2.17	9.0	8.57	F05	2	51
186.64	230	2.43	8.0	154.64	278	2.02	8.0	9.38	F05	2	51
165.55	260	2.23	7.8	137.17	313	1.85	7.8	10.57	F05	2	51
151.26	284	2.11	7.8	125.33	343	1.75	7.8	11.57	F05	2	51
138.59	310	1.93	7.0	114.83	374	1.60	7.0	12.63	F05	2	51
126.62	339	1.77	6.0	104.92	410	1.46	6.0	13.82	F05	2	51
112.38	382	1.57	6.0	93.12	462	1.30	6.0	15.57	F05	2	51
91.97	467	1.28	5.8	76.21	564	1.06	(**)	19.03	F05	2	51
84.03	511	1.17	5.5	69.63	617	0.97	(**)	20.83	F05	2	51
69.49	618	0.97	(**)	57.58	746	0.80	(**)	25.18	F05	2	51
63.49	677	0.89	(**)	52.61	817	0.73	(**)	27.56	F05	2	51
275.76	156	3.66	11.0	228.48	188	3.03	11.0	6.35	F06	2	74
238.99	180	3.17	11.0	198.02	217	2.63	11.0	7.32	F06	2	74
203.28	211	2.70	11.0	168.43	255	2.23	11.0	8.61	F06	2	74
178.32	241	3.40	11.0	147.75	291	2.82	11.0	9.81	F06	2	74
163.52	263	3.12	11.0	135.48	317	2.59	11.0	10.70	F06	2	74
146.90	293	2.80	11.0	121.72	353	2.32	11.0	11.91	F06	2	74
134.70	319	2.57	11.0	111.61	385	2.13	11.0	12.99	F06	2	74
124.05	346	2.37	11.0	102.78	418	1.96	11.0	14.11	F06	2	74
113.75	378	2.17	11.0	94.25	456	1.80	11.0	15.38	F06	2	74
107.51	400	2.05	11.0	89.08	482	1.70	11.0	16.28	F06	2	74
91.45	470	1.74	11.0	75.77	567	1.45	11.0	19.14	F06	2	74
75.64	568	1.44	11.0	62.67	686	1.20	11.0	23.14	F06	2	74
69.36	620	1.32	11.0	57.47	748	1.10	11.0	25.23	F06	2	74
150.60	285	3.82	15.0	124.78	344	3.16	15.0	11.62	F07	2	97
108.86	395	3.80	15.0	90.20	476	3.15	15.0	16.08	F07	2	97
92.65	464	3.23	15.0	76.76	560	2.68	15.0	18.89	F07	2	97
79.38	541	2.77	15.0	65.77	653	2.30	15.0	22.05	F07	2	97
69.29	620	2.42	14.0	57.41	749	2.00	15.0	25.25	F07	2	97
59.56	721	2.08	13.0	49.35	871	1.72	13.0	29.38	F07	2	97
50.37	853	1.76	12.0	41.73	1030	1.46	10.0	34.74	F07	2	97
32.31	1330	1.13	9.0	26.77	1605	0.93	(**)	54.16	F07	3	98

PN = 4.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
26.57	1618	0.93	(**)	22.01	1952	0.77	(**)	65.88	F07	3	98
69.93	615	3.91	20.0	57.94	742	3.24	20.0	25.03	F08	2	134
51.66	832	3.35	20.0	42.81	1004	2.78	20.0	33.87	F08	2	134
34.35	1251	2.40	20.0	28.46	1510	1.99	20.0	50.95	F08	3	144
30.32	1418	2.12	20.0	25.12	1711	1.75	20.0	57.73	F08	3	144
29.23	1470	2.04	20.0	24.22	1774	1.69	20.0	59.86	F08	3	144
25.05	1716	1.75	20.0	20.75	2071	1.45	20.0	69.87	F08	3	144
21.86	1966	1.53	20.0	18.12	2372	1.26	20.0	80.04	F08	3	144
18.79	2287	1.31	20.0	15.57	2760	1.09	20.0	93.11	F08	3	144
17.27	2488	1.21	20.0	14.31	3003	1.00	(**)	101.32	F08	3	144
15.89	2704	1.11	20.0	13.17	3263	0.92	(**)	110.11	F08	3	144
15.24	2819	1.06	20.0	12.63	3402	0.88	20.0	114.80	F08	3	144
14.70	2923	1.03	(**)	12.18	3528	0.85	(**)	119.05	F08	3	144
12.59	3412	0.88	(**)	10.44	4118	0.73	(**)	138.95	F08	3	144
25.68	1673	2.69	29.0	21.28	2020	2.23	(**)	68.15	F09	3	196
22.66	1897	2.37	29.0	18.77	2289	1.97	(**)	77.23	F09	3	196
21.85	1967	2.29	29.0	18.10	2374	1.90	(**)	80.09	F09	3	196
18.90	2274	1.98	29.0	15.66	2744	1.64	(**)	92.59	F09	3	196
16.74	2567	1.75	29.0	13.87	3098	1.45	(**)	104.54	F09	3	196
14.49	2966	1.52	29.0	12.01	3579	1.26	(**)	120.77	F09	3	196
12.72	3380	1.33	29.0	10.54	4079	1.10	(**)	137.63	F09	3	196
12.25	3508	1.28	29.0	10.15	4234	1.06	(**)	142.85	F09	3	196
11.22	3831	1.17	29.0	9.30	4623	0.97	(**)	155.99	F09	3	196
10.82	3972	1.13	29.0	8.96	4794	0.94	(**)	161.76	F09	3	196
9.36	4592	0.98	(**)	7.75	5542	0.81	(**)	186.99	F09	3	196
8.29	5185	0.87	(**)	6.87	6258	0.72	(**)	211.14	F09	3	196

Note: (**) Upon request.

PN = 5.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.71	155	2.32	8.4	280.65	187	1.92	9.1	5.17	F05	2	56
274.51	191	1.88	9.2	227.45	231	1.56	9.1	6.38	F05	2	56
229.80	229	1.58	9.1	190.40	276	1.31	8.8	7.62	F05	2	56
204.27	257	2.14	8.9	169.26	310	1.77	8.5	8.57	F05	2	56
186.64	281	1.99	8.7	154.64	340	1.65	8.2	9.38	F05	2	56
165.55	317	1.83	8.4	137.17	383	1.51	7.7	10.57	F05	2	56
151.26	347	1.73	8.1	125.33	419	1.43	7.3	11.57	F05	2	56
138.59	379	1.58	7.8	114.83	457	1.31	6.7	12.63	F05	2	56
126.62	415	1.45	7.3	104.92	501	1.20	5.9	13.82	F05	2	56
112.38	467	1.28	6.5	93.12	564	1.06	(**)	15.57	F05	2	56
91.97	571	1.05	(**)	76.21	689	0.87	(**)	19.03	F05	2	56
84.03	625	0.96	(**)	69.63	754	0.80	(**)	20.83	F05	2	56
326.56	161	3.54	13.9	270.57	194	2.94	13.9	5.36	F06	2	76
275.76	190	2.99	13.0	228.48	230	2.48	13.8	6.35	F06	2	76
238.99	220	2.59	12.1	198.02	265	2.15	13.7	7.32	F06	2	76
203.28	258	2.21	12.0	168.43	312	1.83	13.6	8.61	F06	2	76
178.32	295	2.78	11.8	147.75	355	2.31	13.2	9.81	F06	2	76
163.52	321	2.55	11.7	135.48	388	2.12	13.1	10.70	F06	2	76
146.90	358	2.29	11.5	121.72	432	1.90	13.1	11.91	F06	2	76
134.70	390	2.10	11.3	111.61	471	1.74	12.9	12.99	F06	2	76

PN = 5.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
124.05	423	1.94	11.1	102.78	511	1.60	12.7	14.11	F06	2	76
113.75	462	1.78	10.8	94.25	557	1.47	12.4	15.38	F06	2	76
107.51	489	1.68	10.6	89.08	590	1.39	12.2	16.28	F06	2	76
91.45	574	1.43	9.7	75.77	693	1.18	11.3	19.14	F06	2	76
75.64	694	1.18	8.2	62.67	838	0.98	(**)	23.14	F06	2	76
69.36	757	1.08	8.0	57.47	914	0.90	(**)	25.23	F06	2	76
172.51	304	3.65	18.6	142.94	367	3.02	18.6	10.14	F07	2	99
150.60	349	3.13	18.6	124.78	421	2.59	18.6	11.62	F07	2	99
129.77	405	3.71	13.0	107.52	489	3.07	17.0	13.49	F07	2	99
108.86	483	3.11	18.0	90.20	582	2.58	18.6	16.08	F07	2	99
92.65	567	2.65	19.5	76.76	684	2.19	18.6	18.89	F07	2	99
79.38	662	2.27	19.2	65.77	799	1.88	18.6	22.05	F07	2	99
69.29	758	1.98	18.7	57.41	915	1.64	17.9	25.25	F07	2	99
59.56	882	1.70	18.1	49.35	1064	1.41	16.9	29.38	F07	2	99
50.37	1043	1.44	17.1	41.73	1259	1.19	16.0	34.74	F07	2	99
32.31	1626	0.92	(**)	26.77	1962	0.76	(**)	54.16	F07	3	100
147.95	355	4.00	20.0	122.59	428	3.31	20.0	11.83	F08	2	136
109.30	481	3.43	20.0	90.57	580	2.84	20.0	16.01	F08	2	136
69.93	751	3.20	20.0	57.94	907	2.65	20.0	25.03	F08	2	136
67.43	779	3.85	20.0	55.87	940	3.19	20.0	25.95	F08	2	136
58.33	900	3.33	20.0	48.33	1087	2.76	20.0	30.00	F08	2	136
51.66	1017	2.74	20.0	42.81	1227	2.27	20.0	33.87	F08	2	136
34.35	1529	1.96	20.0	28.46	1846	1.63	20.0	50.95	F08	3	146
30.32	1733	1.73	20.0	25.12	2091	1.43	20.0	57.73	F08	3	146
29.23	1797	1.67	20.0	24.22	2169	1.38	20.0	59.86	F08	3	146
25.05	2097	1.43	20.0	20.75	2531	1.19	20.0	69.87	F08	3	146
21.86	2402	1.25	20.0	18.12	2899	1.03	(**)	80.04	F08	3	146
18.79	2795	1.07	19.0	15.57	3373	0.89	(**)	93.11	F08	3	146
17.27	3041	0.99	(**)	14.31	3670	0.82	(**)	101.32	F08	3	146
15.89	3305	0.91	(**)	13.17	3989	0.75	(**)	110.11	F08	3	146
15.24	3446	0.87	(**)	12.63	4158	0.72	(**)	114.80	F08	3	146
25.68	2045	2.20	29.0	21.28	2469	1.82	29.0	68.15	F09	3	198
22.66	2318	1.94	(**)	18.77	2798	1.61	(**)	77.23	F09	3	198
21.85	2404	1.87	29.0	18.10	2901	1.55	29.0	80.09	F09	3	198
18.90	2779	1.62	29.0	15.66	3354	1.34	29.0	92.59	F09	3	198
16.74	3138	1.43	29.0	13.87	3787	1.19	29.0	104.54	F09	3	198
14.49	3625	1.24	29.0	12.01	4375	1.03	(**)	120.77	F09	3	198
12.72	4131	1.09	28.0	10.54	4986	0.90	(**)	137.63	F09	3	198
12.25	4287	1.05	(**)	10.15	5175	0.87	(**)	142.85	F09	3	198
11.22	4682	0.96	(**)	9.30	5650	0.80	(**)	155.99	F09	3	198
10.82	4855	0.93	(**)	8.96	5860	0.77	(**)	161.76	F09	3	198

Note: (**) Upon request.

PN = 7.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.71	211	1.70	8.7	280.65	255	1.41	8.9	5.17	F05	2	74
274.51	261	1.38	8.9	227.45	315	1.14	8.4	6.38	F05	2	74
229.80	312	1.16	8.5	190.40	376	0.96	(**)	7.62	F05	2	74
204.27	351	1.57	8.1	169.26	423	1.30	7.2	8.57	F05	2	74
186.64	384	1.46	7.7	154.64	463	1.21	6.6	9.38	F05	2	74

PN = 7.50 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
165.55	433	1.34	7.1	137.17	522	1.11	5.5	10.57	F05	2	74
151.26	474	1.27	6.4	125.33	571	1.05	(**)	11.57	F05	2	74
138.59	517	1.16	5.5	114.83	624	0.96	(**)	12.63	F05	2	74
126.62	566	1.06	(**)	104.92	683	0.88	(**)	13.82	F05	2	74
112.38	637	0.94	(**)	93.12	769	0.78	(**)	15.57	F05	2	74
396.40	181	3.15	12.8	328.45	218	2.61	13.7	4.41	F06	2	102
326.56	219	2.60	12.1	270.57	265	2.15	13.7	5.36	F06	2	102
275.76	260	2.19	12.0	228.48	313	1.82	13.6	6.35	F06	2	102
238.99	300	1.90	11.8	198.02	362	1.58	13.4	7.32	F06	2	102
203.28	352	1.62	11.5	168.43	425	1.34	13.1	8.61	F06	2	102
178.32	402	2.04	11.2	147.75	485	1.69	12.0	9.81	F06	2	102
163.52	438	1.87	11.0	135.48	529	1.55	11.0	10.70	F06	2	102
146.90	488	1.68	10.6	121.72	588	1.39	10.0	11.91	F06	2	102
134.70	532	1.54	10.2	111.61	642	1.28	11.8	12.99	F06	2	102
124.05	577	1.42	9.7	102.78	697	1.18	11.3	14.11	F06	2	102
113.75	630	1.30	9.1	94.25	760	1.08	(**)	15.38	F06	2	102
107.51	666	1.23	8.6	89.08	804	1.02	(**)	16.28	F06	2	102
91.45	783	1.05	(**)	75.77	945	0.87	(**)	19.14	F06	2	102
236.58	303	3.67	19.9	196.02	365	3.04	19.9	7.40	F07	2	125
201.35	356	3.12	19.0	166.83	429	2.59	19.9	8.69	F07	2	125
187.82	381	3.93	19.0	155.62	460	3.26	19.7	9.32	F07	2	125
172.51	415	2.67	19.0	142.94	501	2.22	19.7	10.14	F07	2	125
153.99	465	3.22	19.2	127.59	561	2.67	19.6	11.36	F07	2	125
150.60	476	2.29	19.8	124.78	574	1.90	19.5	11.62	F07	2	125
129.77	552	2.72	19.6	107.52	666	2.25	19.2	13.49	F07	2	125
108.86	658	2.28	19.2	90.20	794	1.89	18.0	16.08	F07	2	125
92.65	773	1.94	18.7	76.76	933	1.61	17.8	18.89	F07	2	125
79.38	902	1.66	18.0	65.77	1089	1.38	16.8	22.05	F07	2	125
69.29	1034	1.45	17.1	57.41	1248	1.20	15.4	25.25	F07	2	125
59.56	1202	1.25	15.8	49.35	1451	1.03	(**)	29.38	F07	2	125
147.95	484	2.93	20.0	122.59	584	2.43	20.0	11.83	F08	2	162
142.67	502	3.51	20.0	118.21	606	2.91	20.0	12.27	F08	2	162
123.42	580	3.04	20.0	102.26	700	2.52	20.0	14.18	F08	2	162
109.30	655	2.51	20.0	90.57	791	2.08	20.0	16.01	F08	2	162
93.13	769	3.90	20.0	77.16	928	3.23	20.0	18.79	F08	2	162
79.25	904	3.32	20.0	65.67	1091	2.75	20.0	22.08	F08	2	162
69.93	1024	2.35	20.0	57.94	1236	1.94	20.0	25.03	F08	2	162
67.43	1062	2.82	20.0	55.87	1282	2.34	20.0	25.95	F08	2	162
58.33	1228	2.44	20.0	48.33	1482	2.02	20.0	30.00	F08	2	162
51.66	1386	2.01	20.0	42.81	1673	1.67	20.0	33.87	F08	2	162
59.26	1209	2.48	20.0	49.10	1459	2.06	20.0	29.53	F08	3	172
48.59	1474	2.04	20.0	40.26	1779	1.69	20.0	36.02	F08	3	172
40.95	1749	1.72	20.0	33.93	2111	1.42	20.0	42.74	F08	3	172
34.35	2085	1.44	20.0	28.46	2517	1.19	20.0	50.95	F08	3	172
30.32	2363	1.27	20.0	25.12	2851	1.05	(**)	57.73	F08	3	172
29.80	2403	1.25	20.0	24.69	2901	1.03	(**)	58.72	F08	3	172
29.23	2450	1.22	20.0	24.22	2957	1.01	(**)	59.86	F08	3	172
25.05	2860	1.05	(**)	20.75	3451	0.87	(**)	69.87	F08	3	172
24.43	2931	1.02	(**)	20.24	3538	0.85	(**)	71.62	F08	3	172
21.86	3276	0.92	(**)	18.12	3954	0.76	(**)	80.04	F08	3	172

PN = 7.50 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
20.59	3479	0.86	(**)	17.06	4198	0.71	(**)	84.99	F08	3	172
124.52	575	2.93	29.0	103.17	694	2.43	29.0	14.05	F09	2	209
104.23	687	3.89	29.0	86.36	829	3.23	29.0	16.79	F09	2	209
92.06	778	2.74	29.0	76.28	939	2.27	29.0	19.01	F09	2	209
59.06	1213	2.83	29.0	48.94	1464	2.34	29.0	29.63	F09	2	209
51.27	1397	3.22	29.0	42.48	1686	2.67	29.0	34.13	F09	2	209
45.28	1582	2.74	29.0	37.52	1909	2.27	29.0	38.65	F09	2	209
41.70	1718	2.62	29.0	34.55	2073	2.17	29.0	41.97	F09	3	224
34.98	2048	2.20	29.0	28.98	2471	1.82	29.0	50.03	F09	3	224
30.18	2374	1.90	29.0	25.00	2865	1.57	29.0	57.99	F09	3	224
25.68	2789	1.61	29.0	21.28	3366	1.34	29.0	68.15	F09	3	224
22.66	3161	1.42	29.0	18.77	3815	1.18	29.0	77.23	F09	3	224
21.85	3278	1.37	29.0	18.10	3956	1.14	29.0	80.09	F09	3	224
20.65	3469	1.30	29.0	17.11	4187	1.07	29.0	84.76	F09	3	224
18.90	3789	1.19	29.0	15.66	4573	0.98	(**)	92.59	F09	3	224
17.32	4136	1.09	29.0	14.35	4991	0.90	(**)	101.04	F09	3	224
16.74	4279	1.05	(**)	13.87	5164	0.87	(**)	104.54	F09	3	224
14.94	4794	0.94	(**)	12.38	5786	0.78	(**)	117.13	F09	3	224
14.49	4943	0.91	(**)	12.01	5965	0.75	(**)	120.77	F09	3	224
94.01	762	2.93	53.0	77.89	920	2.43	53.0	18.62	F10	2	299
79.04	906	3.66	53.0	65.49	1094	3.04	53.0	22.14	F10	2	299
48.70	1471	2.93	53.0	40.35	1775	2.43	53.0	35.93	F10	2	299
40.95	1749	3.66	53.0	33.93	2111	3.04	53.0	42.74	F10	2	299
34.48	2077	3.85	53.0	28.57	2507	3.19	53.0	50.75	F10	3	325
29.16	2456	3.26	53.0	24.16	2965	2.70	53.0	60.02	F10	3	325
25.18	2844	2.81	53.0	20.87	3432	2.33	53.0	69.49	F10	3	325
21.55	3323	2.41	53.0	17.86	4011	1.99	53.0	81.20	F10	3	325
19.31	3709	2.16	53.0	16.00	4477	1.79	53.0	90.63	F10	3	325
18.62	3847	2.08	53.0	15.43	4642	1.72	53.0	93.98	F10	3	325
17.14	4178	1.91	53.0	14.20	5043	1.59	53.0	102.08	F10	3	325
16.16	4431	1.81	53.0	13.39	5348	1.50	53.0	108.27	F10	3	325
14.50	4941	1.62	53.0	12.01	5963	1.34	53.0	120.72	F10	3	325
14.28	5017	1.59	53.0	11.83	6055	1.32	53.0	122.58	F10	3	325
12.52	5721	1.40	53.0	10.37	6904	1.16	53.0	139.78	F10	3	325
10.71	6685	1.20	53.0	8.88	8068	0.99	(**)	163.33	F10	3	325
9.60	7461	1.07	53.0	7.95	9005	0.89	53.0	182.29	F10	3	325
9.26	7737	1.03	(**)	7.67	9338	0.86	(**)	189.04	F10	3	325
8.04	8913	0.90	(**)	6.66	10757	0.74	(**)	217.78	F10	3	325
19.29	3714	3.50	85.0	15.98	4482	2.90	85.0	90.74	F12	3	468
17.23	4158	2.93	85.0	14.27	5018	2.43	85.0	101.58	F12	3	468
16.61	4312	3.02	85.0	13.76	5204	2.50	85.0	105.34	F12	3	468
16.25	4407	2.95	85.0	13.46	5319	2.44	85.0	107.69	F12	3	468
14.48	4945	2.63	85.0	12.00	5968	2.18	85.0	120.82	F12	3	468
14.04	5102	2.55	85.0	11.63	6158	2.11	85.0	124.67	F12	3	468
12.26	5841	2.23	85.0	10.16	7050	1.84	85.0	142.72	F12	3	468
10.56	6783	1.92	85.0	8.75	8187	1.59	85.0	165.73	F12	3	468
9.43	7594	1.71	85.0	7.82	9165	1.42	85.0	185.53	F12	3	468
9.10	7875	1.65	85.0	7.54	9504	1.37	85.0	192.40	F12	3	468
7.93	9032	1.44	85.0	6.57	10900	1.19	85.0	220.67	F12	3	468

Note: (**) Upon request.

PN = 9.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.71	259	1.39	8.9	280.65	313	1.15	8.5	5.17	F05	2	78
274.51	320	1.12	8.0	227.45	386	0.93	(**)	6.38	F05	2	78
229.80	382	0.94	(**)	190.40	461	0.78	(**)	7.62	F05	2	78
204.27	430	1.28	7.1	169.26	519	1.06	(**)	8.57	F05	2	78
186.64	471	1.19	6.4	154.64	568	0.99	(**)	9.38	F05	2	78
165.55	531	1.09	(**)	137.17	641	0.91	(**)	10.57	F05	2	78
151.26	581	1.03	(**)	125.33	701	0.86	(**)	11.57	F05	2	78
138.59	634	0.95	(**)	114.83	765	0.78	(**)	12.63	F05	2	78
126.62	694	0.86	(**)	104.92	837	0.72	(**)	13.82	F05	2	78
396.40	222	2.57	12.1	328.45	268	2.13	13.5	4.41	F06	2	108
326.56	269	2.12	11.9	270.57	325	1.76	13.5	5.36	F06	2	108
275.76	319	1.79	11.7	228.48	385	1.48	13.3	6.35	F06	2	108
238.99	368	1.55	11.4	198.02	444	1.28	13.0	7.32	F06	2	108
203.28	432	1.32	11.0	168.43	522	1.09	12.6	8.61	F06	2	108
178.32	493	1.66	10.5	147.75	595	1.38	12.0	9.81	F06	2	108
163.52	537	1.53	10.1	135.48	648	1.26	11.5	10.70	F06	2	108
146.90	598	1.37	9.4	121.72	722	1.14	11.1	11.91	F06	2	108
134.70	652	1.26	8.8	111.61	787	1.04	(**)	12.99	F06	2	108
124.05	708	1.16	7.9	102.78	855	0.96	(**)	14.11	F06	2	108
113.75	772	1.06	(**)	94.25	932	0.88	(**)	15.38	F06	2	108
107.51	817	1.00	(**)	89.08	986	0.83	(**)	16.28	F06	2	108
91.45	961	0.85	(**)	75.77	1160	0.71	(**)	19.14	F06	2	108
282.02	312	3.56	19.9	233.68	376	2.95	20.1	6.21	F07	2	131
236.58	371	2.99	19.9	196.02	448	2.48	19.9	7.40	F07	2	131
201.35	436	2.54	19.9	166.83	527	2.11	19.7	8.69	F07	2	131
187.82	468	3.21	19.7	155.62	565	2.66	19.5	9.32	F07	2	131
172.51	509	2.18	19.7	142.94	615	1.81	19.4	10.14	F07	2	131
153.99	571	2.63	19.5	127.59	689	2.18	19.1	11.36	F07	2	131
150.60	583	1.87	19.5	124.78	704	1.55	19.0	11.62	F07	2	131
129.77	677	2.22	19.1	107.52	817	1.84	18.5	13.49	F07	2	131
108.86	807	1.86	18.5	90.20	974	1.54	17.5	16.08	F07	2	131
92.65	948	1.58	17.7	76.76	1145	1.31	16.3	18.89	F07	2	131
79.38	1107	1.36	16.5	65.77	1336	1.12	14.5	22.05	F07	2	131
69.29	1268	1.18	15.1	57.41	1530	0.98	(**)	25.25	F07	2	131
59.56	1475	1.02	(**)	49.35	1780	0.84	(**)	29.38	F07	2	131
197.04	446	3.95	20.0	163.26	538	3.27	20.0	8.88	F08	2	168
167.68	524	3.36	20.0	138.94	632	2.79	20.0	10.44	F08	2	168
147.95	594	2.39	20.0	122.59	717	1.98	20.0	11.83	F08	2	168
142.67	616	2.86	20.0	118.21	743	2.37	20.0	12.27	F08	2	168
123.42	712	2.48	20.0	102.26	859	2.05	20.0	14.18	F08	2	168
109.30	804	2.05	20.0	90.57	970	1.70	20.0	16.01	F08	2	168
107.95	814	3.69	20.0	89.44	982	3.05	20.0	16.21	F08	2	168
93.13	943	3.18	20.0	77.16	1139	2.63	20.0	18.79	F08	2	168
79.25	1109	2.71	20.0	65.67	1338	2.24	20.0	22.08	F08	2	168
69.93	1256	1.91	20.0	57.94	1516	1.58	20.0	25.03	F08	2	168
67.43	1303	2.30	20.0	55.87	1573	1.91	20.0	25.95	F08	2	168
58.33	1506	1.99	20.0	48.33	1818	1.65	20.0	30.00	F08	2	168
51.66	1701	1.64	20.0	42.81	2053	1.36	20.0	33.87	F08	2	168
59.26	1483	2.02	20.0	49.10	1789	1.68	20.0	29.53	F08	3	178

PN = 9.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
48.59	1808	1.66	20.0	40.26	2182	1.37	20.0	36.02	F08	3	178
40.95	2146	1.40	20.0	33.93	2590	1.16	20.0	42.74	F08	3	178
34.35	2558	1.17	20.0	28.46	3087	0.97	(**)	50.95	F08	3	178
30.32	2898	1.04	(**)	25.12	3498	0.86	(**)	57.73	F08	3	178
29.80	2948	1.02	(**)	24.69	3558	0.84	(**)	58.72	F08	3	178
29.23	3006	1.00	(**)	24.22	3627	0.83	(**)	59.86	F08	3	178
25.05	3508	0.86	(**)	20.75	4234	0.71	(**)	69.87	F08	3	178
124.52	706	2.39	29.0	103.17	852	1.98	29.0	14.05	F09	2	215
120.07	732	3.66	29.0	99.49	883	3.03	29.0	14.57	F09	2	215
104.23	843	3.17	29.0	86.36	1017	2.63	29.0	16.79	F09	2	215
92.06	954	2.23	29.0	76.28	1152	1.85	29.0	19.01	F09	2	215
68.36	1285	3.50	29.0	56.64	1551	2.90	29.0	25.60	F09	2	215
61.25	1434	3.14	29.0	50.75	1731	2.60	29.0	28.57	F09	2	215
59.06	1488	2.30	29.0	48.94	1795	1.91	29.0	29.63	F09	2	215
51.27	1714	2.63	29.0	42.48	2068	2.18	29.0	34.13	F09	2	215
45.28	1940	2.23	29.0	37.52	2342	1.85	29.0	38.65	F09	2	215
41.70	2107	2.14	29.0	34.55	2543	1.77	29.0	41.97	F09	3	230
34.98	2512	1.79	29.0	28.98	3032	1.48	29.0	50.03	F09	3	230
30.18	2912	1.55	29.0	25.00	3514	1.28	29.0	57.99	F09	3	230
25.68	3421	1.32	29.0	21.28	4129	1.09	29.0	68.15	F09	3	230
22.66	3878	1.16	29.0	18.77	4680	0.96	(**)	77.23	F09	3	230
21.85	4021	1.12	29.0	18.10	4853	0.93	(**)	80.09	F09	3	230
20.65	4256	1.06	29.0	17.11	5136	0.88	(**)	84.76	F09	3	230
18.90	4648	0.97	(**)	15.66	5610	0.80	(**)	92.59	F09	3	230
17.32	5073	0.89	(**)	14.35	6123	0.73	(**)	101.04	F09	3	230
16.74	5249	0.86	(**)	13.87	6334	0.71	(**)	104.54	F09	3	230
94.01	935	2.39	53.0	77.89	1128	1.98	53.0	18.62	F10	2	305
79.04	1112	2.99	53.0	65.49	1342	2.47	53.0	22.14	F10	2	305
48.70	1804	2.39	53.0	40.35	2177	1.98	53.0	35.93	F10	2	305
40.95	2146	2.99	53.0	33.93	2590	2.47	53.0	42.74	F10	2	305
34.48	2548	3.14	53.0	28.57	3075	2.60	53.0	50.75	F10	3	331
29.16	3013	2.65	53.0	24.16	3637	2.20	53.0	60.02	F10	3	331
25.18	3489	2.29	53.0	20.87	4211	1.90	53.0	69.49	F10	3	331
21.55	4077	1.96	53.0	17.86	4920	1.63	53.0	81.20	F10	3	331
19.31	4550	1.76	53.0	16.00	5491	1.46	53.0	90.63	F10	3	331
18.62	4718	1.70	53.0	15.43	5695	1.40	53.0	93.98	F10	3	331
17.14	5125	1.56	53.0	14.20	6186	1.29	53.0	102.08	F10	3	331
16.16	5436	1.47	53.0	13.39	6560	1.22	53.0	108.27	F10	3	331
14.50	6061	1.32	53.0	12.01	7315	1.09	(**)	120.72	F10	3	331
14.28	6154	1.30	53.0	11.83	7428	1.08	53.0	122.58	F10	3	331
12.52	7018	1.14	53.0	10.37	8469	0.94	(**)	139.78	F10	3	331
10.71	8200	0.98	(**)	8.88	9897	0.81	(**)	163.33	F10	3	331
9.60	9152	0.87	(**)	7.95	11046	0.72	(**)	182.29	F10	3	331
25.64	3427	3.79	85.0	21.24	4136	3.14	85.0	68.26	F12	3	474
22.40	3923	3.31	85.0	18.56	4735	2.75	85.0	78.14	F12	3	474
19.29	4556	2.85	85.0	15.98	5498	2.36	85.0	90.74	F12	3	474
17.23	5100	2.39	85.0	14.27	6155	1.98	85.0	101.58	F12	3	474
16.61	5289	2.46	85.0	13.76	6383	2.04	85.0	105.34	F12	3	474
16.25	5407	2.40	85.0	13.46	6525	1.99	85.0	107.69	F12	3	474

PN = 9.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
14.48	6066	2.14	85.0	12.00	7321	1.78	85.0	120.82	F12	3	474
14.04	6259	2.08	85.0	11.63	7554	1.72	85.0	124.67	F12	3	474
12.26	7165	1.81	85.0	10.16	8648	1.50	85.0	142.72	F12	3	474
10.56	8321	1.56	85.0	8.75	10042	1.29	85.0	165.73	F12	3	474
9.43	9315	1.40	85.0	7.82	11242	1.16	85.0	185.53	F12	3	474
9.10	9660	1.35	85.0	7.54	11658	1.12	85.0	192.40	F12	3	474
7.93	11079	1.17	85.0	6.57	13371	0.97	(**)	220.67	F12	3	474

Note: (**) Upon request.

PN = 11.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
396.40	265	2.15	11.9	328.45	320	1.78	13.3	4.41	F06	2	112
326.56	322	1.77	11.7	270.57	388	1.47	13.3	5.36	F06	2	112
275.76	381	1.50	11.4	228.48	460	1.24	12.9	6.35	F06	2	112
238.99	440	1.30	11.2	198.02	531	1.07	11.0	7.32	F06	2	112
203.28	517	1.10	11.0	168.43	624	0.91	(**)	8.61	F06	2	112
178.32	589	1.39	9.6	147.75	711	1.15	12.5	9.81	F06	2	112
163.52	642	1.28	8.9	135.48	775	1.06	(**)	10.70	F06	2	112
146.90	715	1.15	7.9	121.72	863	0.95	(**)	11.91	F06	2	112
134.70	780	1.05	(**)	111.61	941	0.87	(**)	12.99	F06	2	112
124.05	847	0.97	(**)	102.78	1022	0.80	(**)	14.11	F06	2	112
113.75	924	0.89	(**)	94.25	1115	0.74	(**)	15.38	F06	2	112
334.67	314	3.54	19.2	277.30	379	2.93	19.2	5.23	F07	2	135
282.02	372	2.98	19.9	233.68	450	2.47	19.9	6.21	F07	2	135
236.58	444	2.50	19.9	196.02	536	2.07	16.5	7.40	F07	2	135
201.35	522	2.13	19.7	166.83	630	1.76	19.3	8.69	F07	2	135
187.82	559	2.68	19.6	155.62	675	2.22	19.1	9.32	F07	2	135
172.51	609	1.82	19.4	142.94	735	1.51	18.9	10.14	F07	2	135
153.99	682	2.20	19.1	127.59	823	1.82	18.5	11.36	F07	2	135
150.60	698	1.56	18.5	124.78	842	1.29	18.0	11.62	F07	2	135
129.77	810	1.85	18.5	107.52	977	1.54	17.6	13.49	F07	2	135
108.86	965	1.55	17.6	90.20	1165	1.29	15.0	16.08	F07	2	135
92.65	1134	1.32	16.4	76.76	1368	1.10	14.2	18.89	F07	2	135
79.38	1323	1.13	14.6	65.77	1597	0.94	(**)	22.05	F07	2	135
69.29	1516	0.99	(**)	57.41	1830	0.82	(**)	25.25	F07	2	135
59.56	1764	0.85	(**)	49.35	2129	0.70	(**)	29.38	F07	2	135
228.39	460	3.83	20.0	189.24	555	3.17	20.0	7.66	F08	2	172
197.04	533	3.31	20.0	163.26	643	2.74	20.0	8.88	F08	2	172
167.68	626	2.81	20.0	138.94	756	2.33	20.0	10.44	F08	2	172
147.95	710	2.00	20.0	122.59	857	1.66	20.0	11.83	F08	2	172
142.67	736	2.39	20.0	118.21	889	1.98	20.0	12.27	F08	2	172
128.69	816	3.68	20.0	106.63	985	3.05	20.0	13.60	F08	2	172
123.42	851	2.07	20.0	102.26	1027	1.72	20.0	14.18	F08	2	172
109.30	961	1.71	20.0	90.57	1160	1.42	20.0	16.01	F08	2	172
107.95	973	3.08	20.0	89.44	1174	2.55	20.0	16.21	F08	2	172
93.13	1128	2.66	20.0	77.16	1361	2.20	20.0	18.79	F08	2	172
79.25	1325	2.26	20.0	65.67	1600	1.88	20.0	22.08	F08	2	172
69.93	1502	1.60	20.0	57.94	1813	1.33	20.0	25.03	F08	2	172
67.43	1558	1.93	20.0	55.87	1880	1.60	20.0	25.95	F08	2	172

PN = 11.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
58.33	1801	1.67	20.0	48.33	2173	1.38	20.0	30.00	F08	2	172
51.66	2033	1.37	20.0	42.81	2454	1.14	20.0	33.87	F08	2	172
59.26	1773	1.69	20.0	49.10	2139	1.40	20.0	29.53	F08	3	182
48.59	2162	1.39	20.0	40.26	2609	1.15	20.0	36.02	F08	3	182
40.95	2566	1.17	20.0	33.93	3096	0.97	(**)	42.74	F08	3	182
34.35	3058	0.98	(**)	28.46	3691	0.81	(**)	50.95	F08	3	182
30.32	3465	0.87	(**)	25.12	4182	0.72	(**)	57.73	F08	3	182
29.80	3525	0.85	(**)	24.69	4254	0.71	(**)	58.72	F08	3	182
138.97	756	3.54	29.0	115.15	912	2.93	29.0	12.59	F09	2	219
124.52	844	2.00	29.0	103.17	1018	1.66	29.0	14.05	F09	2	219
120.07	875	3.06	29.0	99.49	1056	2.53	29.0	14.57	F09	2	219
104.23	1008	2.65	29.0	86.36	1216	2.20	29.0	16.79	F09	2	219
92.49	1136	3.96	29.0	76.63	1371	3.28	29.0	18.92	F09	2	219
92.06	1141	1.86	29.0	76.28	1377	1.55	29.0	19.01	F09	2	219
79.88	1315	3.42	29.0	66.19	1587	2.84	29.0	21.91	F09	2	219
68.36	1537	2.93	29.0	56.64	1855	2.43	29.0	25.60	F09	2	219
61.25	1715	2.62	29.0	50.75	2070	2.17	29.0	28.57	F09	2	219
59.06	1779	1.93	29.0	48.94	2147	1.60	29.0	29.63	F09	2	219
51.27	2049	2.20	29.0	42.48	2473	1.82	29.0	34.13	F09	2	219
45.28	2320	1.86	29.0	37.52	2800	1.55	29.0	38.65	F09	2	219
41.70	2519	1.79	29.0	34.55	3041	1.48	29.0	41.97	F09	3	234
34.98	3003	1.50	29.0	28.98	3625	1.24	29.0	50.03	F09	3	234
30.18	3481	1.29	29.0	25.00	4202	1.07	(**)	57.99	F09	3	234
25.68	4091	1.10	29.0	21.28	4937	0.91	(**)	68.15	F09	3	234
22.66	4636	0.97	(**)	18.77	5595	0.80	(**)	77.23	F09	3	234
21.85	4808	0.94	(**)	18.10	5803	0.78	(**)	80.09	F09	3	234
20.65	5088	0.88	29.0	17.11	6141	0.73	(**)	84.76	F09	3	234
94.01	1117	2.00	53.0	77.89	1349	1.66	53.0	18.62	F10	2	309
90.65	1159	3.63	53.0	75.11	1399	3.01	53.0	19.30	F10	2	309
79.04	1329	2.50	53.0	65.49	1604	2.07	53.0	22.14	F10	2	309
48.70	2157	2.00	53.0	40.35	2603	1.66	53.0	35.93	F10	2	309
46.96	2237	3.58	53.0	38.91	2700	2.96	53.0	37.26	F10	2	309
40.95	2566	2.50	53.0	33.93	3096	2.07	53.0	42.74	F10	2	309
34.48	3046	2.63	53.0	28.57	3677	2.18	53.0	50.75	F10	3	335
29.16	3603	2.22	53.0	24.16	4348	1.84	53.0	60.02	F10	3	335
25.18	4171	1.92	53.0	20.87	5034	1.59	53.0	69.49	F10	3	335
21.55	4874	1.64	53.0	17.86	5883	1.36	53.0	81.20	F10	3	335
19.31	5440	1.47	53.0	16.00	6566	1.22	53.0	90.63	F10	3	335
18.62	5642	1.42	53.0	15.43	6809	1.17	53.0	93.98	F10	3	335
17.14	6128	1.31	53.0	14.20	7396	1.08	53.0	102.08	F10	3	335
16.16	6499	1.23	53.0	13.39	7844	1.02	(**)	108.27	F10	3	335
14.50	7247	1.10	53.0	12.01	8746	0.91	(**)	120.72	F10	3	335
14.28	7358	1.09	53.0	11.83	8881	0.90	(**)	122.58	F10	3	335
12.52	8391	0.95	(**)	10.37	10127	0.79	(**)	139.78	F10	3	335
29.68	3539	3.67	85.0	24.59	4271	3.04	85.0	58.96	F12	3	478
25.64	4097	3.17	85.0	21.24	4945	2.63	85.0	68.26	F12	3	478
22.40	4691	2.77	85.0	18.56	5661	2.30	85.0	78.14	F12	3	478
19.29	5447	2.39	85.0	15.98	6574	1.98	85.0	90.74	F12	3	478
17.23	6098	2.00	85.0	14.27	7359	1.66	85.0	101.58	F12	3	478

PN = 11.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
16.61	6324	2.06	85.0	13.76	7632	1.70	85.0	105.34	F12	3	478
16.25	6464	2.01	85.0	13.46	7802	1.67	85.0	107.69	F12	3	478
14.48	7253	1.79	85.0	12.00	8753	1.49	85.0	120.82	F12	3	478
14.04	7484	1.74	85.0	11.63	9032	1.44	85.0	124.67	F12	3	478
12.26	8567	1.52	85.0	10.16	10340	1.26	85.0	142.72	F12	3	478
10.56	9949	1.31	85.0	8.75	12007	1.08	85.0	165.73	F12	3	478
9.43	11137	1.17	85.0	7.82	13442	0.97	(**)	185.53	F12	3	478
9.10	11550	1.13	85.0	7.54	13939	0.93	(**)	192.40	F12	3	478
7.93	13247	0.98	(**)	6.57	15987	0.81	(**)	220.67	F12	3	478

Note: (**) Upon request.

PN = 15.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
396.40	361	1.58	11.5	328.45	436	1.31	11.5	4.41	F06	2	163
326.56	439	1.30	11.0	270.57	529	1.08	(**)	5.36	F06	2	163
275.76	519	1.10	(**)	228.48	627	0.91	(**)	6.35	F06	2	163
178.32	803	1.02	(**)	147.75	970	0.85	(**)	9.81	F06	2	163
163.52	876	0.94	(**)	135.48	1057	0.78	(**)	10.70	F06	2	163
408.19	351	3.08	18.5	338.22	424	2.55	18.4	4.29	F07	2	186
334.67	428	2.59	18.5	277.30	517	2.15	19.7	5.23	F07	2	186
282.02	508	2.19	19.7	233.68	613	1.81	19.4	6.21	F07	2	186
236.58	606	1.83	19.4	196.02	731	1.52	19.0	7.40	F07	2	186
201.35	711	1.56	19.0	166.83	859	1.29	18.2	8.69	F07	2	186
187.82	763	1.97	18.7	155.62	920	1.63	17.9	9.32	F07	2	186
172.51	830	1.34	18.4	142.94	1002	1.11	17.4	10.14	F07	2	186
153.99	930	1.61	17.8	127.59	1123	1.34	16.5	11.36	F07	2	186
129.77	1104	1.36	16.6	107.52	1332	1.13	14.6	13.49	F07	2	186
108.86	1316	1.14	14.7	90.20	1588	0.94	(**)	16.08	F07	2	186
92.65	1546	0.97	(**)	76.76	1866	0.80	(**)	18.89	F07	2	186
272.27	526	3.35	20.0	225.59	635	2.78	20.0	6.43	F08	2	223
228.39	627	2.81	20.0	189.24	757	2.33	20.0	7.66	F08	2	223
197.04	727	2.42	20.0	163.26	877	2.01	20.0	8.88	F08	2	223
167.68	854	2.06	20.0	138.94	1031	1.71	20.0	10.44	F08	2	223
158.27	905	3.31	20.0	131.14	1092	2.75	20.0	11.06	F08	2	223
147.95	968	1.47	20.0	122.59	1169	1.21	20.0	11.83	F08	2	223
142.67	1004	1.76	20.0	118.21	1212	1.45	20.0	12.27	F08	2	223
128.69	1113	2.70	20.0	106.63	1343	2.23	20.0	13.60	F08	2	223
123.42	1161	1.52	20.0	102.26	1401	1.26	20.0	14.18	F08	2	223
107.95	1327	2.26	20.0	89.44	1602	1.87	20.0	16.21	F08	2	223
93.13	1538	1.95	20.0	77.16	1856	1.62	20.0	18.79	F08	2	223
79.25	1807	1.66	20.0	65.67	2181	1.38	20.0	22.08	F08	2	223
69.93	2049	1.17	20.0	57.94	2472	0.97	(**)	25.03	F08	2	223
67.43	2124	1.41	20.0	55.87	2564	1.17	20.0	25.95	F08	2	223
58.33	2456	1.22	20.0	48.33	2964	1.01	(**)	30.00	F08	2	223
59.26	2417	1.24	20.0	49.10	2917	1.03	(**)	29.53	F08	3	233
48.59	2948	1.02	(**)	40.26	3558	0.84	(**)	36.02	F08	3	233
40.95	3499	0.86	(**)	33.93	4222	0.71	(**)	42.74	F08	3	233
188.02	762	3.51	29.0	155.79	920	2.91	29.0	9.31	F09	2	270
162.39	882	3.03	29.0	134.55	1065	2.51	29.0	10.78	F09	2	270
138.97	1031	2.60	29.0	115.15	1244	2.15	29.0	12.59	F09	2	270

PN = 15.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
124.52	1150	1.47	29.0	103.17	1388	1.21	29.0	14.05	F09	2	270
120.07	1193	2.24	29.0	99.49	1440	1.86	29.0	14.57	F09	2	270
109.38	1310	3.44	29.0	90.63	1581	2.85	29.0	16.00	F09	2	270
104.23	1374	1.95	29.0	86.36	1659	1.61	29.0	16.79	F09	2	270
92.49	1549	2.91	29.0	76.63	1869	2.41	29.0	18.92	F09	2	270
79.88	1793	2.51	29.0	66.19	2164	2.08	29.0	21.91	F09	2	270
68.36	2096	2.15	29.0	56.64	2529	1.78	29.0	25.60	F09	2	270
61.25	2339	1.92	29.0	50.75	2823	1.59	29.0	28.57	F09	2	270
59.06	2425	1.41	29.0	48.94	2927	1.17	29.0	29.63	F09	2	270
51.27	2794	1.61	29.0	42.48	3372	1.33	29.0	34.13	F09	2	270
65.59	2184	2.06	29.0	54.35	2636	1.71	29.0	26.68	F09	3	285
51.28	2793	1.61	29.0	42.49	3371	1.33	29.0	34.12	F09	3	285
41.70	3435	1.31	29.0	34.55	4146	1.09	29.0	41.97	F09	3	285
34.98	4095	1.10	29.0	28.98	4943	0.91	(**)	50.03	F09	3	285
32.48	4411	1.02	(**)	26.91	5324	0.85	(**)	53.89	F09	3	285
30.18	4747	0.95	(**)	25.00	5729	0.79	(**)	57.99	F09	3	285
105.24	1361	3.98	53.0	87.20	1643	3.30	53.0	16.63	F10	2	360
94.01	1524	1.47	53.0	77.89	1839	1.21	53.0	18.62	F10	2	360
90.65	1580	2.66	53.0	75.11	1907	2.21	53.0	19.30	F10	2	360
79.04	1812	1.83	53.0	65.49	2187	1.52	53.0	22.14	F10	2	360
63.31	2263	3.54	53.0	52.46	2731	2.93	53.0	27.64	F10	2	360
54.52	2627	3.04	53.0	45.17	3171	2.52	53.0	32.10	F10	2	360
48.70	2941	1.47	53.0	40.35	3550	1.21	53.0	35.93	F10	2	360
46.96	3050	2.62	53.0	38.91	3681	2.17	53.0	37.26	F10	2	360
40.95	3498	1.83	53.0	33.93	4222	1.52	53.0	42.74	F10	2	360
52.08	2750	2.91	53.0	43.15	3319	2.41	53.0	33.60	F10	3	386
42.26	3390	2.36	53.0	35.01	4091	1.96	53.0	41.41	F10	3	386
34.48	4154	1.93	53.0	28.57	5014	1.60	53.0	50.75	F10	3	386
29.16	4913	1.63	53.0	24.16	5929	1.35	53.0	60.02	F10	3	386
25.89	5532	1.45	53.0	21.45	6677	1.20	53.0	67.59	F10	3	386
25.18	5688	1.41	53.0	20.87	6865	1.17	53.0	69.49	F10	3	386
21.55	6647	1.20	53.0	17.86	8022	1.00	(**)	81.20	F10	3	386
21.01	6819	1.17	53.0	17.41	8229	0.97	(**)	83.30	F10	3	386
19.31	7418	1.08	53.0	16.00	8953	0.89	(**)	90.63	F10	3	386
18.62	7693	1.04	(**)	15.43	9285	0.86	(**)	93.98	F10	3	386
17.14	8356	0.96	(**)	14.20	10085	0.79	(**)	102.08	F10	3	386
16.16	8862	0.90	(**)	13.39	10696	0.75	(**)	108.27	F10	3	386
43.62	3284	3.96	85.0	36.14	3964	3.28	85.0	40.12	F12	3	529
35.89	3991	3.26	85.0	29.74	4817	2.70	85.0	48.76	F12	3	529
29.68	4826	2.69	85.0	24.59	5825	2.23	85.0	58.96	F12	3	529
25.64	5587	2.33	85.0	21.24	6743	1.93	85.0	68.26	F12	3	529
23.88	5999	2.17	85.0	19.79	7240	1.80	85.0	73.28	F12	3	529
22.40	6396	2.03	85.0	18.56	7720	1.68	85.0	78.14	F12	3	529
19.65	7290	1.78	85.0	16.28	8798	1.48	85.0	89.06	F12	3	529
19.29	7428	1.75	85.0	15.98	8964	1.45	85.0	90.74	F12	3	529
17.23	8315	1.47	85.0	14.27	10035	1.21	85.0	101.58	F12	3	529
16.61	8623	1.51	85.0	13.76	10407	1.25	85.0	105.34	F12	3	529
16.25	8815	1.47	85.0	13.46	10639	1.22	85.0	107.69	F12	3	529
14.48	9890	1.31	85.0	12.00	11936	1.09	(**)	120.82	F12	3	529
14.04	10205	1.27	85.0	11.63	12316	1.06	(**)	124.67	F12	3	529
12.26	11682	1.11	85.0	10.16	14100	0.92	(**)	142.72	F12	3	529
10.56	13566	0.96	(**)	8.75	16373	0.79	(**)	165.73	F12	3	529
9.43	15187	0.86	(**)	7.82	18329	0.71	(**)	185.53	F12	3	529

PN = 15.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
31.08	4609	3.91	101.0	25.75	5563	3.24	101.0	56.31	F15	3	749
25.79	5555	3.24	101.0	21.37	6704	2.68	101.0	67.86	F15	3	749
21.46	6676	2.70	101.0	17.78	8058	2.23	101.0	81.56	F15	3	749
18.43	7774	2.32	101.0	15.27	9382	1.92	101.0	94.97	F15	3	749
17.29	8286	2.17	101.0	14.32	10000	1.80	101.0	101.23	F15	3	749
16.25	8813	2.04	101.0	13.47	10636	1.69	101.0	107.66	F15	3	749
14.34	9986	1.80	101.0	11.89	12053	1.49	101.0	122.00	F15	3	749
14.06	10189	1.77	101.0	11.65	12297	1.46	101.0	124.47	F15	3	749
12.11	11830	1.52	101.0	10.03	14277	1.26	101.0	144.52	F15	3	749
11.93	12003	1.50	101.0	9.89	14486	1.24	101.0	146.63	F15	3	749
10.25	13975	1.29	101.0	8.49	16867	1.07	(**)	170.73	F15	3	749
9.04	15844	1.14	101.0	7.49	19122	0.94	(**)	193.55	F15	3	749
7.82	18317	0.98	(**)	6.48	22107	0.81	(**)	223.77	F15	3	749

Note: (**) Upon request.

PN = 18.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
396.40	446	1.28	11.0	328.45	538	1.06	11.0	4.41	F06	2	178
326.56	541	1.05	(**)	270.57	653	0.87	(**)	5.36	F06	2	178
275.76	641	0.89	(**)	228.48	773	0.74	(**)	6.35	F06	2	178
408.19	433	2.50	11.0	338.22	522	2.07	11.0	4.29	F07	2	201
334.67	528	2.10	11.0	277.30	637	1.74	11.0	5.23	F07	2	201
282.02	626	1.77	10.0	233.68	756	1.47	11.0	6.21	F07	2	201
236.58	747	1.49	10.0	196.02	901	1.23	10.0	7.40	F07	2	201
201.35	877	1.27	10.0	166.83	1059	1.05	(**)	8.69	F07	2	201
187.82	941	1.59	10.0	155.62	1135	1.32	10.0	9.32	F07	2	201
172.51	1024	1.08	10.0	142.94	1236	0.90	(**)	10.14	F07	2	201
153.99	1147	1.31	9.0	127.59	1385	1.08	10.0	11.36	F07	2	201
129.77	1361	1.10	9.0	107.52	1643	0.91	(**)	13.49	F07	2	201
108.86	1623	0.92	(**)	90.20	1959	0.77	(**)	16.08	F07	2	201
334.85	528	3.34	20.0	277.45	637	2.77	20.0	5.23	F08	2	238
272.27	649	2.72	20.0	225.59	783	2.25	20.0	6.43	F08	2	238
228.39	774	2.28	20.0	189.24	934	1.89	20.0	7.66	F08	2	238
202.42	873	3.44	20.0	167.72	1053	2.85	20.0	8.65	F08	2	238
197.04	897	1.97	20.0	163.26	1082	1.63	20.0	8.88	F08	2	238
167.68	1054	1.67	20.0	138.94	1272	1.39	20.0	10.44	F08	2	238
158.27	1116	2.69	20.0	131.14	1347	2.23	20.0	11.06	F08	2	238
147.95	1194	1.19	20.0	122.59	1441	0.98	(**)	11.83	F08	2	238
142.67	1238	1.42	20.0	118.21	1495	1.18	20.0	12.27	F08	2	238
128.69	1373	2.19	20.0	106.63	1657	1.81	20.0	13.60	F08	2	238
123.42	1432	1.23	20.0	102.26	1728	1.02	(**)	14.18	F08	2	238
107.95	1637	1.83	20.0	89.44	1975	1.52	20.0	16.21	F08	2	238
93.13	1897	1.58	20.0	77.16	2290	1.31	20.0	18.79	F08	2	238
79.25	2229	1.35	20.0	65.67	2690	1.12	20.0	22.08	F08	2	238
69.93	2527	0.95	(**)	57.94	3049	0.79	(**)	25.03	F08	2	238
67.43	2620	1.15	20.0	55.87	3162	0.95	(**)	25.95	F08	2	238
58.33	3029	0.99	(**)	48.33	3655	0.82	(**)	30.00	F08	2	238
59.26	2981	1.01	(**)	49.10	3598	0.83	(**)	29.53	F08	3	248
222.35	795	3.37	29.0	184.24	959	2.79	29.0	7.87	F09	2	285
188.02	940	2.85	29.0	155.79	1134	2.36	29.0	9.31	F09	2	285

PN = 18.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
162.39	1088	2.46	29.0	134.55	1313	2.04	29.0	10.78	F09	2	285
138.97	1271	2.10	29.0	115.15	1534	1.74	29.0	12.59	F09	2	285
134.04	1318	3.41	29.0	111.06	1591	2.83	29.0	13.06	F09	2	285
124.52	1419	1.19	29.0	103.17	1712	0.98	(**)	14.05	F09	2	285
120.07	1471	1.82	29.0	99.49	1776	1.51	29.0	14.57	F09	2	285
109.38	1615	2.79	29.0	90.63	1950	2.31	29.0	16.00	F09	2	285
104.23	1695	1.58	29.0	86.36	2046	1.31	29.0	16.79	F09	2	285
92.49	1910	2.36	29.0	76.63	2306	1.95	29.0	18.92	F09	2	285
79.88	2212	2.03	29.0	66.19	2669	1.69	29.0	21.91	F09	2	285
68.36	2585	1.74	29.0	56.64	3119	1.44	29.0	25.60	F09	2	285
61.25	2884	1.56	29.0	50.75	3481	1.29	29.0	28.57	F09	2	285
59.06	2991	1.15	29.0	48.94	3610	0.95	(**)	29.63	F09	2	285
51.27	3446	1.31	29.0	42.48	4159	1.08	29.0	34.13	F09	2	285
65.59	2694	1.67	29.0	54.35	3251	1.38	29.0	26.68	F09	3	300
51.28	3445	1.31	29.0	42.49	4158	1.08	29.0	34.12	F09	3	300
41.70	4237	1.06	(**)	34.55	5114	0.88	(**)	41.97	F09	3	300
34.98	5051	0.89	(**)	28.98	6096	0.74	(**)	50.03	F09	3	300
122.21	1446	3.70	50.7	101.26	1745	3.07	53.0	14.32	F10	2	375
105.24	1679	3.23	52.6	87.20	2026	2.67	53.0	16.63	F10	2	375
94.01	1879	1.19	53.0	77.89	2268	0.98	(**)	18.62	F10	2	375
90.65	1949	2.16	53.0	75.11	2352	1.79	53.0	19.30	F10	2	375
83.91	2106	3.80	53.0	69.52	2541	3.15	53.0	20.86	F10	2	375
79.04	2235	1.49	53.0	65.49	2698	1.23	53.0	22.14	F10	2	375
72.48	2438	3.28	53.0	60.05	2942	2.72	53.0	24.14	F10	2	375
63.31	2791	2.87	53.0	52.46	3368	2.38	53.0	27.64	F10	2	375
54.52	3241	2.47	53.0	45.17	3911	2.05	53.0	32.10	F10	2	375
48.70	3628	1.19	53.0	40.35	4378	0.98	(**)	35.93	F10	2	375
46.96	3762	2.13	53.0	38.91	4540	1.76	53.0	37.26	F10	2	375
40.95	4315	1.49	53.0	33.93	5208	1.23	53.0	42.74	F10	2	375
52.08	3392	2.36	53.0	43.15	4094	1.95	53.0	33.60	F10	3	401
42.26	4181	1.91	53.0	35.01	5046	1.59	53.0	41.41	F10	3	401
34.48	5124	1.56	53.0	28.57	6184	1.29	53.0	50.75	F10	3	401
29.16	6059	1.32	53.0	24.16	7313	1.09	53.0	60.02	F10	3	401
25.89	6823	1.17	53.0	21.45	8235	0.97	(**)	67.59	F10	3	401
25.18	7015	1.14	53.0	20.87	8467	0.94	(**)	69.49	F10	3	401
21.55	8198	0.98	(**)	17.86	9894	0.81	(**)	81.20	F10	3	401
21.01	8410	0.95	(**)	17.41	10150	0.79	(**)	83.30	F10	3	401
19.31	9149	0.87	(**)	16.00	11042	0.72	(**)	90.63	F10	3	401
105.92	1668	3.63	78.7	87.76	2013	3.01	82.8	16.52	F12	2	504
50.82	3476	3.63	85.0	42.11	4196	3.01	85.0	34.43	F12	2	504
43.62	4051	3.21	85.0	36.14	4889	2.66	85.0	40.12	F12	3	544
35.89	4923	2.64	85.0	29.74	5941	2.19	85.0	48.76	F12	3	544
29.68	5952	2.18	85.0	24.59	7184	1.81	85.0	58.96	F12	3	544
25.64	6891	1.89	85.0	21.24	8317	1.56	85.0	68.26	F12	3	544
23.88	7398	1.76	85.0	19.79	8929	1.46	85.0	73.28	F12	3	544
22.40	7889	1.65	85.0	18.56	9521	1.37	85.0	78.14	F12	3	544
19.65	8991	1.45	85.0	16.28	10851	1.20	85.0	89.06	F12	3	544
19.29	9161	1.42	85.0	15.98	11056	1.18	85.0	90.74	F12	3	544
17.23	10255	1.19	85.0	14.27	12377	0.98	(**)	101.58	F12	3	544

PN = 18.50 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
16.61	10635	1.22	85.0	13.76	12835	1.01	(**)	105.34	F12	3	544
16.25	10872	1.20	85.0	13.46	13121	0.99	(**)	107.69	F12	3	544
14.48	12198	1.07	85.0	12.00	14721	0.88	(**)	120.82	F12	3	544
14.04	12586	1.03	(**)	11.63	15190	0.86	(**)	124.67	F12	3	544
12.26	14408	0.90	(**)	10.16	17389	0.75	(**)	142.72	F12	3	544
31.08	5684	3.17	101.0	25.75	6861	2.62	101.0	56.31	F15	3	764
25.79	6851	2.63	101.0	21.37	8268	2.18	101.0	67.86	F15	3	764
21.46	8234	2.19	101.0	17.78	9938	1.81	101.0	81.56	F15	3	764
18.43	9588	1.88	101.0	15.27	11571	1.56	101.0	94.97	F15	3	764
17.29	10220	1.76	101.0	14.32	12334	1.46	101.0	101.23	F15	3	764
16.25	10869	1.66	101.0	13.47	13118	1.37	101.0	107.66	F15	3	764
14.34	12317	1.46	101.0	11.89	14865	1.21	101.0	122.00	F15	3	764
14.06	12566	1.43	101.0	11.65	15166	1.19	101.0	124.47	F15	3	764
12.11	14590	1.23	101.0	10.03	17608	1.02	(**)	144.52	F15	3	764
11.93	14804	1.22	101.0	9.89	17866	1.01	(**)	146.63	F15	3	764
10.25	17236	1.04	(**)	8.49	20803	0.87	(**)	170.73	F15	3	764
9.04	19541	0.92	(**)	7.49	23584	0.76	(**)	193.55	F15	3	764

Note: (**) Upon request.

PN = 22.00 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
428.27	491	3.59	20.0	354.85	592	2.98	20.0	4.09	F08	2	266
334.85	627	2.81	20.0	277.45	757	2.33	20.0	5.23	F08	2	266
272.27	772	2.28	20.0	225.59	931	1.89	20.0	6.43	F08	2	266
228.39	920	1.92	20.0	189.24	1110	1.59	20.0	7.66	F08	2	266
202.42	1038	2.89	20.0	167.72	1253	2.39	20.0	8.65	F08	2	266
197.04	1066	1.65	20.0	163.26	1287	1.37	20.0	8.88	F08	2	266
167.68	1253	1.41	20.0	138.94	1512	1.17	20.0	10.44	F08	2	266
158.27	1327	2.26	20.0	131.14	1602	1.87	20.0	11.06	F08	2	266
147.95	1420	1.00	20.0	122.59	1714	0.83	(**)	11.83	F08	2	266
142.67	1473	1.20	20.0	118.21	1777	0.99	(**)	12.27	F08	2	266
128.69	1633	1.84	20.0	106.63	1970	1.52	20.0	13.60	F08	2	266
107.95	1946	1.54	20.0	89.44	2349	1.28	20.0	16.21	F08	2	266
93.13	2256	1.33	20.0	77.16	2723	1.10	20.0	18.79	F08	2	266
79.25	2651	1.13	20.0	65.67	3199	0.94	(**)	22.08	F08	2	266
67.43	3116	0.96	(**)	55.87	3760	0.80	(**)	25.95	F08	2	266
272.49	771	3.47	29.0	225.78	931	2.88	29.0	6.42	F09	2	313
222.35	945	2.83	29.0	184.24	1140	2.35	29.0	7.87	F09	2	313
188.02	1117	2.39	29.0	155.79	1349	1.98	29.0	9.31	F09	2	313
165.20	1272	3.54	29.0	136.88	1535	2.93	29.0	10.59	F09	2	313
162.39	1294	2.07	29.0	134.55	1561	1.71	29.0	10.78	F09	2	313
138.97	1512	1.77	29.0	115.15	1825	1.47	29.0	12.59	F09	2	313
134.04	1567	2.87	29.0	111.06	1892	2.38	29.0	13.06	F09	2	313
124.52	1687	1.00	(**)	103.17	2036	0.83	(**)	14.05	F09	2	313
120.07	1750	1.53	29.0	99.49	2112	1.27	29.0	14.57	F09	2	313
109.38	1921	2.34	29.0	90.63	2318	1.94	29.0	16.00	F09	2	313
92.49	2272	1.98	29.0	76.63	2742	1.64	29.0	18.92	F09	2	313
79.88	2630	1.71	29.0	66.19	3174	1.42	29.0	21.91	F09	2	313
68.36	3073	1.46	29.0	56.64	3709	1.21	29.0	25.60	F09	2	313

PN = 22.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
61.25	3430	1.31	29.0	50.75	4140	1.09	29.0	28.57	F09	2	313
59.06	3557	0.96	(**)	48.94	4293	0.80	(**)	29.63	F09	2	313
65.59	3203	1.40	29.0	54.35	3866	1.16	29.0	26.68	F09	3	328
51.28	4097	1.10	(**)	42.49	4945	0.91	(**)	34.12	F09	3	328
41.70	5039	0.89	(**)	34.55	6081	0.74	(**)	41.97	F09	3	328
139.91	1502	3.61	48.4	115.92	1812	2.99	50.7	12.51	F10	2	403
122.21	1719	3.11	50.0	101.26	2075	2.58	52.3	14.32	F10	2	403
105.24	1996	2.71	51.9	87.20	2409	2.25	53.0	16.63	F10	2	403
101.46	2071	3.86	52.8	84.07	2499	3.20	53.0	17.25	F10	2	403
94.01	2235	1.00	(**)	77.89	2697	0.83	(**)	18.62	F10	2	403
90.65	2318	1.82	53.0	75.11	2797	1.50	53.0	19.30	F10	2	403
83.91	2504	3.19	53.0	69.52	3022	2.65	53.0	20.86	F10	2	403
72.48	2899	2.76	53.0	60.05	3499	2.29	53.0	24.14	F10	2	403
63.31	3319	2.41	53.0	52.46	4005	2.00	53.0	27.64	F10	2	403
54.52	3854	2.08	53.0	45.17	4651	1.72	53.0	32.10	F10	2	403
48.70	4314	1.00	(**)	40.35	5207	0.83	(**)	35.93	F10	2	403
46.96	4474	1.79	53.0	38.91	5399	1.48	53.0	37.26	F10	2	403
65.24	3221	2.48	53.0	54.05	3887	2.06	53.0	26.83	F10	3	429
52.08	4034	1.98	53.0	43.15	4869	1.64	53.0	33.60	F10	3	429
42.26	4972	1.61	53.0	35.01	6000	1.33	53.0	41.41	F10	3	429
34.48	6093	1.31	53.0	28.57	7354	1.09	53.0	50.75	F10	3	429
32.43	6478	1.23	53.0	26.87	7818	1.02	(**)	53.96	F10	3	429
29.16	7206	1.11	53.0	24.16	8696	0.92	(**)	60.02	F10	3	429
25.89	8114	0.99	(**)	21.45	9793	0.82	(**)	67.59	F10	3	429
25.18	8343	0.96	(**)	20.87	10069	0.79	(**)	69.49	F10	3	429
122.46	1716	3.51	75.1	101.47	2071	2.91	78.9	14.29	F12	2	532
105.92	1984	3.05	78.0	87.76	2394	2.53	81.9	16.52	F12	2	532
58.76	3576	3.51	85.0	48.68	4316	2.91	85.0	29.78	F12	2	532
50.82	4134	3.05	85.0	42.11	4989	2.53	85.0	34.43	F12	2	532
53.06	3960	3.28	85.0	43.97	4779	2.72	85.0	32.98	F12	3	572
43.62	4817	2.70	85.0	36.14	5814	2.24	85.0	40.12	F12	3	572
35.89	5854	2.22	85.0	29.74	7065	1.84	85.0	48.76	F12	3	572
29.68	7078	1.84	85.0	24.59	8543	1.52	85.0	58.96	F12	3	572
29.05	7232	1.80	85.0	24.07	8728	1.49	85.0	60.24	F12	3	572
25.64	8195	1.59	85.0	21.24	9890	1.31	85.0	68.26	F12	3	572
23.88	8798	1.48	85.0	19.79	10618	1.22	85.0	73.28	F12	3	572
22.40	9381	1.39	85.0	18.56	11322	1.15	85.0	78.14	F12	3	572
19.65	10692	1.22	85.0	16.28	12904	1.01	(**)	89.06	F12	3	572
19.29	10894	1.19	85.0	15.98	13148	0.99	(**)	90.74	F12	3	572
17.23	12195	1.00	(**)	14.27	14719	0.83	(**)	101.58	F12	3	572
16.61	12647	1.03	(**)	13.76	15264	0.85	(**)	105.34	F12	3	572
16.25	12929	1.01	(**)	13.46	15604	0.83	(**)	107.69	F12	3	572
14.04	14967	0.87	(**)	11.63	18064	0.72	(**)	124.67	F12	3	572
100.89	2083	3.51	101.0	83.59	2513	2.91	101.0	17.35	F15	2	762
47.90	4386	3.51	101.0	39.69	5294	2.91	101.0	36.54	F15	2	762
37.27	5637	3.19	101.0	30.88	6804	2.65	101.0	46.96	F15	3	792
31.08	6760	2.66	101.0	25.75	8159	2.21	101.0	56.31	F15	3	792
25.79	8147	2.21	101.0	21.37	9833	1.83	101.0	67.86	F15	3	792
21.46	9792	1.84	101.0	17.78	11818	1.52	101.0	81.56	F15	3	792

PN = 22.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
20.73	10135	1.78	101.0	17.18	12232	1.47	101.0	84.42	F15	3	792
18.43	11401	1.58	101.0	15.27	13760	1.31	101.0	94.97	F15	3	792
17.29	12153	1.48	101.0	14.32	14667	1.23	101.0	101.23	F15	3	792
16.25	12926	1.39	101.0	13.47	15600	1.15	101.0	107.66	F15	3	792
14.34	14647	1.23	101.0	11.89	17677	1.02	(**)	122.00	F15	3	792
14.06	14944	1.20	101.0	11.65	18035	1.00	(**)	124.47	F15	3	792
12.11	17350	1.04	(**)	10.03	20940	0.86	(**)	144.52	F15	3	792
11.93	17604	1.02	(**)	9.89	21246	0.85	(**)	146.63	F15	3	792
10.25	20497	0.88	(**)	8.49	24738	0.73	(**)	170.73	F15	3	792

Note: (**) Upon request.

PN = 30.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
428.27	669	2.63	20.0	354.85	807	2.18	20.0	4.09	F08	2	305
334.85	856	2.06	20.0	277.45	1033	1.71	20.0	5.23	F08	2	305
272.27	1052	1.67	20.0	225.59	1270	1.39	20.0	6.43	F08	2	305
228.39	1254	1.40	20.0	189.24	1514	1.16	20.0	7.66	F08	2	305
202.42	1415	2.12	20.0	167.72	1708	1.76	20.0	8.65	F08	2	305
197.04	1454	1.21	20.0	163.26	1755	1.00	(**)	8.88	F08	2	305
158.27	1810	1.66	20.0	131.14	2185	1.37	20.0	11.06	F08	2	305
128.69	2226	1.35	20.0	106.63	2687	1.12	20.0	13.60	F08	2	305
107.95	2654	1.13	20.0	89.44	3203	0.94	(**)	16.21	F08	2	305
93.13	3076	0.98	(**)	77.16	3713	0.81	(**)	18.79	F08	2	305
420.67	681	3.93	25.7	348.55	822	3.26	26.9	4.16	F09	2	352
335.85	853	3.14	27.1	278.27	1030	2.60	28.3	5.21	F09	2	352
272.49	1051	2.55	28.4	225.78	1269	2.11	29.0	6.42	F09	2	352
222.35	1288	2.08	29.0	184.24	1555	1.72	29.0	7.87	F09	2	352
206.93	1385	3.25	29.0	171.45	1671	2.69	29.0	8.46	F09	2	352
188.02	1524	1.76	29.0	155.79	1839	1.46	29.0	9.31	F09	2	352
165.20	1734	2.59	29.0	136.88	2093	2.15	29.0	10.59	F09	2	352
162.39	1764	1.52	29.0	134.55	2129	1.26	29.0	10.78	F09	2	352
134.04	2137	2.11	29.0	111.06	2580	1.74	29.0	13.06	F09	2	352
109.38	2619	1.72	29.0	90.63	3161	1.42	29.0	16.00	F09	2	352
92.49	3098	1.45	29.0	76.63	3739	1.20	29.0	18.92	F09	2	352
79.88	3587	1.25	29.0	66.19	4329	1.04	(**)	21.91	F09	2	352
65.59	4368	1.03	(**)	54.35	5272	0.85	(**)	26.68	F09	3	367
195.85	1463	3.70	43.5	162.28	1766	3.07	45.5	8.94	F10	2	442
161.97	1769	3.06	45.5	134.20	2135	2.54	47.6	10.80	F10	2	442
139.91	2048	2.64	47.1	115.92	2471	2.19	49.2	12.51	F10	2	442
123.30	2324	3.44	49.1	102.16	2804	2.85	51.2	14.19	F10	2	442
122.21	2344	2.28	48.6	101.26	2829	1.89	50.6	14.32	F10	2	442
101.46	2824	2.83	51.3	84.07	3408	2.35	53.0	17.25	F10	2	442
83.91	3414	2.34	53.0	69.52	4121	1.94	53.0	20.86	F10	2	442
72.48	3953	2.02	53.0	60.05	4771	1.68	53.0	24.14	F10	2	442
63.31	4525	1.77	53.0	52.46	5461	1.46	53.0	27.64	F10	2	442
65.24	4392	1.82	53.0	54.05	5300	1.51	53.0	26.83	F10	3	468
52.08	5501	1.45	53.0	43.15	6639	1.21	53.0	33.60	F10	3	468
42.26	6780	1.18	53.0	35.01	8182	0.98	(**)	41.41	F10	3	468
34.48	8309	0.96	(**)	28.57	10028	0.80	(**)	50.75	F10	3	468
32.43	8834	0.91	(**)	26.87	10661	0.75	(**)	53.96	F10	3	468

PN = 30.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
138.83	2064	3.55	71.5	115.03	2491	2.94	74.9	12.61	F12	2	571
122.46	2340	2.57	73.8	101.47	2824	2.13	77.3	14.29	F12	2	571
77.56	3694	3.52	83.5	64.26	4458	2.92	85.0	22.56	F12	2	571
66.61	4301	3.02	85.0	55.19	5191	2.50	85.0	26.27	F12	2	571
58.76	4876	2.57	85.0	48.68	5885	2.13	85.0	29.78	F12	2	571
73.22	3913	3.32	84.7	60.67	4723	2.75	85.0	23.90	F12	3	611
62.50	4584	2.84	85.0	51.78	5533	2.35	85.0	28.00	F12	3	611
53.06	5399	2.41	85.0	43.97	6517	1.99	85.0	32.98	F12	3	611
43.62	6569	1.98	85.0	36.14	7928	1.64	85.0	40.12	F12	3	611
40.09	7147	1.82	85.0	33.22	8626	1.51	85.0	43.65	F12	3	611
35.89	7982	1.63	85.0	29.74	9634	1.35	85.0	48.76	F12	3	611
34.22	8373	1.55	85.0	28.35	10105	1.29	85.0	51.14	F12	3	611
29.68	9652	1.35	85.0	24.59	11650	1.12	85.0	58.96	F12	3	611
29.05	9862	1.32	85.0	24.07	11902	1.09	85.0	60.24	F12	3	611
25.64	11174	1.16	85.0	21.24	13486	0.96	(**)	68.26	F12	3	611
23.88	11997	1.08	85.0	19.79	14480	0.90	(**)	73.28	F12	3	611
22.40	12792	1.02	(**)	18.56	15439	0.84	(**)	78.14	F12	3	611
19.65	14580	0.89	(**)	16.28	17596	0.74	(**)	89.06	F12	3	611
100.89	2840	2.58	101.0	83.59	3427	2.14	101.0	17.35	F15	2	801
62.84	4559	3.95	101.0	52.07	5503	3.27	101.0	27.85	F15	2	801
47.90	5981	2.58	101.0	39.69	7219	2.14	101.0	36.54	F15	2	801
50.10	5718	3.15	101.0	41.51	6901	2.61	101.0	34.93	F15	3	831
43.36	6607	2.72	101.0	35.93	7975	2.26	101.0	40.36	F15	3	831
37.27	7687	2.34	101.0	30.88	9278	1.94	101.0	46.96	F15	3	831
31.08	9218	1.95	101.0	25.75	11125	1.62	101.0	56.31	F15	3	831
27.87	10280	1.75	101.0	23.09	12407	1.45	101.0	62.79	F15	3	831
25.79	11110	1.62	101.0	21.37	13408	1.34	101.0	67.86	F15	3	831
24.12	11879	1.52	101.0	19.98	14337	1.26	101.0	72.56	F15	3	831
21.46	13353	1.35	101.0	17.78	16115	1.12	101.0	81.56	F15	3	831
20.73	13820	1.30	101.0	17.18	16680	1.08	101.0	84.42	F15	3	831
18.43	15547	1.16	101.0	15.27	18764	0.96	(**)	94.97	F15	3	831
17.29	16572	1.09	101.0	14.32	20001	0.90	(**)	101.23	F15	3	831
16.25	17626	1.02	(**)	13.47	21272	0.85	(**)	107.66	F15	3	831
14.34	19973	0.90	(**)	11.89	24105	0.75	(**)	122.00	F15	3	831

Note: (**) Upon request.

PN = 37.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
428.27	825	2.14	20.0	354.85	996	1.77	20.0	4.09	F08	2	333
334.85	1055	1.67	20.0	277.45	1274	1.38	20.0	5.23	F08	2	333
272.27	1298	1.36	20.0	225.59	1566	1.13	20.0	6.43	F08	2	333
228.39	1547	1.14	20.0	189.24	1867	0.94	(**)	7.66	F08	2	333
202.42	1746	1.72	20.0	167.72	2107	1.42	20.0	8.65	F08	2	333
197.04	1793	0.98	(**)	163.26	2164	0.81	(**)	8.88	F08	2	333
158.27	2233	1.34	20.0	131.14	2695	1.11	20.0	11.06	F08	2	333
128.69	2746	1.09	(**)	106.63	3314	0.91	(**)	13.60	F08	2	333
107.95	3273	0.92	(**)	89.44	3950	0.76	(**)	16.21	F08	2	333
420.67	840	3.19	25.2	348.55	1014	2.64	26.3	4.16	F09	2	380
335.85	1052	2.54	26.5	278.27	1270	2.11	27.6	5.21	F09	2	380
272.49	1297	2.06	27.7	225.78	1565	1.71	28.7	6.42	F09	2	380
222.35	1589	1.68	28.7	184.24	1918	1.40	29.0	7.87	F09	2	380
206.93	1708	2.64	29.0	171.45	2061	2.18	29.0	8.46	F09	2	380

PN = 37.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
188.02	1879	1.42	29.0	155.79	2268	1.18	29.0	9.31	F09	2	380
165.20	2139	2.10	29.0	136.88	2581	1.74	29.0	10.59	F09	2	380
162.39	2176	1.23	29.0	134.55	2626	1.02	(**)	10.78	F09	2	380
134.04	2636	1.71	29.0	111.06	3182	1.41	29.0	13.06	F09	2	380
109.38	3231	1.39	29.0	90.63	3899	1.15	29.0	16.00	F09	2	380
92.49	3821	1.18	29.0	76.63	4611	0.98	(**)	18.92	F09	2	380
79.88	4423	1.02	(**)	66.19	5339	0.84	(**)	21.91	F09	2	380
238.01	1485	3.65	40.8	197.20	1792	3.02	42.6	7.35	F10	2	470
195.85	1804	3.00	42.7	162.28	2177	2.49	44.6	8.94	F10	2	470
176.67	2000	4.00	44.2	146.39	2414	3.31	46.2	9.91	F10	2	470
161.97	2182	2.48	44.6	134.20	2633	2.06	46.4	10.80	F10	2	470
150.00	2356	3.40	45.9	124.29	2843	2.81	47.8	11.67	F10	2	470
139.91	2526	2.14	46.0	115.92	3048	1.78	47.8	12.51	F10	2	470
123.30	2866	2.79	47.9	102.16	3459	2.31	49.8	14.19	F10	2	470
122.21	2891	1.85	47.3	101.26	3490	1.53	49.1	14.32	F10	2	470
101.46	3483	2.30	49.9	84.07	4203	1.90	51.7	17.25	F10	2	470
83.91	4211	1.90	51.7	69.52	5082	1.57	53.0	20.86	F10	2	470
72.48	4875	1.64	53.0	60.05	5884	1.36	53.0	24.14	F10	2	470
63.31	5581	1.43	53.0	52.46	6736	1.19	53.0	27.64	F10	2	470
65.24	5416	1.48	53.0	54.05	6537	1.22	53.0	26.83	F10	3	496
52.08	6784	1.18	53.0	43.15	8188	0.98	(**)	33.60	F10	3	496
42.26	8362	0.96	(**)	35.01	10092	0.79	(**)	41.41	F10	3	496
161.64	2186	3.30	67.8	133.93	2638	2.73	71.0	10.83	F12	2	599
138.83	2545	2.88	70.4	115.03	3072	2.38	73.7	12.61	F12	2	599
122.46	2885	2.09	72.6	101.47	3482	1.73	75.9	14.29	F12	2	599
93.22	3791	3.43	78.5	77.24	4575	2.84	82.0	18.77	F12	2	599
77.56	4556	2.85	81.9	64.26	5499	2.36	85.0	22.56	F12	2	599
66.61	5305	2.45	84.8	55.19	6402	2.03	85.0	26.27	F12	2	599
58.76	6014	2.09	85.0	48.68	7258	1.73	85.0	29.78	F12	2	599
73.22	4826	2.69	83.0	60.67	5824	2.23	85.0	23.90	F12	3	639
62.50	5654	2.30	85.0	51.78	6824	1.91	85.0	28.00	F12	3	639
53.06	6659	1.95	85.0	43.97	8037	1.62	85.0	32.98	F12	3	639
43.62	8101	1.60	85.0	36.14	9777	1.33	85.0	40.12	F12	3	639
40.09	8815	1.47	85.0	33.22	10638	1.22	85.0	43.65	F12	3	639
35.89	9845	1.32	85.0	29.74	11882	1.09	(**)	48.76	F12	3	639
34.22	10327	1.26	85.0	28.35	12463	1.04	(**)	51.14	F12	3	639
29.68	11905	1.09	84.0	24.59	14368	0.90	(**)	58.96	F12	3	639
29.05	12163	1.07	84.0	24.07	14679	0.89	(**)	60.24	F12	3	639
25.64	13782	0.94	(**)	21.24	16633	0.78	(**)	68.26	F12	3	639
23.88	14797	0.88	(**)	19.79	17858	0.73	(**)	73.28	F12	3	639
132.36	2670	3.67	100.5	109.67	3222	3.04	101.0	13.22	F15	2	829
100.89	3502	2.09	101.0	83.59	4227	1.73	101.0	17.35	F15	2	829
74.84	4721	3.81	101.0	62.01	5698	3.16	101.0	23.38	F15	2	829
62.84	5623	3.20	101.0	52.07	6786	2.65	101.0	27.85	F15	2	829
47.90	7377	2.09	101.0	39.69	8903	1.73	101.0	36.54	F15	2	829
50.10	7052	2.55	101.0	41.51	8511	2.11	101.0	34.93	F15	3	859
43.36	8149	2.21	101.0	35.93	9835	1.83	101.0	40.36	F15	3	859
37.27	9481	1.90	101.0	30.88	11443	1.57	101.0	46.96	F15	3	859
31.08	11369	1.58	101.0	25.75	13721	1.31	101.0	56.31	F15	3	859
27.87	12679	1.42	101.0	23.09	15302	1.18	101.0	62.79	F15	3	859

PN = 37.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
25.79	13702	1.31	101.0	21.37	16537	1.09	101.0	67.86	F15	3	859
24.12	14651	1.23	101.0	19.98	17682	1.02	(**)	72.56	F15	3	859
21.46	16468	1.09	101.0	17.78	19876	0.91	(**)	81.56	F15	3	859
20.73	17045	1.06	(**)	17.18	20572	0.87	(**)	84.42	F15	3	859
18.43	19175	0.94	(**)	15.27	23142	0.78	(**)	94.97	F15	3	859
17.29	20439	0.88	(**)	14.32	24668	0.73	(**)	101.23	F15	3	859

Note: (**) Upon request.

PN = 45.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
428.27	1003	1.76	20.0	354.85	1211	1.46	20.0	4.09	F08	2	500
334.85	1283	1.37	20.0	277.45	1549	1.14	20.0	5.23	F08	2	500
272.27	1578	1.12	20.0	225.59	1905	0.93	(**)	6.43	F08	2	500
228.39	1882	0.94	(**)	189.24	2271	0.78	(**)	7.66	F08	2	500
202.42	2123	1.41	20.0	167.72	2562	1.17	20.0	8.65	F08	2	500
158.27	2715	1.10	20.0	131.14	3277	0.92	(**)	11.06	F08	2	500
128.69	3340	0.90	(**)	106.63	4030	0.74	(**)	13.60	F08	2	500
420.67	1022	2.62	24.7	348.55	1233	2.17	25.6	4.16	F09	2	547
335.85	1280	2.09	25.8	278.27	1544	1.73	26.7	5.21	F09	2	547
272.49	1577	1.70	26.8	225.78	1903	1.41	27.6	6.42	F09	2	547
222.35	1933	1.38	27.6	184.24	2333	1.15	28.3	7.87	F09	2	547
206.93	2077	2.17	28.7	171.45	2507	1.80	29.0	8.46	F09	2	547
188.02	2286	1.17	28.3	155.79	2759	0.97	(**)	9.31	F09	2	547
165.20	2601	1.73	29.0	136.88	3140	1.43	29.0	10.59	F09	2	547
162.39	2646	1.01	(**)	134.55	3194	0.84	(**)	10.78	F09	2	547
134.04	3206	1.40	29.0	111.06	3870	1.16	29.0	13.06	F09	2	547
109.38	3929	1.15	29.0	90.63	4742	0.95	(**)	16.00	F09	2	547
92.49	4647	0.97	(**)	76.63	5608	0.80	(**)	18.92	F09	2	547
289.55	1484	3.65	38.3	239.91	1791	3.02	40.0	6.04	F10	2	637
238.01	1806	3.00	40.0	197.20	2179	2.49	41.7	7.35	F10	2	637
206.98	2076	3.85	41.8	171.50	2506	3.19	43.6	8.45	F10	2	637
195.85	2194	2.47	41.8	162.28	2648	2.04	43.5	8.94	F10	2	637
176.67	2432	3.29	43.3	146.39	2936	2.73	45.1	9.91	F10	2	637
161.97	2653	2.04	43.5	134.20	3202	1.69	45.1	10.80	F10	2	637
150.00	2865	2.79	44.9	124.29	3458	2.31	46.6	11.67	F10	2	637
139.91	3072	1.76	44.8	115.92	3707	1.46	46.3	12.51	F10	2	637
123.30	3485	2.30	46.6	102.16	4207	1.90	48.3	14.19	F10	2	637
122.21	3516	1.52	45.9	101.26	4244	1.26	47.3	14.32	F10	2	637
101.46	4236	1.89	48.3	84.07	5112	1.56	49.8	17.25	F10	2	637
83.91	5122	1.56	49.8	69.52	6181	1.29	51.1	20.86	F10	2	637
72.48	5929	1.35	50.9	60.05	7156	1.12	52.0	24.14	F10	2	637
63.31	6788	1.18	51.7	52.46	8192	0.98	(**)	27.64	F10	2	637
65.24	6587	1.21	51.5	54.05	7950	1.01	(**)	26.83	F10	3	663
52.08	8251	0.97	(**)	43.15	9958	0.80	(**)	33.60	F10	3	663
194.28	2212	3.69	63.8	160.98	2670	3.06	66.8	9.01	F12	2	766
161.64	2659	2.71	66.8	133.93	3209	2.25	69.8	10.83	F12	2	766
138.83	3096	2.36	69.2	115.03	3736	1.96	72.2	12.61	F12	2	766
122.46	3509	1.71	71.2	101.47	4235	1.42	74.2	14.29	F12	2	766
112.35	3825	3.40	73.8	93.09	4617	2.82	77.0	15.58	F12	2	766
93.22	4610	2.82	77.0	77.24	5564	2.34	80.2	18.77	F12	2	766
77.56	5541	2.35	80.1	64.26	6688	1.94	83.2	22.56	F12	2	766

PN = 45.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
66.61	6452	2.01	82.6	55.19	7787	1.67	85.0	26.27	F12	2	766
58.76	7314	1.71	84.6	48.68	8828	1.42	85.0	29.78	F12	2	766
73.22	5869	2.21	81.0	60.67	7084	1.84	84.1	23.90	F12	3	806
62.50	6876	1.89	83.6	51.78	8299	1.57	85.0	28.00	F12	3	806
53.06	8099	1.61	85.0	43.97	9775	1.33	85.0	32.98	F12	3	806
43.62	9853	1.32	85.0	36.14	11892	1.09	84.0	40.12	F12	3	806
40.09	10720	1.21	85.0	33.22	12938	1.00	(**)	43.65	F12	3	806
35.89	11974	1.09	84.0	29.74	14451	0.90	(**)	48.76	F12	3	806
34.22	12560	1.04	(**)	28.35	15158	0.86	(**)	51.14	F12	3	806
29.68	14479	0.90	(**)	24.59	17474	0.74	(**)	58.96	F12	3	806
29.05	14793	0.88	(**)	24.07	17853	0.73	(**)	60.24	F12	3	806
132.36	3247	3.02	99.4	109.67	3919	2.50	101.0	13.22	F15	2	996
100.89	4260	1.72	101.0	83.59	5141	1.42	101.0	17.35	F15	2	996
90.95	4725	3.81	101.0	75.36	5703	3.16	101.0	19.24	F15	2	996
74.84	5742	3.13	101.0	62.01	6930	2.60	101.0	23.38	F15	2	996
62.84	6839	2.63	101.0	52.07	8254	2.18	101.0	27.85	F15	2	996
47.90	8972	1.72	101.0	39.69	10828	1.42	101.0	36.54	F15	2	996
50.10	8577	2.10	101.0	41.51	10352	1.74	101.0	34.93	F15	3	1026
43.36	9911	1.82	101.0	35.93	11962	1.50	101.0	40.36	F15	3	1026
37.27	11531	1.56	101.0	30.88	13917	1.29	101.0	46.96	F15	3	1026
31.08	13827	1.30	101.0	25.75	16688	1.08	100.0	56.31	F15	3	1026
27.87	15420	1.17	101.0	23.09	18610	0.97	(**)	62.79	F15	3	1026
25.79	16664	1.08	100.0	21.37	20112	0.89	(**)	67.86	F15	3	1026
24.12	17818	1.01	(**)	19.98	21505	0.84	(**)	72.56	F15	3	1026
21.46	20029	0.90	(**)	17.78	24173	0.74	(**)	81.56	F15	3	1026
20.73	20731	0.87	(**)	17.18	25020	0.72	(**)	84.42	F15	3	1026

Note: (**) Upon request.

PN = 55.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
428.27	1226	1.44	20.0	354.85	1480	1.19	20.0	4.09	F08	2	500
334.85	1569	1.12	20.0	277.45	1893	0.93	(**)	5.23	F08	2	500
272.27	1929	0.91	(**)	225.59	2328	0.76	(**)	6.43	F08	2	500
202.42	2595	1.16	20.0	167.72	3132	0.96	(**)	8.65	F08	2	500
158.27	3319	0.90	(**)	131.14	4005	0.75	(**)	11.06	F08	2	500
420.67	1249	2.14	23.9	348.55	1507	1.78	24.7	4.16	F09	2	547
335.85	1564	1.71	24.9	278.27	1888	1.42	25.6	5.21	F09	2	547
272.49	1928	1.39	25.7	225.78	2326	1.15	26.2	6.42	F09	2	547
222.35	2362	1.13	26.3	184.24	2851	0.94	(**)	7.87	F09	2	547
206.93	2538	1.77	27.4	171.45	3064	1.47	27.9	8.46	F09	2	547
188.02	2794	0.96	(**)	155.79	3372	0.79	(**)	9.31	F09	2	547
165.20	3179	1.42	28.0	136.88	3837	1.17	28.3	10.59	F09	2	547
134.04	3919	1.15	28.3	111.06	4729	0.95	(**)	13.06	F09	2	547
109.38	4802	0.94	(**)	90.63	5796	0.78	(**)	16.00	F09	2	547
341.03	1540	3.52	36.1	282.57	1859	2.91	37.7	5.13	F10	2	637
289.55	1814	2.99	37.5	239.91	2189	2.47	39.0	6.04	F10	2	637
238.01	2207	2.45	39.1	197.20	2663	2.03	40.6	7.35	F10	2	637
206.98	2538	3.15	40.9	171.50	3063	2.61	42.4	8.45	F10	2	637
195.85	2682	2.02	40.7	162.28	3237	1.67	42.1	8.94	F10	2	637
176.67	2973	2.69	42.2	146.39	3588	2.23	43.7	9.91	F10	2	637
161.97	3243	1.67	42.1	134.20	3914	1.38	43.4	10.80	F10	2	637
150.00	3502	2.28	43.5	124.29	4226	1.89	45.0	11.67	F10	2	637

PN = 55.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
139.91	3754	1.44	43.2	115.92	4531	1.20	44.4	12.51	F10	2	637
123.30	4260	1.88	44.0	102.16	5141	1.56	45.1	14.19	F10	2	637
122.21	4298	1.24	44.1	101.26	5187	1.03	(**)	14.32	F10	2	637
101.46	5177	1.55	46.4	84.07	6248	1.28	47.5	17.25	F10	2	637
83.91	6260	1.28	47.5	69.52	7555	1.06	(**)	20.86	F10	2	637
72.48	7247	1.10	48.1	60.05	8746	0.91	(**)	24.14	F10	2	637
63.31	8296	0.96	(**)	52.46	10013	0.80	(**)	27.64	F10	2	637
65.24	8051	0.99	(**)	54.05	9717	0.82	(**)	26.83	F10	3	663
234.15	2243	3.61	60.0	194.01	2707	2.99	62.8	7.47	F12	2	766
194.28	2704	3.02	62.8	160.98	3263	2.50	65.6	9.01	F12	2	766
161.64	3249	2.22	65.5	133.93	3922	1.84	68.2	10.83	F12	2	766
156.73	3351	3.88	67.0	129.86	4045	3.21	69.9	11.17	F12	2	766
138.83	3783	1.93	67.7	115.03	4566	1.60	70.4	12.61	F12	2	766
134.71	3899	3.33	69.3	111.62	4706	2.76	72.3	12.99	F12	2	766
122.46	4289	1.40	69.5	101.47	5177	1.16	72.2	14.29	F12	2	766
112.35	4675	2.78	72.2	93.09	5643	2.30	75.1	15.58	F12	2	766
93.22	5635	2.31	75.1	77.24	6800	1.91	77.9	18.77	F12	2	766
77.56	6772	1.92	77.8	64.26	8174	1.59	80.4	22.56	F12	2	766
66.61	7885	1.65	79.9	55.19	9517	1.37	82.4	26.27	F12	2	766
58.76	8940	1.40	81.6	48.68	10789	1.16	83.9	29.78	F12	2	766
73.22	7174	1.81	78.6	60.67	8658	1.50	81.2	23.90	F12	3	806
62.50	8404	1.55	80.8	51.78	10143	1.28	83.2	28.00	F12	3	806
53.06	9899	1.31	82.9	43.97	11947	1.09	81.0	32.98	F12	3	806
43.62	12043	1.08	81.0	36.14	14534	0.89	(**)	40.12	F12	3	806
40.09	13103	0.99	(**)	33.22	15814	0.82	(**)	43.65	F12	3	806
35.89	14635	0.89	(**)	29.74	17662	0.74	(**)	48.76	F12	3	806
157.64	3332	3.31	93.9	130.61	4021	2.74	98.4	11.10	F15	2	996
132.36	3968	2.47	98.0	109.67	4790	2.05	101.0	13.22	F15	2	996
106.90	4913	3.66	101.0	88.58	5930	3.04	101.0	16.37	F15	2	996
100.89	5206	1.41	101.0	83.59	6283	1.16	101.0	17.35	F15	2	996
90.95	5775	3.12	101.0	75.36	6970	2.58	101.0	19.24	F15	2	996
74.84	7018	2.56	101.0	62.01	8470	2.13	101.0	23.38	F15	2	996
62.84	8359	2.15	101.0	52.07	10088	1.78	101.0	27.85	F15	2	996
47.90	10966	1.41	101.0	39.69	13235	1.16	101.0	36.54	F15	2	996
50.10	10483	1.72	101.0	41.51	12652	1.42	101.0	34.93	F15	3	1026
43.36	12114	1.49	101.0	35.93	14620	1.23	101.0	40.36	F15	3	1026
37.27	14094	1.28	101.0	30.88	17009	1.06	100.0	46.96	F15	3	1026
31.08	16900	1.07	100.0	25.75	20396	0.88	(**)	56.31	F15	3	1026
27.87	18847	0.96	(**)	23.09	22746	0.79	(**)	62.79	F15	3	1026
25.79	20367	0.88	(**)	21.37	24581	0.73	(**)	67.86	F15	3	1026

Note: (**) Upon request.

6 SELECTION TABLES - GEARBOXES

Structured Selection Tables

Size	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	n1 1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
1	2	3	4	5	6	7	8	9											

1. Size of the gearbox.
2. Stages of the reducer.
3. Exact gear ratio of the reducer.
4. Permissible output torque for operating mode S1 (Fs = 1.0).
5. Permissible input power for operating mode S1 (Fs = 1.0).
6. Output speed with n1 = 1750 rpm.
7. Weight of the gearbox (without motor).
8. Maximum input speed.
9. Applicable motor frame size.

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
F02	2	3.93	72	3.35	445.5	5	1800	●	●	●	●								
F02	2	5.35	84	2.86	326.9	5	1800	●	●	●	●								
F02	2	7.11	84	2.16	246.1	5	1800	●	●	●	●								
F02	2	9.52	84	1.61	183.8	5	1800	●	●	●	●								
F02	2	10.89	130	2.19	160.8	5	1800	●	●	●	●								
F02	2	12.09	130	1.97	144.7	5	1800	●	●	●	●								
F02	2	14.84	130	1.606	118.0	5	1800	●	●	●	●								
F02	2	15.82	84	0.969	110.6	5	1800	●	●	●	●								
F02	2	16.48	130	1.446	106.2	5	1800	●	●	●	●								
F02	2	19.70	130	1.209	88.8	5	1800	●	●	●	●								
F02	2	21.89	130	1.088	80.0	5	1800	●	●	●	●								
F02	2	26.39	130	0.903	66.3	5	1800	●	●	●	●								
F02	2	29.32	130	0.813	59.7	5	1800	●	●	●	●								
F02	2	33.78	130	0.705	51.8	5	1800	●	●	●	●								

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
F02	2	37.52	130	0.635	46.6	5	1800	●	●	●	●								
F02	2	43.83	130	0.543	39.9	5	1800	●	●	●	●								
F02	2	48.69	130	0.489	35.9	5	1800	●	●	●	●								
F02	2	55.64	130	0.428	31.5	5	1800	●	●	●	●								
F02	2	61.80	130	0.385	28.3	5	1800	●	●	●	●								
F02	2	68.62	130	0.347	25.5	5	1800	●	●	●	●								
F02	2	76.22	130	0.313	23.0	5	1800	●	●	●	●								
F02	2	88.09	130	0.270	19.9	5	1800	●	●										
F02	2	97.85	130	0.243	17.9	5	1800	●	●										
F03	2	3.85	110	5.241	455.0	6	1800			●	●	●							
F03	2	4.93	120	4.463	355.1	6	1800	●	●	●	●	●							
F03	2	6.33	140	4.051	276.3	6	1800	●	●	●	●	●							
F03	2	8.85	180	3.729	197.8	6	1800			●	●	●							
F03	2	9.76	190	3.569	179.4	6	1800			●	●	●							
F03	2	11.33	200	3.234	154.4	6	1800	●	●	●	●	●							

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
F03	2	12.50	200	2.932	140.0	6	1800	●	●	●	●	●							
F03	2	14.57	210	2.642	120.1	6	1800	●	●	●	●	●							
F03	2	16.06	220	2.510	108.9	6	1800	●	●	●	●	●							
F03	2	19.17	220	2.103	91.3	6	1800	●	●	●	●	●							
F03	2	21.14	220	1.907	82.8	6	1800	●	●	●	●	●							
F03	2	25.36	220	1.590	69.0	6	1800	●	●	●	●	●							
F03	2	27.97	220	1.442	62.6	6	1800	●	●	●	●	●							
F03	2	31.76	220	1.269	55.1	6	1800	●	●	●	●	●							
F03	2	35.03	220	1.151	50.0	6	1800	●	●	●	●	●							
F03	2	41.12	220	0.980	42.6	6	1800	●	●	●	●								
F03	2	45.35	220	0.889	38.6	6	1800	●	●	●	●								
F03	2	51.75	220	0.779	33.8	6	1800	●	●	●	●								
F03	2	57.07	220	0.706	30.7	6	1800	●	●	●	●								
F03	2	63.63	220	0.634	27.5	6	1800	●	●	●	●								
F03	2	70.17	220	0.574	24.9	6	1800	●	●	●	●								
F04	2	4.42	210	8.706	395.9	10	1800			●	●	●							
F04	2	5.45	240	8.063	320.9	10	1800			●	●	●							
F04	2	6.52	270	7.594	268.6	10	1800			●	●	●							
F04	2	7.42	320	7.904	235.9	10	1800			●	●	●							
F04	2	8.13	340	7.661	215.2	10	1800			●	●	●							
F04	2	9.15	360	7.207	191.2	10	1800			●	●	●							
F04	2	10.03	380	6.939	174.4	10	1800			●	●	●							
F04	2	10.93	390	6.536	160.0	10	1800			●	●	●							
F04	2	11.99	400	6.115	146.0	10	1800			●	●	●							
F04	2	13.48	400	5.436	129.8	10	1800	●	●	●	●	●							
F04	2	14.78	400	4.958	118.4	10	1800	●	●	●	●	●							
F04	2	16.48	400	4.449	106.2	10	1800	●	●	●	●	●							
F04	2	18.06	400	4.058	96.9	10	1800	●	●	●	●	●							
F04	2	21.81	400	3.361	80.2	10	1800	●	●	●	●	●							
F04	2	23.91	400	3.066	73.2	10	1800	●	●	●	●	●							
F04	2	28.33	400	2.587	61.8	10	1800	●	●	●	●	●							
F04	2	31.06	400	2.360	56.3	10	1800	●	●	●	●	●							
F04	2	34.62	400	2.118	50.6	10	1800	●	●	●	●	●							
F04	2	37.95	400	1.932	46.1	10	1800	●	●	●	●	●							
F04	2	44.64	400	1.642	39.2	10	1800	●	●	●	●								
F04	2	48.94	400	1.498	35.8	10	1800	●	●	●	●								
F04	2	56.54	400	1.296	31.0	10	1800	●	●	●	●								
F04	2	61.98	400	1.183	28.2	10	1800	●	●	●	●								
F04	3	47.68	400	1.537	36.7	10	1800	●	●	●	●								
F04	3	52.27	400	1.402	33.5	10	1800	●	●	●	●								
F04	3	64.98	400	1.128	26.9	10	1800	●	●	●	●								
F04	3	71.24	400	1.029	24.6	10	1800	●	●	●	●								
F04	3	86.31	400	0.849	20.3	10	1800	●	●	●	●								
F04	3	94.61	400	0.775	18.5	10	1800	●	●	●	●								
F04	3	115.60	400	0.634	15.1	10	1800	●	●	●	●								
F04	3	126.72	400	0.578	13.8	10	1800	●	●	●	●								
F04	3	147.96	400	0.495	11.8	10	1800	●	●	●	●								
F04	3	162.19	400	0.452	10.8	10	1800	●	●	●	●								

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
F04	3	192.00	400	0.382	9.1	10	1800	●	●	●	●								
F04	3	210.48	400	0.348	8.3	10	1800	●	●	●	●								
F04	3	243.69	400	0.301	7.2	10	1800	●	●	●	●								
F04	3	267.14	400	0.274	6.6	10	1800	●	●	●	●								
F04	3	300.55	400	0.244	5.8	10	1800	●	●	●	●								
F04	3	329.48	400	0.222	5.3	10	1800	●	●	●	●								
F04	3	385.85	400	0.190	4.5	10	1800	●	●										
F04	3	422.98	400	0.173	4.1	10	1800	●	●										
F05	2	5.17	360	12.768	338.7	14	1800			●	●	●	●	●					
F05	2	6.38	360	10.348	274.5	14	1800			●	●	●	●	●					
F05	2	7.62	360	8.663	229.8	14	1800			●	●	●	●	●					
F05	2	8.57	550	11.764	204.3	14	1800			●	●	●	●	●					
F05	2	9.38	560	10.944	186.6	14	1800			●	●	●	●	●					
F05	2	10.57	580	10.055	165.6	14	1800			●	●	●	●	●					
F05	2	11.57	600	9.503	151.3	14	1800			●	●	●	●	●					
F05	2	12.63	600	8.707	138.6	14	1800			●	●	●	●	●					
F05	2	13.82	600	7.955	126.6	14	1800			●	●	●	●	●					
F05	2	15.57	600	7.061	112.4	14	1800	●	●	●	●	●	●	●					
F05	2	19.03	600	5.779	92.0	14	1800	●	●	●	●	●	●	●					
F05	2	20.83	600	5.280	84.0	14	1800	●	●	●	●	●	●	●					
F05	2	25.18	600	4.366	69.5	14	1800	●	●	●	●	●	●	●					
F05	2	27.56	600	3.989	63.5	14	1800	●	●	●	●	●	●	●					
F05	2	32.72	600	3.361	53.5	14	1800	●	●	●	●	●	●	●					
F05	2	35.81	600	3.071	48.9	14	1800	●	●	●	●	●	●	●					
F05	2	39.97	600	2.751	43.8	14	1800	●	●	●	●	●	●	●					
F05	2	43.75	600	2.513	40.0	14	1800	●	●	●	●	●	●	●					
F05	2	51.55	600	2.133	33.9	14	1800	●	●	●	●								
F05	2	56.42	600	1.949	31.0	14	1800	●	●	●	●								
F05	2	65.29	460	1.291	26.8	14	1800	●	●	●	●								
F05	2	71.46	500	1.282	24.5	14	1800	●	●	●	●								
F05	3	55.06	600	1.997	31.8	14	1800	●	●	●	●								
F05	3	60.26	600	1.825	29.0	14	1800	●	●	●	●								
F05	3	75.04	600	1.465	23.3	14	1800	●	●	●	●								
F05	3	82.13	600	1.339	21.3	14	1800	●	●	●	●								
F05	3	99.66	600	1.103	17.6	14	1800	●	●	●	●								
F05	3	109.08	600	1.008	16.0	14	1800	●	●	●	●								
F05	3	133.49	600	0.824	13.1	14	1800	●	●	●	●								
F05	3	146.10	600	0.753	12.0	14	1800	●	●	●	●								
F05	3	170.85	600	0.644	10.2	14	1800	●	●	●	●								
F05	3	187.00	600	0.588	9.4	14	1800	●	●	●	●								
F05	3	221.71	600	0.496	7.9	14	1800	●	●	●	●								
F05	3	242.67	600	0.453	7.2	14	1800	●	●	●	●								
F05	3	281.41	600	0.391	6.2	14	1800	●	●	●	●								
F05	3	308.00	600	0.357	5.7	14	1800	●	●	●	●								
F05	3	347.07	600	0.317	5.0	14	1800	●	●	●	●								
F05	3	379.87	600	0.289	4.6	14	1800	●	●	●	●								
F05	3	445.56	600	0.247	3.9	14	1800	●	●										
F05	3	487.67	600	0.225	3.6	14	1800	●	●										

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
F06	2	4.41	570	23.660	396.4	30	1800			●	●	●	●	●	●				
F06	2	5.36	570	19.491	326.6	30	1800			●	●	●	●	●	●				
F06	2	6.35	570	16.459	275.8	30	1800			●	●	●	●	●	●				
F06	2	7.32	570	14.264	239.0	30	1800			●	●	●	●	●					
F06	2	8.61	570	12.133	203.3	30	1800			●	●	●	●	●					
F06	2	9.81	820	15.311	178.3	30	1800			●	●	●	●	●	●				
F06	2	10.70	820	14.040	163.5	30	1800			●	●	●	●	●	●				
F06	2	11.91	820	12.614	146.9	30	1800			●	●	●	●	●	●				
F06	2	12.99	820	11.566	134.7	30	1800			●	●	●	●	●	●				
F06	2	14.11	820	10.651	124.1	30	1800			●	●	●	●	●	●				
F06	2	15.38	820	9.767	113.8	30	1800			●	●	●	●	●	●				
F06	2	16.28	820	9.231	107.5	30	1800			●	●	●	●	●					
F06	2	19.14	820	7.852	91.4	30	1800			●	●	●	●	●					
F06	2	23.14	820	6.495	75.6	30	1800			●	●	●	●						
F06	2	25.23	820	5.955	69.4	30	1800			●	●	●	●						
F06	2	29.98	820	5.012	58.4	30	1800			●	●	●							
F06	2	32.69	820	4.596	53.5	30	1800			●	●	●							
F06	2	38.20	820	3.934	45.8	30	1800			●	●	●							
F06	2	41.66	820	3.607	42.0	30	1800			●	●	●							
F06	2	45.55	820	3.299	38.4	30	1800			●	●	●							
F06	2	49.67	820	3.025	35.2	30	1800			●	●	●							
F06	3	40.60	820	3.701	43.1	31	1800			●	●								
F06	3	44.28	820	3.394	39.5	31	1800			●	●								
F06	3	50.10	820	2.999	34.9	31	1800			●	●								
F06	3	54.63	820	2.750	32.0	31	1800			●	●								
F06	3	59.84	820	2.511	29.2	31	1800			●	●								
F06	3	73.80	820	2.036	23.7	31	1800	●	●	●	●								
F06	3	80.48	820	1.867	21.7	31	1800	●	●	●	●								
F06	3	90.17	820	1.666	19.4	31	1800	●	●	●	●								
F06	3	98.34	820	1.528	17.8	31	1800	●	●	●	●								
F06	3	119.35	820	1.259	14.7	31	1800	●	●	●	●								
F06	3	130.15	820	1.154	13.4	31	1800	●	●	●	●								
F06	3	155.05	820	0.969	11.3	31	1800	●	●	●	●								
F06	3	169.09	820	0.889	10.3	31	1800	●	●	●	●								
F06	3	189.44	820	0.793	9.2	31	1800	●	●	●	●								
F06	3	206.59	820	0.727	8.5	31	1800	●	●	●	●								
F06	3	244.32	820	0.615	7.2	31	1800	●	●	●	●								
F06	3	266.44	820	0.564	6.6	31	1800	●	●	●	●								
F06	3	309.42	820	0.486	5.7	31	1800	●	●	●	●								
F06	3	337.44	820	0.445	5.2	31	1800	●	●	●	●								
F06	3	378.37	820	0.397	4.6	31	1800	●	●	●	●								
F06	3	412.64	820	0.364	4.2	31	1800	●	●	●	●								
F07	2	4.29	1080	46.162	408.2	53	1800							●	●				
F07	2	5.23	1110	38.899	334.7	53	1800					●	●	●	●				
F07	2	6.21	1110	32.780	282.0	53	1800					●	●	●	●				
F07	2	7.40	1110	27.498	236.6	53	1800			●	●	●	●	●	●				
F07	2	8.69	1110	23.403	201.3	53	1800			●	●	●	●	●	●				
F07	2	9.32	1500	29.501	187.8	53	1800							●	●				

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
F07	2	10.14	1110	20.051	172.5	53	1800			●	●	●	●	●	●				
F07	2	11.36	1500	24.187	154.0	53	1800					●	●	●	●				
F07	2	11.62	1090	17.188	150.6	53	1800			●	●	●	●	●					
F07	2	13.49	1500	20.382	129.8	53	1800					●	●	●	●				
F07	2	16.08	1500	17.098	108.9	53	1800			●	●	●	●	●	●				
F07	2	18.89	1500	14.552	92.6	53	1800			●	●	●	●	●	●				
F07	2	22.05	1500	12.467	79.4	53	1800			●	●	●	●	●	●				
F07	2	25.25	1500	10.884	69.3	53	1800			●	●	●	●	●					
F07	2	29.38	1500	9.356	59.6	53	1800			●	●	●	●	●					
F07	2	34.74	1500	7.911	50.4	53	1800			●	●	●							
F07	2	39.31	1500	6.992	44.5	53	1800			●	●	●							
F07	2	45.02	1500	6.105	38.9	53	1800			●	●	●							
F07	3	54.16	1500	5.075	32.3	54	1800			●	●	●	●	●					
F07	3	65.88	1500	4.173	26.6	54	1800			●	●	●	●	●					
F07	3	77.53	1500	3.545	22.6	54	1800			●	●	●	●	●					
F07	3	94.52	1500	2.908	18.5	54	1800		●	●	●	●	●	●					
F07	3	114.62	1500	2.398	15.3	54	1800		●	●	●	●	●						
F07	3	150.69	1500	1.824	11.6	54	1800		●	●	●	●							
F07	3	194.58	1500	1.413	9.0	54	1800		●	●	●	●							
F07	3	237.15	1500	1.159	7.4	54	1800		●	●	●	●							
F07	3	305.42	1500	0.900	5.7	54	1800		●	●	●								
F08	2	4.09	1762	79.031	428.3	90	1800								●	●	●	●	
F08	2	5.23	1762	61.792	334.9	90	1800								●	●	●	●	
F08	2	6.43	1762	50.243	272.3	90	1800							●	●	●	●	●	
F08	2	7.66	1762	42.147	228.4	90	1800							●	●	●	●	●	
F08	2	8.65	3000	63.588	202.4	90	1800								●	●	●	●	
F08	2	8.88	1762	36.360	197.0	90	1800							●	●	●	●	●	
F08	2	10.44	1762	30.943	167.7	90	1800						●	●	●	●			
F08	2	11.06	3000	49.718	158.3	90	1800								●	●	●	●	
F08	2	11.83	1419	21.990	148.0	90	1800						●	●	●	●			
F08	2	12.27	1762	26.327	142.7	90	1800				●	●	●	●	●	●			
F08	2	13.60	3000	40.425	128.7	90	1800							●	●	●	●	●	
F08	2	14.18	1762	22.775	123.4	90	1800				●	●	●	●	●				
F08	2	16.01	1647	18.849	109.3	90	1800				●	●	●	●					
F08	2	16.21	3000	33.911	108.0	90	1800							●	●	●	●	●	
F08	2	18.79	3000	29.255	93.1	90	1800							●	●	●	●	●	
F08	2	22.08	3000	24.897	79.3	90	1800						●	●	●	●			
F08	2	25.03	2402	17.592	69.9	90	1800						●	●	●	●			
F08	2	25.95	3000	21.183	67.4	90	1800				●	●	●	●	●	●			
F08	2	30.00	3000	18.325	58.3	90	1800				●	●	●	●	●				
F08	2	33.87	2787	15.079	51.7	90	1800				●	●	●	●					
F08	3	29.53	3000	18.617	59.3	100	1800							●	●	●	●	●	●
F08	3	36.02	3000	15.264	48.6	100	1800							●	●	●	●	●	●
F08	3	42.74	3000	12.863	40.9	100	1800							●	●	●	●	●	●
F08	3	50.95	3000	10.790	34.3	100	1800						●	●	●	●			
F08	3	57.73	3000	9.523	30.3	100	1800						●	●	●	●			
F08	3	58.72	3000	9.362	29.8	100	1800							●	●	●	●	●	
F08	3	59.86	3000	9.183	29.2	100	1800				●	●	●	●	●	●			

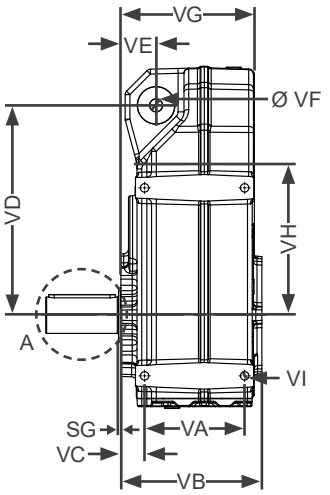
Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
F08	3	69.87	3000	7.868	25.0	100	1800				●	●	●	●	●				
F08	3	71.62	3000	7.675	24.4	100	1800							●	●	●	●	●	
F08	3	80.04	3000	6.868	21.9	100	1800				●	●	●	●					
F08	3	84.99	3000	6.468	20.6	100	1800							●	●	●	●	●	
F08	3	93.11	3000	5.904	18.8	100	1800				●	●	●	●					
F08	3	101.32	3000	5.426	17.3	100	1800						●	●	●	●			
F08	3	110.11	3000	4.993	15.9	100	1800				●	●	●						
F08	3	114.80	3000	4.789	15.2	100	1800						●	●	●	●			
F08	3	119.05	3000	4.618	14.7	100	1800				●	●	●	●	●	●			
F08	3	124.59	3000	4.412	14.0	100	1800				●	●							
F08	3	138.95	3000	3.956	12.6	100	1800				●	●	●	●	●				
F08	3	142.69	3000	3.853	12.3	100	1800				●								
F08	3	159.17	3000	3.454	11.0	100	1800				●	●	●	●					
F08	3	185.17	3000	2.969	9.5	100	1800				●	●	●	●					
F08	3	218.97	3000	2.511	8.0	100	1800				●	●	●						
F08	3	247.77	3000	2.219	7.1	100	1800				●	●							
F08	3	283.76	3000	1.937	6.2	100	1800				●								
F09	2	4.16	2676	117.872	420.7	137	1800									●	●	●	
F09	2	5.21	2676	94.104	335.8	137	1800								●	●	●	●	
F09	2	6.42	2676	76.353	272.5	137	1800								●	●	●	●	
F09	2	7.87	2676	62.304	222.4	137	1800							●	●	●	●	●	
F09	2	8.46	4500	97.504	206.9	137	1800									●	●	●	
F09	2	9.31	2676	52.683	188.0	137	1800							●	●	●	●	●	
F09	2	10.59	4500	77.844	165.2	137	1800								●	●	●	●	
F09	2	10.78	2676	45.503	162.4	137	1800							●	●	●	●	●	
F09	2	12.59	2676	38.940	139.0	137	1800							●	●	●			
F09	2	13.06	4500	63.159	134.0	137	1800								●	●	●	●	
F09	2	14.05	1687	21.990	124.5	137	1800							●	●	●			
F09	2	14.57	2676	33.644	120.1	137	1800							●	●	●			
F09	2	16.00	4500	51.538	109.4	137	1800							●	●	●	●	●	
F09	2	16.79	2676	29.205	104.2	137	1800							●	●				
F09	2	18.92	4500	43.580	92.5	137	1800							●	●	●	●	●	
F09	2	19.01	2128	20.514	92.1	137	1800							●					
F09	2	21.91	4500	37.640	79.9	137	1800							●	●	●	●	●	
F09	2	25.60	4500	32.211	68.4	137	1800							●	●	●			
F09	2	28.57	4500	28.861	61.2	137	1800							●	●	●			
F09	2	29.63	3429	21.204	59.1	137	1800							●	●	●			
F09	2	34.13	4500	24.158	51.3	137	1800							●	●				
F09	2	38.65	4326	20.514	45.3	137	1800							●					
F09	3	26.68	4500	30.906	65.6	152	1800								●	●	●	●	
F09	3	34.12	4500	24.164	51.3	152	1800								●	●	●	●	
F09	3	41.97	4500	19.648	41.7	152	1800							●	●	●	●	●	
F09	3	50.03	4500	16.482	35.0	152	1800							●	●	●	●	●	
F09	3	53.89	4500	15.303	32.5	152	1800								●	●	●	●	
F09	3	57.99	4500	14.219	30.2	152	1800							●	●	●	●	●	
F09	3	68.15	4500	12.101	25.7	152	1800						●	●	●	●			
F09	3	68.92	4500	11.965	25.4	152	1800								●	●	●	●	
F09	3	77.23	4500	10.677	22.7	152	1800						●	●	●	●			

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
F09	3	80.09	4500	10.295	21.8	152	1800					●	●	●	●	●			
F09	3	84.76	4500	9.728	20.6	152	1800							●	●	●	●	●	
F09	3	92.59	4500	8.906	18.9	152	1800					●	●	●	●				
F09	3	101.04	4500	8.161	17.3	152	1800							●	●	●	●	●	
F09	3	104.54	4500	7.888	16.7	152	1800					●	●	●					
F09	3	117.13	4500	7.040	14.9	152	1800							●	●	●	●	●	
F09	3	120.77	4500	6.828	14.5	152	1800					●	●	●					
F09	3	137.63	4500	5.991	12.7	152	1800						●	●	●	●			
F09	3	142.85	4500	5.773	12.3	152	1800					●	●						
F09	3	155.99	4500	5.286	11.2	152	1800						●	●	●	●			
F09	3	161.76	4500	5.098	10.8	152	1800					●	●	●	●	●			
F09	3	186.99	4500	4.410	9.4	152	1800					●	●	●	●				
F09	3	211.14	4500	3.906	8.3	152	1800					●	●	●					
F09	3	243.90	4500	3.381	7.2	152	1800					●	●	●					
F09	3	288.50	4500	2.858	6.1	152	1800					●	●						
F10	2	4.38	5415	226.559	399.5	227	1800										●	●	
F10	2	5.13	5415	193.383	341.0	227	1800										●	●	
F10	2	6.04	5415	164.188	289.5	227	1800									●	●	●	
F10	2	7.35	5415	134.962	238.0	227	1800								●	●	●	●	
F10	2	8.45	8000	173.387	207.0	227	1800										●	●	
F10	2	8.94	5415	111.058	195.9	227	1800								●	●	●	●	
F10	2	9.91	8000	147.997	176.7	227	1800										●	●	
F10	2	10.80	5415	91.844	162.0	227	1800							●	●	●	●	●	
F10	2	11.67	8000	125.654	150.0	227	1800									●	●	●	
F10	2	12.51	5415	79.335	139.9	227	1800							●	●	●	●	●	
F10	2	14.19	8000	103.287	123.3	227	1800								●	●	●	●	
F10	2	14.32	5348	68.434	122.2	227	1800							●	●	●	●	●	
F10	2	16.63	5415	59.677	105.2	227	1800							●	●	●			
F10	2	17.25	8000	84.994	101.5	227	1800								●	●	●	●	
F10	2	18.62	2234	21.990	94.0	227	1800							●	●	●			
F10	2	19.30	4207	39.935	90.7	227	1800							●	●	●			
F10	2	20.86	8000	70.289	83.9	227	1800							●	●	●	●	●	
F10	2	22.14	3320	27.480	79.0	227	1800							●	●				
F10	2	24.14	8000	60.715	72.5	227	1800							●	●	●	●	●	
F10	2	27.64	8000	53.036	63.3	227	1800							●	●	●	●	●	
F10	2	32.10	8000	45.671	54.5	227	1800							●	●	●			
F10	2	35.93	4312	21.990	48.7	227	1800							●	●	●			
F10	2	37.26	8000	39.340	47.0	227	1800							●	●	●			
F10	2	42.74	6409	27.480	40.9	227	1800							●	●				
F10	3	26.83	8000	54.649	65.2	253	1800									●	●	●	
F10	3	33.60	8000	43.630	52.1	253	1800								●	●	●	●	
F10	3	41.41	8000	35.400	42.3	253	1800								●	●	●	●	
F10	3	50.75	8000	28.886	34.5	253	1800							●	●	●	●	●	
F10	3	53.96	8000	27.169	32.4	253	1800									●	●	●	
F10	3	60.02	8000	24.426	29.2	253	1800							●	●	●	●	●	
F10	3	67.59	8000	21.690	25.9	253	1800								●	●	●	●	
F10	3	69.49	8000	21.097	25.2	253	1800							●	●	●	●	●	
F10	3	81.20	8000	18.054	21.6	253	1800							●	●	●			

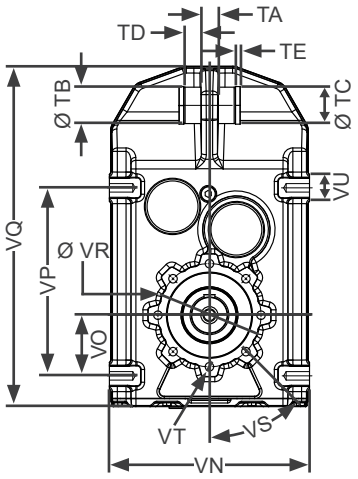
Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
F10	3	83.30	8000	17.599	21.0	253	1800								●	●	●	●	
F10	3	90.63	8000	16.176	19.3	253	1800							●	●	●			
F10	3	93.98	8000	15.598	18.6	253	1800							●	●	●			
F10	3	102.08	8000	14.361	17.1	253	1800							●	●	●	●	●	
F10	3	108.27	8000	13.540	16.2	253	1800							●	●				
F10	3	120.72	8000	12.143	14.5	253	1800							●	●	●	●	●	
F10	3	122.58	8000	11.959	14.3	253	1800							●					
F10	3	139.78	8000	10.488	12.5	253	1800							●	●	●	●	●	
F10	3	163.33	8000	8.975	10.7	253	1800							●	●	●			
F10	3	182.29	8000	8.042	9.6	253	1800							●	●	●			
F10	3	189.04	8000	7.755	9.3	253	1800							●	●	●			
F10	3	217.78	8000	6.731	8.0	253	1800							●	●				
F10	3	246.57	8000	5.945	7.1	253	1800							●					
F12	2	4.64	7912	312.742	377.5	356	1800										●	●	
F12	2	5.36	8163	279.217	326.7	356	1800										●	●	
F12	2	6.23	8163	239.993	280.8	356	1800									●	●	●	
F12	2	7.47	8093	198.417	234.2	356	1800								●	●	●	●	
F12	2	9.01	8163	166.067	194.3	356	1800								●	●	●	●	
F12	2	9.66	13000	246.534	181.1	356	1800										●	●	
F12	2	10.83	7209	122.016	161.6	356	1800								●	●	●	●	
F12	2	11.17	13000	213.352	156.7	356	1800										●	●	
F12	2	12.61	7319	106.389	138.8	356	1800								●	●	●	●	
F12	2	12.99	13000	183.380	134.7	356	1800									●	●	●	
F12	2	14.29	6018	77.169	122.5	356	1800								●	●	●	●	
F12	2	15.58	13000	152.930	112.3	356	1800								●	●	●	●	
F12	2	16.52	6057	67.185	105.9	356	1800								●	●			
F12	2	18.77	13000	126.893	93.2	356	1800								●	●	●	●	
F12	2	22.56	13000	105.575	77.6	356	1800								●	●	●	●	
F12	2	26.27	13000	90.673	66.6	356	1800								●	●	●	●	
F12	2	29.78	12543	77.169	58.8	356	1800								●	●	●	●	
F12	2	34.43	12625	67.185	50.8	356	1800								●	●			
F12	3	23.90	13000	99.668	73.2	396	1800										●	●	
F12	3	28.00	13000	85.074	62.5	396	1800										●	●	
F12	3	32.98	13000	72.230	53.1	396	1800									●	●	●	
F12	3	40.12	13000	59.373	43.6	396	1800								●	●	●	●	
F12	3	43.65	13000	54.569	40.1	396	1800										●	●	
F12	3	48.76	13000	48.857	35.9	396	1800								●	●	●	●	
F12	3	51.14	13000	46.578	34.2	396	1800										●	●	
F12	3	58.96	13000	40.404	29.7	396	1800							●	●	●	●	●	
F12	3	60.24	13000	39.546	29.1	396	1800									●	●	●	
F12	3	68.26	13000	34.901	25.6	396	1800							●	●	●	●	●	
F12	3	73.28	13000	32.507	23.9	396	1800								●	●	●	●	
F12	3	78.14	13000	30.487	22.4	396	1800							●	●	●	●	●	
F12	3	89.06	13000	26.749	19.7	396	1800								●	●	●	●	
F12	3	90.74	13000	26.253	19.3	396	1800							●	●	●			
F12	3	101.58	12190	21.990	17.2	396	1800							●	●	●			
F12	3	105.34	13000	22.614	16.6	396	1800							●	●	●			
F12	3	107.69	13000	22.121	16.3	396	1800							●	●	●	●	●	

Type	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
F12	3	120.82	13000	19.717	14.5	396	1800							●	●				
F12	3	124.67	13000	19.109	14.0	396	1800							●	●	●	●	●	
F12	3	142.72	13000	16.692	12.3	396	1800							●	●	●	●	●	
F12	3	165.73	13000	14.374	10.6	396	1800							●	●	●			
F12	3	185.53	13000	12.840	9.4	396	1800							●	●	●			
F12	3	192.40	13000	12.381	9.1	396	1800							●	●	●			
F12	3	220.67	13000	10.795	7.9	396	1800							●	●				
F15	2	5.84	11038	346.131	299.5	586	1800										●	●	
F15	2	6.71	11038	301.245	260.6	586	1800										●	●	
F15	2	7.77	11038	260.263	225.2	586	1800									●	●	●	
F15	2	9.14	10975	220.157	191.6	586	1800								●	●	●	●	
F15	2	11.10	11038	182.205	157.6	586	1800								●	●	●	●	
F15	2	12.31	18000	267.973	142.2	586	1800										●	●	
F15	2	13.22	9805	135.895	132.4	586	1800								●	●	●	●	
F15	2	14.14	18000	233.222	123.7	586	1800										●	●	
F15	2	16.37	18000	201.494	106.9	586	1800									●	●	●	
F15	2	17.35	7320	77.330	100.9	586	1800								●	●	●	●	
F15	2	19.24	18000	171.424	90.9	586	1800								●	●	●	●	
F15	2	23.38	18000	141.062	74.8	586	1800								●	●	●	●	
F15	2	27.85	18000	118.440	62.8	586	1800								●	●	●	●	
F15	2	36.54	15418	77.330	47.9	586	1800								●	●	●	●	
F15	3	34.93	18000	94.436	50.1	616	1800										●	●	
F15	3	40.36	18000	81.725	43.4	616	1800										●	●	
F15	3	46.96	18000	70.245	37.3	616	1800									●	●	●	
F15	3	56.31	18000	58.581	31.1	616	1800								●	●	●	●	
F15	3	62.79	18000	52.529	27.9	616	1800										●	●	
F15	3	67.86	18000	48.607	25.8	616	1800								●	●	●	●	
F15	3	72.56	18000	45.459	24.1	616	1800										●	●	
F15	3	81.56	18000	40.441	21.5	616	1800								●	●	●	●	
F15	3	84.42	18000	39.073	20.7	616	1800									●	●	●	
F15	3	94.97	18000	34.733	18.4	616	1800								●	●	●	●	
F15	3	101.23	18000	32.585	17.3	616	1800								●	●	●	●	
F15	3	107.66	18000	30.637	16.3	616	1800								●	●	●	●	
F15	3	122.00	18000	27.037	14.3	616	1800								●	●	●	●	
F15	3	124.47	18000	26.500	14.1	616	1800								●	●			
F15	3	144.52	18000	22.824	12.1	616	1800								●	●			
F15	3	146.63	18000	22.495	11.9	616	1800								●	●	●	●	
F15	3	170.73	18000	19.320	10.3	616	1800								●	●	●	●	
F15	3	193.55	18000	17.041	9.0	616	1800								●	●	●	●	
F15	3	223.77	18000	14.740	7.8	616	1800								●	●			
F15	3	259.81	18000	12.696	6.7	616	1800								●	●			

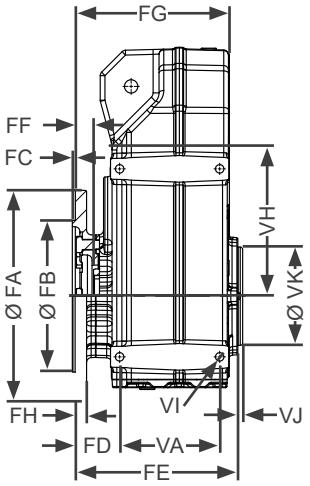
7 DIMENSIONAL DRAWINGS



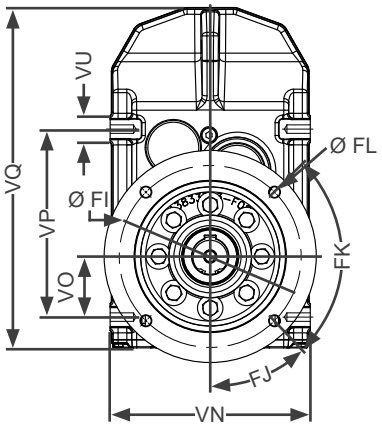
Lateral view - torsion test



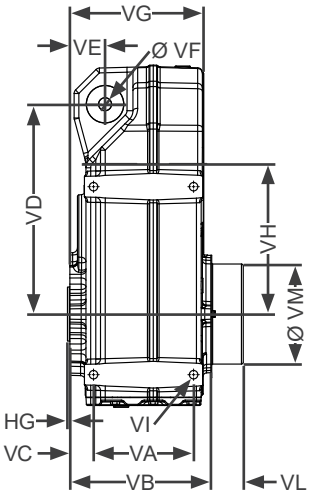
Front view - torsion load



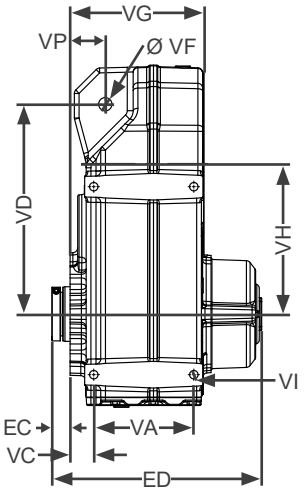
Side View - with Flange



Front view - with flange



Lateral View with relaxation disc



Lateral View - with Easy-Lock

Sizes	Side View												
	VA	VB	VC	VD	VE	ØVF	VG	VH	VI	VJ	ØVK	VL	ØVM
F02	65	102.5	18.5	140	23	14	103	94.8	M8x16	12	64	-	60
F03	77	116	21	158	30	14	113.5	108	M8x16	15	78	-	78
F04	93	145	28	170	29	14	136.5	124	M10x20	13	85	51	85
F05	102	160	30.5	198	37.5	14	149 (1) | 159 (2)	135.6	M12x21	13	90	42	90
F06	112	172	33.5	218	37	14	159	158.2	M12x18	15	97	43.5	97
F07	140	201	32.5	278	46	21	185	197.8	M16x24	16	117	53.5	117
F08	165	232	39	346	58	22	220	248.4	M16x26	16	162	53.5	166
F09	205	292	44.5	395	66	26	270	284.7	M20x32	17	140	56	166
F10	220	345.5	67	485	87.5	26	311	338.4	M24x38	17	192	71.5	196
F12	270	405	76.5	550	107.5	33	370.5	394.1	M30x47	20	219	94.5	223
F15	310	486	111	660	143	33	448	444.2	M36x56	20	270	105.5	274

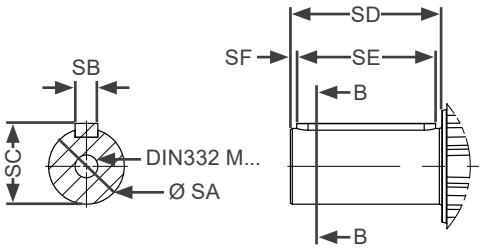
(1) With FC120 at the inlet.
(2) With FC160 at the input.

Sizes	Front View						
	VN	VO	VP	VQ	ØVR	VS	VT
F02	150	31	100	223	90	(4x)90°	M6x12
F03	165	31	115	252	100	(6x)60°	M8x16
F04	180	43	145	275	100	(6x)60°	M8x16
F05	200	55	170	317	120	(6x)60°	M12x21
F06	212	60	190	352	120	(8x)45°	M12x18
F07	270	70	240	420.5	140	(8x)45°	M12x18
F08	330	100	310	561	170	(8x)45°	M16x26
F09	400	120	350	624	180	(8x)45°	M16x28
F10	450	125	400	755	230	(8x)45°	M20x34
F12	530	142	450	835	250	(8x)45°	M24x42
F15	660	170	540	1016	300	(8x)45°	M24x38

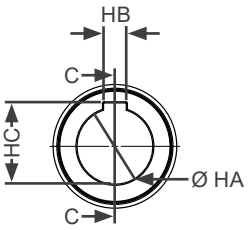
Sizes	Flange											
	ØFA	ØFB	FC	FD	FE	FF	FG	FH	ØFI	FJ	FK	ØFL
F02	160	110j6	3.5	40.5	124.5	20	125	10	130	45°	(4x)90°	9
F03	160	110j6	3.5	47.5	142.5	25	140	10	130	45°	(4x)90°	9
F04	200	130j6	3.5	56	173	25	164.5	12	165	45°	(4x)90°	11
F05	250	180j6	4	57	187	23.5	175.5	15	215	45°	(4x)90°	13.5
F06	250	180j6	4	73.5	212	36	199	15	215	45°	(4x)90°	13.5
F07	300	230j6	4	73.5	242	37	226	16	265	45°	(4x)90°	13.5
F08	350	250h6	5	73	266	30	254	18.5	300	45°	(4x)90°	17.5
F09	450	350h6	5	90.5	338	42	316	22	400	22.5°	(8x)45°	17.5
F10	450	350h6	5	110.5	389	41	354.5	22	400	22.5°	(8x)45°	17.5
F12	550	450h6	5	130	459	51	424	25	500	22.5°	(8x)45°	17.5
F15	660	550h6	6	176	551	58	513	28	600	22.5°	(8x)45°	22

Sizes	Torsion Arm				
	TA	ØTB	ØTC	TD	TE
F02	10	40	40	18	3
F03	14.5	40	40	18	3
F04	14.5	40	40	18	3
F05	17	40	40	18	3
F06	16	40	40	18	3
F07	27	60	60	32	4
F08	29	60	60	28	5
F09	33	80	80	38	5
F10	36	80	80	38	5
F12	44	100	100	60	5
F15	49	100	100	60	5

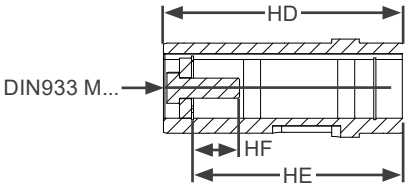
Outlet shaft from the mass



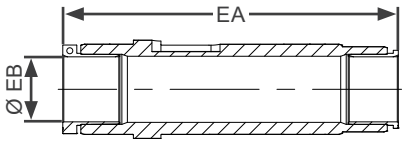
Detail A



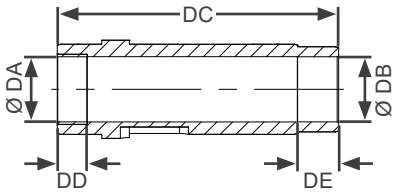
Exit axis of the hollow



Section C-C



Detail - Easy Lock



Detail - Relief Disc

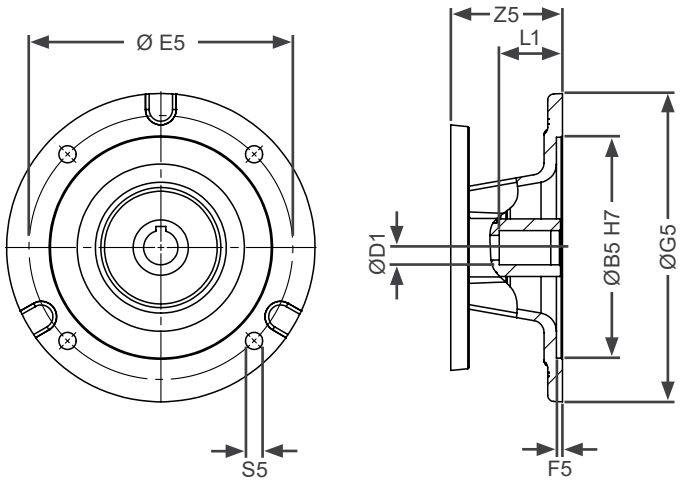
Sizes	Solid Shaft							
	ØSA	SB	SC	SD	SE	SF	SG	DIN332 M...
F02	25k6	8	28	50	40	5	3	M10
F03	25k6	8	28	50	40	5	1.5	M10
F04	30k6	8	33	60	50	5	3	M10
F05	35k6	10	38	70	56	7	4	M12
F06	40k6	12	43	80	70	5	5	M16
F07	50k6	14	53.5	100	80	10	5	M16
F08	60m6	18	64	120	110	5	4	M20
F09	70m6	20	74.5	140	125	7.5	4	M20
F10	90m6	25	95	170	160	5	4.5	M24
F12	110m6	28	116	210	180	15	4.5	M24
F15	120k6	32	127	210	200	5	4	M24

Sizes	Hollow Shaft							
	ØHA	HB	HC	HD	HE	HF	HG	DIN933 M...
F02	25H7	8	28.3	104	89	17	2	M10x25
F03	30H7	8	33.3	120	105	17	1.5	M10x25
F04	35H7	10	38.3	150	132	22	3	M10x30
F05	40H7	12	43.3	166	142	29	3	M16x40
F06	40H7	12	43.3	166	142	29	4	M16x40
F07	50H7	14	53.8	210	183	32	4	M16x45
F08	60H7	18	64.4	240	210	36	4	M20x50
F09	70H7	20	74.9	300	270	34	4	M20x50
F10	90H7	25	95.4	350	313	40	2.5	M24x60
F12	100H7	28	106.4	410	373	38	2.5	M24x60
F15	120H7	32	127.4	500	460	36	7	M24x60

Sizes	Contraction Disc				
	ØDA	ØDB	DC	DD	DE
F02	25	25H7	127	20	20
F03	30	30H7	146	20	24
F04	35	35H7	177	20	24
F05	40	40H7	193	20	24
F06	40	40H7	208	20	25
F07	50	50H7	241	30	31
F08	65	65H7	281	30	41
F09	75	75H7	345	40	55
F10	95	95H7	405	60	65
F12	105	105H7	485	60	85
F15	125	125H7	580	40	90

Sizes	Easy-lock			
	EA	ØEB	EC	ED
F02	-	-	-	-
F03	170	30h11	18	170
F04	207	35h11	22	219.5
F05	232	40h11	23.5	244.5
F06	245	40h11	24	257.5
F07	295	50h11	27	307.5
F08	335	65h11	30	346
F09	396	75h11	30	406.5
F10	451	95h11	28.5	468
F12	532	105h11	33.5	551
F15	641	125h11	45	662

7.1 IEC ADAPTER



Type	IEC63	IEC71	IEC80	IEC90	IEC100	IEC112	IEC132	IEC160	IEC180
B5	95	110	130	130	180	180	230	250	250
E5	115	130	165	165	215	215	265	300	300
F5	4.5	4.5	4.5	4.5	5	5	6	6	6
G5	160	160	200	200	250	250	300	350	350
S5	M8	M8	12	12	14	14	15	19	19
D1	11	14	19	24	28	28	38	42	48
L1	23	30	40	50	60	60	80	110	110

Reducer Size		IEC63	IEC71	IEC80	IEC90	IEC100	IEC112	IEC132	IEC160	IEC180
F02	**Z5**	32	32	60	60	-	-	-	-	-
F03		32	32	60	60	91	-	-	-	-
F04		32	32	60	60	91	-	-	-	-
F05		32	32	60	60	91	91	101.5	-	-
F06		32	32	60	60	91	91	111.5	-	-
F07		-	32	60	60	91	91	111.5	-	-
F08		-	-	-	60	91	91	110.5	152.5	152.5
F09		-	-	-	-	82.5	82.5	103	143	143
F10		-	-	-		-	-	103	143	143
F12		-	-	-	-	-	-	103	143	143
F15		-	-	-	-	-	-	-	144	144

WCG20 K Ex h

Helical-bevel gearmotors.

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WEG CESTARI REDUTORES

1 TECHNICAL SPECIFICATIONS

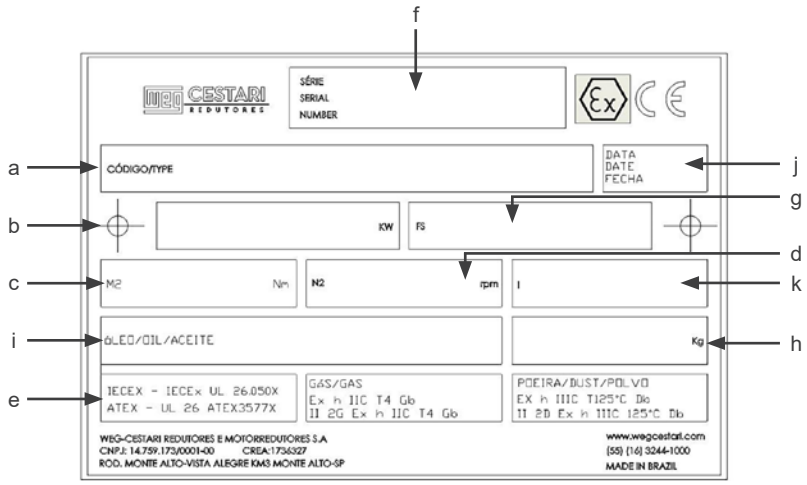
Housing Size		K02	K03	K04	K05	K06	K07
Power Range		0.12 - 1.5 kW	0.12 - 3 kW	0.12 - 4 kW	0.12 - 9.2 kW	0.18 - 9.2 kW	0.25 - 15 kW
Nominal Torque		110 Nm	200 Nm	400 Nm	600 Nm	820 Nm	1550 Nm
Gear Ratio		3.82 - 68.88	4.17 - 217.88	5.05 - 277.79	4.27 - 245.70	4.94 - 198.00	7.91 - 256.14
Number of Stages		2	3	3	3	3	3
Case Material		Aluminum				Gray cast iron	
Solid Shaft	Fixing	With a split key in accordance with DIN 6885.1 and a threaded bore in accordance with DIN 332					
	Tolerance	< Ø 55: k6 / > Ø 55: m6					
	Material	SAE 1045					
Flange	Tolerance	Centrado < 230: j6 / > 230: h6 according to DIN EN 50347					
	Material	Gray cast iron					
Toothed Parts	Fixing	Rectified					
	Material	SAE 8620 case hardened - min. 58HRC					
Shaft Retainers	Fixing	Design A/AS per DIN 3760					
	Material	FKM					
Lubricants	Fixing	Standard: CLP ISO VG 220 / Optional: CLP ISO HC VG 200, CLP PG 220 and H1 ISO VG 220					
	Filling Capacity	Depending on the installation position					
Shaft Height		According to DIN 747: < 50: -0.4; > 50 to < 250: -0.5; > 250: -1 In compact gear units, the motor can be designed below the mounting surfaces					

Size		K08	K09	K10	K12	K15
Power Range		0,75 - 55 kW	0,75 - 55 kW	7,5 - 75 kW	7,5 - 75 kW	15 - 75 kW
Nominal Torque		3000 Nm	4500 Nm	8000 Nm	13000 Nm	18000 Nm
Gear Ratio		7,45 - 163,14	6,95 - 169,25	6,64 - 140,95	6,6 - 151,11	8,61 - 146,69
Number of Stages		3	3	3	3	3
Housing Material		Gray cast iron				
Solid Shaft	Fixing	With a split key in accordance with DIN 6885.1 and a threaded bore in accordance with DIN 332				
	Tolerance	< Ø 55: k6/ > Ø 55: m6				
	Material	SAE 1045				
Flange	Tolerance	Centering < 230:j6 / > 230 : h6 according to DIN EN 50347				
	Material	Gray cast iron				
Toothed Parts	Fixing	Rectified				
	Material	SAE 8620 case-hardened - min. 58 HRC				
Shaft Seals	Fixing	Design A/AS per DIN 3760				
	Material	FKM				
Lubricants	Fixing	Standard: CLPISOVG220 / Optional: CLPISOHCVG200, CLPPG220, and H1ISOVG220				
	Filling Capacity	Depending on the installation position				
Shaft Height		According to DIN 747: <50: -0.4; >50 to <250: -0.5; >250: -1 In compact gearboxes, the motor can be designed below its mounting surfaces				

Criterion	Description
Protection Type	Exh - mechanical protection (ISO 80079-37)
Zones	1 / 21 (probable presence of gas or dust)
	2 / 22 (occasional presence for a short period)
Gas groups	IIC: high-risk gases, such as hydrogen and acetylene
	IIIC: conductive dusts, such as aluminum and coal
Temperature class	T4 / T125 °C: maximum surface temperature limited to 135 °C for gases and to 125 °C for dusts
EPL - Equipment Protection Level	Gb, Gc, Db, and Dc - High/average protection level

2 GENERAL INFORMATION

2.1 NAMEPLATE



a - Product name	g - Duty factor
b - Motor power	h - Mass
c - Output torque	i - Oil quantity and type
d - Output speed	j - Date of manufacture
e - Certificate number	k - Gear ratio
f - Serial number	

2.2 PRODUCT DESCRIPTION

WCG20x K08 3 T H I 100 3kW 4P W22 S

1 2 3 4 5 6 7 8 9 10 11

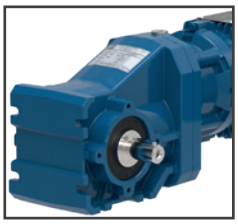
1 Geared Platform
WCG20x = Geared Motor Line Ex h
2 Sizes
K02 | K03 | K04 | K05 | K06 | K07 | K08 | K09 | K10 | K12 | K15
3 Number of Stages
2 = 2-stage gear reducer 3 = 3-stage gearbox
4 Fixing
H = Housing T = Torsion Arm F = B5 flange K = Feet + B5 flange
5 Output Shaft
H = Hollow S = Solid B = Double solid (A+B) D = Decoupling Disc E = Easylock
6 Input Type
I = Motor adapter with FF flange
7 Motor Housing
63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | 180 | 200 | 225 | 250 | 280
8 Motor Power
0.12 kW | 0.18 kW | 0.25 kW | 0.37 kW | 0.5 kW | 0.75 kW | 1.1 kW | 1.5 kW | 2.2 kW | 3 kW | 3.7 kW | 4 kW | 4.5 kW | 7.5 kW | 9.2 kW | 11 kW | 15 kW 18.5 kW | 22 kW | 30 kW | 37 kW | 45 kW | 55 kW

9 Motor Polarity
4P = 4 poles 6P = 6 poles 8P = 8 poles
10 Motor Platform
W21 W22
11 Specialty Indicator
(No load) = Standard S = Special

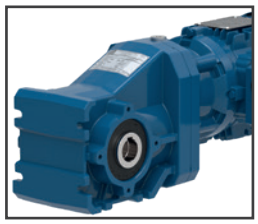
2.3 HOUSING MATERIAL

Housing Size	K02	K03	K04	K05	K06	K07	K08	K09	K10	K12	K15
Housing Material	Aluminum					Gray cast iron					

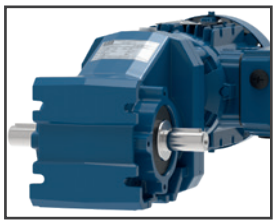
2.4 MOUNTING TYPE (MOUNTING + OUTPUT TYPE)



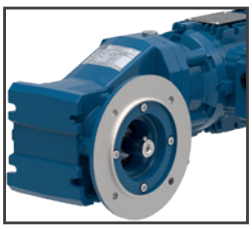
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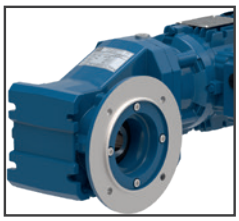
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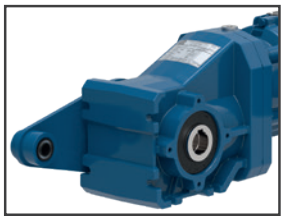
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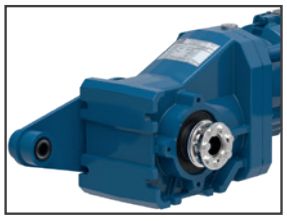
4



5



6



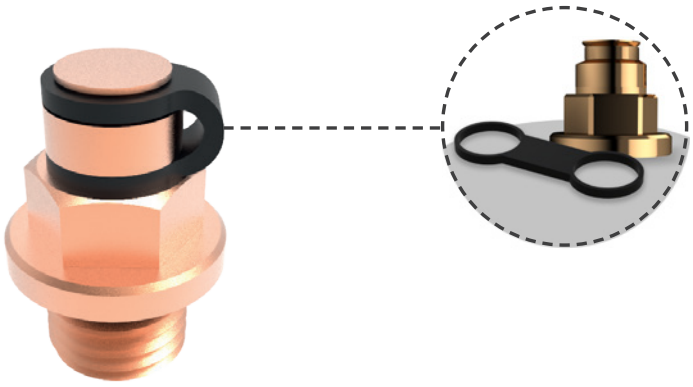
7

1 - Housing + solid shaft	5 - Flange + hollow shaft
2 - Housing + hollow shaft	6 - Torque arm + hollow shaft
3 - Housing + double solid shaft	7 - Torque arm + shrink disc
4 - Flange + solid shaft	

2.5 LUBRICATION AND VENT PLUGS

- K02 to K05 gear reducers: do not have breather plugs or oil drains. These models are supplied with permanent Lubrication (5,000 hours at an operating temperature of up to 80 °C).

- Gearboxes K06 to K15: are equipped, as standard, with breather vents with protective covers for transport (see illustration).

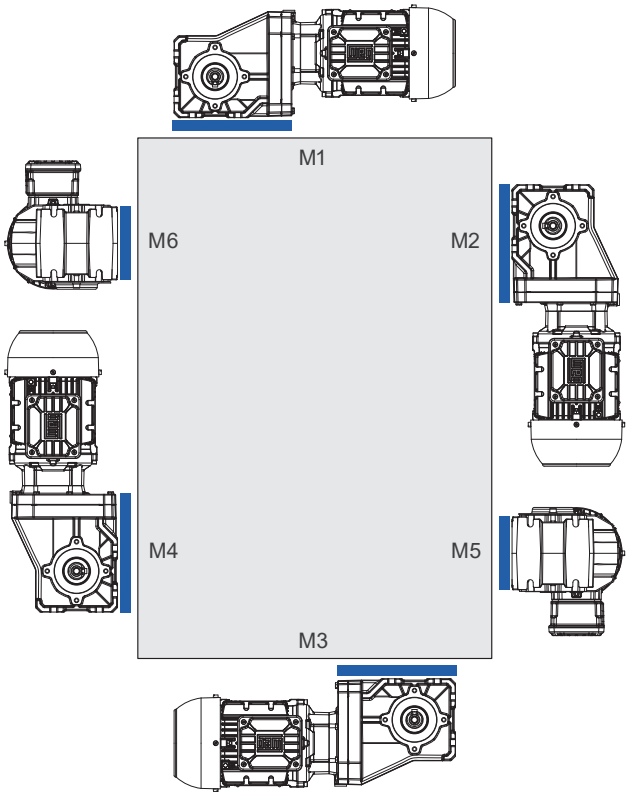


ATTENTION!

- The rubber lead seal on the breather must be completely removed before the equipment is put into operation.
- The breather must be installed in the position corresponding to the assembly position (see Chapter 3 MOUNTING POSITION on page 155).

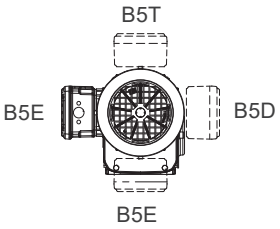
3 MOUNTING POSITION

Mounting Position: Sizes K02 to K05



Position of the junction box

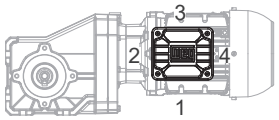
Standard: B5E



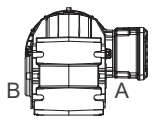
(Connection housing position 270°)

Cable entry

Standard: toward the lower handle or toward the shaft extension

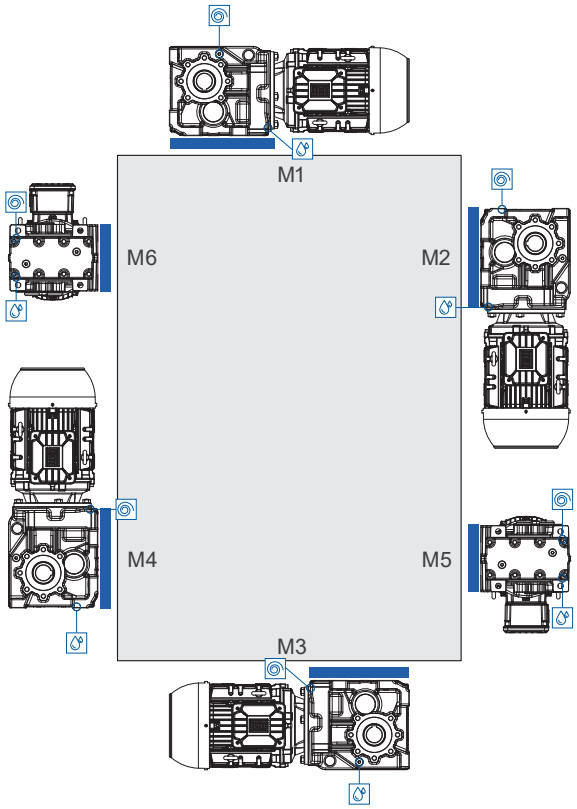


Side View

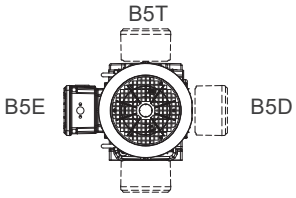


Notes: (1) For the lower hand, point toward the axis.
(2) Facing the axis.
(3) For the top, the eye is aligned with the axle.
(4) Facing the rear.

Mounting Position: Sizes K06 to K15



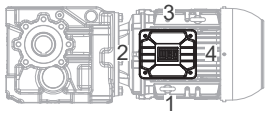
Connection box position
Standard: B5E



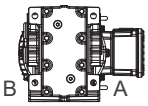
(Connection housing position 270°)

Cable entry

Standard: for low-hand position or shaft extension



Side View



Location of the vent

Oil drain position

Notes: **(1)** Lower the eye to the marked axis.
(2) Facing the axle.
(3) For the top, look toward the axle.
(4) Facing the rear.

4 OIL QUANTITY

2 and 3 Stages							
Mounting Positions / Quantity in Liters							
Sizes	**Stages**	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**
K02	2	0.4	0.9	0.7	0.9	0.5	0.6
K03	3	0.4	1.0	1.2	1.3	1.0	1.0
K04		0.6	1.6	1.9	2.1	1.7	1.7
K05		0.8	2.1	2.6	3.1	2.1	2.2
K06		0.8	2.0	2.7	3.0	2.2	2.4
K07		1.5	3.5	4.3	5.3	3.7	4.1
K08		3.1	7.0	7.8	9.2	7.1	7.5
K09		5.8	11.5	12.9	16.6	15.6	15.6
K10		9.1	18.3	21.8	26.6	24.7	24.8
K12		16.3	26.4	28.8	41.3	34.6	36.2
K15		27.9	50.6	64.8	79.5	71.8	71.1

5 SELECTION TABLES - GEAR MOTORS

The technical data for the gearmotors listed in the selection tables refer to an ambient temperature of +20°C..

Structure of the Selection Tables

						1					
PN = 0,00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Weight (Kg)
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
2	3	4	5	2	3	4	5	6	7	8	9

1. Nominal motor power.
2. Output speed.
3. Effective torque at the output shaft.
4. Service factor.
5. Permissible radial force at the center of the shaft (standard bearing) with axial force = 0.
6. Exact gear ratio of the reducer.
7. Size of the gearbox.
8. Stages of the gearbox.
9. Weight of the gearmotor.

PN = 0.12 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
458.69	2	30.82	3.3	380.06	3	25.54	3.5	3.82	K02	2	12.5
336.54	3	23.86	3.6	278.85	4	19.77	3.9	5.20	K02	2	12.5
253.39	5	17.97	4.0	209.95	5	14.89	4.2	6.91	K02	2	12.5
229.34	5	16.01	4.1	190.03	6	13.27	4.4	7.63	K02	2	12.5
205.62	6	14.89	4.3	170.37	7	12.33	4.6	8.51	K02	2	12.5
189.19	6	13.41	4.4	156.76	7	11.11	4.7	9.25	K02	2	12.5
168.27	7	13.02	4.6	139.42	8	10.79	4.9	10.40	K02	2	12.5
150.86	8	12.11	4.8	125.00	9	10.03	5.1	11.60	K02	2	12.5
126.70	9	10.78	5.0	104.98	11	8.93	5.3	13.81	K02	2	12.5
113.59	10	10.02	5.2	94.12	12	8.30	5.3	15.41	K02	2	12.5
94.59	12	8.87	5.3	78.38	15	7.35	5.3	18.50	K02	2	12.5
84.81	14	8.14	5.3	70.27	16	6.74	5.3	20.63	K02	2	12.5
73.91	16	7.09	5.3	61.24	19	5.88	5.3	23.68	K02	2	12.5
66.26	17	6.36	5.3	54.90	21	5.27	5.3	26.41	K02	2	12.5
56.95	20	5.47	5.3	47.19	24	4.53	5.3	30.73	K02	2	12.5
51.06	22	4.90	5.3	42.31	27	4.06	5.3	34.27	K02	2	12.5
44.87	26	4.31	5.3	37.18	31	3.57	5.3	39.00	K02	2	12.5
40.23	28	3.86	5.3	33.33	34	3.20	5.2	43.50	K02	2	12.5
36.38	31	3.49	5.3	30.15	38	2.89	5.2	48.10	K02	2	12.5
32.62	35	3.13	5.2	27.03	42	2.59	5.2	53.65	K02	2	12.5
28.34	40	2.52	5.2	23.48	49	2.09	5.2	61.75	K02	2	12.5
25.41	45	2.44	5.2	21.05	54	2.02	5.2	68.88	K02	2	12.5
20.16	57	3.52	5.0	16.70	69	2.91	4.9	86.83	K03	3	14.4
16.09	71	2.81	4.9	13.33	86	2.33	4.8	108.75	K03	3	14.4
12.43	92	2.17	4.7	10.30	111	1.80	4.5	140.80	K03	3	14.4
9.88	116	1.72	4.4	8.18	140	1.43	4.0	177.19	K03	3	14.4
8.03	143	1.40	3.9	6.66	172	1.16	3.3	217.88	K03	3	14.4
9.76	117	3.41	6.5	8.08	142	2.82	6.5	179.37	K04	3	18
7.70	149	2.69	6.4	6.38	180	2.23	6.1	227.16	K04	3	18
6.30	182	2.20	6.1	5.22	220	1.82	5.6	277.79	K04	3	18
7.12	161	3.73	9.2	5.90	194	3.09	9.2	245.70	K05	3	21

PN = 0.18 kW

PN = 0.18 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
458.69	4	20.55	3.3	380.06	5	17.02	3.5	3.82	K02	2	13.2
336.54	5	15.91	3.6	278.85	6	13.18	3.9	5.20	K02	2	13.2
253.39	7	11.98	4.0	209.95	8	9.92	4.3	6.91	K02	2	13.2
229.34	7	10.67	4.1	190.03	9	8.84	4.4	7.63	K02	2	13.2
205.62	8	9.92	4.3	170.37	10	8.22	4.6	8.51	K02	2	13.2
189.19	9	8.94	4.4	156.76	11	7.41	4.7	9.25	K02	2	13.2
168.27	10	8.68	4.6	139.42	12	7.19	4.9	10.40	K02	2	13.2
150.86	11	8.07	4.8	125.00	14	6.69	5.1	11.60	K02	2	13.2
126.70	14	7.19	5.1	104.98	16	5.95	5.3	13.81	K02	2	13.2
113.59	15	6.68	5.3	94.12	18	5.54	5.3	15.41	K02	2	13.2
94.59	18	5.91	5.3	78.38	22	4.90	5.3	18.50	K02	2	13.2
84.81	20	5.43	5.3	70.27	24	4.50	5.3	20.63	K02	2	13.2
73.91	23	4.73	5.3	61.24	28	3.92	5.3	23.68	K02	2	13.2
66.26	26	4.24	5.3	54.90	31	3.51	5.3	26.41	K02	2	13.2
56.95	30	3.64	5.3	47.19	36	3.02	5.2	30.73	K02	2	13.2
51.06	34	3.27	5.2	42.31	41	2.71	5.2	34.27	K02	2	13.2
44.87	38	2.87	5.2	37.18	46	2.38	5.2	39.00	K02	2	13.2
40.23	43	2.57	5.2	33.33	52	2.13	5.2	43.50	K02	2	13.2
36.38	47	2.33	5.2	30.15	57	1.93	5.1	48.10	K02	2	13.2
32.62	53	2.09	5.2	27.03	64	1.73	5.1	53.65	K02	2	13.2
28.34	61	1.68	5.1	23.48	73	1.39	5.0	61.75	K02	2	13.2
25.41	68	1.63	5.1	21.05	82	1.35	5.0	68.88	K02	2	13.2
29.91	57	3.48	4.7	24.79	69	2.88	4.9	58.50	K03	3	15.1
26.67	64	3.10	4.9	22.10	78	2.57	4.8	65.63	K03	3	15.1
24.33	71	2.83	4.9	20.16	85	2.35	4.8	71.93	K03	3	15.1
20.16	85	2.34	4.8	16.70	103	1.94	4.6	86.83	K03	3	15.1
16.09	107	1.87	4.5	13.33	129	1.55	4.2	108.75	K03	3	15.1
12.43	138	1.45	4.0	10.30	167	1.20	3.4	140.80	K03	3	15.1
9.88	174	1.15	3.5	8.18	210	0.95	(**)	177.19	K03	3	15.1
8.03	214	0.93	(**)	6.66	258	0.77	(**)	217.88	K03	3	15.1
15.37	112	3.58	6.5	12.74	135	2.96	6.5	113.83	K04	3	19
12.58	137	2.93	6.5	10.43	165	2.43	6.3	139.08	K04	3	19
9.76	176	2.27	6.2	8.08	213	1.88	5.7	179.37	K04	3	19
7.70	223	1.79	5.6	6.38	269	1.49	4.8	227.16	K04	3	19
6.30	273	1.47	4.6	5.22	329	1.21	3.0	277.79	K04	3	19
8.99	191	3.14	9.2	7.45	231	2.60	9	194.73	K05	3	22
7.12	241	2.49	8.9	5.90	291	2.06	8.5	245.70	K05	3	22

Note: (**) Upon request.

PN = 0.25 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
458.69	5	14.79	3.3	380.06	6	12.26	3.5	3.82	K02	2	13.2
336.54	7	11.45	3.7	278.85	9	9.49	3.9	5.20	K02	2	13.2
253.39	9	8.62	4.0	209.95	11	7.15	4.3	6.91	K02	2	13.2
229.34	10	7.68	4.2	190.03	13	6.37	4.4	7.63	K02	2	13.2
205.62	12	7.15	4.3	170.37	14	5.92	4.6	8.51	K02	2	13.2
189.19	13	6.44	4.4	156.76	15	5.33	4.7	9.25	K02	2	13.2
168.27	14	6.25	4.6	139.42	17	5.18	4.9	10.40	K02	2	13.2
150.86	16	5.81	4.8	125.00	19	4.82	5.1	11.60	K02	2	13.2
126.70	19	5.17	5.1	104.98	23	4.29	5.3	13.81	K02	2	13.2
113.59	21	4.81	5.3	94.12	25	3.99	5.3	15.41	K02	2	13.2
94.59	25	4.26	5.3	78.38	30	3.53	5.3	18.50	K02	2	13.2
84.81	28	3.91	5.3	70.27	34	3.24	5.2	20.63	K02	2	13.2
73.91	32	3.41	5.3	61.24	39	2.82	5.2	23.68	K02	2	13.2
66.26	36	3.05	5.2	54.90	43	2.53	5.2	26.41	K02	2	13.2
56.95	42	2.62	5.2	47.19	51	2.17	5.2	30.73	K02	2	13.2
51.06	47	2.35	5.2	42.31	56	1.95	5.1	34.27	K02	2	13.2
44.87	53	2.07	5.2	37.18	64	1.71	5.1	39.00	K02	2	13.2
40.23	59	1.85	5.1	33.33	72	1.54	5.0	43.50	K02	2	13.2
36.38	66	1.68	5.1	30.15	79	1.39	5.0	48.10	K02	2	13.2
32.62	73	1.50	5.0	27.03	88	1.25	4.9	53.65	K02	2	13.2
28.34	84	1.21	5.0	23.48	102	1.00	(**)	61.75	K02	2	13.2
25.41	94	1.17	5.0	21.05	113	0.97	(**)	68.88	K02	2	13.2
45.10	53	3.78	4.9	37.37	64	3.13	4.9	38.80	K03	3	15.1
37.65	63	3.15	4.9	31.19	77	2.61	4.8	46.48	K03	3	15.1
35.09	68	2.94	4.9	29.07	82	2.44	4.8	49.88	K03	3	15.1
29.91	80	2.51	4.8	24.79	96	2.08	4.6	58.50	K03	3	15.1
26.67	90	2.23	4.7	22.10	108	1.85	4.5	65.63	K03	3	15.1
24.33	98	2.04	4.6	20.16	118	1.69	4.4	71.93	K03	3	15.1
20.16	118	1.69	4.4	16.70	143	1.40	3.9	86.83	K03	3	15.1
16.09	148	1.35	3.8	13.33	179	1.12	3.1	108.75	K03	3	15.1
12.43	192	1.04	(**)	10.30	232	0.86	(**)	140.80	K03	3	15.1
19.97	120	3.35	6.5	16.55	144	2.77	6.5	87.62	K04	3	19
15.37	155	2.58	6.4	12.74	187	2.13	6	113.83	K04	3	19
12.58	190	2.11	6.0	10.43	229	1.75	5.5	139.08	K04	3	19
9.76	245	1.63	5.2	8.08	295	1.35	4.1	179.37	K04	3	19
7.70	310	1.29	3.7	6.38	374	1.07	(**)	227.16	K04	3	19
6.30	379	1.06	(**)	5.22	457	0.87	(**)	277.79	K04	3	19
14.11	169	3.54	9.0	11.69	204	2.94	9.1	124.06	K05	3	22
11.57	206	2.91	9.1	9.59	249	2.41	8.8	151.20	K05	3	22
8.99	266	2.26	8.7	7.45	321	1.87	8.2	194.73	K05	3	22
7.12	335	1.79	8.0	5.90	405	1.48	7.1	245.70	K05	3	22
458.69	8	10.00	3.3	380.06	9	8.28	3.6	3.82	K02	2	14.9
336.54	10	7.74	3.7	278.85	13	6.41	4.0	5.20	K02	2	14.9
253.39	14	5.83	4.1	209.95	17	4.83	4.4	6.91	K02	2	14.9
229.34	15	5.19	4.2	190.03	19	4.30	4.5	7.63	K02	2	14.9
205.62	17	4.83	4.4	170.37	21	4.00	4.7	8.51	K02	2	14.9
189.19	19	4.35	4.5	156.76	23	3.60	4.8	9.25	K02	2	14.9
168.27	21	4.22	4.7	139.42	25	3.50	5.0	10.40	K02	2	14.9
150.86	23	3.93	4.9	125.00	28	3.25	5.2	11.60	K02	2	14.9

PN = 0.25 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
126.70	28	3.50	5.2	104.98	34	2.90	5.2	13.81	K02	2	14.9
113.59	31	3.25	5.3	94.12	38	2.69	5.2	15.41	K02	2	14.9
94.59	37	2.88	5.2	78.38	45	2.38	5.2	18.50	K02	2	14.9
84.81	42	2.64	5.2	70.27	50	2.19	5.2	20.63	K02	2	14.9
73.91	48	2.30	5.2	61.24	58	1.91	5.1	23.68	K02	2	14.9
66.26	53	2.06	5.1	54.90	64	1.71	5.1	26.41	K02	2	14.9
56.95	62	1.77	5.1	47.19	75	1.47	5.0	30.73	K02	2	14.9
51.06	69	1.59	5.0	42.31	84	1.32	4.9	34.27	K02	2	14.9
44.87	79	1.40	5.0	37.18	95	1.16	4.8	39.00	K02	2	14.9
40.23	88	1.25	5.0	33.33	106	1.04	(**)	43.50	K02	2	14.9
36.38	97	1.13	4.8	30.15	117	0.94	(**)	48.10	K02	2	14.9
32.62	108	1.02	(**)	27.03	131	0.84	(**)	53.65	K02	2	14.9
61.05	58	3.46	4.9	50.58	70	2.86	4.9	28.67	K03	3	16.8
48.74	72	2.76	4.8	40.38	87	2.29	4.7	35.90	K03	3	16.8
45.10	78	2.55	4.8	37.37	95	2.12	4.6	38.80	K03	3	16.8
37.65	94	2.13	4.6	31.19	113	1.77	4.4	46.48	K03	3	16.8
35.09	101	1.99	4.5	29.07	122	1.65	4.2	49.88	K03	3	16.8
29.91	118	1.69	4.3	24.79	143	1.40	3.8	58.50	K03	3	16.8
26.67	133	1.51	4.0	22.10	160	1.25	3.4	65.63	K03	3	16.8
24.33	145	1.38	3.8	20.16	175	1.14	3	71.93	K03	3	16.8
20.16	175	1.14	3.5	16.70	212	0.95	(**)	86.83	K03	3	16.8
16.09	220	0.91	(**)	13.33	265	0.75	(**)	108.75	K03	3	16.8
32.30	109	3.66	6.5	26.76	132	3.03	6.5	54.18	K04	3	21
30.39	116	3.44	6.5	25.18	140	2.85	6.5	57.58	K04	3	21
26.43	134	2.99	6.5	21.90	161	2.48	6.3	66.20	K04	3	21
24.00	147	2.72	6.4	19.89	178	2.25	6.1	72.92	K04	3	21
19.97	177	2.26	6.1	16.55	214	1.87	5.6	87.62	K04	3	21
15.37	230	1.74	5.3	12.74	277	1.44	4.3	113.83	K04	3	21
12.58	281	1.42	4.2	10.43	339	1.18	1.9	139.08	K04	3	21
9.76	362	1.10	3.0	8.08	437	0.92	(**)	179.37	K04	3	21
7.70	459	0.87	(**)	6.38	554	0.72	(**)	227.16	K04	3	21
21.75	162	3.45	9.1	18.02	196	2.86	9.1	80.46	K05	3	24
18.21	194	3.09	9.2	15.09	234	2.56	8.9	96.08	K05	3	24
14.11	250	2.40	8.7	11.69	302	1.98	8.3	124.06	K05	3	24
11.57	305	1.97	8.2	9.59	368	1.63	7.4	151.20	K05	3	24
8.99	393	1.53	7.0	7.45	475	1.26	5.4	194.73	K05	3	24
7.12	496	1.21	5.9	5.90	599	1.00	(**)	245.70	K05	3	24
14.36	246	3.33	13.5	11.90	297	2.76	13.5	121.85	K06	3	38
11.15	317	2.59	11.5	9.24	382	2.14	13.1	156.92	K06	3	38
8.84	400	2.05	10.9	7.32	483	1.70	12.5	198.00	K06	3	38

Note: (**) Upon request.

PN = 0.37 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
458.69	8	10.00	3.3	380.06	9	8.28	3.6	3.82	K02	2	14.9
336.54	10	7.74	3.7	278.85	13	6.41	4.0	5.20	K02	2	14.9
253.39	14	5.83	4.1	209.95	17	4.83	4.4	6.91	K02	2	14.9
229.34	15	5.19	4.2	190.03	19	4.30	4.5	7.63	K02	2	14.9
205.62	17	4.83	4.4	170.37	21	4.00	4.7	8.51	K02	2	14.9
189.19	19	4.35	4.5	156.76	23	3.60	4.8	9.25	K02	2	14.9
168.27	21	4.22	4.7	139.42	25	3.50	5.0	10.40	K02	2	14.9
150.86	23	3.93	4.9	125.00	28	3.25	5.2	11.60	K02	2	14.9
126.70	28	3.50	5.2	104.98	34	2.90	5.2	13.81	K02	2	14.9
113.59	31	3.25	5.3	94.12	38	2.69	5.2	15.41	K02	2	14.9
94.59	37	2.88	5.2	78.38	45	2.38	5.2	18.50	K02	2	14.9
84.81	42	2.64	5.2	70.27	50	2.19	5.2	20.63	K02	2	14.9
73.91	48	2.30	5.2	61.24	58	1.91	5.1	23.68	K02	2	14.9
66.26	53	2.06	5.1	54.90	64	1.71	5.1	26.41	K02	2	14.9
56.95	62	1.77	5.1	47.19	75	1.47	5.0	30.73	K02	2	14.9
51.06	69	1.59	5.0	42.31	84	1.32	4.9	34.27	K02	2	14.9
44.87	79	1.40	5.0	37.18	95	1.16	4.8	39.00	K02	2	14.9
40.23	88	1.25	5.0	33.33	106	1.04	(**)	43.50	K02	2	14.9
36.38	97	1.13	4.8	30.15	117	0.94	(**)	48.10	K02	2	14.9
32.62	108	1.02	(**)	27.03	131	0.84	(**)	53.65	K02	2	14.9
61.05	58	3.46	4.9	50.58	70	2.86	4.9	28.67	K03	3	16.8
48.74	72	2.76	4.8	40.38	87	2.29	4.7	35.90	K03	3	16.8
45.10	78	2.55	4.8	37.37	95	2.12	4.6	38.80	K03	3	16.8
37.65	94	2.13	4.6	31.19	113	1.77	4.4	46.48	K03	3	16.8
35.09	101	1.99	4.5	29.07	122	1.65	4.2	49.88	K03	3	16.8
29.91	118	1.69	4.3	24.79	143	1.40	3.8	58.50	K03	3	16.8
26.67	133	1.51	4.0	22.10	160	1.25	3.4	65.63	K03	3	16.8
24.33	145	1.38	3.8	20.16	175	1.14	3	71.93	K03	3	16.8
20.16	175	1.14	3.5	16.70	212	0.95	(**)	86.83	K03	3	16.8
16.09	220	0.91	(**)	13.33	265	0.75	(**)	108.75	K03	3	16.8
32.30	109	3.66	6.5	26.76	132	3.03	6.5	54.18	K04	3	21
30.39	116	3.44	6.5	25.18	140	2.85	6.5	57.58	K04	3	21
26.43	134	2.99	6.5	21.90	161	2.48	6.3	66.20	K04	3	21
24.00	147	2.72	6.4	19.89	178	2.25	6.1	72.92	K04	3	21
19.97	177	2.26	6.1	16.55	214	1.87	5.6	87.62	K04	3	21
15.37	230	1.74	5.3	12.74	277	1.44	4.3	113.83	K04	3	21
12.58	281	1.42	4.2	10.43	339	1.18	1.9	139.08	K04	3	21
9.76	362	1.10	3.0	8.08	437	0.92	(**)	179.37	K04	3	21
7.70	459	0.87	(**)	6.38	554	0.72	(**)	227.16	K04	3	21
21.75	162	3.45	9.1	18.02	196	2.86	9.1	80.46	K05	3	24
18.21	194	3.09	9.2	15.09	234	2.56	8.9	96.08	K05	3	24
14.11	250	2.40	8.7	11.69	302	1.98	8.3	124.06	K05	3	24
11.57	305	1.97	8.2	9.59	368	1.63	7.4	151.20	K05	3	24
8.99	393	1.53	7.0	7.45	475	1.26	5.4	194.73	K05	3	24
7.12	496	1.21	5.9	5.90	599	1.00	(**)	245.70	K05	3	24
14.36	246	3.33	13.5	11.90	297	2.76	13.5	121.85	K06	3	38
11.15	317	2.59	11.5	9.24	382	2.14	13.1	156.92	K06	3	38
8.84	400	2.05	10.9	7.32	483	1.70	12.5	198.00	K06	3	38

Note: (**) Upon request.

PN = 0.55 kW

PN = 0.55 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
458.69	11	6.72	3.3	380.06	14	5.57	3.5	3.82	K02	2	16.2
336.54	16	5.21	3.7	278.85	19	4.31	3.9	5.20	K02	2	16.2
253.39	21	3.92	4.0	209.95	25	3.25	4.3	6.91	K02	2	16.2
229.34	23	3.49	4.2	190.03	28	2.89	4.4	7.63	K02	2	16.2
205.62	26	3.25	4.3	170.37	31	2.69	4.6	8.51	K02	2	16.2
189.19	28	2.93	4.5	156.76	34	2.42	4.8	9.25	K02	2	16.2
168.27	31	2.84	4.6	139.42	38	2.35	5.0	10.40	K02	2	16.2
150.86	35	2.64	4.8	125.00	42	2.19	5.2	11.60	K02	2	16.2
126.70	41	2.35	5.2	104.98	50	1.95	5.2	13.81	K02	2	16.2
113.59	46	2.19	5.2	94.12	56	1.81	5.2	15.41	K02	2	16.2
94.59	56	1.94	5.2	78.38	67	1.60	5.1	18.50	K02	2	16.2
84.81	62	1.78	5.1	70.27	75	1.47	5.0	20.63	K02	2	16.2
73.91	71	1.55	5.1	61.24	86	1.28	4.9	23.68	K02	2	16.2
66.26	79	1.39	5.0	54.90	96	1.15	4.9	26.41	K02	2	16.2
56.95	92	1.19	4.9	47.19	111	0.99	(**)	30.73	K02	2	16.2
51.06	103	1.07	4.7	42.31	124	0.89	(**)	34.27	K02	2	16.2
44.87	117	0.94	(**)	37.18	141	0.78	(**)	39.00	K02	2	16.2
116.98	45	3.56	5.0	96.92	54	2.95	5.0	14.96	K03	3	18
90.35	58	2.75	5.0	74.86	70	2.28	4.9	19.37	K03	3	18
80.77	65	3.08	4.9	66.92	78	2.55	4.8	21.67	K03	3	18
61.05	86	2.32	4.8	50.58	104	1.93	4.6	28.67	K03	3	18
48.74	108	1.86	4.5	40.38	130	1.54	4.2	35.90	K03	3	18
45.10	116	1.72	4.4	37.37	141	1.42	4.1	38.80	K03	3	18
37.65	140	1.43	4.1	31.19	168	1.19	3.5	46.48	K03	3	18
35.09	150	1.34	3.9	29.07	181	1.11	3.2	49.88	K03	3	18
29.91	176	1.14	3.2	24.79	212	0.94	(**)	58.50	K03	3	18
26.67	197	1.02	(**)	22.10	238	0.84	(**)	65.63	K03	3	18
24.33	216	0.93	(**)	20.16	261	0.77	(**)	71.93	K03	3	18
47.89	110	3.65	6.6	39.68	132	3.02	6.6	36.54	K04	3	22
32.30	163	2.46	6.3	26.76	196	2.04	6.0	54.18	K04	3	22
30.39	173	2.31	6.2	25.18	209	1.92	5.9	57.58	K04	3	22
26.43	199	2.01	6.0	21.90	240	1.67	5.4	66.20	K04	3	22
24.00	219	1.83	5.7	19.89	264	1.51	5.0	72.92	K04	3	22
19.97	263	1.52	5.0	16.55	317	1.26	3.8	87.62	K04	3	22
15.37	342	1.17	4.7	12.74	412	0.97	(**)	113.83	K04	3	22
12.58	417	0.96	(**)	10.43	504	0.79	(**)	139.08	K04	3	22
29.04	181	3.32	9.1	24.06	218	2.75	9.1	60.26	K05	3	25
27.44	191	3.13	9.0	22.74	231	2.60	9.0	63.77	K05	3	25
23.95	219	2.74	9.1	19.84	265	2.27	8.8	73.08	K05	3	25
21.75	242	2.32	8.9	18.02	291	1.92	8.6	80.46	K05	3	25
18.21	288	2.08	8.6	15.09	348	1.72	8.0	96.08	K05	3	25
14.11	372	1.61	7.7	11.69	449	1.34	6.6	124.06	K05	3	25
11.57	454	1.32	6.5	9.59	548	1.10	4.3	151.20	K05	3	25
8.99	584	1.03	(**)	7.45	705	0.85	(**)	194.73	K05	3	25
22.60	232	3.53	13.6	18.73	280	2.92	13.6	77.42	K06	3	39
17.50	300	2.73	11.7	14.50	362	2.26	13.3	99.98	K06	3	39
14.36	366	2.24	11.4	11.90	441	1.86	13.0	121.85	K06	3	39
11.15	471	1.74	10.6	9.24	568	1.44	12.2	156.92	K06	3	39
8.84	594	1.38	9.3	7.32	717	1.14	10.9	198.00	K06	3	39

Note: (**) Upon request.

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
458.69	16	4.93	3.3	380.06	19	4.09	3.5	3.82	K02	2	19
336.54	21	3.82	3.7	278.85	26	3.16	3.9	5.20	K02	2	19
253.39	28	2.87	4.1	209.95	34	2.38	4.3	6.91	K02	2	19
229.34	31	2.56	4.2	190.03	38	2.12	4.5	7.63	K02	2	19
205.62	35	2.38	4.4	170.37	42	1.97	4.7	8.51	K02	2	19
189.19	38	2.15	4.5	156.76	46	1.78	4.8	9.25	K02	2	19
168.27	43	2.08	4.7	139.42	51	1.73	5.0	10.40	K02	2	19
150.86	47	1.94	4.9	125.00	57	1.61	5.1	11.60	K02	2	19
126.70	57	1.72	5.2	104.98	68	1.43	5.1	13.81	K02	2	19
113.59	63	1.60	5.1	94.12	76	1.33	5.0	15.41	K02	2	19
94.59	76	1.42	5.0	78.38	91	1.18	4.9	18.50	K02	2	19
84.81	84	1.30	5.0	70.27	102	1.08	4.8	20.63	K02	2	19
73.91	97	1.14	4.8	61.24	117	0.94	(**)	23.68	K02	2	19
66.26	108	1.02	(**)	54.90	130	0.84	(**)	26.41	K02	2	19
56.95	126	0.87	(**)	47.19	152	0.72	(**)	30.73	K02	2	19
146.51	49	3.27	5.0	121.40	59	2.71	5.0	11.94	K03	3	21
136.60	52	3.62	5.0	113.18	63	3.00	5.0	12.81	K03	3	21
116.98	61	2.61	5.0	96.92	74	2.17	4.9	14.96	K03	3	21
106.28	67	2.97	4.9	88.06	81	2.46	4.8	16.47	K03	3	21
90.35	79	2.02	4.8	74.86	96	1.67	4.7	19.37	K03	3	21
80.77	89	2.26	4.7	66.92	107	1.87	4.6	21.67	K03	3	21
61.05	117	1.70	4.4	50.58	142	1.41	4.1	28.67	K03	3	21
48.74	147	1.36	4.0	40.38	177	1.13	3.3	35.90	K03	3	21
45.10	159	1.26	3.7	37.37	192	1.04	2.9	38.80	K03	3	21
37.65	190	1.05	(**)	31.19	230	0.87	(**)	46.48	K03	3	21
35.09	204	0.98	(**)	29.07	246	0.81	(**)	49.88	K03	3	21
117.87	61	3.79	6.5	97.67	73	3.14	6.5	14.85	K04	3	25
62.22	115	3.47	6.5	51.56	139	2.88	6.5	28.13	K04	3	25
58.71	122	3.28	6.5	48.65	147	2.72	6.5	29.81	K04	3	25
47.89	150	2.67	6.5	39.68	180	2.22	6.2	36.54	K04	3	25
39.83	180	2.22	6.2	33.00	217	1.84	5.8	43.93	K04	3	25
32.30	222	1.80	5.7	26.76	268	1.49	5.0	54.18	K04	3	25
30.39	236	1.70	5.5	25.18	284	1.41	4.6	57.58	K04	3	25
26.43	271	1.48	4.9	21.90	327	1.22	3.5	66.20	K04	3	25
24.00	298	1.34	4.3	19.89	360	1.11	2.2	72.92	K04	3	25
19.97	359	1.12	2.2	16.55	433	0.92	(**)	87.62	K04	3	25
15.37	466	0.86	(**)	12.74	562	0.71	(**)	113.83	K04	3	25
43.07	166	3.61	9.2	35.69	201	2.99	9.2	40.63	K05	3	28
41.67	172	3.49	9.2	34.52	207	2.89	9.2	42.00	K05	3	28
35.34	203	2.96	9.2	29.28	245	2.45	8.9	49.52	K05	3	28
29.04	247	2.43	8.9	24.06	298	2.02	8.5	60.26	K05	3	28
27.44	261	2.30	8.8	22.74	315	1.90	8.4	63.77	K05	3	28
23.95	299	2.01	8.5	19.84	361	1.66	7.9	73.08	K05	3	28
21.75	329	1.70	8.2	18.02	397	1.41	7.4	80.46	K05	3	28
18.21	393	1.53	7.4	15.09	475	1.26	6.2	96.08	K05	3	28
14.11	508	1.18	5.4	11.69	613	0.98	(**)	124.06	K05	3	28
11.57	619	0.97	(**)	9.59	747	0.80	(**)	151.20	K05	3	28
34.88	205	3.99	13.5	28.90	248	3.31	13.6	50.17	K06	3	42
29.72	241	3.40	13.5	24.62	291	2.82	13.6	58.89	K06	3	42

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
27.08	264	3.10	13.0	22.44	319	2.57	13.5	64.62	K06	3	42
22.60	317	2.59	11.7	18.73	382	2.14	13.2	77.42	K06	3	42
17.50	409	2.00	11.1	14.50	494	1.66	12.7	99.98	K06	3	42
14.36	499	1.64	10.3	11.90	602	1.36	11.9	121.85	K06	3	42
11.15	642	1.28	8.6	9.24	775	1.06	(**)	156.92	K06	3	42
8.84	810	1.01	(**)	7.32	978	0.84	(**)	198.00	K06	3	42
17.42	411	3.77	19.6	14.44	496	3.12	19.6	100.45	K07	3	62
13.45	533	2.91	19.6	11.14	643	2.41	19.2	130.16	K07	3	62
10.55	679	2.28	19.0	8.74	819	1.89	18.4	165.85	K07	3	62
8.85	809	1.92	18.4	7.33	977	1.59	16.9	197.75	K07	3	62
6.83	1048	1.48	16.8	5.66	1265	1.23	16.0	256.14	K07	3	62

Note: (**) Upon request.

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
458.69	23	3.36	3.3	380.06	28	2.79	3.5	3.82	K02	2	20
336.54	31	2.60	3.7	278.85	38	2.16	3.9	5.20	K02	2	20
253.39	41	1.96	4.1	209.95	50	1.62	4.4	6.91	K02	2	20
229.34	46	1.75	4.2	190.03	55	1.45	4.5	7.63	K02	2	20
205.62	51	1.62	4.4	170.37	62	1.35	4.7	8.51	K02	2	20
189.19	56	1.46	4.5	156.76	67	1.21	4.9	9.25	K02	2	20
168.27	62	1.42	4.7	139.42	75	1.18	5.0	10.40	K02	2	20
150.86	70	1.32	4.9	125.00	84	1.09	5.0	11.60	K02	2	20
126.70	83	1.18	4.7	104.98	100	0.97	(**)	13.81	K02	2	20
113.59	92	1.09	4.5	94.12	112	0.91	(**)	15.41	K02	2	20
94.59	111	0.97	(**)	78.38	134	0.80	(**)	18.50	K02	2	20
84.81	124	0.89	(**)	70.27	149	0.74	(**)	20.63	K02	2	20
255.06	41	3.64	5.0	211.34	50	3.02	4.9	6.86	K03	3	22
193.85	54	2.95	5.0	160.62	65	2.45	4.9	9.03	K03	3	22
146.51	72	2.23	4.9	121.40	87	1.85	4.8	11.94	K03	3	22
136.60	77	2.47	4.9	113.18	93	2.05	4.7	12.81	K03	3	22
116.98	90	1.78	4.8	96.92	108	1.48	4.6	14.96	K03	3	22
106.28	99	2.02	4.7	88.06	119	1.68	4.4	16.47	K03	3	22
90.35	116	1.38	4.5	74.86	140	1.14	4.1	19.37	K03	3	22
80.77	130	1.54	4.3	66.92	157	1.27	3.9	21.67	K03	3	22
61.05	172	1.16	3.5	50.58	208	0.96	(**)	28.67	K03	3	22
48.74	216	0.93	(**)	40.38	260	0.77	(**)	35.90	K03	3	22
45.10	233	0.86	(**)	37.37	281	0.71	(**)	38.80	K03	3	22
190.62	55	3.63	6.9	157.94	67	3.01	6.9	9.18	K04	3	26
156.01	67	3.12	6.9	129.26	81	2.58	6.9	11.22	K04	3	26
124.09	85	3.90	6.9	102.82	102	3.23	6.8	14.10	K04	3	26
117.87	89	2.58	6.8	97.67	108	2.14	6.8	14.85	K04	3	26
100.63	104	3.35	6.7	83.38	126	2.78	6.7	17.39	K04	3	26
82.35	128	2.90	6.6	68.24	154	2.40	6.5	21.25	K04	3	26
62.22	169	2.37	6.3	51.56	204	1.96	6.0	28.13	K04	3	26
58.71	179	2.24	6.2	48.65	216	1.85	5.8	29.81	K04	3	26
47.89	219	1.82	5.8	39.68	265	1.51	5.1	36.54	K04	3	26
39.83	264	1.52	5.1	33.00	318	1.26	4.0	43.93	K04	3	26

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
32.30	325	1.23	3.8	26.76	393	1.02	(**)	54.18	K04	3	26
30.39	346	1.16	3.1	25.18	417	0.96	(**)	57.58	K04	3	26
26.43	397	1.01	(**)	21.90	480	0.83	(**)	66.20	K04	3	26
24.00	438	0.91	(**)	19.89	528	0.76	(**)	72.92	K04	3	26
90.45	116	3.53	9.1	74.95	140	2.93	9.1	19.35	K05	3	29
63.89	164	3.65	9.1	52.94	198	3.02	9.1	27.39	K05	3	29
55.62	189	3.18	9.1	46.09	228	2.63	9.1	31.46	K05	3	29
50.68	207	2.89	9.2	41.99	250	2.40	8.9	34.53	K05	3	29
43.07	244	2.46	9.0	35.69	294	2.04	8.6	40.63	K05	3	29
41.67	252	2.38	8.9	34.52	304	1.97	8.5	42.00	K05	3	29
35.34	297	2.02	8.6	29.28	359	1.67	8.0	49.52	K05	3	29
29.04	362	1.66	7.9	24.06	437	1.37	7.0	60.26	K05	3	29
27.44	383	1.57	7.7	22.74	462	1.30	6.6	63.77	K05	3	29
23.95	439	1.37	6.9	19.84	529	1.13	5.2	73.08	K05	3	29
21.75	483	1.16	6.2	18.02	583	0.96	(**)	80.46	K05	3	29
18.21	577	1.04	(**)	15.09	696	0.86	(**)	96.08	K05	3	29
43.93	239	3.43	13.6	36.40	289	2.84	13.6	39.83	K06	3	43
42.51	247	3.32	13.6	35.22	298	2.75	13.6	41.17	K06	3	43
36.04	292	2.81	11.8	29.86	352	2.33	13.4	48.56	K06	3	43
34.88	301	2.72	11.8	28.90	363	2.26	13.4	50.17	K06	3	43
29.72	354	2.32	11.5	24.62	427	1.92	13.1	58.89	K06	3	43
27.08	388	2.11	11.3	22.44	468	1.75	12.9	64.62	K06	3	43
22.60	465	1.76	10.7	18.73	561	1.46	12.3	77.42	K06	3	43
17.50	600	1.37	9.4	14.50	724	1.13	11.0	99.98	K06	3	43
14.36	731	1.12	9.0	11.90	883	0.93	(**)	121.85	K06	3	43
11.15	942	0.87	(**)	9.24	1137	0.72	(**)	156.92	K06	3	43
27.06	388	3.99	19.4	22.42	468	3.31	19.4	64.67	K07	3	63
24.76	424	3.65	19.4	20.52	512	3.03	19.4	70.67	K07	3	63
22.70	463	3.35	19.4	18.81	559	2.77	19.4	77.11	K07	3	63
21.06	499	3.11	19.4	17.45	602	2.57	19.4	83.09	K07	3	63
17.42	603	2.57	19.4	14.44	728	2.13	18.9	100.45	K07	3	63
13.45	781	1.98	18.6	11.14	943	1.64	17.7	130.16	K07	3	63
10.55	996	1.56	17.3	8.74	1202	1.29	17.5	165.85	K07	3	63
8.85	1187	1.31	15.8	7.33	1433	1.08	(**)	197.75	K07	3	63
6.83	1538	1.01	(**)	5.66	1856	0.84	(**)	256.14	K07	3	63
13.90	756	3.97	20.5	11.52	912	3.29	20.5	125.90	K08	3	102
12.29	855	3.51	20.5	10.18	1032	2.91	20.5	142.45	K08	3	102
10.73	979	3.06	20.5	8.89	1182	2.54	20.5	163.14	K08	3	102

Note: (**) Upon request.

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
458.69	31	2.47	3.3	380.06	38	2.04	3.6	3.82	K02	2	23
336.54	43	1.91	3.7	278.85	51	1.58	4.0	5.20	K02	2	23
253.39	57	1.44	4.1	209.95	68	1.19	4.4	6.91	K02	2	23
229.34	62	1.28	4.3	190.03	75	1.06	4.6	7.63	K02	2	23
205.62	70	1.19	4.5	170.37	84	0.99	(**)	8.51	K02	2	23
189.19	76	1.07	4.3	156.76	91	0.89	(**)	9.25	K02	2	23

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
168.27	85	1.04	(**)	139.42	103	0.86	(**)	10.40	K02	2	23
150.86	95	0.97	(**)	125.00	115	0.80	(**)	11.60	K02	2	23
126.70	113	0.86	(**)	104.98	136	0.71	(**)	13.81	K02	2	23
327.83	44	3.20	5.0	271.63	53	2.65	5.0	5.34	K03	3	25
255.06	56	2.67	5.0	211.34	68	2.21	4.9	6.86	K03	3	25
193.85	74	2.17	4.9	160.62	89	1.79	4.8	9.03	K03	3	25
146.51	98	1.64	4.7	121.40	118	1.36	4.5	11.94	K03	3	25
136.60	105	1.81	4.6	113.18	127	1.50	4.3	12.81	K03	3	25
116.98	122	1.31	4.4	96.92	148	1.08	4.0	14.96	K03	3	25
106.28	135	1.48	4.2	88.06	163	1.23	3.7	16.47	K03	3	25
90.35	159	1.01	(**)	74.86	191	0.84	(**)	19.37	K03	3	25
80.77	177	1.13	4.2	66.92	214	0.93	(**)	21.67	K03	3	25
61.05	235	0.85	(**)	50.58	283	0.71	(**)	28.67	K03	3	25
280.81	51	3.53	6.9	232.67	62	2.92	6.9	6.23	K04	3	29
235.07	61	3.12	6.9	194.78	74	2.58	6.9	7.44	K04	3	29
190.62	75	2.66	6.9	157.94	91	2.21	6.8	9.18	K04	3	29
182.90	78	3.83	6.9	151.55	95	3.17	6.8	9.57	K04	3	29
156.01	92	2.29	6.8	129.26	111	1.89	6.7	11.22	K04	3	29
148.24	97	3.21	6.7	122.82	117	2.66	6.7	11.81	K04	3	29
124.09	115	2.86	6.7	102.82	139	2.37	6.6	14.10	K04	3	29
117.87	122	1.89	6.7	97.67	147	1.57	6.5	14.85	K04	3	29
100.63	142	2.46	6.5	83.38	172	2.04	6.3	17.39	K04	3	29
82.35	174	2.13	6.3	68.24	210	1.76	5.9	21.25	K04	3	29
62.22	230	1.74	5.6	51.56	278	1.44	4.9	28.13	K04	3	29
58.71	244	1.64	5.4	48.65	294	1.36	4.6	29.81	K04	3	29
47.89	299	1.34	4.4	39.68	361	1.11	2.5	36.54	K04	3	29
39.83	360	1.11	4.2	33.00	434	0.92	(**)	43.93	K04	3	29
32.30	444	0.90	(**)	26.76	535	0.75	(**)	54.18	K04	3	29
116.80	123	3.34	9.5	96.78	148	2.77	9.5	14.98	K05	3	32
90.45	158	2.59	9.4	74.95	191	2.15	9.3	19.35	K05	3	32
73.12	196	3.06	9.2	60.59	236	2.54	9.0	23.93	K05	3	32
63.89	224	2.68	9.1	52.94	271	2.22	8.8	27.39	K05	3	32
55.62	258	2.33	8.9	46.09	311	1.93	8.5	31.46	K05	3	32
50.68	283	2.12	8.7	41.99	341	1.76	8.2	34.53	K05	3	32
43.07	333	1.80	8.2	35.69	401	1.49	7.5	40.63	K05	3	32
41.67	344	1.75	8.1	34.52	415	1.45	7.3	42.00	K05	3	32
35.34	405	1.48	7.4	29.28	489	1.23	6.1	49.52	K05	3	32
29.04	493	1.22	5.9	24.06	595	1.01	3.0	60.26	K05	3	32
27.44	522	1.15	5.3	22.74	630	0.95	(**)	63.77	K05	3	32
23.95	598	1.00	(**)	19.84	722	0.83	(**)	73.08	K05	3	32
21.75	659	0.85	(**)	18.02	795	0.70	(**)	80.46	K05	3	32
100.90	142	3.52	13.9	83.61	171	2.92	13.9	17.34	K06	3	46
62.88	228	3.42	13.7	52.10	275	2.84	13.7	27.83	K06	3	46
54.89	261	3.14	13.5	45.48	315	2.60	13.5	31.88	K06	3	46
51.70	277	2.96	11.9	42.84	334	2.45	13.5	33.85	K06	3	46
43.93	326	2.51	11.6	36.40	394	2.08	13.2	39.83	K06	3	46
42.51	337	2.43	11.6	35.22	407	2.02	13.2	41.17	K06	3	46
36.04	398	2.06	11.2	29.86	480	1.71	12.8	48.56	K06	3	46

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
34.88	411	2.00	11.1	28.90	496	1.65	12.7	50.17	K06	3	46
29.72	482	1.70	10.6	24.62	582	1.41	12.2	58.89	K06	3	46
27.08	529	1.55	10.1	22.44	638	1.28	11.7	64.62	K06	3	46
22.60	634	1.29	8.9	18.73	765	1.07	10.6	77.42	K06	3	46
17.50	818	1.00	(**)	14.50	988	0.83	(**)	99.98	K06	3	46
34.48	415	3.73	17.0	28.57	501	3.09	17.0	50.75	K07	3	66
33.83	423	3.66	17.0	28.03	511	3.03	17.0	51.72	K07	3	66
28.57	501	3.09	17.0	23.67	605	2.56	17.0	61.25	K07	3	66
27.06	529	2.93	17.0	22.42	639	2.43	17.0	64.67	K07	3	66
24.76	579	2.68	17.0	20.52	698	2.22	17.0	70.67	K07	3	66
22.70	631	2.46	17.0	18.81	762	2.03	17.0	77.11	K07	3	66
21.06	680	2.28	17.0	17.45	821	1.89	17.0	83.09	K07	3	66
17.42	822	1.89	17.0	14.44	992	1.56	17.0	100.45	K07	3	66
13.45	1065	1.45	17.0	11.14	1286	1.21	17.0	130.16	K07	3	66
10.55	1358	1.14	17.0	8.74	1638	0.95	(**)	165.85	K07	3	66
8.85	1619	0.96	(**)	7.33	1954	0.79	(**)	197.75	K07	3	66
16.44	871	3.44	20.5	13.62	1052	2.85	20.5	106.46	K08	3	108
13.90	1031	2.91	20.5	11.52	1244	2.41	20.5	125.90	K08	3	108
12.29	1166	2.57	20.5	10.18	1407	2.13	20.5	142.45	K08	3	108
10.73	1335	2.25	20.5	8.89	1612	1.86	20.5	163.14	K08	3	108
12.23	1171	3.84	29.0	10.13	1414	3.18	29.0	143.08	K09	3	156
10.34	1385	3.25	29.0	8.57	1672	2.69	29.0	169.25	K09	3	156

Note: (**) Upon request.

PN = 2.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
458.69	46	1.68	3.0	380.06	55	1.39	3.0	3.82	K02	2	27
336.54	62	1.30	3.0	278.85	75	1.08	3.0	5.20	K02	2	27
253.39	83	0.98	(**)	209.95	100	0.81	(**)	6.91	K02	2	27
229.34	92	0.87	(**)	190.03	111	0.72	(**)	7.63	K02	2	27
327.83	64	2.18	4.8	271.63	77	1.81	4.9	5.34	K03	3	29
255.06	82	1.82	4.8	211.34	99	1.51	4.7	6.86	K03	3	29
193.85	108	1.48	4.6	160.62	131	1.22	4.3	9.03	K03	3	29
146.51	143	1.12	(**)	121.40	173	0.92	(**)	11.94	K03	3	29
136.60	154	1.24	3.9	113.18	186	1.02	(**)	12.81	K03	3	29
116.98	180	0.89	(**)	96.92	217	0.74	(**)	14.96	K03	3	29
106.28	198	1.01	(**)	88.06	239	0.84	(**)	16.47	K03	3	29
346.49	61	2.80	6.4	287.09	73	2.32	6.9	5.05	K04	3	32
280.81	75	2.41	6.9	232.67	90	1.99	6.8	6.23	K04	3	32
235.07	89	2.13	6.8	194.78	108	1.76	6.7	7.44	K04	3	32
190.62	110	1.81	6.7	157.94	133	1.50	6.6	9.18	K04	3	32
182.90	115	2.61	6.7	151.55	139	2.16	6.6	9.57	K04	3	32
156.01	135	1.56	6.6	129.26	163	1.29	6.4	11.22	K04	3	32
148.24	142	2.19	6.5	122.82	171	1.81	6.3	11.81	K04	3	32
124.09	169	1.95	6.3	102.82	204	1.61	5.9	14.10	K04	3	32
117.87	178	1.29	6.2	97.67	215	1.07	5.8	14.85	K04	3	32
100.63	209	1.68	5.9	83.38	252	1.39	5.3	17.39	K04	3	32

PN = 2.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
82.35	255	1.45	5.2	68.24	308	1.20	4.2	21.25	K04	3	32
62.22	338	1.18	3.2	51.56	408	0.98	(**)	28.13	K04	3	32
58.71	358	1.12	3.1	48.65	432	0.93	(**)	29.81	K04	3	32
47.89	439	0.91	(**)	39.68	529	0.76	(**)	36.54	K04	3	32
186.22	113	3.63	9.2	154.30	136	3.01	9.2	9.40	K05	3	35
127.23	165	3.63	9.2	105.42	199	3.01	9.2	13.75	K05	3	35
116.80	180	2.28	9.3	96.78	217	1.89	9.1	14.98	K05	3	35
108.11	194	3.09	9.0	89.57	235	2.56	9.0	16.19	K05	3	35
90.45	232	1.77	9.0	74.95	280	1.46	8.7	19.35	K05	3	35
73.12	287	2.09	8.6	60.59	347	1.73	8.1	23.93	K05	3	35
63.89	329	1.82	8.2	52.94	397	1.51	8.0	27.39	K05	3	35
55.62	378	1.59	7.7	46.09	456	1.32	6.6	31.46	K05	3	35
50.68	415	1.45	7.2	41.99	500	1.20	5.7	34.53	K05	3	35
43.07	488	1.23	5.9	35.69	589	1.02	(**)	40.63	K05	3	35
41.67	504	1.19	5.6	34.52	609	0.99	(**)	42.00	K05	3	35
35.34	594	1.01	(**)	29.28	717	0.84	(**)	49.52	K05	3	35
160.87	131	3.83	11.0	133.30	158	3.17	11.0	10.88	K06	3	49
132.65	158	3.16	11.0	109.91	191	2.62	11.0	13.19	K06	3	49
106.69	197	3.81	11.0	88.40	238	3.16	11.0	16.40	K06	3	49
100.90	208	2.40	11.0	83.61	251	1.99	11.0	17.34	K06	3	49
87.52	240	3.33	11.0	72.51	290	2.76	11.0	20.00	K06	3	49
79.28	265	2.75	11.0	65.69	320	2.28	11.0	22.07	K06	3	49
72.17	291	2.82	11.0	59.79	351	2.33	11.0	24.25	K06	3	49
62.88	334	2.33	11.0	52.10	403	1.93	11.0	27.83	K06	3	49
54.89	383	2.14	11.0	45.48	462	1.78	11.0	31.88	K06	3	49
51.70	406	2.02	11.0	42.84	490	1.67	11.0	33.85	K06	3	49
43.93	478	1.71	11.0	36.40	577	1.42	11.0	39.83	K06	3	49
42.51	494	1.66	11.0	35.22	596	1.37	11.0	41.17	K06	3	49
36.04	583	1.41	11.0	29.86	704	1.17	11.0	48.56	K06	3	49
34.88	602	1.36	11.0	28.90	727	1.13	11.0	50.17	K06	3	49
29.72	707	1.16	11.0	24.62	853	0.96	(**)	58.89	K06	3	49
27.08	776	1.06	(**)	22.44	936	0.88	(**)	64.62	K06	3	49
22.60	930	0.88	(**)	18.73	1122	0.73	(**)	77.42	K06	3	49
54.02	389	3.99	17.0	44.76	469	3.30	17.0	32.40	K07	3	69
44.68	470	3.30	17.0	37.02	568	2.73	17.0	39.17	K07	3	69
41.07	512	3.03	17.0	34.03	617	2.51	17.0	42.61	K07	3	69
34.48	609	2.54	17.0	28.57	735	2.11	17.0	50.75	K07	3	69
33.83	621	2.50	17.0	28.03	749	2.07	17.0	51.72	K07	3	69
28.57	735	2.11	17.0	23.67	887	1.75	17.0	61.25	K07	3	69
27.06	776	2.00	17.0	22.42	937	1.65	17.0	64.67	K07	3	69
24.76	848	1.83	17.0	20.52	1024	1.51	17.0	70.67	K07	3	69
22.70	926	1.67	17.0	18.81	1117	1.39	17.0	77.11	K07	3	69
21.06	998	1.55	17.0	17.45	1204	1.29	17.0	83.09	K07	3	69
17.42	1206	1.29	17.0	14.44	1455	1.06	(**)	100.45	K07	3	69
13.45	1563	0.99	(**)	11.14	1886	0.82	(**)	130.16	K07	3	69
48.62	432	3.77	20.5	40.28	522	3.13	20.5	35.99	K08	3	110
27.72	758	3.77	20.5	22.97	915	3.13	20.5	63.12	K08	3	110
25.57	822	3.65	20.5	21.19	992	3.02	20.5	68.44	K08	3	110
21.91	959	3.13	20.5	18.15	1158	2.59	20.5	79.89	K08	3	110

PN = 2.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
19.12	1099	2.73	20.5	15.84	1326	2.26	20.5	91.51	K08	3	110
16.44	1278	2.35	20.5	13.62	1543	1.94	20.5	106.46	K08	3	110
13.90	1511	1.98	20.5	11.52	1824	1.64	20.5	125.90	K08	3	110
12.29	1710	1.75	20.5	10.18	2064	1.45	20.5	142.45	K08	3	110
10.73	1959	1.53	20.5	8.89	2364	1.27	20.5	163.14	K08	3	110
18.44	1139	3.95	29.0	15.28	1375	3.27	29.0	94.90	K09	3	158
15.95	1317	3.42	29.0	13.22	1589	2.83	29.0	109.70	K09	3	158
14.13	1487	3.03	29.0	11.71	1795	2.51	29.0	123.86	K09	3	158
12.23	1718	2.62	29.0	10.13	2073	2.17	29.0	143.08	K09	3	158
10.34	2032	2.21	29.0	8.57	2452	1.83	29.0	169.25	K09	3	158

Note: (**) Upon request.

PN = 3.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
327.83	87	1.60	4.8	271.63	105	1.33	4.6	5.34	K03	3	39
255.06	112	1.34	4.5	211.34	136	1.11	4.2	6.86	K03	3	39
193.85	148	1.08	(**)	160.62	178	0.90	(**)	9.03	K03	3	39
136.60	210	0.91	(**)	113.18	253	0.75	(**)	12.81	K03	3	39
346.49	83	2.06	6.6	287.09	100	1.70	6.8	5.05	K04	3	43
280.81	102	1.76	6.8	232.67	123	1.46	6.7	6.23	K04	3	43
235.07	122	1.56	6.7	194.78	147	1.29	6.5	7.44	K04	3	43
190.62	150	1.33	6.5	157.94	181	1.10	6.2	9.18	K04	3	43
182.90	157	1.92	6.4	151.55	189	1.59	6.1	9.57	K04	3	43
156.01	184	1.14	6.2	129.26	222	0.95	(**)	11.22	K04	3	43
148.24	193	1.60	6.1	122.82	233	1.33	5.6	11.81	K04	3	43
124.09	231	1.43	5.6	102.82	279	1.18	4.8	14.10	K04	3	43
117.87	243	0.95	(**)	97.67	293	0.78	(**)	14.85	K04	3	43
100.63	285	1.23	4.7	83.38	344	1.02	(**)	17.39	K04	3	43
82.35	348	1.06	(**)	68.24	420	0.88	(**)	21.25	K04	3	43
62.22	460	0.87	(**)	51.56	556	0.72	(**)	28.13	K04	3	43
267.19	107	3.82	9.4	221.38	129	3.17	9.4	6.55	K05	3	46
227.02	126	3.25	9.4	188.10	152	2.69	9.4	7.71	K05	3	46
195.09	147	3.68	9.3	161.65	177	3.05	9.3	8.97	K05	3	46
186.22	154	2.66	9.4	154.30	186	2.21	9.3	9.40	K05	3	46
154.74	185	3.13	9.1	128.21	223	2.60	9.1	11.31	K05	3	46
127.23	225	2.66	9.1	105.42	272	2.21	8.8	13.75	K05	3	46
116.80	245	1.67	8.9	96.78	296	1.38	8.6	14.98	K05	3	46
108.11	265	2.26	8.8	89.57	320	1.88	8.4	16.19	K05	3	46
90.45	317	1.29	8.4	74.95	382	1.07	7.7	19.35	K05	3	46
73.12	392	1.53	7.5	60.59	473	1.27	6.3	23.93	K05	3	46
63.89	448	1.34	6.7	52.94	541	1.11	4.8	27.39	K05	3	46
55.62	515	1.16	5.4	46.09	622	0.97	(**)	31.46	K05	3	46
50.68	565	1.06	(**)	41.99	682	0.88	(**)	34.53	K05	3	46
43.07	665	0.90	(**)	35.69	803	0.75	(**)	40.63	K05	3	46
41.67	688	0.87	(**)	34.52	830	0.72	(**)	42.00	K05	3	46
196.12	146	3.43	11.0	162.50	176	2.84	11.0	8.92	K06	3	60
160.87	178	2.81	11.0	133.30	215	2.33	11.0	10.88	K06	3	60
152.72	188	3.62	11.0	126.54	226	3.00	11.0	11.46	K06	3	60

PN = 3.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
132.65	216	2.32	11.0	109.91	261	1.92	11.0	13.19	K06	3	60
125.57	228	3.16	11.0	104.04	275	2.61	11.0	13.94	K06	3	60
106.69	269	2.79	11.0	88.40	324	2.31	11.0	16.40	K06	3	60
100.90	284	1.76	11.0	83.61	343	1.46	11.0	17.34	K06	3	60
87.52	327	2.44	11.0	72.51	395	2.02	11.0	20.00	K06	3	60
79.28	361	2.02	11.0	65.69	436	1.67	11.0	22.07	K06	3	60
72.17	397	2.07	11.0	59.79	479	1.71	11.0	24.25	K06	3	60
62.88	456	1.71	11.0	52.10	550	1.42	11.0	27.83	K06	3	60
54.89	522	1.57	11.0	45.48	630	1.30	11.0	31.88	K06	3	60
51.70	554	1.48	11.0	42.84	669	1.23	11.0	33.85	K06	3	60
43.93	652	1.26	11.0	36.40	787	1.04	(**)	39.83	K06	3	60
42.51	674	1.22	11.0	35.22	813	1.01	(**)	41.17	K06	3	60
36.04	795	1.03	(**)	29.86	960	0.85	(**)	48.56	K06	3	60
34.88	821	1.00	(**)	28.90	991	0.83	(**)	50.17	K06	3	60
29.72	964	0.85	(**)	24.62	1164	0.70	(**)	58.89	K06	3	60
113.44	253	3.60	17.0	93.99	305	2.98	17.0	15.43	K07	3	80
93.83	305	2.98	17.0	77.74	369	2.47	17.0	18.65	K07	3	80
73.28	391	3.96	17.0	60.71	472	3.28	17.0	23.88	K07	3	80
63.51	451	3.44	17.0	52.62	544	2.85	17.0	27.56	K07	3	80
54.02	530	2.92	17.0	44.76	640	2.42	17.0	32.40	K07	3	80
44.68	641	2.42	17.0	37.02	774	2.00	17.0	39.17	K07	3	80
41.07	698	2.22	17.0	34.03	842	1.84	17.0	42.61	K07	3	80
34.48	831	1.87	17.0	28.57	1003	1.55	17.0	50.75	K07	3	80
33.83	847	1.83	17.0	28.03	1022	1.52	17.0	51.72	K07	3	80
28.57	1003	1.55	17.0	23.67	1210	1.28	17.0	61.25	K07	3	80
27.06	1059	1.46	17.0	22.42	1278	1.21	17.0	64.67	K07	3	80
24.76	1157	1.34	17.0	20.52	1396	1.11	17.0	70.67	K07	3	80
22.70	1262	1.23	17.0	18.81	1524	1.02	(**)	77.11	K07	3	80
21.06	1360	1.14	17.0	17.45	1642	0.94	(**)	83.09	K07	3	80
17.42	1645	0.94	(**)	14.44	1985	0.78	(**)	100.45	K07	3	80
55.68	515	3.72	20.5	46.14	621	3.09	20.5	31.43	K08	3	118
35.93	797	3.76	20.5	29.77	962	3.12	20.5	48.71	K08	3	118
31.75	902	3.32	20.5	26.31	1089	2.75	20.5	55.11	K08	3	118
25.57	1121	2.68	20.5	21.19	1352	2.22	20.5	68.44	K08	3	118
21.91	1308	2.29	20.5	18.15	1578	1.90	20.5	79.89	K08	3	118
19.12	1498	2.00	20.5	15.84	1808	1.66	20.5	91.51	K08	3	118
16.44	1743	1.72	20.5	13.62	2104	1.43	20.5	106.46	K08	3	118
13.90	2061	1.46	20.5	11.52	2488	1.21	20.5	125.90	K08	3	118
12.29	2332	1.29	20.5	10.18	2815	1.07	20.5	142.45	K08	3	118
18.44	1554	2.90	29.0	15.28	1875	2.40	29.0	94.90	K09	3	166
15.95	1796	2.51	29.0	13.22	2167	2.08	29.0	109.70	K09	3	166
14.13	2028	2.22	29.0	11.71	2447	1.84	29.0	123.86	K09	3	166
12.23	2342	1.92	29.0	10.13	2827	1.59	29.0	143.08	K09	3	166
10.34	2771	1.62	29.0	8.57	3344	1.35	29.0	169.25	K09	3	166

Note: (**) Upon request.

PN = 3.70 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
327.83	108	1.30	4.0	271.63	130	1.08	(**)	5.34	K03	3	40
255.06	139	1.08	(**)	211.34	167	0.90	(**)	6.86	K03	3	40
193.85	182	0.88	(**)	160.62	220	0.73	(**)	9.03	K03	3	40
346.49	102	1.67	4.2	287.09	123	1.38	4.2	5.05	K04	3	44
280.81	126	1.43	4.2	232.67	152	1.19	4.2	6.23	K04	3	44
235.07	150	1.26	4.2	194.78	181	1.05	(**)	7.44	K04	3	44
190.62	185	1.08	4.2	157.94	224	0.89	(**)	9.18	K04	3	44
182.90	193	1.55	4.2	151.55	233	1.29	4.2	9.57	K04	3	44
156.01	226	0.93	(**)	129.26	273	0.77	(**)	11.22	K04	3	44
148.24	238	1.30	4.2	122.82	288	1.08	(**)	11.81	K04	3	44
124.09	285	1.16	4.2	102.82	344	0.96	(**)	14.10	K04	3	44
100.63	351	1.00	(**)	83.38	424	0.83	(**)	17.39	K04	3	44
82.35	429	0.86	(**)	68.24	518	0.71	(**)	21.25	K04	3	44
324.96	109	3.77	9.4	269.25	131	3.12	9.4	5.39	K05	3	46
267.19	132	3.10	9.4	221.38	160	2.57	9.4	6.55	K05	3	46
227.02	156	2.63	9.4	188.10	188	2.18	9.4	7.71	K05	3	46
195.09	181	2.98	9.3	161.65	219	2.47	9.4	8.97	K05	3	46
186.22	190	2.16	9.3	154.30	229	1.79	9.1	9.40	K05	3	46
154.74	228	2.54	9.1	128.21	276	2.10	9.1	11.31	K05	3	46
127.23	278	2.16	8.7	105.42	335	1.79	9.0	13.75	K05	3	46
116.80	303	1.36	8.5	96.78	365	1.12	8.5	14.98	K05	3	46
108.11	327	1.84	8.3	89.57	394	1.52	8.3	16.19	K05	3	46
90.45	391	1.05	(**)	74.95	471	0.87	(**)	19.35	K05	3	46
73.12	483	1.24	6.1	60.59	583	1.03	(**)	23.93	K05	3	46
63.89	553	1.08	5.9	52.94	667	0.90	(**)	27.39	K05	3	46
55.62	635	0.94	(**)	46.09	767	0.78	(**)	31.46	K05	3	46
50.68	697	0.86	(**)	41.99	842	0.71	(**)	34.53	K05	3	46
280.73	126	3.98	11.0	232.60	152	3.29	11.0	6.23	K06	3	60
230.82	153	3.27	11.0	191.25	185	2.71	11.0	7.58	K06	3	60
196.12	180	2.78	11.0	162.50	217	2.30	11.0	8.92	K06	3	60
192.54	184	3.49	11.0	159.53	221	2.89	11.0	9.09	K06	3	60
160.87	220	2.28	11.0	133.30	265	1.89	11.0	10.88	K06	3	60
152.72	231	2.94	11.0	126.54	279	2.44	11.0	11.46	K06	3	60
132.65	266	1.88	11.0	109.91	321	1.56	11.0	13.19	K06	3	60
125.57	281	2.56	11.0	104.04	340	2.12	11.0	13.94	K06	3	60
106.69	331	2.26	11.0	88.40	400	1.88	11.0	16.40	K06	3	60
100.90	350	1.43	11.0	83.61	423	1.18	11.0	17.34	K06	3	60
87.52	404	1.98	11.0	72.51	487	1.64	11.0	20.00	K06	3	60
79.28	446	1.64	11.0	65.69	538	1.36	11.0	22.07	K06	3	60
72.17	490	1.67	11.0	59.79	591	1.39	11.0	24.25	K06	3	60
62.88	562	1.39	11.0	52.10	678	1.15	11.0	27.83	K06	3	60
54.89	644	1.27	11.0	45.48	777	1.06	(**)	31.88	K06	3	60
51.70	683	1.20	11.0	42.84	825	0.99	(**)	33.85	K06	3	60
43.93	804	1.02	(**)	36.40	971	0.84	(**)	39.83	K06	3	60
42.51	831	0.99	(**)	35.22	1003	0.82	(**)	41.17	K06	3	60
153.88	230	3.96	17.0	127.50	277	3.28	17.0	11.37	K07	3	80
133.36	265	3.43	17.0	110.50	320	2.85	17.0	13.12	K07	3	80
113.44	311	2.92	17.0	93.99	376	2.42	17.0	15.43	K07	3	80
93.83	377	2.42	17.0	77.74	455	2.00	17.0	18.65	K07	3	80

PN = 3.70 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
86.77	407	3.81	17.0	71.90	491	3.15	17.0	20.17	K07	3	80
73.28	482	3.21	17.0	60.71	582	2.66	17.0	23.88	K07	3	80
63.51	556	2.79	17.0	52.62	672	2.31	17.0	27.56	K07	3	80
54.02	654	2.37	17.0	44.76	789	1.96	17.0	32.40	K07	3	80
44.68	791	1.96	17.0	37.02	954	1.62	17.0	39.17	K07	3	80
41.07	860	1.80	17.0	34.03	1038	1.49	17.0	42.61	K07	3	80
34.48	1025	1.51	17.0	28.57	1237	1.25	17.0	50.75	K07	3	80
33.83	1044	1.48	17.0	28.03	1260	1.23	17.0	51.72	K07	3	80
28.57	1237	1.25	17.0	23.67	1493	1.04	(**)	61.25	K07	3	80
27.06	1306	1.19	17.0	22.42	1576	0.98	(**)	64.67	K07	3	80
24.76	1427	1.09	17.0	20.52	1722	0.90	(**)	70.67	K07	3	80
22.70	1557	1.00	(**)	18.81	1879	0.82	(**)	77.11	K07	3	80
21.06	1678	0.92	(**)	17.45	2025	0.77	(**)	83.09	K07	3	80
63.00	561	3.39	20.5	52.20	677	2.81	20.5	27.78	K08	3	123
55.68	635	3.02	20.5	46.14	766	2.50	20.5	31.43	K08	3	123
42.49	832	3.61	20.5	35.20	1004	2.99	20.5	41.19	K08	3	123
35.93	984	3.05	20.5	29.77	1187	2.53	20.5	48.71	K08	3	123
31.75	1113	2.70	20.5	26.31	1343	2.23	20.5	55.11	K08	3	123
25.57	1382	2.17	20.5	21.19	1668	1.80	20.5	68.44	K08	3	123
21.91	1613	1.86	20.5	18.15	1947	1.54	20.5	79.89	K08	3	123
19.12	1848	1.62	20.5	15.84	2230	1.35	20.5	91.51	K08	3	123
16.44	2150	1.40	20.5	13.62	2594	1.16	20.5	106.46	K08	3	123
13.90	2542	1.18	20.5	11.52	3068	0.98	(**)	125.90	K08	3	123
12.29	2876	1.04	(**)	10.18	3471	0.86	(**)	142.45	K08	3	123
47.13	750	3.71	29.0	39.05	905	3.08	29.0	37.13	K09	3	171
27.36	1291	3.48	29.0	22.67	1559	2.89	29.0	63.96	K09	3	171
18.44	1916	2.35	29.0	15.28	2313	1.95	29.0	94.90	K09	3	171
15.95	2215	2.03	29.0	13.22	2673	1.68	29.0	109.70	K09	3	171
14.13	2501	1.80	29.0	11.71	3018	1.49	29.0	123.86	K09	3	171
12.23	2889	1.56	29.0	10.13	3487	1.29	29.0	143.08	K09	3	171
10.34	3417	1.32	29.0	8.57	4124	1.09	29.0	169.25	K09	3	171

Note: (**) Upon request.

PN = 4.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
346.49	124	1.37	4.2	287.09	150	1.14	4.2	5.05	K04	3	48
280.81	153	1.18	4.2	232.67	185	0.97	(**)	6.23	K04	3	48
235.07	183	1.04	(**)	194.78	221	0.86	(**)	7.44	K04	3	48
190.62	225	0.89	(**)	157.94	272	0.74	(**)	9.18	K04	3	48
182.90	235	1.28	4.2	151.55	284	1.06	(**)	9.57	K04	3	48
148.24	290	1.07	(**)	122.82	350	0.89	(**)	11.81	K04	3	48
124.09	346	0.95	(**)	102.82	418	0.79	(**)	14.10	K04	3	48
409.69	105	3.62	9.3	339.46	127	3.00	9.3	4.27	K05	3	51
324.96	132	3.10	9.3	269.25	160	2.57	9.3	5.39	K05	3	51
267.19	161	2.55	9.3	221.38	194	2.11	9.3	6.55	K05	3	51
227.02	189	2.17	9.3	188.10	228	1.79	9.3	7.71	K05	3	51
195.09	220	2.45	9.1	161.65	266	2.03	9.0	8.97	K05	3	51
186.22	231	1.78	9.1	154.30	279	1.47	9.0	9.40	K05	3	51
154.74	278	2.09	8.7	128.21	335	1.73	8.5	11.31	K05	3	51

PN = 4.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
127.23	338	1.78	8.2	105.42	408	1.47	8.0	13.75	K05	3	51
116.80	368	1.11	8.0	96.78	444	0.92	(**)	14.98	K05	3	51
108.11	398	1.51	8.1	89.57	480	1.25	7.5	16.19	K05	3	51
90.45	475	0.86	(**)	74.95	573	0.72	(**)	19.35	K05	3	51
73.12	588	1.02	(**)	60.59	709	0.85	(**)	23.93	K05	3	51
63.89	673	0.89	(**)	52.94	812	0.74	(**)	27.39	K05	3	51
353.92	121	3.87	11.0	293.25	147	3.21	11.0	4.94	K06	3	72
280.73	153	3.27	11.0	232.60	185	2.71	11.0	6.23	K06	3	72
230.82	186	2.69	11.0	191.25	225	2.23	11.0	7.58	K06	3	72
196.12	219	2.28	11.0	162.50	264	1.89	11.0	8.92	K06	3	72
192.54	223	2.87	11.0	159.53	269	2.38	11.0	9.09	K06	3	72
160.87	267	1.87	11.0	133.30	322	1.55	11.0	10.88	K06	3	72
152.72	281	2.42	11.0	126.54	340	2.00	11.0	11.46	K06	3	72
132.65	324	1.54	11.0	109.91	391	1.28	11.0	13.19	K06	3	72
125.57	342	2.10	11.0	104.04	413	1.74	11.0	13.94	K06	3	72
106.69	403	1.86	11.0	88.40	486	1.54	11.0	16.40	K06	3	72
87.52	491	1.63	11.0	72.51	593	1.35	11.0	20.00	K06	3	72
79.28	542	1.35	11.0	65.69	654	1.12	11.0	22.07	K06	3	72
72.17	596	1.38	11.0	59.79	719	1.14	11.0	24.25	K06	3	72
62.88	683	1.14	11.0	52.10	825	0.95	(**)	27.83	K06	3	72
51.70	831	0.99	(**)	42.84	1003	0.82	(**)	33.85	K06	3	72
182.23	236	3.86	17.0	150.99	285	3.20	17.0	9.60	K07	3	92
153.88	279	3.26	17.0	127.50	337	2.70	17.0	11.37	K07	3	92
133.36	322	2.82	17.0	110.50	389	2.34	17.0	13.12	K07	3	92
113.44	379	2.40	17.0	93.99	457	1.99	17.0	15.43	K07	3	92
105.33	408	3.80	17.0	87.28	492	3.15	17.0	16.61	K07	3	92
93.83	458	1.99	17.0	77.74	553	1.65	17.0	18.65	K07	3	92
86.77	495	3.13	17.0	71.90	598	2.59	17.0	20.17	K07	3	92
73.28	586	2.64	17.0	60.71	708	2.19	17.0	23.88	K07	3	92
63.51	677	2.29	17.0	52.62	817	1.90	17.0	27.56	K07	3	92
54.02	796	1.95	17.0	44.76	960	1.61	17.0	32.40	K07	3	92
44.68	962	1.61	17.0	37.02	1161	1.34	17.0	39.17	K07	3	92
41.07	1046	1.48	17.0	34.03	1263	1.23	17.0	42.61	K07	3	92
33.83	1270	1.22	17.0	28.03	1533	1.01	(**)	51.72	K07	3	92
28.57	1504	1.03	(**)	23.67	1815	0.85	(**)	61.25	K07	3	92
24.76	1736	0.89	(**)	20.52	2095	0.74	(**)	70.67	K07	3	92
86.68	496	3.80	20.5	71.82	598	3.15	20.5	20.19	K08	3	129
74.50	577	3.32	20.5	61.73	696	2.75	20.5	23.49	K08	3	129
63.00	682	2.79	20.5	52.20	823	2.31	20.5	27.78	K08	3	129
56.62	759	3.95	20.5	46.91	916	3.27	20.5	30.91	K08	3	129
49.43	869	3.45	20.5	40.95	1049	2.86	20.5	35.41	K08	3	129
42.49	1012	2.97	20.5	35.20	1221	2.46	20.5	41.19	K08	3	129
35.93	1196	2.51	20.5	29.77	1444	2.08	20.5	48.71	K08	3	129
30.04	1431	2.10	20.5	24.89	1726	1.74	20.5	58.25	K08	3	129
26.52	1621	1.85	20.5	21.97	1956	1.53	20.5	66.00	K08	3	129
25.57	1681	1.78	20.5	21.19	2029	1.48	20.5	68.44	K08	3	129
21.91	1962	1.53	20.5	18.15	2368	1.27	20.5	79.89	K08	3	129
19.12	2247	1.33	20.5	15.84	2712	1.11	20.5	91.51	K08	3	129
16.44	2614	1.15	20.5	13.62	3155	0.95	(**)	106.46	K08	3	129

PN = 4.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
13.90	3092	0.97	(**)	11.52	3731	0.80	(**)	125.90	K08	3	129
55.74	771	3.64	29.0	46.19	930	3.02	29.0	31.39	K09	3	177
47.13	912	3.05	29.0	39.05	1101	2.53	29.0	37.13	K09	3	177
37.39	1149	3.91	29.0	30.98	1387	3.24	29.0	46.81	K09	3	177
32.36	1328	3.39	29.0	26.82	1603	2.81	29.0	54.07	K09	3	177
27.36	1571	2.87	29.0	22.67	1896	2.37	29.0	63.96	K09	3	177
21.67	1983	2.27	29.0	17.96	2393	1.88	29.0	80.74	K09	3	177
19.12	2247	2.00	29.0	15.85	2712	1.66	29.0	91.51	K09	3	177
18.44	2330	1.93	29.0	15.28	2813	1.60	29.0	94.90	K09	3	177
15.95	2694	1.67	29.0	13.22	3251	1.38	29.0	109.70	K09	3	177
14.13	3042	1.48	29.0	11.71	3671	1.23	29.0	123.86	K09	3	177
12.23	3514	1.28	29.0	10.13	4241	1.06	(**)	143.08	K09	3	177
10.34	4156	1.08	(**)	8.57	5016	0.90	(**)	169.25	K09	3	177

Note: (**) Upon request.

PN = 5.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
346.49	152	1.12	4.2	287.09	183	0.93	(**)	5.05	K04	3	53
280.81	187	0.96	(**)	232.67	226	0.80	(**)	6.23	K04	3	53
235.07	223	0.85	(**)	194.78	270	0.70	(**)	7.44	K04	3	53
182.90	287	1.04	(**)	151.55	347	0.87	(**)	9.57	K04	3	53
148.24	354	0.87	(**)	122.82	428	0.72	(**)	11.81	K04	3	53
409.69	128	2.96	9.3	339.46	155	2.46	9.3	4.27	K05	3	55
324.96	162	2.54	9.3	269.25	195	2.10	9.3	5.39	K05	3	55
267.19	197	2.09	9.2	221.38	237	1.73	9.0	6.55	K05	3	55
227.02	231	1.77	9.0	188.10	279	1.47	8.7	7.71	K05	3	55
195.09	269	2.01	8.6	161.65	325	1.66	8.5	8.97	K05	3	55
186.22	282	1.45	8.0	154.30	340	1.20	8.2	9.40	K05	3	55
154.74	339	1.71	8.2	128.21	410	1.42	7.4	11.31	K05	3	55
127.23	413	1.45	7.4	105.42	498	1.20	6.0	13.75	K05	3	55
116.80	450	0.91	22.8	96.78	543	0.76	(**)	14.98	K05	3	55
108.11	486	1.23	6.0	89.57	586	1.02	(**)	16.19	K05	3	55
353.92	148	3.17	11.0	293.25	179	2.62	11.0	4.94	K06	3	74
280.73	187	2.67	11.0	232.60	226	2.22	11.0	6.23	K06	3	74
230.82	228	2.20	11.0	191.25	275	1.82	11.0	7.58	K06	3	74
196.12	268	1.87	11.0	162.50	323	1.55	11.0	8.92	K06	3	74
192.54	273	2.35	11.0	159.53	329	1.94	11.0	9.09	K06	3	74
160.87	326	1.53	11.0	133.30	394	1.27	11.0	10.88	K06	3	74
152.72	344	1.98	11.0	126.54	415	1.64	11.0	11.46	K06	3	74
132.65	396	1.26	11.0	109.91	478	1.05	(**)	13.19	K06	3	74
125.57	418	1.72	11.0	104.04	505	1.43	11.0	13.94	K06	3	74
106.69	492	1.52	11.0	88.40	594	1.26	11.0	16.40	K06	3	74
87.52	600	1.33	11.0	72.51	724	1.10	11.0	20.00	K06	3	74
79.28	663	1.10	11.0	65.69	800	0.91	(**)	22.07	K06	3	74
72.17	728	1.13	11.0	59.79	878	0.93	(**)	24.25	K06	3	74
62.88	835	0.93	(**)	52.10	1008	0.77	(**)	27.83	K06	3	74
221.20	237	3.83	17.0	183.28	287	3.17	17.0	7.91	K07	3	94
182.23	288	3.16	17.0	150.99	348	2.62	17.0	9.60	K07	3	94
153.88	341	2.67	17.0	127.50	412	2.21	17.0	11.37	K07	3	94

PN = 5.50 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
133.36	394	2.31	17.0	110.50	475	1.91	17.0	13.12	K07	3	94
113.44	463	1.96	17.0	93.99	559	1.63	17.0	15.43	K07	3	94
105.33	499	3.11	17.0	87.28	602	2.58	17.0	16.61	K07	3	94
93.83	560	1.63	17.0	77.74	676	1.35	17.0	18.65	K07	3	94
86.77	605	2.56	17.0	71.90	731	2.12	17.0	20.17	K07	3	94
73.28	717	2.16	17.0	60.71	865	1.79	17.0	23.88	K07	3	94
63.51	827	1.87	17.0	52.62	998	1.55	17.0	27.56	K07	3	94
54.02	972	1.59	17.0	44.76	1174	1.32	17.0	32.40	K07	3	94
44.68	1176	1.32	17.0	37.02	1419	1.09	(**)	39.17	K07	3	94
41.07	1279	1.21	17.0	34.03	1543	1.00	(**)	42.61	K07	3	94
33.83	1552	1.00	(**)	28.03	1874	0.83	(**)	51.72	K07	3	94
120.18	437	4.00	20.5	99.58	527	3.31	20.5	14.56	K08	3	131
99.29	529	3.66	20.5	82.27	638	3.03	20.5	17.63	K08	3	131
86.68	606	3.11	20.5	71.82	731	2.58	20.5	20.19	K08	3	131
74.50	705	2.72	20.5	61.73	851	2.25	20.5	23.49	K08	3	131
68.53	766	3.91	20.5	56.78	925	3.24	20.5	25.54	K08	3	131
66.08	795	3.77	20.5	54.76	959	3.13	20.5	26.48	K08	3	131
63.00	834	2.28	20.5	52.20	1006	1.89	20.5	27.78	K08	3	131
56.62	928	3.23	20.5	46.91	1120	2.68	20.5	30.91	K08	3	131
49.43	1063	2.82	20.5	40.95	1283	2.34	20.5	35.41	K08	3	131
42.49	1236	2.43	20.5	35.20	1492	2.01	20.5	41.19	K08	3	131
35.93	1462	2.05	20.5	29.77	1764	1.70	20.5	48.71	K08	3	131
30.04	1748	1.72	20.5	24.89	2110	1.42	20.5	58.25	K08	3	131
26.52	1981	1.51	20.5	21.97	2391	1.25	20.5	66.00	K08	3	131
25.57	2054	1.46	20.5	21.19	2479	1.21	20.5	68.44	K08	3	131
21.91	2398	1.25	20.5	18.15	2894	1.04	(**)	79.89	K08	3	131
19.12	2747	1.09	20.2	15.84	3315	0.90	(**)	91.51	K08	3	131
16.44	3195	0.94	(**)	13.62	3856	0.78	(**)	106.46	K08	3	131
87.16	603	4.00	29.0	72.22	727	3.31	29.0	20.08	K09	3	179
64.39	816	3.43	29.0	53.35	984	2.84	29.0	27.18	K09	3	179
55.74	942	2.98	29.0	46.19	1137	2.47	29.0	31.39	K09	3	179
50.61	1038	4.00	29.0	41.93	1253	3.31	29.0	34.58	K09	3	179
47.13	1115	2.50	29.0	39.05	1345	2.07	29.0	37.13	K09	3	179
42.21	1244	3.62	29.0	34.98	1502	3.00	29.0	41.46	K09	3	179
37.39	1405	3.20	29.0	30.98	1696	2.65	29.0	46.81	K09	3	179
32.36	1623	2.77	29.0	26.82	1959	2.30	29.0	54.07	K09	3	179
27.36	1920	2.34	29.0	22.67	2317	1.94	29.0	63.96	K09	3	179
21.67	2423	1.86	29.0	17.96	2925	1.54	29.0	80.74	K09	3	179
19.12	2747	1.64	29.0	15.85	3315	1.36	29.0	91.51	K09	3	179
18.44	2848	1.58	29.0	15.28	3438	1.31	29.0	94.90	K09	3	179
15.95	3293	1.37	29.0	13.22	3974	1.13	29.0	109.70	K09	3	179
14.13	3718	1.21	29.0	11.71	4487	1.00	(**)	123.86	K09	3	179
12.23	4295	1.05	(**)	10.13	5183	0.87	(**)	143.08	K09	3	179
10.34	5080	0.89	(**)	8.57	6131	0.73	(**)	169.25	K09	3	179

Note: (**) Upon request.

PN = 7.50 kW

PN = 7.50 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
409.69	175	2.17	8.3	339.46	211	1.80	8.8	4.27	K05	3	74
324.96	220	1.86	9.1	269.25	266	1.54	8.8	5.39	K05	3	74
267.19	268	1.53	8.8	221.38	324	1.27	8.4	6.55	K05	3	74
227.02	315	1.30	8.4	188.10	381	1.08	7.5	7.71	K05	3	74
195.09	367	1.47	7.9	161.65	443	1.22	8.0	8.97	K05	3	74
186.22	385	1.07	7.5	154.30	464	0.88	(**)	9.40	K05	3	74
154.74	463	1.25	6.6	128.21	559	1.04	(**)	11.31	K05	3	74
127.23	563	1.07	(**)	105.42	679	0.88	(**)	13.75	K05	3	74
108.11	663	0.91	(**)	89.57	800	0.75	(**)	16.19	K05	3	74
280.73	255	1.96	12.0	232.60	308	1.63	13.6	6.23	K06	3	100
230.82	310	1.61	11.7	191.25	375	1.34	13.3	7.58	K06	3	100
196.12	365	1.37	11.4	162.50	441	1.14	13.0	8.92	K06	3	100
160.87	445	1.12	11.0	133.30	537	0.93	(**)	10.88	K06	3	100
152.72	469	1.45	10.7	126.54	566	1.20	12.3	11.46	K06	3	100
125.57	570	1.26	9.8	104.04	688	1.05	(**)	13.94	K06	3	100
106.69	671	1.12	9.5	88.40	810	0.93	(**)	16.40	K06	3	100
87.52	818	0.98	(**)	72.51	988	0.81	(**)	20.00	K06	3	100
221.20	324	2.81	17.0	183.28	391	2.33	17.0	7.91	K07	3	120
182.23	393	2.31	17.0	150.99	474	1.92	17.0	9.60	K07	3	120
153.88	465	1.95	17.0	127.50	562	1.62	17.0	11.37	K07	3	120
133.36	537	1.69	17.0	110.50	648	1.40	17.0	13.12	K07	3	120
113.44	631	1.44	17.0	93.99	762	1.19	17.0	15.43	K07	3	120
105.33	680	2.28	17.0	87.28	821	1.89	17.0	16.61	K07	3	120
86.77	825	1.88	17.0	71.90	996	1.56	17.0	20.17	K07	3	120
73.28	977	1.59	17.0	60.71	1180	1.31	16.0	23.88	K07	3	120
63.51	1128	1.37	16.4	52.62	1361	1.14	14.2	27.56	K07	3	120
54.02	1326	1.17	14.5	44.76	1600	0.97	(**)	32.40	K07	3	120
41.07	1744	0.89	(**)	34.03	2105	0.74	(**)	42.61	K07	3	120
136.16	526	3.68	20.5	112.82	635	3.05	20.5	12.85	K08	3	157
120.18	596	2.93	20.5	99.58	719	2.43	20.5	14.56	K08	3	157
115.89	618	3.13	20.5	96.02	746	2.60	20.5	15.10	K08	3	157
99.29	721	2.68	20.5	82.27	871	2.22	20.5	17.63	K08	3	157
92.56	774	3.88	20.5	76.69	934	3.21	20.5	18.91	K08	3	157
86.68	826	2.28	20.5	71.82	997	1.89	20.5	20.19	K08	3	157
77.65	922	3.25	20.5	64.34	1113	2.69	20.5	22.54	K08	3	157
74.50	961	1.99	20.5	61.73	1160	1.65	20.5	23.49	K08	3	157
68.53	1045	2.87	20.5	56.78	1261	2.38	20.5	25.54	K08	3	157
66.08	1084	2.77	20.5	54.76	1308	2.29	20.5	26.48	K08	3	157
56.62	1265	2.37	20.5	46.91	1527	1.96	20.5	30.91	K08	3	157
51.83	1382	2.17	20.5	42.95	1668	1.80	20.5	33.76	K08	3	157
49.43	1449	2.07	20.5	40.95	1749	1.72	20.5	35.41	K08	3	157
42.50	1685	1.78	20.5	35.21	2034	1.47	20.5	41.18	K08	3	157
42.49	1686	1.78	20.5	35.20	2035	1.47	20.5	41.19	K08	3	157
35.81	2000	1.50	20.5	29.67	2414	1.24	20.5	48.87	K08	3	157
30.04	2384	1.26	20.5	24.89	2877	1.04	(**)	58.25	K08	3	157
26.52	2701	1.11	20.5	21.97	3260	0.92	20.5	66.00	K08	3	157
25.57	2801	1.07	20.3	21.19	3381	0.89	(**)	68.44	K08	3	157
21.91	3270	0.92	(**)	18.15	3946	0.76	(**)	79.89	K08	3	157
87.16	822	2.93	29.0	72.22	992	2.43	29.0	20.08	K09	3	205

PN = 7.50 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
84.05	852	3.51	29.0	69.64	1029	2.91	29.0	20.82	K09	3	205
72.71	985	3.04	29.0	60.24	1189	2.52	29.0	24.07	K09	3	205
64.39	1112	2.51	29.0	53.35	1342	2.08	29.0	27.18	K09	3	205
57.35	1249	3.60	29.0	47.52	1507	2.99	29.0	30.51	K09	3	205
55.74	1285	2.18	29.0	46.19	1551	1.81	29.0	31.39	K09	3	205
50.61	1415	2.93	29.0	41.93	1708	2.43	29.0	34.58	K09	3	205
48.80	1468	3.07	29.0	40.43	1771	2.54	29.0	35.86	K09	3	205
42.21	1697	2.65	29.0	34.98	2048	2.20	29.0	41.46	K09	3	205
37.39	1916	2.35	29.0	30.98	2312	1.95	29.0	46.81	K09	3	205
35.19	2035	2.21	29.0	29.16	2456	1.83	29.0	49.73	K09	3	205
32.36	2213	2.03	29.0	26.82	2671	1.68	29.0	54.07	K09	3	205
29.52	2426	1.85	29.0	24.46	2928	1.54	29.0	59.28	K09	3	205
25.47	2812	1.60	29.0	21.10	3394	1.33	29.0	68.71	K09	3	205
21.67	3305	1.36	29.0	17.96	3988	1.13	29.0	80.74	K09	3	205
19.12	3745	1.20	29.0	15.85	4520	1.00	29.0	91.51	K09	3	205
18.44	3884	1.16	29.0	15.28	4688	0.96	(**)	94.90	K09	3	205
15.95	4490	1.00	(**)	13.22	5419	0.83	(**)	109.70	K09	3	205
14.13	5069	0.89	(**)	11.71	6118	0.74	(**)	123.86	K09	3	205
78.05	918	2.93	55.5	64.67	1108	2.43	55.5	22.42	K10	3	320
65.33	1096	3.89	55.5	54.13	1323	3.23	55.5	26.79	K10	3	320
44.44	1612	2.93	55.5	36.82	1945	2.43	55.5	39.38	K10	3	320
37.20	1926	3.89	55.5	30.82	2324	3.23	55.5	47.05	K10	3	320
29.99	2388	3.35	55.5	24.85	2883	2.78	55.5	58.36	K10	3	320
25.36	2825	2.83	55.5	21.01	3409	2.35	55.5	69.01	K10	3	320
21.90	3270	2.45	55.5	18.15	3947	2.03	55.5	79.90	K10	3	320
18.74	3822	2.09	55.5	15.53	4612	1.73	55.5	93.37	K10	3	320
16.79	4265	1.88	55.5	13.91	5148	1.55	55.5	104.21	K10	3	320
16.19	4423	1.81	55.5	13.42	5338	1.50	55.5	108.07	K10	3	320
14.06	5095	1.57	55.5	11.65	6150	1.30	55.5	124.50	K10	3	320
62.43	1147	2.93	85.0	51.73	1385	2.43	85.0	28.03	K12	3	437
52.49	1365	3.66	85.0	43.49	1647	3.04	85.0	33.34	K12	3	437
35.60	2012	2.93	85.0	29.50	2428	2.43	85.0	49.16	K12	3	437
29.93	2393	3.66	85.0	24.80	2888	3.04	85.0	58.47	K12	3	437
20.50	3494	3.72	85.0	16.98	4217	3.08	85.0	85.37	K12	3	437
17.91	4000	3.25	85.0	14.84	4828	2.69	85.0	97.73	K12	3	437
15.42	4645	2.80	85.0	12.78	5606	2.32	85.0	113.49	K12	3	437
13.77	5200	2.50	85.0	11.41	6276	2.07	85.0	127.05	K12	3	437
13.28	5393	2.41	85.0	11.01	6508	2.00	85.0	131.76	K12	3	437
11.58	6185	2.10	85.0	9.60	7464	1.74	85.0	151.11	K12	3	437

Note: (**) Upon request.

PN = 9.20 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
409.69	214	1.77	8.6	339.46	259	1.47	8.3	4.27	K05	3	78
324.96	270	1.52	8.8	269.25	326	1.26	8.3	5.39	K05	3	78
267.19	329	1.25	8.3	221.38	397	1.03	(**)	6.55	K05	3	78
227.02	387	1.06	(**)	188.10	467	0.88	(**)	7.71	K05	3	78
186.22	472	0.87	(**)	154.30	569	0.72	(**)	9.40	K05	3	78
154.74	568	1.02	(**)	128.21	685	0.85	(**)	11.31	K05	3	78

PN = 9.20 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
127.23	691	0.87	(**)	105.42	833	0.72	(**)	13.75	K05	3	78
280.73	313	1.60	11.7	232.60	378	1.32	13.0	6.23	K06	3	106
230.82	381	1.31	11.3	191.25	459	1.09	12.9	7.58	K06	3	106
196.12	448	1.12	10.5	162.50	541	0.93	(**)	8.92	K06	3	106
160.87	546	0.92	(**)	133.30	659	0.76	(**)	10.88	K06	3	106
152.72	575	1.18	9.7	126.54	694	0.98	(**)	11.46	K06	3	106
125.57	700	1.03	(**)	104.04	844	0.85	(**)	13.94	K06	3	106
106.69	823	0.91	(**)	88.40	994	0.75	(**)	16.40	K06	3	106
221.20	397	2.29	17.0	183.28	479	1.90	17.0	7.91	K07	3	126
182.23	482	1.89	17.0	150.99	582	1.56	17.0	9.60	K07	3	126
153.88	571	1.59	17.0	127.50	689	1.32	17.0	11.37	K07	3	126
133.36	659	1.38	17.0	110.50	795	1.14	18.6	13.12	K07	3	126
113.44	775	1.17	18.6	93.99	935	0.97	(**)	15.43	K07	3	126
105.33	834	1.86	18.3	87.28	1007	1.54	17.0	16.61	K07	3	126
86.77	1013	1.53	17.2	71.90	1222	1.27	15.6	20.17	K07	3	126
73.28	1199	1.29	15.8	60.71	1447	1.07	13.2	23.88	K07	3	126
63.51	1383	1.12	13.0	52.62	1670	0.93	(**)	27.56	K07	3	126
54.02	1627	0.95	(**)	44.76	1963	0.79	(**)	32.40	K07	3	126
162.32	541	3.58	20.5	134.49	653	2.96	20.5	10.78	K08	3	163
136.16	645	3.00	20.5	112.82	779	2.49	20.5	12.85	K08	3	163
120.18	731	2.39	20.5	99.58	882	1.98	20.5	14.56	K08	3	163
115.89	758	2.55	20.5	96.02	915	2.12	20.5	15.10	K08	3	163
109.84	800	3.75	20.5	91.01	965	3.11	20.5	15.93	K08	3	163
99.29	885	2.19	20.5	82.27	1068	1.81	20.5	17.63	K08	3	163
92.56	949	3.16	20.5	76.69	1146	2.62	20.5	18.91	K08	3	163
86.68	1014	1.86	20.5	71.82	1223	1.54	20.5	20.19	K08	3	163
77.65	1132	2.65	20.5	64.34	1366	2.20	20.5	22.54	K08	3	163
74.50	1179	1.63	20.5	61.73	1423	1.35	20.5	23.49	K08	3	163
68.53	1282	2.34	20.5	56.78	1547	1.94	20.5	25.54	K08	3	163
66.08	1330	2.26	20.5	54.76	1605	1.87	20.5	26.48	K08	3	163
56.62	1552	1.93	20.5	46.91	1873	1.60	20.5	30.91	K08	3	163
51.83	1695	1.77	20.5	42.95	2046	1.47	20.5	33.76	K08	3	163
49.43	1778	1.69	20.5	40.95	2145	1.40	20.5	35.41	K08	3	163
42.50	2067	1.45	20.5	35.21	2495	1.20	20.5	41.18	K08	3	163
42.49	2068	1.45	20.5	35.20	2496	1.20	20.5	41.19	K08	3	163
35.81	2453	1.22	20.5	29.67	2961	1.01	(**)	48.87	K08	3	163
30.04	2925	1.03	(**)	24.89	3530	0.85	(**)	58.25	K08	3	163
26.52	3314	0.91	20.5	21.97	3999	0.75	(**)	66.00	K08	3	163
25.57	3436	0.87	(**)	21.19	4147	0.72	(**)	68.44	K08	3	163
116.08	757	3.95	29.0	96.18	914	3.27	29.0	15.08	K09	3	211
98.78	889	3.36	29.0	81.85	1073	2.79	29.0	17.72	K09	3	211
87.16	1008	2.39	29.0	72.22	1217	1.98	29.0	20.08	K09	3	211
84.05	1045	2.86	29.0	69.64	1262	2.37	29.0	20.82	K09	3	211
72.71	1208	2.48	29.0	60.24	1458	2.05	29.0	24.07	K09	3	211
67.39	1304	3.45	29.0	55.84	1573	2.86	29.0	25.97	K09	3	211
64.39	1364	2.05	29.0	53.35	1647	1.70	29.0	27.18	K09	3	211
57.35	1532	2.94	29.0	47.52	1849	2.43	29.0	30.51	K09	3	211
55.74	1576	1.78	29.0	46.19	1902	1.47	29.0	31.39	K09	3	211
50.61	1736	2.39	29.0	41.93	2095	1.98	29.0	34.58	K09	3	211
48.80	1800	2.50	29.0	40.43	2173	2.07	29.0	35.86	K09	3	211

PN = 9.20 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
42.21	2081	2.16	29.0	34.98	2512	1.79	29.0	41.46	K09	3	211
37.39	2350	1.91	29.0	30.98	2836	1.59	29.0	46.81	K09	3	211
35.19	2497	1.80	29.0	29.16	3013	1.49	29.0	49.73	K09	3	211
32.36	2715	1.66	29.0	26.82	3276	1.37	29.0	54.07	K09	3	211
29.52	2976	1.51	29.0	24.46	3592	1.25	29.0	59.28	K09	3	211
25.47	3450	1.30	29.0	21.10	4163	1.08	29.0	68.71	K09	3	211
21.67	4054	1.11	29.0	17.96	4892	0.92	(**)	80.74	K09	3	211
19.12	4594	0.98	29.0	15.85	5545	0.81	(**)	91.51	K09	3	211
18.44	4764	0.94	(**)	15.28	5750	0.78	(**)	94.90	K09	3	211
78.05	1126	2.39	55.5	64.67	1359	1.98	55.5	22.42	K10	3	326
75.26	1167	3.66	55.5	62.36	1409	3.03	55.5	23.25	K10	3	326
65.33	1345	3.17	55.5	54.13	1623	2.63	55.5	26.79	K10	3	326
44.44	1977	2.39	55.5	36.82	2386	1.98	55.5	39.38	K10	3	326
42.85	2050	3.66	55.5	35.50	2475	3.03	55.5	40.84	K10	3	326
37.20	2362	3.17	55.5	30.82	2851	2.63	55.5	47.05	K10	3	326
29.99	2930	2.73	55.5	24.85	3536	2.26	55.5	58.36	K10	3	326
25.36	3465	2.31	55.5	21.01	4182	1.91	55.5	69.01	K10	3	326
21.90	4012	1.99	55.5	18.15	4842	1.65	55.5	79.90	K10	3	326
18.74	4688	1.71	55.5	15.53	5658	1.41	55.5	93.37	K10	3	326
16.79	5232	1.53	55.5	13.91	6314	1.27	55.5	104.21	K10	3	326
16.19	5426	1.47	55.5	13.42	6548	1.22	55.5	108.07	K10	3	326
14.06	6250	1.28	55.5	11.65	7544	1.06	(**)	124.50	K10	3	326
62.43	1407	2.39	85.0	51.73	1699	1.98	85.0	28.03	K12	3	443
52.49	1674	2.99	85.0	43.49	2020	2.47	85.0	33.34	K12	3	443
35.60	2468	2.39	85.0	29.50	2979	1.98	85.0	49.16	K12	3	443
29.93	2935	2.99	85.0	24.80	3543	2.47	85.0	58.47	K12	3	443
23.73	3702	3.51	85.0	19.66	4468	2.91	85.0	73.74	K12	3	443
20.50	4286	3.03	85.0	16.98	5173	2.51	85.0	85.37	K12	3	443
17.91	4907	2.65	85.0	14.84	5922	2.20	85.0	97.73	K12	3	443
15.42	5698	2.28	85.0	12.78	6877	1.89	85.0	113.49	K12	3	443
13.77	6379	2.04	85.0	11.41	7698	1.69	85.0	127.05	K12	3	443
13.28	6615	1.97	85.0	11.01	7983	1.63	85.0	131.76	K12	3	443
11.58	7587	1.71	85.0	9.60	9156	1.42	85.0	151.11	K12	3	443

Note: (**) Upon request.

PN = 11.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
280.73	374	1.34	11.0	232.60	452	1.11	11.0	6.23	K06	3	110
230.82	455	1.10	11.0	191.25	549	0.91	(**)	7.58	K06	3	110
196.12	536	0.93	11.0	162.50	646	0.77	(**)	8.92	K06	3	110
152.72	688	0.99	(**)	126.54	830	0.82	(**)	11.46	K06	3	110
125.57	837	0.86	(**)	104.04	1010	0.71	(**)	13.94	K06	3	110
221.20	475	1.92	17.0	183.28	573	1.59	17.0	7.91	K07	3	130
182.23	576	1.58	17.0	150.99	696	1.31	17.0	9.60	K07	3	130
153.88	683	1.33	17.0	127.50	824	1.10	17.0	11.37	K07	3	130
133.36	788	1.16	16.0	110.50	951	0.96	(**)	13.12	K07	3	130
113.44	926	0.98	(**)	93.99	1118	0.81	(**)	15.43	K07	3	130
105.33	997	1.55	17.4	87.28	1204	1.29	16.0	16.61	K07	3	130
86.77	1211	1.28	15.7	71.90	1461	1.06	(**)	20.17	K07	3	130

PN = 11.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
73.28	1434	1.08	15.0	60.71	1730	0.90	(**)	23.88	K07	3	130
63.51	1654	0.94	(**)	52.62	1996	0.78	(**)	27.56	K07	3	130
192.62	545	3.55	20.5	159.60	658	2.94	20.5	9.09	K08	3	167
162.32	647	2.99	20.5	134.49	781	2.48	20.5	10.78	K08	3	167
136.16	772	2.51	20.5	112.82	931	2.08	20.5	12.85	K08	3	167
133.97	784	3.83	20.5	111.00	946	3.17	20.5	13.06	K08	3	167
120.18	874	2.00	20.5	99.58	1055	1.66	20.5	14.56	K08	3	167
115.89	906	2.14	20.5	96.02	1094	1.77	20.5	15.10	K08	3	167
109.84	956	3.14	20.5	91.01	1154	2.60	20.5	15.93	K08	3	167
99.29	1058	1.83	20.5	82.27	1277	1.52	20.5	17.63	K08	3	167
92.56	1135	2.64	20.5	76.69	1370	2.19	20.5	18.91	K08	3	167
86.68	1212	1.56	20.5	71.82	1463	1.29	20.5	20.19	K08	3	167
77.65	1353	2.22	20.5	64.34	1633	1.84	20.5	22.54	K08	3	167
74.50	1410	1.36	20.5	61.73	1702	1.13	20.5	23.49	K08	3	167
68.53	1533	1.96	20.5	56.78	1850	1.62	20.5	25.54	K08	3	167
66.08	1590	1.89	20.5	54.76	1919	1.56	20.5	26.48	K08	3	167
56.62	1855	1.62	20.5	46.91	2239	1.34	20.5	30.91	K08	3	167
51.83	2027	1.48	20.5	42.95	2446	1.23	20.5	33.76	K08	3	167
49.43	2125	1.41	20.5	40.95	2565	1.17	20.5	35.41	K08	3	167
42.50	2472	1.21	20.5	35.21	2983	1.01	(**)	41.18	K08	3	167
42.49	2473	1.21	20.5	35.20	2984	1.01	(**)	41.19	K08	3	167
35.81	2933	1.02	(**)	29.67	3540	0.85	(**)	48.87	K08	3	167
30.04	3497	0.86	(**)	24.89	4220	0.71	(**)	58.25	K08	3	167
134.55	781	3.83	29.0	111.49	942	3.17	29.0	13.01	K09	3	215
116.08	905	3.31	29.0	96.18	1092	2.74	29.0	15.08	K09	3	215
98.78	1063	2.81	29.0	81.85	1283	2.33	29.0	17.72	K09	3	215
93.13	1128	3.99	29.0	77.16	1361	3.31	29.0	18.79	K09	3	215
87.16	1205	2.00	29.0	72.22	1455	1.66	29.0	20.08	K09	3	215
84.05	1250	2.39	29.0	69.64	1508	1.98	29.0	20.82	K09	3	215
78.12	1345	3.35	29.0	64.73	1623	2.77	29.0	22.40	K09	3	215
72.71	1445	2.07	29.0	60.24	1744	1.72	29.0	24.07	K09	3	215
67.39	1559	2.89	29.0	55.84	1881	2.39	29.0	25.97	K09	3	215
64.39	1631	1.71	29.0	53.35	1969	1.42	29.0	27.18	K09	3	215
57.35	1832	2.46	29.0	47.52	2211	2.04	29.0	30.51	K09	3	215
55.74	1885	1.49	29.0	46.19	2274	1.23	29.0	31.39	K09	3	215
50.61	2076	2.00	29.0	41.93	2505	1.66	29.0	34.58	K09	3	215
48.80	2153	2.09	29.0	40.43	2598	1.73	29.0	35.86	K09	3	215
42.21	2489	1.81	29.0	34.98	3003	1.50	29.0	41.46	K09	3	215
37.39	2810	1.60	29.0	30.98	3391	1.33	29.0	46.81	K09	3	215
35.19	2985	1.51	29.0	29.16	3603	1.25	29.0	49.73	K09	3	215
32.36	3246	1.39	29.0	26.82	3917	1.15	29.0	54.07	K09	3	215
29.52	3558	1.26	29.0	24.46	4295	1.05	(**)	59.28	K09	3	215
25.47	4125	1.09	28.0	21.10	4978	0.90	(**)	68.71	K09	3	215
21.67	4847	0.93	(**)	17.96	5849	0.77	(**)	80.74	K09	3	215
87.10	1206	3.54	55.5	72.17	1456	2.93	55.5	20.09	K10	3	330
78.05	1346	2.00	55.5	64.67	1624	1.66	55.5	22.42	K10	3	330
75.26	1396	3.06	55.5	62.36	1685	2.53	55.5	23.25	K10	3	330
65.33	1608	2.65	55.5	54.13	1941	2.20	55.5	26.79	K10	3	330
49.60	2118	3.54	55.5	41.09	2556	2.93	55.5	35.29	K10	3	330

PN = 11.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
44.44	2364	2.00	55.5	36.82	2853	1.66	55.5	39.38	K10	3	330
42.85	2452	3.06	55.5	35.50	2959	2.53	55.5	40.84	K10	3	330
37.20	2824	2.65	55.5	30.82	3409	2.20	55.5	47.05	K10	3	330
29.99	3503	2.28	55.5	24.85	4228	1.89	55.5	58.36	K10	3	330
25.36	4143	1.93	55.5	21.01	5000	1.60	55.5	69.01	K10	3	330
21.90	4797	1.67	55.5	18.15	5789	1.38	55.5	79.90	K10	3	330
18.74	5605	1.43	55.5	15.53	6765	1.18	55.5	93.37	K10	3	330
16.79	6256	1.28	55.5	13.91	7550	1.06	(**)	104.21	K10	3	330
16.19	6487	1.23	55.5	13.42	7829	1.02	(**)	108.07	K10	3	330
14.06	7473	1.07	54.5	11.65	9019	0.89	(**)	124.50	K10	3	330
62.43	1683	2.00	85.0	51.73	2031	1.66	85.0	28.03	K12	3	447
60.20	1745	3.63	85.0	49.88	2106	3.01	85.0	29.07	K12	3	447
52.49	2001	2.50	85.0	43.49	2415	2.07	85.0	33.34	K12	3	447
35.60	2951	2.00	85.0	29.50	3561	1.66	85.0	49.16	K12	3	447
34.33	3060	3.63	85.0	28.44	3693	3.01	85.0	50.98	K12	3	447
29.93	3510	2.50	85.0	24.80	4236	2.07	85.0	58.47	K12	3	447
23.73	4427	2.94	85.0	19.66	5343	2.43	85.0	73.74	K12	3	447
20.50	5125	2.54	85.0	16.98	6185	2.10	85.0	85.37	K12	3	447
17.91	5867	2.22	85.0	14.84	7080	1.84	85.0	97.73	K12	3	447
15.42	6813	1.91	85.0	12.78	8222	1.58	85.0	113.49	K12	3	447
13.77	7627	1.70	85.0	11.41	9205	1.41	85.0	127.05	K12	3	447
13.28	7909	1.64	85.0	11.01	9545	1.36	85.0	131.76	K12	3	447
11.58	9071	1.43	85.0	9.60	10948	1.19	85.0	151.11	K12	3	447

Note: (**) Upon request.

PN = 15.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
182.23	786	1.16	17.0	150.99	949	0.96	(**)	9.60	K07	3	181
153.88	931	0.98	(**)	127.50	1124	0.81	(**)	11.37	K07	3	181
86.77	1651	0.94	(**)	71.90	1992	0.78	(**)	20.17	K07	3	181
234.94	610	3.18	20.5	194.66	736	2.63	20.5	7.45	K08	3	218
192.62	744	2.60	20.5	159.60	898	2.16	20.5	9.09	K08	3	218
162.32	883	2.19	20.5	134.49	1065	1.82	20.5	10.78	K08	3	218
136.16	1052	1.84	20.5	112.82	1270	1.53	20.5	12.85	K08	3	218
133.97	1069	2.81	20.5	111.00	1290	2.32	20.5	13.06	K08	3	218
120.18	1192	1.47	20.5	99.58	1439	1.21	20.5	14.56	K08	3	218
115.89	1236	1.57	20.5	96.02	1492	1.30	20.5	15.10	K08	3	218
109.84	1304	2.30	20.5	91.01	1574	1.91	20.5	15.93	K08	3	218
99.29	1443	1.34	20.5	82.27	1741	1.11	20.5	17.63	K08	3	218
92.56	1548	1.94	20.5	76.69	1868	1.61	20.5	18.91	K08	3	218
77.65	1845	1.63	20.5	64.34	2227	1.35	20.5	22.54	K08	3	218
68.53	2090	1.44	20.5	56.78	2523	1.19	20.5	25.54	K08	3	218
66.08	2168	1.38	20.5	54.76	2616	1.15	20.5	26.48	K08	3	218
56.62	2530	1.19	20.5	46.91	3054	0.98	(**)	30.91	K08	3	218
51.83	2764	1.09	19.8	42.95	3335	0.90	(**)	33.76	K08	3	218
42.50	3371	0.89	(**)	35.21	4068	0.74	(**)	41.18	K08	3	218
160.40	893	3.35	29.0	132.90	1078	2.78	29.0	10.91	K09	3	266
134.55	1065	2.81	29.0	111.49	1285	2.33	29.0	13.01	K09	3	266
116.08	1234	2.42	29.0	96.18	1489	2.01	29.0	15.08	K09	3	266

PN = 15.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
114.53	1251	3.60	29.0	94.90	1509	2.98	29.0	15.28	K09	3	266
98.78	1450	2.06	29.0	81.85	1750	1.71	29.0	17.72	K09	3	266
93.13	1538	2.93	29.0	77.16	1856	2.42	29.0	18.79	K09	3	266
87.16	1644	1.47	29.0	72.22	1984	1.21	29.0	20.08	K09	3	266
84.05	1704	1.76	29.0	69.64	2057	1.45	29.0	20.82	K09	3	266
78.12	1834	2.45	29.0	64.73	2213	2.03	29.0	22.40	K09	3	266
72.71	1970	1.52	29.0	60.24	2378	1.26	29.0	24.07	K09	3	266
67.39	2126	2.12	29.0	55.84	2565	1.75	29.0	25.97	K09	3	266
57.35	2498	1.80	29.0	47.52	3014	1.49	29.0	30.51	K09	3	266
55.36	2588	1.74	29.0	45.87	3123	1.44	29.0	31.61	K09	3	266
50.61	2831	1.47	29.0	41.93	3416	1.21	29.0	34.58	K09	3	266
48.80	2936	1.53	29.0	40.43	3543	1.27	29.0	35.86	K09	3	266
43.28	3310	1.36	29.0	35.86	3994	1.13	29.0	40.43	K09	3	266
42.21	3393	1.33	29.0	34.98	4096	1.10	29.0	41.46	K09	3	266
35.19	4070	1.11	29.0	29.16	4913	0.92	(**)	49.73	K09	3	266
29.52	4852	0.93	(**)	24.46	5856	0.77	(**)	59.28	K09	3	266
117.85	1216	3.51	51.4	97.64	1467	2.91	53.9	14.85	K10	3	381
101.78	1407	3.03	53.4	84.34	1699	2.51	55.5	17.19	K10	3	381
87.10	1645	2.60	55.5	72.17	1985	2.15	55.5	20.09	K10	3	381
78.05	1835	1.47	55.5	64.67	2215	1.21	55.5	22.42	K10	3	381
75.26	1903	2.24	55.5	62.36	2297	1.86	55.5	23.25	K10	3	381
67.10	2135	3.51	55.5	55.60	2577	2.91	55.5	26.08	K10	3	381
65.33	2193	1.95	55.5	54.13	2646	1.61	55.5	26.79	K10	3	381
57.95	2472	3.03	55.5	48.02	2983	2.51	55.5	30.20	K10	3	381
49.60	2888	2.60	55.5	41.09	3486	2.15	55.5	35.29	K10	3	381
45.29	3163	2.53	55.5	37.53	3817	2.10	55.5	38.64	K10	3	381
44.44	3224	1.47	55.5	36.82	3891	1.21	55.5	39.38	K10	3	381
42.85	3343	2.24	55.5	35.50	4035	1.86	55.5	40.84	K10	3	381
37.20	3851	1.95	55.5	30.82	4648	1.61	55.5	47.05	K10	3	381
36.75	3898	2.05	55.5	30.45	4704	1.70	55.5	47.62	K10	3	381
29.99	4777	1.67	55.5	24.85	5765	1.39	55.5	58.36	K10	3	381
25.36	5649	1.42	55.5	21.01	6818	1.17	55.5	69.01	K10	3	381
21.90	6541	1.22	55.5	18.15	7894	1.01	(**)	79.90	K10	3	381
18.74	7643	1.05	(**)	15.53	9224	0.87	(**)	93.37	K10	3	381
16.79	8530	0.94	(**)	13.91	10295	0.78	(**)	104.21	K10	3	381
16.19	8846	0.90	(**)	13.42	10676	0.75	(**)	108.07	K10	3	381
69.89	2050	3.98	85.0	57.91	2474	3.30	85.0	25.04	K12	3	498
62.43	2295	1.47	85.0	51.73	2769	1.21	85.0	28.03	K12	3	498
60.20	2380	2.66	85.0	49.88	2872	2.21	85.0	29.07	K12	3	498
52.49	2729	1.83	85.0	43.49	3294	1.52	85.0	33.34	K12	3	498
39.85	3594	3.62	85.0	33.02	4338	3.00	85.0	43.91	K12	3	498
35.60	4024	1.47	85.0	29.50	4856	1.21	85.0	49.16	K12	3	498
34.87	4108	3.16	85.0	28.89	4958	2.62	85.0	50.18	K12	3	498
34.33	4173	2.66	85.0	28.44	5036	2.21	85.0	50.98	K12	3	498
29.93	4786	1.83	85.0	24.80	5776	1.52	85.0	58.47	K12	3	498
28.70	4992	2.60	85.0	23.78	6025	2.16	85.0	60.98	K12	3	498
23.73	6036	2.15	85.0	19.66	7285	1.78	85.0	73.74	K12	3	498
20.50	6988	1.86	85.0	16.98	8434	1.54	85.0	85.37	K12	3	498
17.91	8000	1.63	85.0	14.84	9655	1.35	85.0	97.73	K12	3	498
15.42	9290	1.40	85.0	12.78	11212	1.16	85.0	113.49	K12	3	498

PN = 15.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
13.77	10400	1.25	85.0	11.41	12552	1.04	(**)	127.05	K12	3	498
13.28	10785	1.21	85.0	11.01	13017	1.00	(**)	131.76	K12	3	498
11.58	12370	1.05	(**)	9.60	14929	0.87	(**)	151.11	K12	3	498
30.62	4678	3.85	101.0	25.37	5646	3.19	101.0	57.15	K15	3	720
25.41	5638	3.19	101.0	21.05	6805	2.65	101.0	68.88	K15	3	720
21.14	6777	2.66	101.0	17.51	8179	2.20	101.0	82.79	K15	3	720
18.15	7891	2.28	101.0	15.04	9523	1.89	101.0	96.39	K15	3	720
16.01	8945	2.01	101.0	13.27	10796	1.67	101.0	109.28	K15	3	720
13.85	10342	1.74	101.0	11.48	12482	1.44	101.0	126.34	K15	3	720
11.93	12008	1.50	101.0	9.88	14492	1.24	101.0	146.69	K15	3	720

Note: (**) Upon request.

PN = 18.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
221.20	799	1.14	17.0	183.28	964	0.94	(**)	7.91	K07	3	196
105.33	1677	0.92	(**)	87.28	2024	0.77	(**)	16.61	K07	3	196
234.94	752	2.58	20.5	194.66	908	2.13	20.5	7.45	K08	3	233
192.62	917	2.11	20.5	159.60	1107	1.75	20.5	9.09	K08	3	233
162.32	1088	1.78	20.5	134.49	1314	1.47	20.5	10.78	K08	3	233
136.16	1298	1.49	20.5	112.82	1566	1.24	20.5	12.85	K08	3	233
133.97	1319	2.27	20.5	111.00	1592	1.88	20.5	13.06	K08	3	233
120.18	1470	1.19	20.5	99.58	1774	0.98	(**)	14.56	K08	3	233
115.89	1525	1.27	20.5	96.02	1840	1.05	(**)	15.10	K08	3	233
109.84	1608	1.87	20.5	91.01	1941	1.55	20.5	15.93	K08	3	233
99.29	1779	1.09	(**)	82.27	2148	0.90	(**)	17.63	K08	3	233
92.56	1909	1.57	20.5	76.69	2304	1.30	20.5	18.91	K08	3	233
77.65	2275	1.32	20.5	64.34	2746	1.09	(**)	22.54	K08	3	233
68.53	2578	1.16	20.5	56.78	3111	0.96	(**)	25.54	K08	3	233
66.08	2673	1.12	20.5	54.76	3227	0.93	(**)	26.48	K08	3	233
56.62	3120	0.96	(**)	46.91	3766	0.80	(**)	30.91	K08	3	233
51.83	3408	0.88	(**)	42.95	4114	0.73	(**)	33.76	K08	3	233
197.27	896	3.34	29.0	163.45	1081	2.77	29.0	8.87	K09	3	281
160.40	1101	2.72	29.0	132.90	1329	2.25	29.0	10.91	K09	3	281
146.49	1206	3.73	29.0	121.37	1456	3.09	29.0	11.95	K09	3	281
134.55	1313	2.28	29.0	111.49	1585	1.89	29.0	13.01	K09	3	281
116.08	1522	1.97	29.0	96.18	1837	1.63	29.0	15.08	K09	3	281
114.53	1543	2.92	29.0	94.90	1862	2.42	29.0	15.28	K09	3	281
98.78	1788	1.67	29.0	81.85	2159	1.39	29.0	17.72	K09	3	281
93.13	1897	2.37	29.0	77.16	2290	1.97	29.0	18.79	K09	3	281
87.16	2027	1.19	29.0	72.22	2446	0.98	(**)	20.08	K09	3	281
84.05	2102	1.42	29.0	69.64	2537	1.18	29.0	20.82	K09	3	281
78.12	2262	1.99	29.0	64.73	2730	1.65	29.0	22.40	K09	3	281
72.71	2430	1.23	29.0	60.24	2933	1.02	(**)	24.07	K09	3	281
67.39	2622	1.72	29.0	55.84	3164	1.42	29.0	25.97	K09	3	281
57.35	3080	1.46	29.0	47.52	3718	1.21	29.0	30.51	K09	3	281
55.36	3191	1.41	29.0	45.87	3852	1.17	29.0	31.61	K09	3	281
50.61	3491	1.19	29.0	41.93	4214	0.98	(**)	34.58	K09	3	281
48.80	3621	1.24	29.0	40.43	4370	1.03	(**)	35.86	K09	3	281
43.28	4082	1.10	29.0	35.86	4926	0.91	(**)	40.43	K09	3	281
42.21	4185	1.08	29.0	34.98	5051	0.89	(**)	41.46	K09	3	281

PN = 18.50 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
35.19	5020	0.90	(**)	29.16	6059	0.74	(**)	49.73	K09	3	281
139.37	1268	3.37	48.6	115.48	1530	2.79	50.9	12.56	K10	3	396
117.85	1499	2.85	50.7	97.64	1809	2.36	53.0	14.85	K10	3	396
101.78	1736	2.46	52.5	84.34	2095	2.04	54.9	17.19	K10	3	396
87.10	2028	2.10	54.5	72.17	2448	1.74	55.5	20.09	K10	3	396
79.35	2226	3.37	55.5	65.75	2687	2.79	55.5	22.05	K10	3	396
78.05	2264	1.19	55.5	64.67	2732	0.98	(**)	22.42	K10	3	396
75.26	2348	1.82	55.5	62.36	2833	1.51	55.5	23.25	K10	3	396
67.10	2633	2.85	55.5	55.60	3178	2.36	55.5	26.08	K10	3	396
65.33	2704	1.58	55.5	54.13	3264	1.31	55.5	26.79	K10	3	396
57.95	3049	2.46	55.5	48.02	3679	2.04	55.5	30.20	K10	3	396
49.60	3562	2.10	55.5	41.09	4299	1.74	55.5	35.29	K10	3	396
45.29	3901	2.05	55.5	37.53	4708	1.70	55.5	38.64	K10	3	396
44.44	3976	1.19	55.5	36.82	4798	0.98	(**)	39.38	K10	3	396
42.85	4123	1.82	55.5	35.50	4976	1.51	55.5	40.84	K10	3	396
37.20	4750	1.58	55.5	30.82	5733	1.31	55.5	47.05	K10	3	396
36.75	4808	1.66	55.5	30.45	5802	1.38	55.5	47.62	K10	3	396
29.99	5892	1.36	55.5	24.85	7111	1.13	55.5	58.36	K10	3	396
25.36	6967	1.15	55.5	21.01	8409	0.95	(**)	69.01	K10	3	396
21.90	8067	0.99	(**)	18.15	9736	0.82	(**)	79.90	K10	3	396
81.16	2177	3.70	84.0	67.25	2627	3.07	85.0	21.56	K12	3	513
69.89	2528	3.23	85.0	57.91	3051	2.67	85.0	25.04	K12	3	513
62.43	2830	1.19	85.0	51.73	3415	0.98	(**)	28.03	K12	3	513
60.20	2935	2.16	85.0	49.88	3542	1.79	85.0	29.07	K12	3	513
52.98	3335	3.90	85.0	43.90	4025	3.23	85.0	33.03	K12	3	513
52.49	3366	1.49	85.0	43.49	4062	1.23	85.0	33.34	K12	3	513
46.28	3817	3.41	85.0	38.35	4607	2.82	85.0	37.81	K12	3	513
39.85	4433	2.93	85.0	33.02	5350	2.43	85.0	43.91	K12	3	513
35.60	4963	1.19	85.0	29.50	5989	0.98	(**)	49.16	K12	3	513
34.87	5066	2.57	85.0	28.89	6115	2.13	85.0	50.18	K12	3	513
34.33	5146	2.16	85.0	28.44	6211	1.79	85.0	50.98	K12	3	513
29.93	5903	1.49	85.0	24.80	7124	1.23	85.0	58.47	K12	3	513
28.70	6157	2.11	85.0	23.78	7431	1.75	85.0	60.98	K12	3	513
23.73	7445	1.75	85.0	19.66	8985	1.45	85.0	73.74	K12	3	513
20.50	8619	1.51	85.0	16.98	10402	1.25	85.0	85.37	K12	3	513
17.91	9867	1.32	85.0	14.84	11908	1.09	(**)	97.73	K12	3	513
15.42	11458	1.13	85.0	12.78	13828	0.94	(**)	113.49	K12	3	513
13.77	12827	1.01	(**)	11.41	15480	0.84	(**)	127.05	K12	3	513
13.28	13302	0.98	(**)	11.01	16054	0.81	(**)	131.76	K12	3	513
11.58	15256	0.85	(**)	9.60	18412	0.71	(**)	151.11	K12	3	513
57.03	3098	3.63	101.0	47.25	3739	3.01	101.0	30.69	K15	3	735
35.80	4935	3.63	101.0	29.66	5956	3.01	101.0	48.88	K15	3	735
30.62	5770	3.12	101.0	25.37	6964	2.58	101.0	57.15	K15	3	735
25.41	6954	2.59	101.0	21.05	8393	2.14	101.0	68.88	K15	3	735
21.14	8358	2.15	101.0	17.51	10087	1.78	101.0	82.79	K15	3	735
18.15	9732	1.85	101.0	15.04	11745	1.53	101.0	96.39	K15	3	735
16.01	11033	1.63	101.0	13.27	13315	1.35	101.0	109.28	K15	3	735
13.85	12755	1.41	101.0	11.48	15394	1.17	101.0	126.34	K15	3	735
11.93	14809	1.22	101.0	9.88	17873	1.01	(**)	146.69	K15	3	735

Note: (**) Upon request.

PN = 22.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
234.94	894	2.17	20.5	194.66	1079	1.79	20.5	7.45	K08	3	261
192.62	1091	1.78	20.5	159.60	1316	1.47	20.5	9.09	K08	3	261
162.32	1294	1.50	20.5	134.49	1562	1.24	20.5	10.78	K08	3	261
136.16	1543	1.26	20.5	112.82	1862	1.04	(**)	12.85	K08	3	261
133.97	1568	1.91	20.5	111.00	1893	1.59	20.5	13.06	K08	3	261
120.18	1748	1.00	(**)	99.58	2110	0.83	(**)	14.56	K08	3	261
115.89	1813	1.07	19.4	96.02	2188	0.89	(**)	15.10	K08	3	261
109.84	1913	1.57	20.5	91.01	2309	1.30	20.5	15.93	K08	3	261
92.56	2270	1.32	20.5	76.69	2739	1.10	20.5	18.91	K08	3	261
77.65	2706	1.11	20.5	64.34	3266	0.92	(**)	22.54	K08	3	261
68.53	3066	0.98	20.5	56.78	3700	0.81	(**)	25.54	K08	3	261
66.08	3179	0.94	(**)	54.76	3837	0.78	(**)	26.48	K08	3	261
252.30	833	3.59	29.0	209.05	1005	2.98	29.0	6.94	K09	3	309
197.27	1065	2.81	29.0	163.45	1285	2.33	29.0	8.87	K09	3	309
160.40	1310	2.28	29.0	132.90	1581	1.89	29.0	10.91	K09	3	309
146.49	1434	3.14	29.0	121.37	1731	2.60	29.0	11.95	K09	3	309
134.55	1561	1.92	29.0	111.49	1885	1.59	29.0	13.01	K09	3	309
116.08	1810	1.65	29.0	96.18	2184	1.37	29.0	15.08	K09	3	309
114.53	1834	2.45	29.0	94.90	2214	2.03	29.0	15.28	K09	3	309
98.78	2127	1.41	29.0	81.85	2567	1.17	29.0	17.72	K09	3	309
93.13	2256	1.99	29.0	77.16	2723	1.65	29.0	18.79	K09	3	309
87.16	2410	1.00	(**)	72.22	2909	0.83	(**)	20.08	K09	3	309
84.05	2500	1.20	29.0	69.64	3017	0.99	(**)	20.82	K09	3	309
78.12	2689	1.67	29.0	64.73	3246	1.39	29.0	22.40	K09	3	309
67.39	3117	1.44	29.0	55.84	3762	1.20	29.0	25.97	K09	3	309
57.35	3663	1.23	29.0	47.52	4421	1.02	(**)	30.51	K09	3	309
55.36	3795	1.19	29.0	45.87	4581	0.98	(**)	31.61	K09	3	309
50.61	4152	1.00	(**)	41.93	5011	0.83	(**)	34.58	K09	3	309
48.80	4306	1.05	(**)	40.43	5196	0.87	(**)	35.86	K09	3	309
43.28	4854	0.93	(**)	35.86	5858	0.77	(**)	40.43	K09	3	309
170.79	1230	3.47	45.6	141.51	1485	2.88	47.8	10.25	K10	3	424
139.37	1508	2.83	48.0	115.48	1819	2.35	50.2	12.56	K10	3	424
117.85	1783	2.39	49.9	97.64	2152	1.98	52.1	14.85	K10	3	424
101.78	2064	2.07	51.6	84.34	2491	1.71	53.8	17.19	K10	3	424
97.25	2161	3.47	52.8	80.57	2608	2.88	55.1	18.00	K10	3	424
87.10	2412	1.77	53.4	72.17	2911	1.47	55.5	20.09	K10	3	424
79.35	2648	2.83	55.3	65.75	3195	2.35	55.5	22.05	K10	3	424
78.05	2692	1.00	(**)	64.67	3249	0.83	(**)	22.42	K10	3	424
75.26	2792	1.53	55.1	62.36	3369	1.27	55.5	23.25	K10	3	424
67.10	3131	2.39	55.5	55.60	3779	1.98	55.5	26.08	K10	3	424
57.95	3625	2.07	55.5	48.02	4375	1.71	55.5	30.20	K10	3	424
56.73	3703	2.16	55.5	47.01	4469	1.79	55.5	30.85	K10	3	424
49.60	4236	1.77	55.5	41.09	5113	1.47	55.5	35.29	K10	3	424
45.29	4639	1.72	55.5	37.53	5598	1.43	55.5	38.64	K10	3	424
44.44	4728	1.00	(**)	36.82	5706	0.83	(**)	39.38	K10	3	424
42.85	4903	1.53	55.5	35.50	5918	1.27	55.5	40.84	K10	3	424
36.75	5717	1.40	55.5	30.45	6900	1.16	55.5	47.62	K10	3	424
29.99	7006	1.14	55.5	24.85	8456	0.95	(**)	58.36	K10	3	424
25.36	8286	0.97	(**)	21.01	10000	0.80	(**)	69.01	K10	3	424
92.91	2261	3.61	80.2	76.98	2729	2.99	84.1	18.84	K12	3	541

PN = 22.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
81.16	2589	3.11	83.0	67.25	3124	2.58	85.0	21.56	K12	3	541
69.89	3006	2.71	85.0	57.91	3628	2.25	85.0	25.04	K12	3	541
62.43	3365	1.00	(**)	51.73	4062	0.83	(**)	28.03	K12	3	541
61.34	3425	3.80	85.0	50.82	4134	3.14	85.0	28.53	K12	3	541
60.20	3490	1.82	85.0	49.88	4212	1.50	85.0	29.07	K12	3	541
52.98	3965	3.28	85.0	43.90	4786	2.72	85.0	33.03	K12	3	541
46.28	4540	2.86	85.0	38.35	5479	2.37	85.0	37.81	K12	3	541
42.42	4952	2.63	85.0	35.15	5977	2.18	85.0	41.25	K12	3	541
39.85	5272	2.47	85.0	33.02	6362	2.04	85.0	43.91	K12	3	541
35.60	5902	1.00	(**)	29.50	7123	0.83	(**)	49.16	K12	3	541
34.87	6025	2.16	85.0	28.89	7271	1.79	85.0	50.18	K12	3	541
34.33	6120	1.82	85.0	28.44	7386	1.50	85.0	50.98	K12	3	541
28.70	7322	1.78	85.0	23.78	8836	1.47	85.0	60.98	K12	3	541
23.73	8853	1.47	85.0	19.66	10685	1.22	85.0	73.74	K12	3	541
20.50	10249	1.27	85.0	16.98	12370	1.05	(**)	85.37	K12	3	541
17.91	11733	1.11	85.0	14.84	14161	0.92	(**)	97.73	K12	3	541
15.42	13625	0.95	(**)	12.78	16444	0.79	(**)	113.49	K12	3	541
13.77	15253	0.85	(**)	11.41	18409	0.71	(**)	127.05	K12	3	541
65.93	3187	3.51	101.0	54.63	3846	2.91	101.0	26.54	K15	3	763
57.03	3684	3.05	101.0	47.25	4447	2.53	101.0	30.69	K15	3	763
41.39	5076	3.51	101.0	34.29	6126	2.91	101.0	42.28	K15	3	763
36.72	5722	3.15	101.0	30.42	6906	2.61	101.0	47.66	K15	3	763
35.80	5869	3.05	101.0	29.66	7083	2.53	101.0	48.88	K15	3	763
30.62	6862	2.62	101.0	25.37	8281	2.17	101.0	57.15	K15	3	763
25.41	8270	2.18	101.0	21.05	9980	1.80	101.0	68.88	K15	3	763
21.14	9939	1.81	101.0	17.51	11996	1.50	101.0	82.79	K15	3	763
18.15	11573	1.56	101.0	15.04	13967	1.29	101.0	96.39	K15	3	763
16.01	13120	1.37	101.0	13.27	15834	1.14	101.0	109.28	K15	3	763
13.85	15168	1.19	101.0	11.48	18307	0.98	(**)	126.34	K15	3	763
11.93	17611	1.02	(**)	9.88	21255	0.85	(**)	146.69	K15	3	763

Note: (**) Upon request.

PN = 30.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
234.94	1219	1.59	20.5	194.66	1472	1.32	20.5	7.45	K08	3	300
192.62	1487	1.30	20.5	159.60	1795	1.08	20.5	9.09	K08	3	300
162.32	1765	1.10	20.5	134.49	2130	0.91	(**)	10.78	K08	3	300
133.97	2139	1.40	20.5	111.00	2581	1.16	20.5	13.06	K08	3	300
109.84	2608	1.15	20.5	91.01	3148	0.95	(**)	15.93	K08	3	300
92.56	3095	0.97	(**)	76.69	3736	0.80	(**)	18.91	K08	3	300
252.30	1136	2.63	28.3	209.05	1370	2.18	29.0	6.94	K09	3	348
197.27	1452	2.06	29.0	163.45	1753	1.71	29.0	8.87	K09	3	348
160.40	1786	1.67	29.0	132.90	2156	1.39	29.0	10.91	K09	3	348
146.49	1956	2.30	29.0	121.37	2360	1.91	29.0	11.95	K09	3	348
134.55	2129	1.40	29.0	111.49	2570	1.16	29.0	13.01	K09	3	348
116.08	2468	1.21	29.0	96.18	2979	1.00	(**)	15.08	K09	3	348
114.53	2501	1.80	29.0	94.90	3019	1.49	29.0	15.28	K09	3	348
93.13	3076	1.46	29.0	77.16	3713	1.21	29.0	18.79	K09	3	348
78.12	3667	1.23	29.0	64.73	4426	1.02	(**)	22.40	K09	3	348

PN = 30.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
67.39	4251	1.06	(**)	55.84	5131	0.88	(**)	25.97	K09	3	348
55.36	5175	0.87	(**)	45.87	6246	0.72	(**)	31.61	K09	3	348
263.67	1087	3.93	40.0	218.47	1311	3.26	41.9	6.64	K10	3	463
210.50	1361	3.14	42.3	174.42	1643	2.60	44.2	8.31	K10	3	463
170.79	1677	2.55	44.4	141.51	2025	2.11	46.4	10.25	K10	3	463
150.13	1908	3.93	46.3	124.39	2303	3.26	48.3	11.66	K10	3	463
139.37	2056	2.08	46.5	115.48	2481	1.72	48.4	12.56	K10	3	463
119.85	2390	3.14	48.7	99.31	2885	2.60	50.7	14.60	K10	3	463
117.85	2431	1.76	48.2	97.64	2934	1.46	50.0	14.85	K10	3	463
101.78	2815	1.52	49.6	84.34	3397	1.26	51.4	17.19	K10	3	463
97.25	2946	2.55	50.9	80.57	3556	2.11	52.8	18.00	K10	3	463
79.35	3610	2.08	53.0	65.75	4357	1.72	54.8	22.05	K10	3	463
67.10	4270	1.76	54.6	55.60	5153	1.46	55.5	26.08	K10	3	463
57.95	4944	1.52	55.5	48.02	5966	1.26	55.5	30.20	K10	3	463
56.73	5050	1.58	55.5	47.01	6095	1.31	55.5	30.85	K10	3	463
45.29	6325	1.26	55.5	37.53	7634	1.05	(**)	38.64	K10	3	463
36.75	7796	1.03	(**)	30.45	9409	0.85	(**)	47.62	K10	3	463
130.06	2203	3.70	72.1	107.77	2659	3.07	75.5	13.46	K12	3	580
107.56	2664	3.06	75.6	89.12	3215	2.54	79.0	16.27	K12	3	580
92.91	3084	2.64	78.3	76.98	3722	2.19	81.7	18.84	K12	3	580
81.16	3530	2.28	80.7	67.25	4260	1.89	84.2	21.56	K12	3	580
74.17	3863	3.37	83.3	61.45	4662	2.79	85.0	23.60	K12	3	580
61.34	4671	2.78	85.0	50.82	5637	2.31	85.0	28.53	K12	3	580
58.54	4894	2.66	85.0	48.50	5907	2.20	85.0	29.89	K12	3	580
52.98	5407	2.40	85.0	43.90	6526	1.99	85.0	33.03	K12	3	580
49.97	5734	2.27	85.0	41.40	6920	1.88	85.0	35.02	K12	3	580
46.28	6190	2.10	85.0	38.35	7471	1.74	85.0	37.81	K12	3	580
42.42	6753	1.93	85.0	35.15	8150	1.60	85.0	41.25	K12	3	580
34.87	8216	1.58	85.0	28.89	9915	1.31	85.0	50.18	K12	3	580
28.70	9984	1.30	85.0	23.78	12050	1.08	(**)	60.98	K12	3	580
23.73	12073	1.08	84.0	19.66	14570	0.89	(**)	73.74	K12	3	580
20.50	13976	0.93	(**)	16.98	16868	0.77	(**)	85.37	K12	3	580
74.74	3833	3.55	101.0	61.93	4626	2.94	101.0	23.41	K15	3	802
65.93	4346	2.57	101.0	54.63	5245	2.13	101.0	26.54	K15	3	802
54.63	5244	3.43	101.0	45.27	6329	2.84	101.0	32.03	K15	3	802
49.36	5804	3.10	101.0	40.90	7005	2.57	101.0	35.45	K15	3	802
46.92	6106	2.95	101.0	38.88	7369	2.44	101.0	37.30	K15	3	802
42.72	6707	2.68	101.0	35.39	8095	2.22	101.0	40.97	K15	3	802
41.39	6922	2.57	101.0	34.29	8354	2.13	101.0	42.28	K15	3	802
36.72	7803	2.31	101.0	30.42	9417	1.91	101.0	47.66	K15	3	802
30.62	9357	1.92	101.0	25.37	11293	1.59	101.0	57.15	K15	3	802
25.41	11277	1.60	101.0	21.05	13610	1.32	101.0	68.88	K15	3	802
21.14	13554	1.33	101.0	17.51	16358	1.10	101.0	82.79	K15	3	802
18.15	15781	1.14	101.0	15.04	19046	0.95	(**)	96.39	K15	3	802
16.01	17891	1.01	(**)	13.27	21592	0.83	(**)	109.28	K15	3	802

Note: (**) Upon request.

PN = 37.00 kW

PN = 37.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
234.94	1504	1.29	20.5	194.66	1815	1.07	(**)	7.45	K08	3	328
192.62	1834	1.06	(**)	159.60	2214	0.87	(**)	9.09	K08	3	328
162.32	2177	0.89	(**)	134.49	2627	0.74	(**)	10.78	K08	3	328
133.97	2638	1.14	20.5	111.00	3183	0.94	(**)	13.06	K08	3	328
109.84	3217	0.93	(**)	91.01	3882	0.77	(**)	15.93	K08	3	328
252.30	1400	2.14	27.3	209.05	1690	1.77	28.1	6.94	K09	3	376
197.27	1791	1.67	28.4	163.45	2162	1.38	29.0	8.87	K09	3	376
160.40	2203	1.36	29.0	132.90	2659	1.13	29.0	10.91	K09	3	376
146.49	2412	1.87	29.0	121.37	2911	1.55	29.0	11.95	K09	3	376
134.55	2626	1.14	29.0	111.49	3169	0.94	(**)	13.01	K09	3	376
116.08	3044	0.98	(**)	96.18	3674	0.81	(**)	15.08	K09	3	376
114.53	3085	1.46	29.0	94.90	3723	1.21	29.0	15.28	K09	3	376
93.13	3794	1.19	29.0	77.16	4579	0.98	(**)	18.79	K09	3	376
78.12	4523	0.99	(**)	64.73	5459	0.82	(**)	22.40	K09	3	376
67.39	5243	0.86	(**)	55.84	6328	0.71	(**)	25.97	K09	3	376
263.67	1340	3.19	39.4	218.47	1617	2.64	41.1	6.64	K10	3	491
210.50	1679	2.54	41.5	174.42	2026	2.11	43.2	8.31	K10	3	491
170.79	2069	2.06	43.4	141.51	2497	1.71	45.1	10.25	K10	3	491
150.13	2354	3.19	45.2	124.39	2841	2.64	47.0	11.66	K10	3	491
139.37	2535	1.68	45.3	115.48	3060	1.40	46.9	12.56	K10	3	491
119.85	2948	2.54	47.4	99.31	3558	2.11	49.1	14.60	K10	3	491
117.85	2998	1.42	46.7	97.64	3619	1.18	48.2	14.85	K10	3	491
101.78	3472	1.23	47.9	84.34	4190	1.02	(**)	17.19	K10	3	491
97.25	3634	2.06	49.3	80.57	4385	1.71	50.9	18.00	K10	3	491
79.35	4453	1.68	51.0	65.75	5374	1.40	52.4	22.05	K10	3	491
67.10	5266	1.42	52.2	55.60	6356	1.18	53.4	26.08	K10	3	491
57.95	6097	1.23	53.2	48.02	7359	1.02	(**)	30.20	K10	3	491
56.73	6228	1.28	53.3	47.01	7517	1.06	(**)	30.85	K10	3	491
45.29	7801	1.03	(**)	37.53	9415	0.85	(**)	38.64	K10	3	491
158.06	2236	3.65	67.7	130.96	2698	3.02	70.8	11.07	K12	3	608
130.06	2717	3.00	70.9	107.77	3279	2.49	74.1	13.46	K12	3	608
107.56	3285	2.48	74.1	89.12	3965	2.06	77.2	16.27	K12	3	608
92.91	3803	2.14	76.5	76.98	4590	1.78	79.6	18.84	K12	3	608
90.13	3920	3.32	78.0	74.68	4731	2.75	81.3	19.42	K12	3	608
81.16	4354	1.85	78.8	67.25	5255	1.53	81.8	21.56	K12	3	608
74.17	4764	2.73	81.4	61.45	5750	2.26	84.6	23.60	K12	3	608
61.34	5761	2.26	84.6	50.82	6953	1.87	85.0	28.53	K12	3	608
58.54	6036	2.15	85.0	48.50	7285	1.78	85.0	29.89	K12	3	608
52.98	6669	1.95	85.0	43.90	8049	1.62	85.0	33.03	K12	3	608
49.97	7072	1.84	85.0	41.40	8535	1.52	85.0	35.02	K12	3	608
46.28	7635	1.70	85.0	38.35	9215	1.41	85.0	37.81	K12	3	608
42.42	8329	1.56	85.0	35.15	10052	1.29	85.0	41.25	K12	3	608
34.87	10133	1.28	85.0	28.89	12229	1.06	(**)	50.18	K12	3	608
28.70	12314	1.06	(**)	23.78	14861	0.87	(**)	60.98	K12	3	608
23.73	14890	0.87	(**)	19.66	17970	0.72	(**)	73.74	K12	3	608
87.03	4060	3.30	101.0	72.11	4900	2.73	101.0	20.11	K15	3	830
74.74	4728	2.88	101.0	61.93	5706	2.38	101.0	23.41	K15	3	830
65.93	5360	2.09	101.0	54.63	6468	1.73	101.0	26.54	K15	3	830
65.67	5381	3.35	101.0	54.41	6494	2.77	101.0	26.65	K15	3	830
54.63	6468	2.78	101.0	45.27	7806	2.31	101.0	32.03	K15	3	830

PN = 37.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
49.36	7158	2.51	101.0	40.90	8640	2.08	101.0	35.45	K15	3	830
46.92	7530	2.39	101.0	38.88	9089	1.98	101.0	37.30	K15	3	830
42.72	8272	2.18	101.0	35.39	9983	1.80	101.0	40.97	K15	3	830
41.39	8537	2.09	101.0	34.29	10304	1.73	101.0	42.28	K15	3	830
36.72	9624	1.87	101.0	30.42	11615	1.55	101.0	47.66	K15	3	830
30.62	11540	1.56	101.0	25.37	13927	1.29	101.0	57.15	K15	3	830
25.41	13908	1.29	101.0	21.05	16785	1.07	100.0	68.88	K15	3	830
21.14	16716	1.08	100.0	17.51	20175	0.89	(**)	82.79	K15	3	830
18.15	19463	0.92	(**)	15.04	23490	0.77	(**)	96.39	K15	3	830

Note: (**) Upon request.

PN = 45.00 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
234.94	1829	1.06	(**)	194.66	2208	0.88	(**)	7.45	K08	3	495
192.62	2231	0.87	(**)	159.60	2693	0.72	(**)	9.09	K08	3	495
133.97	3208	0.94	(**)	111.00	3871	0.77	(**)	13.06	K08	3	495
252.30	1703	1.76	26.2	209.05	2056	1.46	26.8	6.94	K09	3	543
197.27	2178	1.37	26.9	163.45	2629	1.14	27.3	8.87	K09	3	543
160.40	2679	1.12	27.3	132.90	3234	0.93	(**)	10.91	K09	3	543
146.49	2934	1.53	28.5	121.37	3541	1.27	28.7	11.95	K09	3	543
134.55	3194	0.94	(**)	111.49	3855	0.78	(**)	13.01	K09	3	543
114.53	3752	1.20	28.8	94.90	4528	0.99	(**)	15.28	K09	3	543
93.13	4615	0.98	(**)	77.16	5569	0.81	(**)	18.79	K09	3	543
263.67	1630	2.62	38.6	218.47	1967	2.17	40.2	6.64	K10	3	658
210.50	2042	2.09	40.5	174.42	2464	1.73	42.1	8.31	K10	3	658
170.79	2516	1.70	42.2	141.51	3037	1.41	43.7	10.25	K10	3	658
150.13	2863	2.62	44.0	124.39	3455	2.17	45.6	11.66	K10	3	658
139.37	3084	1.38	43.8	115.48	3722	1.15	45.1	12.56	K10	3	658
119.85	3586	2.09	45.9	99.31	4327	1.73	47.3	14.60	K10	3	658
117.85	3647	1.17	45.0	97.64	4401	0.97	(**)	14.85	K10	3	658
101.78	4222	1.01	(**)	84.34	5096	0.84	(**)	17.19	K10	3	658
97.25	4419	1.70	47.4	80.57	5334	1.41	48.6	18.00	K10	3	658
79.35	5416	1.38	48.7	65.75	6536	1.15	49.6	22.05	K10	3	658
67.10	6405	1.17	49.6	55.60	7730	0.97	(**)	26.08	K10	3	658
57.95	7415	1.01	(**)	48.02	8950	0.84	(**)	30.20	K10	3	658
56.73	7575	1.06	(**)	47.01	9142	0.88	(**)	30.85	K10	3	658
192.29	2235	3.65	63.5	159.32	2697	3.02	66.4	9.10	K12	3	775
158.06	2719	3.00	66.5	130.96	3281	2.49	69.4	11.07	K12	3	775
130.06	3304	2.47	69.5	107.77	3988	2.04	72.4	13.46	K12	3	775
129.15	3328	3.91	70.4	107.01	4016	3.24	73.5	13.55	K12	3	775
109.65	3919	3.32	73.1	90.85	4730	2.75	76.1	15.96	K12	3	775
107.56	3995	2.04	72.4	89.12	4822	1.69	75.2	16.27	K12	3	775
92.91	4625	1.76	74.6	76.98	5582	1.46	77.2	18.84	K12	3	775
90.13	4768	2.73	76.2	74.68	5754	2.26	79.1	19.42	K12	3	775
81.16	5295	1.52	76.5	67.25	6391	1.26	79.1	21.56	K12	3	775
74.17	5794	2.24	79.2	61.45	6993	1.86	81.9	23.60	K12	3	775
61.34	7006	1.86	82.0	50.82	8456	1.54	84.5	28.53	K12	3	775
58.54	7341	1.77	82.6	48.50	8860	1.47	85.0	29.89	K12	3	775
52.98	8111	1.60	84.0	43.90	9789	1.33	85.0	33.03	K12	3	775

PN = 45.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
49.97	8601	1.51	84.7	41.40	10380	1.25	85.0	35.02	K12	3	775
46.28	9286	1.40	85.0	38.35	11207	1.16	85.0	37.81	K12	3	775
42.42	10130	1.28	85.0	35.15	12226	1.06	(**)	41.25	K12	3	775
34.87	12323	1.05	(**)	28.89	14873	0.87	(**)	50.18	K12	3	775
28.70	14976	0.87	(**)	23.78	18074	0.72	(**)	60.98	K12	3	775
104.60	4109	3.44	101.0	86.67	4959	2.85	101.0	16.73	K15	3	997
94.90	4529	3.97	101.0	78.63	5465	3.29	101.0	18.44	K15	3	997
87.03	4938	2.71	101.0	72.11	5960	2.25	101.0	20.11	K15	3	997
79.14	5430	3.31	101.0	65.57	6554	2.75	101.0	22.11	K15	3	997
74.74	5750	2.36	101.0	61.93	6939	1.96	101.0	23.41	K15	3	997
65.93	6518	1.71	101.0	54.63	7867	1.42	101.0	26.54	K15	3	997
65.67	6544	2.75	101.0	54.41	7899	2.28	101.0	26.65	K15	3	997
54.63	7866	2.29	101.0	45.27	9493	1.90	101.0	32.03	K15	3	997
49.36	8706	2.07	101.0	40.90	10508	1.71	101.0	35.45	K15	3	997
46.92	9159	1.97	101.0	38.88	11054	1.63	101.0	37.30	K15	3	997
42.72	10060	1.79	101.0	35.39	12142	1.48	101.0	40.97	K15	3	997
41.39	10383	1.71	101.0	34.29	12531	1.42	101.0	42.28	K15	3	997
36.72	11705	1.54	101.0	30.42	14126	1.27	101.0	47.66	K15	3	997
30.62	14035	1.28	101.0	25.37	16939	1.06	(**)	57.15	K15	3	997
25.41	16915	1.06	(**)	21.05	20415	0.88	(**)	68.88	K15	3	997
21.14	20330	0.89	(**)	17.51	24537	0.73	(**)	82.79	K15	3	997

Note: (**) Upon request.

PN = 55.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
234.94	2236	0.87	(**)	194.66	2698	0.72	(**)	7.45	K08	3	495
252.30	2082	1.44	24.8	209.05	2513	1.19	25.1	6.94	K09	3	543
197.27	2663	1.12	25.1	163.45	3213	0.93	(**)	8.87	K09	3	543
160.40	3275	0.91	(**)	132.90	3952	0.76	(**)	10.91	K09	3	543
146.49	3586	1.25	26.4	121.37	4328	1.04	(**)	11.95	K09	3	543
114.53	4586	0.98	(**)	94.90	5535	0.81	(**)	15.28	K09	3	543
263.67	1992	2.14	37.6	218.47	2404	1.78	39.0	6.64	K10	3	658
210.50	2495	1.71	39.3	174.42	3011	1.42	40.6	8.31	K10	3	658
170.79	3075	1.39	40.8	141.51	3712	1.15	41.9	10.25	K10	3	658
150.13	3499	2.14	42.5	124.39	4223	1.78	43.8	11.66	K10	3	658
139.37	3769	1.13	42.0	115.48	4549	0.94	(**)	12.56	K10	3	658
119.85	4382	1.71	44.0	99.31	5289	1.42	45.0	14.60	K10	3	658
117.85	4457	0.96	(**)	97.64	5379	0.79	(**)	14.85	K10	3	658
97.25	5401	1.39	45.1	80.57	6519	1.15	45.8	18.00	K10	3	658
79.35	6619	1.13	45.9	65.75	7989	0.94	(**)	22.05	K10	3	658
67.10	7828	0.96	(**)	55.60	9448	0.79	(**)	26.08	K10	3	658
56.73	9258	0.86	(**)	47.01	11174	0.72	(**)	30.85	K10	3	658
226.48	2319	3.52	60.0	187.65	2799	2.91	62.7	7.73	K12	3	775
192.29	2732	2.99	62.3	159.32	3297	2.47	65.0	9.10	K12	3	775
158.06	3323	2.45	65.1	130.96	4011	2.03	67.7	11.07	K12	3	775
151.30	3472	3.74	66.5	125.37	4190	3.10	69.3	11.57	K12	3	775
130.06	4038	2.02	67.7	107.77	4874	1.67	70.2	13.46	K12	3	775
129.15	4067	3.20	68.9	107.01	4909	2.65	71.6	13.55	K12	3	775
109.65	4790	2.71	71.2	90.85	5781	2.25	73.8	15.96	K12	3	775

PN = 55.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
107.56	4883	1.67	70.3	89.12	5894	1.38	72.6	16.27	K12	3	775
92.91	5653	1.44	72.1	76.98	6823	1.20	74.3	18.84	K12	3	775
90.13	5828	2.23	73.9	74.68	7033	1.85	76.3	19.42	K12	3	775
81.16	6472	1.24	73.7	67.25	7811	1.03	(**)	21.56	K12	3	775
74.17	7082	1.84	76.4	61.45	8547	1.52	78.6	23.60	K12	3	775
61.34	8563	1.52	78.6	50.82	10335	1.26	80.4	28.53	K12	3	775
58.54	8973	1.45	79.1	48.50	10829	1.20	80.8	29.89	K12	3	775
52.98	9914	1.31	80.1	43.90	11965	1.09	(**)	33.03	K12	3	775
49.97	10512	1.24	80.6	41.40	12687	1.02	(**)	35.02	K12	3	775
46.28	11349	1.15	81.2	38.35	13697	0.95	(**)	37.81	K12	3	775
42.42	12381	1.05	(**)	35.15	14942	0.87	(**)	41.25	K12	3	775
34.87	15062	0.86	(**)	28.89	18178	0.72	(**)	50.18	K12	3	775
126.06	4167	3.39	98.3	104.45	5029	2.81	101.0	13.88	K15	3	997
110.41	4757	3.78	101.0	91.48	5742	3.13	101.0	15.85	K15	3	997
104.60	5022	2.81	101.0	86.67	6060	2.33	101.0	16.73	K15	3	997
94.90	5535	3.25	101.0	78.63	6680	2.69	101.0	18.44	K15	3	997
87.03	6035	2.22	101.0	72.11	7284	1.84	101.0	20.11	K15	3	997
79.14	6637	2.71	101.0	65.57	8010	2.25	101.0	22.11	K15	3	997
74.74	7027	1.93	101.0	61.93	8481	1.60	101.0	23.41	K15	3	997
65.93	7967	1.40	101.0	54.63	9615	1.16	101.0	26.54	K15	3	997
65.67	7999	2.25	101.0	54.41	9654	1.86	101.0	26.65	K15	3	997
54.63	9614	1.87	101.0	45.27	11603	1.55	101.0	32.03	K15	3	997
49.36	10641	1.69	101.0	40.90	12843	1.40	101.0	35.45	K15	3	997
46.92	11194	1.61	101.0	38.88	13510	1.33	101.0	37.30	K15	3	997
42.72	12296	1.46	101.0	35.39	14840	1.21	101.0	40.97	K15	3	997
41.39	12690	1.40	101.0	34.29	15316	1.16	101.0	42.28	K15	3	997
36.72	14306	1.26	101.0	30.42	17265	1.04	(**)	47.66	K15	3	997
30.62	17154	1.05	(**)	25.37	20703	0.87	(**)	57.15	K15	3	997
25.41	20674	0.87	(**)	21.05	24951	0.72	(**)	68.88	K15	3	997

Note: (**) Upon request.

6 SELECTION TABLES - GEARBOXES

Structured Selection Tables

Size	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	n1 1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
1	2	3	4	5	6	7	8	9											

1. Size of the gearbox.
2. Stages of the reducer.
3. Exact gear ratio of the reducer.
4. Permissible output torque for operating mode S1 (Fs = 1.0).
5. Permissible input power for operating mode S1 (Fs = 1.0).
6. Output speed with n1 = 1750 rpm.
7. Weight of the gearbox (without motor).
8. Maximum input speed.
9. Applicable motor frame size.

Type	Stages	I_{ex}	M2 Adm (Nm)	P Adm (kW)	1750 n2 rpm	Weight Gearbox (kg)	RPM Max	63	71	80	90	100	112	132	160	180	200	225	250
K02	2	3.82	77	3.698	458.7	5.4	1800	●	●	●	●								
K02	2	5.20	81	2.863	336.5	5.4	1800	●	●	●	●								
K02	2	6.91	81	2.156	253.4	5.4	1800	●	●	●	●								
K02	2	7.63	80	1.921	229.3	5.4	1800	●	●	●	●								
K02	2	8.51	83	1.786	205.6	5.4	1800	●	●	●	●								
K02	2	9.25	81	1.610	189.2	5.4	1800	●	●	●	●								
K02	2	10.40	89	1.563	168.3	5.4	1800	●	●	●	●								
K02	2	11.60	92	1.453	150.9	5.4	1800	●	●	●	●								
K02	2	13.81	97	1.293	126.7	5.4	1800	●	●	●	●								
K02	2	15.41	101	1.203	113.6	5.4	1800	●	●	●	●								
K02	2	18.50	107	1.065	94.6	5.4	1800	●	●	●	●								
K02	2	20.63	110	0.977	84.8	5.4	1800	●	●	●	●								
K02	2	23.68	110	0.851	73.9	5.4	1800	●	●	●	●								
K02	2	26.41	110	0.763	66.3	5.4	1800	●	●	●	●								
K02	2	30.73	110	0.656	57.0	5.4	1800	●	●	●	●								
K02	2	34.27	110	0.588	51.1	5.4	1800	●	●	●	●								
K02	2	39.00	110	0.517	44.9	5.4	1800	●	●	●	●								
K02	2	43.50	110	0.463	40.2	5.4	1800	●	●	●	●								
K02	2	48.10	110	0.419	36.4	5.4	1800	●	●	●	●								
K02	2	53.65	110	0.376	32.6	5.4	1800	●	●	●	●								
K02	2	61.75	102	0.303	28.3	5.4	1800	●	●										
K02	2	68.88	110	0.293	25.4	5.4	1800	●	●										
K03	3	5.34	140	4.806	327.8	7.3	1800	●	●	●	●	●							
K03	3	6.86	150	4.006	255.1	7.3	1800	●	●	●	●	●							
K03	3	9.03	160	3.248	193.8	7.3	1800	●	●	●	●	●							
K03	3	11.94	160	2.455	146.5	7.3	1800	●	●	●	●	●							
K03	3	12.81	190	2.718	136.6	7.3	1800	●	●	●	●	●							
K03	3	14.96	160	1.960	117.0	7.3	1800	●	●	●	●	●							
K03	3	16.47	200	2.226	106.3	7.3	1800	●	●	●	●	●							
K03	3	19.37	160	1.514	90.4	7.3	1800	●	●	●	●								
K03	3	21.67	200	1.692	80.8	7.3	1800	●	●	●	●	●							
K03	3	28.67	200	1.278	61.0	7.3	1800	●	●	●	●	●							
K03	3	35.90	200	1.021	48.7	7.3	1800	●	●	●	●	●							
K03	3	38.80	200	0.944	45.1	7.3	1800	●	●	●	●	●							

Type	Stages	I_{ex}	M2 Adm (Nm)	P Adm (kW)	1750 n2 rpm	Weight Gearbox (kg)	RPM Max	63	71	80	90	100	112	132	160	180	200	225	250
K03	3	46.48	200	0.788	37.6	7.3	1800	●	●	●	●								
K03	3	49.88	200	0.735	35.1	7.3	1800	●	●	●	●	●							
K03	3	58.50	200	0.626	29.9	7.3	1800	●	●	●	●								
K03	3	65.63	200	0.558	26.7	7.3	1800	●	●	●	●	●							
K03	3	71.93	200	0.509	24.3	7.3	1800	●	●	●	●								
K03	3	86.83	200	0.422	20.2	7.3	1800	●	●	●	●	●							
K03	3	108.75	200	0.337	16.1	7.3	1800	●	●	●	●	●							
K03	3	140.80	200	0.260	12.4	7.3	1800	●	●	●	●								
K03	3	177.19	200	0.207	9.9	7.3	1800	●	●	●	●								
K03	3	217.88	200	0.168	8.0	7.3	1800	●	●	●	●								
K04	3	5.05	170	6.168	346.5	11.1	1800			●	●	●	●						
K04	3	6.23	180	5.293	280.8	11.1	1800			●	●	●	●						
K04	3	7.44	190	4.677	235.1	11.1	1800			●	●	●	●						
K04	3	9.18	200	3.992	190.6	11.1	1800	●	●	●	●	●	●						
K04	3	9.57	300	5.746	182.9	11.1	1800			●	●	●	●						
K04	3	11.22	210	3.431	156.0	11.1	1800	●	●	●	●	●	●						
K04	3	11.81	310	4.812	148.2	11.1	1800			●	●	●	●						
K04	3	14.10	330	4.288	124.1	11.1	1800			●	●	●	●						
K04	3	14.85	230	2.839	117.9	11.1	1800	●	●	●	●	●	●						
K04	3	17.39	350	3.688	100.6	11.1	1800	●	●	●	●	●	●						
K04	3	21.25	370	3.191	82.4	11.1	1800	●	●	●	●	●	●						
K04	3	28.13	400	2.606	62.2	11.1	1800	●	●	●	●	●	●						
K04	3	29.81	400	2.459	58.7	11.1	1800			●	●	●	●						
K04	3	36.54	400	2.006	47.9	11.1	1800	●	●	●	●	●	●						
K04	3	43.93	400	1.668	39.8	11.1	1800	●	●	●	●	●	●						
K04	3	54.18	400	1.353	32.3	11.1	1800	●	●	●	●	●	●						
K04	3	57.58	400	1.273	30.4	11.1	1800	●	●	●	●								
K04	3	66.20	400	1.107	26.4	11.1	1800	●	●	●	●	●	●						
K04	3	72.92	400	1.005	24.0	11.1	1800	●	●	●	●								
K04	3	87.62	400	0.837	20.0	11.1	1800	●	●	●	●	●	●						
K04	3	113.83	400	0.644	15.4	11.1	1800	●	●	●	●	●	●						
K04	3	139.08	400	0.527	12.6	11.1	1800	●	●	●	●	●	●						
K04	3	179.37	400	0.409	9.8	11.1	1800	●	●	●	●								
K04	3	227.16	400	0.323	7.7	11.1	1800	●	●	●	●								
K04	3	277.79	400	0.264	6.3	11.1	1800	●	●	●	●								
K05	3	4.27	380	16.302	409.7	14.0	1800			●	●	●	●	●					
K05	3	5.39	410	13.951	325.0	14.0	1800			●	●	●	●	●					
K05	3	6.55	410	11.471	267.2	14.0	1800			●	●	●	●	●					
K05	3	7.71	410	9.746	227.0	14.0	1800			●	●	●	●	●					
K05	3	8.97	540	11.031	195.1	14.0	1800			●	●	●	●	●					
K05	3	9.40	410	7.995	186.2	14.0	1800	●	●	●	●	●	●	●					
K05	3	11.31	580	9.398	154.7	14.0	1800			●	●	●	●	●					
K05	3	13.75	600	7.994	127.2	14.0	1800			●	●	●	●	●					
K05	3	14.98	410	5.015	116.8	14.0	1800	●	●	●	●	●	●	●					
K05	3	16.19	600	6.792	108.1	14.0	1800			●	●	●	●	●					
K05	3	19.35	410	3.883	90.5	14.0	1800	●	●	●	●	●	●	●					
K05	3	23.93	600	4.594	73.1	14.0	1800	●	●	●	●	●	●	●					
K05	3	27.39	600	4.014	63.9	14.0	1800	●	●	●	●	●	●	●					
K06	3	4.94	470	17.418	353.9	28.0	1800			●	●	●	●	●					
K06	3	6.23	500	14.709	280.7	28.0	1800			●	●	●	●	●					

Type	Stages	I_{ex}	M2 Adm (Nm)	P Adm (kW)	1750 n2 rpm	Weight Gearbox (kg)	RPM Max	63	71	80	90	100	112	132	160	180	200	225	250
K06	3	7.58	500	12.094	230.8	28.0	1800			●	●	●	●	●					
K06	3	8.92	500	10.276	196.1	28.0	1800			●	●	●	●	●					
K06	3	9.09	640	12.903	192.5	28.0	1800			●	●	●	●	●					
K06	3	10.88	500	8.429	160.9	28.0	1800		●	●	●	●	●	●					
K06	3	11.46	680	10.874	152.7	28.0	1800			●	●	●	●	●					
K06	3	13.19	500	6.951	132.7	28.0	1800		●	●	●	●	●						
K06	3	13.94	720	9.467	125.6	28.0	1800			●	●	●	●	●					
K06	3	16.40	750	8.379	106.7	28.0	1800			●	●	●	●	●					
K06	3	17.34	500	5.287	100.9	28.0	1800		●	●	●	●							
K06	3	20.00	800	7.331	87.5	28.0	1800		●	●	●	●	●	●					
K06	3	22.07	730	6.060	79.3	28.0	1800			●	●	●	●	●					
K06	3	24.25	820	6.196	72.2	28.0	1800		●	●	●	●	●						
K06	3	27.83	780	5.136	62.9	28.0	1800			●	●	●	●	●					
K06	3	31.88	820	4.713	54.9	28.0	1800		●	●	●	●							
K06	3	33.85	820	4.440	51.7	28.0	1800			●	●	●	●	●					
K06	3	39.83	820	3.772	43.9	28.0	1800			●	●	●	●	●					
K06	3	41.17	820	3.650	42.5	28.0	1800		●	●	●	●							
K06	3	48.56	820	3.094	36.0	28.0	1800		●	●	●	●	●	●					
K06	3	50.17	820	2.995	34.9	28.0	1800		●	●	●	●							
K06	3	58.89	820	2.551	29.7	28.0	1800		●	●	●	●							
K06	3	64.62	820	2.325	27.1	28.0	1800		●	●	●								
K06	3	77.42	820	1.941	22.6	28.0	1800		●	●	●	●							
K06	3	99.98	820	1.503	17.5	28.0	1800		●	●	●	●							
K06	3	121.85	820	1.233	14.4	28.0	1800		●	●	●	●							
K06	3	156.92	820	0.958	11.2	28.0	1800		●	●	●								
K05	3	31.46	600	3.494	55.6	14.0	1800	●	●	●	●	●	●	●					
K05	3	34.53	600	3.184	50.7	14.0	1800			●	●	●	●	●					
K05	3	40.63	600	2.706	43.1	14.0	1800	●	●	●	●	●	●	●					
K05	3	42.00	600	2.618	41.7	14.0	1800			●	●	●	●	●					
K05	3	49.52	600	2.220	35.3	14.0	1800	●	●	●	●	●	●	●					
K05	3	60.26	600	1.825	29.0	14.0	1800	●	●	●	●	●	●	●					
K05	3	63.77	600	1.724	27.4	14.0	1800	●	●	●	●								
K05	3	73.08	600	1.504	23.9	14.0	1800	●	●	●	●	●	●	●					
K05	3	80.46	560	1.275	21.7	14.0	1800	●	●	●	●								
K05	3	96.08	600	1.144	18.2	14.0	1800	●	●	●	●	●	●	●					
K05	3	124.06	600	0.886	14.1	14.0	1800	●	●	●	●	●	●	●					
K05	3	151.20	600	0.727	11.6	14.0	1800	●	●	●	●	●	●	●					
K05	3	194.73	600	0.565	9.0	14.0	1800	●	●	●	●								
K05	3	245.70	600	0.447	7.1	14.0	1800	●	●	●	●								
K06	3	198.00	820	0.759	8.8	28.0	1800		●	●	●								
K07	3	7.91	910	21.073	221.2	48.0	1800			●	●	●	●	●	●				
K07	3	9.60	910	17.360	182.2	48.0	1800			●	●	●	●	●	●				
K07	3	11.37	910	14.660	153.9	48.0	1800			●	●	●	●	●	●				
K07	3	13.12	910	12.705	133.4	48.0	1800			●	●	●	●	●					
K07	3	15.43	910	10.807	113.4	48.0	1800			●	●	●	●	●					
K07	3	16.61	1550	17.096	105.3	48.0	1800			●	●	●	●	●	●				
K07	3	18.65	910	8.939	93.8	48.0	1800			●	●	●	●						
K07	3	20.17	1550	14.084	86.8	48.0	1800			●	●	●	●	●	●				
K07	3	23.88	1550	11.893	73.3	48.0	1800			●	●	●	●	●	●				
K07	3	27.56	1550	10.307	63.5	48.0	1800			●	●	●	●	●					

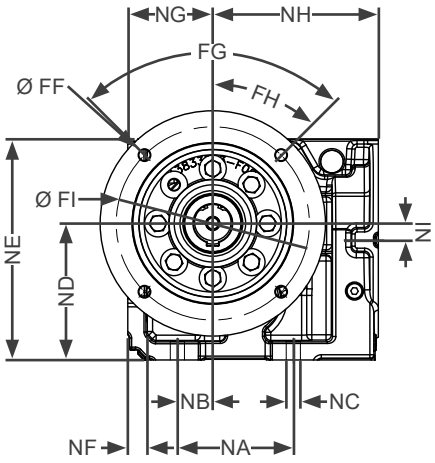
Type	Stages	I_{ex}	M2 Adm (Nm)	P Adm (kW)	1750 n2 rpm	Weight Gearbox (kg)	RPM Max	63	71	80	90	100	112	132	160	180	200	225	250
K07	3	32.40	1550	8.767	54.0	48.0	1800			●	●	●	●	●					
K07	3	39.17	1550	7.252	44.7	48.0	1800			●	●	●	●						
K07	3	42.61	1550	6.666	41.1	48.0	1800			●	●	●	●	●	●				
K07	3	50.75	1550	5.597	34.5	48.0	1800			●	●	●							
K07	3	51.72	1550	5.491	33.8	48.0	1800			●	●	●	●	●	●				
K07	3	61.25	1550	4.637	28.6	48.0	1800			●	●	●	●	●	●				
K07	3	64.67	1550	4.392	27.1	48.0	1800			●	●	●							
K07	3	70.67	1550	4.019	24.8	48.0	1800			●	●	●	●	●					
K07	3	77.11	1550	3.684	22.7	48.0	1800			●	●	●							
K07	3	83.09	1550	3.418	21.1	48.0	1800			●	●	●	●	●					
K07	3	100.45	1550	2.828	17.4	48.0	1800			●	●	●	●						
K07	3	130.16	1550	2.182	13.4	48.0	1800			●	●	●							
K07	3	165.85	1550	1.713	10.6	48.0	1800			●	●	●							
K07	3	197.75	1550	1.436	8.8	48.0	1800			●	●	●							
K07	3	256.14	1550	1.109	6.8	48.0	1800			●	●	●							
K08	3	7.45	1937	47.644	234.9	85.0	1800							●	●	●	●	●	
K08	3	9.09	1937	39.063	192.6	85.0	1800							●	●	●	●	●	
K08	3	10.78	1937	32.918	162.3	85.0	1800							●	●	●	●	●	
K08	3	12.85	1937	27.613	136.2	85.0	1800						●	●	●	●			
K08	3	13.06	3000	42.085	134.0	85.0	1800							●	●	●	●	●	
K08	3	14.56	1747	21.990	120.2	85.0	1800						●	●	●	●			
K08	3	15.10	1937	23.501	115.9	85.0	1800				●	●	●	●	●	●			
K08	3	15.93	3000	34.505	109.8	85.0	1800							●	●	●	●	●	
K08	3	17.63	1937	20.135	99.3	85.0	1800				●	●	●	●	●				
K08	3	18.91	3000	29.077	92.6	85.0	1800							●	●	●	●	●	
K08	3	20.19	1886	17.115	86.7	85.0	1800			●	●	●	●	●					
K08	3	22.54	3000	24.392	77.6	85.0	1800						●	●	●	●			
K08	3	23.49	1916	14.950	74.5	85.0	1800			●	●	●	●	●					
K08	3	25.54	3000	21.528	68.5	85.0	1800						●	●	●	●			
K08	3	26.48	3000	20.759	66.1	85.0	1800				●	●	●	●	●	●			
K08	3	27.78	1901	12.541	63.0	85.0	1800			●	●	●	●						
K08	3	30.91	3000	17.786	56.6	85.0	1800				●	●	●	●	●				
K08	3	31.43	1916	11.173	55.7	85.0	1800			●	●	●							
K08	3	33.76	3000	16.283	51.8	85.0	1800							●	●	●	●	●	
K08	3	35.41	3000	15.527	49.4	85.0	1800			●	●	●	●	●					
K08	3	35.99	1631	8.303	48.6	85.0	1800			●	●								
K08	3	41.18	3000	13.350	42.5	85.0	1800							●	●	●	●	●	
K08	3	41.19	3000	13.346	42.5	85.0	1800			●	●	●	●	●					
K08	3	48.71	3000	11.286	35.9	85.0	1800			●	●	●	●						
K08	3	48.87	3000	11.250	35.8	85.0	1800							●	●	●	●	●	
K08	3	55.11	3000	9.974	31.8	85.0	1800			●	●	●							
K08	3	58.25	3000	9.437	30.0	85.0	1800						●	●	●	●			
K08	3	63.12	2860	8.303	27.7	85.0	1800			●	●								
K08	3	66.00	3000	8.329	26.5	85.0	1800						●	●	●	●			
K08	3	68.44	3000	8.032	25.6	85.0	1800				●	●	●	●	●	●			
K08	3	79.89	3000	6.881	21.9	85.0	1800				●	●	●	●	●				
K08	3	91.51	3000	6.007	19.1	85.0	1800			●	●	●	●	●					
K08	3	106.46	3000	5.164	16.4	85.0	1800			●	●	●	●	●					
K08	3	125.90	3000	4.367	13.9	85.0	1800			●	●	●	●	●					
K08	3	142.45	3000	3.859	12.3	85.0	1800			●	●	●							

Type	Stages	I_{ex}	M2 Adm (Nm)	P Adm (kW)	1750 n2 rpm	Weight Gearbox (kg)	RPM Max	63	71	80	90	100	112	132	160	180	200	225	250
K08	3	163.14	3000	3.370	10.7	85.0	1800			●	●								
K09	3	6.94	2991	79.031	252.3	133.0	1800								●	●	●	●	
K09	3	8.87	2991	61.792	197.3	133.0	1800								●	●	●	●	
K09	3	10.91	2991	50.243	160.4	133.0	1800							●	●	●	●	●	
K09	3	11.95	4500	69.025	146.5	133.0	1800								●	●	●	●	
K09	3	13.01	2991	42.147	134.6	133.0	1800							●	●	●	●	●	
K09	3	15.08	2991	36.360	116.1	133.0	1800							●	●	●	●	●	
K09	3	15.28	4500	53.969	114.5	133.0	1800								●	●	●	●	
K09	3	17.72	2991	30.943	98.8	133.0	1800						●	●	●	●			
K09	3	18.79	4500	43.882	93.1	133.0	1800							●	●	●	●	●	
K09	3	20.08	2409	21.990	87.2	133.0	1800						●	●	●	●			
K09	3	20.82	2991	26.327	84.0	133.0	1800				●	●	●	●	●	●			
K09	3	22.40	4500	36.810	78.1	133.0	1800							●	●	●	●	●	
K09	3	24.07	2991	22.775	72.7	133.0	1800				●	●	●	●	●				
K09	3	25.97	4500	31.756	67.4	133.0	1800							●	●	●	●	●	
K09	3	27.18	2795	18.849	64.4	133.0	1800				●	●	●	●					
K09	3	30.51	4500	27.025	57.4	133.0	1800						●	●	●	●			
K09	3	31.39	2806	16.377	55.7	133.0	1800				●	●	●	●					
K09	3	31.61	4500	26.085	55.4	133.0	1800								●	●	●	●	
K09	3	34.58	4150	21.990	50.6	133.0	1800						●	●	●	●			
K09	3	35.86	4500	22.994	48.8	133.0	1800				●	●	●	●	●	●			
K09	3	37.13	2785	13.743	47.1	133.0	1800				●	●	●						
K09	3	40.43	4500	20.395	43.3	133.0	1800								●	●	●	●	
K09	3	41.46	4500	19.891	42.2	133.0	1800				●	●	●	●	●				
K09	3	46.81	4500	17.617	37.4	133.0	1800				●	●	●	●					
K09	3	49.73	4500	16.583	35.2	133.0	1800							●	●	●	●	●	
K09	3	54.07	4500	15.250	32.4	133.0	1800				●	●	●	●					
K09	3	59.28	4500	13.911	29.5	133.0	1800							●	●	●	●	●	
K09	3	63.96	4500	12.893	27.4	133.0	1800				●	●	●						
K09	3	68.71	4500	12.001	25.5	133.0	1800							●	●	●	●	●	
K09	3	80.74	4500	10.213	21.7	133.0	1800						●	●	●	●			
K09	3	91.51	4500	9.011	19.1	133.0	1800						●	●	●	●			
K09	3	94.90	4500	8.689	18.4	133.0	1800				●	●	●	●	●	●			
K09	3	109.70	4500	7.517	16.0	133.0	1800				●	●	●	●	●				
K09	3	123.86	4500	6.657	14.1	133.0	1800				●	●	●	●					
K09	3	143.08	4500	5.763	12.2	133.0	1800				●	●	●	●					
K09	3	169.25	4500	4.872	10.3	133.0	1800				●	●	●						
K10	3	6.64	4269	117.872	263.7	248.0	1800									●	●	●	
K10	3	8.31	4269	94.104	210.5	248.0	1800								●	●	●	●	
K10	3	10.25	4269	76.353	170.8	248.0	1800								●	●	●	●	
K10	3	11.66	7498	117.872	150.1	248.0	1800									●	●	●	
K10	3	12.56	4269	62.304	139.4	248.0	1800							●	●	●	●	●	
K10	3	14.60	7498	94.104	119.9	248.0	1800								●	●	●	●	
K10	3	14.85	4269	52.683	117.8	248.0	1800							●	●	●	●	●	
K10	3	17.19	4269	45.503	101.8	248.0	1800							●	●	●	●	●	
K10	3	18.00	7498	76.353	97.2	248.0	1800								●	●	●	●	
K10	3	20.09	4269	38.940	87.1	248.0	1800							●	●	●			
K10	3	22.05	7498	62.304	79.4	248.0	1800							●	●	●	●	●	
K10	3	22.42	2691	21.990	78.0	248.0	1800							●	●	●			
K10	3	23.25	4269	33.644	75.3	248.0	1800							●	●	●			

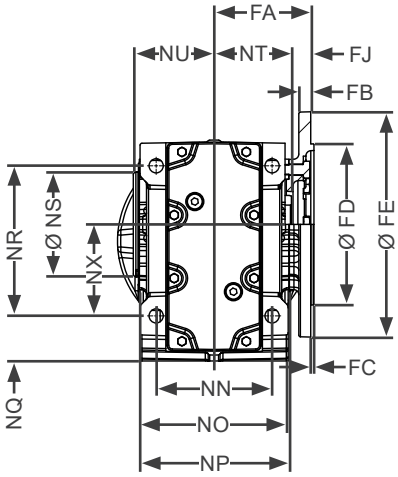
Type	Stages	I_{ex}	M2 Adm (Nm)	P Adm (kW)	1750 n2 rpm	Weight Gearbox (kg)	RPM Max	63	71	80	90	100	112	132	160	180	200	225	250
K10	3	26.08	7498	52.683	67.1	248.0	1800							●	●	●	●	●	
K10	3	26.79	4269	29.205	65.3	248.0	1800							●	●				
K10	3	30.20	7498	45.503	58.0	248.0	1800							●	●	●	●	●	
K10	3	30.33	3395	20.514	57.7	248.0	1800							●					
K10	3	30.85	8000	47.526	56.7	248.0	1800									●	●	●	
K10	3	35.29	7498	38.940	49.6	248.0	1800							●	●	●			
K10	3	38.64	8000	37.943	45.3	248.0	1800								●	●			
K10	3	39.38	4726	21.990	44.4	248.0	1800							●	●	●			
K10	3	40.84	7498	33.644	42.9	248.0	1800							●	●	●			
K10	3	47.05	7498	29.205	37.2	248.0	1800							●	●				
K10	3	47.62	8000	30.785	36.7	248.0	1800								●	●	●	●	
K10	3	53.27	5963	20.514	32.9	248.0	1800							●					
K10	3	58.36	8000	25.121	30.0	248.0	1800							●	●	●	●	●	
K10	3	69.01	8000	21.242	25.4	248.0	1800							●	●	●	●	●	
K10	3	79.90	8000	18.347	21.9	248.0	1800							●	●	●	●	●	
K10	3	93.37	8000	15.700	18.7	248.0	1800							●	●	●			
K10	3	104.21	8000	14.068	16.8	248.0	1800							●	●	●			
K10	3	108.07	8000	13.565	16.2	248.0	1800							●	●	●			
K10	3	124.50	8000	11.775	14.1	248.0	1800							●	●				
K10	3	140.95	8000	10.400	12.4	248.0	1800							●					
K12	3	6.60	8155	226.559	265.3	365.0	1800										●	●	
K12	3	7.73	8155	193.383	226.5	365.0	1800										●	●	
K12	3	9.10	8155	164.188	192.3	365.0	1800									●	●	●	
K12	3	11.07	8155	134.962	158.1	365.0	1800								●	●	●	●	
K12	3	11.57	13000	205.963	151.3	365.0	1800										●	●	
K12	3	13.46	8155	111.058	130.1	365.0	1800								●	●	●	●	
K12	3	13.55	13000	175.803	129.1	365.0	1800										●	●	
K12	3	15.96	13000	149.262	109.7	365.0	1800									●	●	●	
K12	3	16.27	8155	91.844	107.6	365.0	1800							●	●	●	●	●	
K12	3	18.84	8155	79.335	92.9	365.0	1800							●	●	●	●	●	
K12	3	19.42	13000	122.693	90.1	365.0	1800								●	●	●	●	
K12	3	21.56	8053	68.434	81.2	365.0	1800							●	●	●	●	●	
K12	3	23.60	13000	100.962	74.2	365.0	1800								●	●	●	●	
K12	3	25.04	8155	59.677	69.9	365.0	1800							●	●	●			
K12	3	28.03	3364	21.990	62.4	365.0	1800							●	●	●			
K12	3	28.53	13000	83.494	61.3	365.0	1800							●	●	●	●	●	
K12	3	29.07	6335	39.935	60.2	365.0	1800							●	●	●			
K12	3	29.89	13000	79.688	58.5	365.0	1800										●	●	
K12	3	33.03	13000	72.123	53.0	365.0	1800							●	●	●	●	●	
K12	3	33.34	5000	27.480	52.5	365.0	1800							●	●				
K12	3	35.02	13000	68.019	50.0	365.0	1800										●	●	
K12	3	37.81	13000	63.000	46.3	365.0	1800							●	●				
K12	3	41.25	13000	57.750	42.4	365.0	1800									●	●	●	
K12	3	43.91	13000	54.251	39.9	365.0	1800							●	●	●			
K12	3	49.16	5899	21.990	35.6	365.0	1800							●	●	●	●		
K12	3	50.18	13000	47.470	34.9	365.0	1800								●	●	●	●	
K12	3	50.98	11109	39.935	34.3	365.0	1800							●	●	●	●		
K12	3	58.47	8768	27.480	29.9	365.0	1800							●	●	●	●		
K12	3	60.98	13000	39.063	28.7	365.0	1800								●	●	●	●	
K12	3	73.74	13000	32.304	23.7	365.0	1800							●	●	●	●	●	

Type	Stages	I_{ex}	M2 Adm (Nm)	P Adm (kW)	1750 n2 rpm	Weight Gearbox (kg)	RPM Max	63	71	80	90	100	112	132	160	180	200	225	250
K12	3	85.37	13000	27.905	20.5	365.0	1800							●	●	●	●	●	
K12	3	97.73	13000	24.375	17.9	365.0	1800							●	●	●	●	●	
K12	3	113.49	13000	20.990	15.4	365.0	1800							●	●	●			
K12	3	127.05	13000	18.750	13.8	365.0	1800							●	●	●			
K12	3	131.76	13000	18.080	13.3	365.0	1800							●	●	●			
K12	3	151.11	13000	15.764	11.6	365.0	1800							●	●				
K15	3	8.61	14116	300.393	203.2	587.0	1800										●	●	
K15	3	9.95	14116	259.961	175.9	587.0	1800										●	●	
K15	3	11.58	14116	223.442	151.2	587.0	1800									●	●	●	
K15	3	13.72	18000	240.464	127.6	587.0	1800										●	●	
K15	3	13.88	14116	186.340	126.1	587.0	1800								●	●	●	●	
K15	3	15.85	18000	208.099	110.4	587.0	1800										●	●	
K15	3	16.73	14116	154.614	104.6	587.0	1800								●	●	●	●	
K15	3	18.44	18000	178.865	94.9	587.0	1800									●	●	●	
K15	3	20.11	13390	122.016	87.0	587.0	1800								●	●	●	●	
K15	3	22.11	18000	149.165	79.1	587.0	1800								●	●	●	●	
K15	3	23.41	13593	106.389	74.7	587.0	1800								●	●	●	●	
K15	3	26.54	11178	77.169	65.9	587.0	1800								●	●	●	●	
K15	3	26.65	18000	123.768	65.7	587.0	1800								●	●	●	●	
K15	3	30.69	11251	67.185	57.0	587.0	1800								●	●			
K15	3	32.03	18000	102.975	54.6	587.0	1800								●	●	●	●	
K15	3	35.45	18000	93.037	49.4	587.0	1800										●	●	
K15	3	37.30	18000	88.440	46.9	587.0	1800								●	●	●	●	
K15	3	40.97	18000	80.514	42.7	587.0	1800										●	●	
K15	3	42.28	17806	77.169	41.4	587.0	1800								●	●	●	●	
K15	3	47.66	18000	69.204	36.7	587.0	1800									●	●	●	
K15	3	48.88	17922	67.185	35.8	587.0	1800								●	●			
K15	3	57.15	18000	57.713	30.6	587.0	1800								●	●	●	●	
K15	3	68.88	18000	47.887	25.4	587.0	1800								●	●	●	●	
K15	3	82.79	18000	39.842	21.1	587.0	1800								●	●	●	●	
K15	3	96.39	18000	34.218	18.2	587.0	1800								●	●	●	●	
K15	3	109.28	18000	30.183	16.0	587.0	1800								●	●	●	●	
K15	3	126.34	18000	26.107	13.9	587.0	1800								●	●			
K15	3	146.69	18000	22.486	11.9	587.0	1800								●	●			

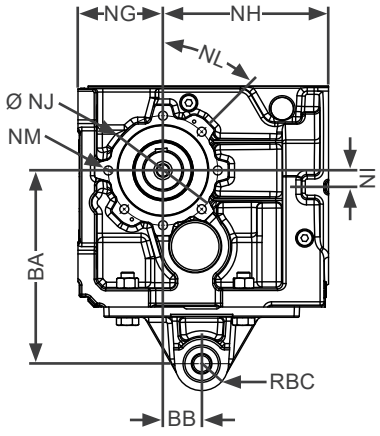
7 DIMENSIONAL DRAWINGS



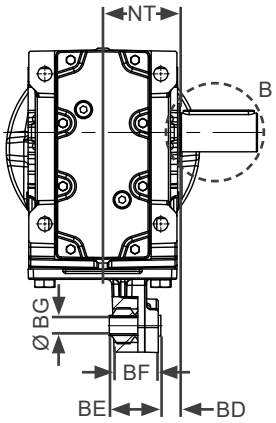
Side view - with flange



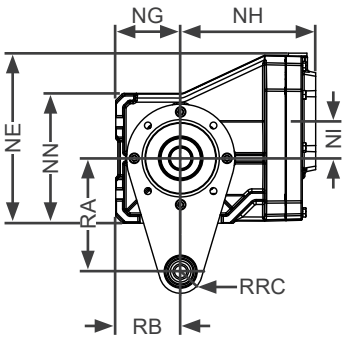
Front view - with flange



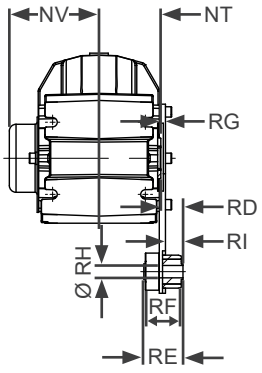
Lateral view - torque arm



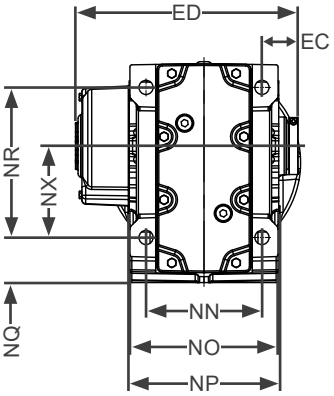
Front view - torsional stiffness



Side view - With racket-type torque arm



Front view - With racket-type torque arm



Front view - with Easy-Lock

Sizes

Sizes	Side view												
	NA	NB	NC	ND	NN	NE	NF	NG	NH	NI	NJ	NL	NM
K02	70	35	9	63	126	163	8	63	131.5	36	90	(4x)90°	M6x12
K03	110	28	11	100	-	171	15	63	158	12	100	(6x)60°	M8x16
K04	130	35	11	112	-	192	18	71	175.5 (1) | 185.5 (2)	6.4	100	(6x)60°	M8x16
K05	130	30	14	132	-	223	19	80	186 (1) | 196 (2)	11.3	120	(6x)60°	M12x20
K06	120	30	13.5	140	-	229.5	24	90	170	23.7	120	(7x)45°	M12x18
K07	150	40	18	180	-	282.5	27	112	200	28.2	140	(7x)45°	M12x18
K08	180	55	22	212	-	343	30	132	257	25.8	170	(7x)45°	M16x32
K09	240	75	26	265	-	420	36	160	277	29.7	180	(7x)45°	M16x32
K10	280	95	33	315	-	508	40	200	341	49.6	230	(8x)45°	M20x32
K12	350	115	39	375	-	597	45	225	390	51.2	250	(8x)45°	M24x42
K15	380	140	39	450	-	713	50	280	426	66.1	300	(8x)45°	M24x38

(1) With FC120 at the inlet.
(2) With FC160 at the inlet.

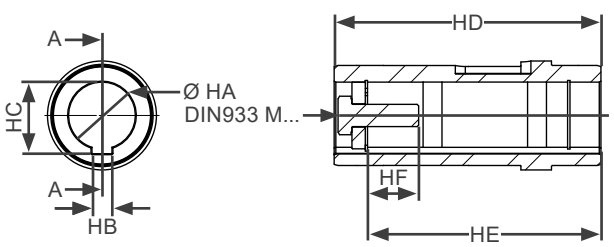
Sizes	Front View									
	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NX
K02	90	112	117	28	70	64	60	70.5	94	35
K03	100	115	117	32	115	85	60	67.5	96.5	68
K04	120	141	144	37	130	85	75	81	110	75
K05	130	157	160	45	150	87	83	89	124.5	87
K06	140	170	172	45	160	97	90	97	130.5	95
K07	165	196	202	55	200	117	105	111.5	149.5	125
K08	180	230	232	70	233	136	120	131	173	142
K09	240	290	292	75	295	117	150	161	202	190
K10	270	340	345	95	360	192	175	186	247	220
K12	330	400	405	110	420	219	205	216	302	265
K15	420	490	500	130	500	160	250	261	350	320

Sizes	Flange									
	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ
K02	94	10	3.5	110j6	160	9	(4x)90°	45°	130	34
K03	85	10	3.5	110j6	160	9	(4x)90°	45°	130	25
K04	100	12	3.5	130j6	200	11	(4x)90°	45°	165	25
K05	106.5	15	4	180j6	250	13.5	(4x)90°	45°	215	23.5
K06	126	15	4	180j6	250	13.5	(4x)90°	45°	215	36
K07	142	16	4	230j6	300	14	(4x)90°	45°	265	37
K08	150	18.5	5	250h6	350	17.5	(4x)90°	45°	300	30
K09	192	22	5	350h6	450	17.5	(8x)45°	22.5°	400	42
K10	216	22	5	350h6	450	17.5	(8x)45°	22.5°	400	41
K12	256	25	5	450h6	550	17.5	(8x)45°	22.5°	500	51
K15	310	28	6	550h6	660	22	(8x)45°	22.5°	600	60

Sizes	Torque Arm						
	BA	BB	RBC	BD	BE	BF	BG
K02	-	-	-	-	-	-	-
K03	140	23.5	22.5	20	36	31	10.4
K04	160	30	22.5	20	36	31	10.4
K05	192	40	29	18	60	54	16.4
K06	200	45	29	25	60	51	16.4
K07	250	52.5	30	25	60	51	16.4
K08	300	60	42	30	80	69	25
K09	350	70	41	40	100	90	25
K10	450	74	41	45	100	88	25
K12	550	60	70	10	120	109	40
K15	700	50	70	5	120	109	40

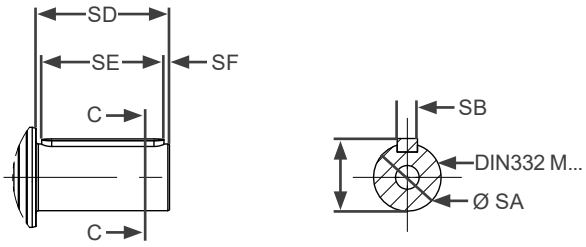
Sizes	Torque Arm - Racket								
	RA	RB	RC	RD	RE	RF	RG	RH	RI
K02	110	63	21	21.5	38	35	6	12	17
K03	160	63	21	21.5	38	35	6	12	17
K04	160	71	21	20	38	35	6	12	17
K05	200	80	29	20	54	50	8	16	15
K06	-	-	-	-	-	-	-	-	-
K07	-	-	-	-	-	-	-	-	-
K08	-	-	-	-	-	-	-	-	-
K09	-	-	-	-	-	-	-	-	-
K10	-	-	-	-	-	-	-	-	-
K12	-	-	-	-	-	-	-	-	-
K15	-	-	-	-	-	-	-	-	-

Hollow output shaft

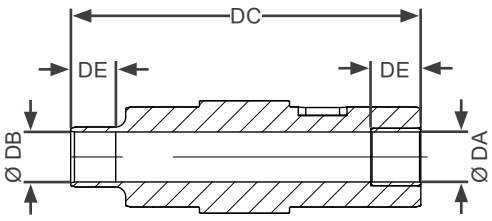


Detail A

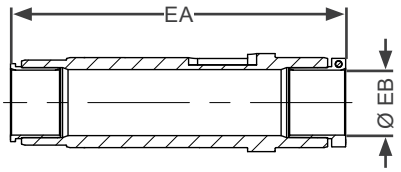
Solid output shaft



Section C-C



Detail: Relaxation Disc



Detail: EasyLock

Sizes	Hollow Shaft						
	HA	HB	HC	HD	HE	HF	DIN933 M...
K02	25H7	8	28.3	120	107	17	M10x25
K03	30H7	8	33.3	120	105	17	M10x25
K04	35H7	10	38.3	150	132	22	M10x30
K05	40H7	12	43.3	166	142	29	M16x40
K06	40H7	12	43.3	180	156	29	M16x40
K07	50H7	14	53.8	210	183	32	M16x45
K08	60H7	18	64.4	240	210	36	M20x50
K09	70H7	20	74.9	300	270	34	M20x50
K10	90H7	25	95.4	350	313	40	M24x60
K12	100H7	28	106.4	410	373	38	M24x60
K15	120H7	32	127.4	500	460	36	M24x60

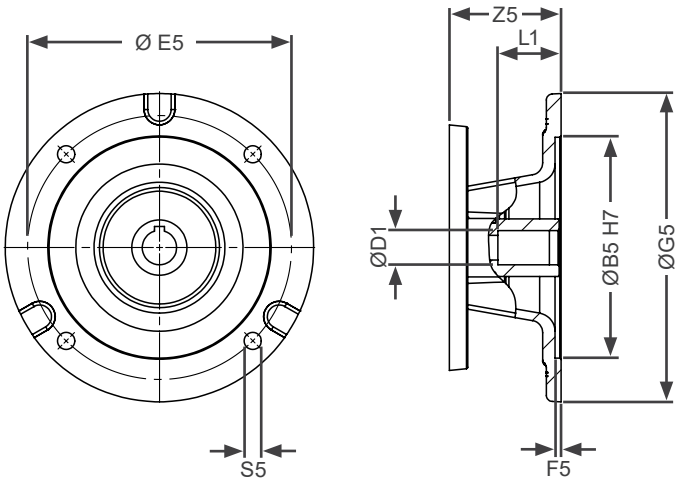
Sizes

Sizes	Solid Shaft						
	SA	SB	SC	SD	SE	SF	DIN332 M...
K02	25k6	8	28	50	40	5	M10
K03	25k6	8	28	50	40	5	M10
K04	30k6	8	33	60	50	5	M10
K05	35k6	10	38	70	56	7	M12
K06	40k6	12	43	80	70	5	M16
K07	50k6	14	53.5	100	80	10	M16
K08	60m6	18	64	120	110	5	M20
K09	70m6	20	74.5	140	125	7.5	M20
K10	90m6	25	95	170	160	5	M24
K12	110m6	28	116	210	180	15	M24
K15	120k6	32	127	210	200	5	M24

Sizes	Easy-Lock Shaft			
	EA	ØEB h11	EC	ED
K02	-	-	-	-
K03	170	30	26.5	182.5
K04	207	35	34	218.5
K05	232	40	38.5	244
K06	245	40	40	257.5
K07	295	50	45.5	308.5
K08	335	65	56	345.5
K09	396	75	56	406.5
K10	451	95	66	468
K12	532	105	71	551
K15	641	125	78	662

Sizes	Shrink Disc Shaft				
	DA	DB	DC	DD	DE
K02	20	20H7	140	20	22
K03	30	30H7	146	20	24
K04	35	35H7	177	20	24
K05	40	40H7	193	20	24
K06	40	40H7	208	20	25
K07	50	50H7	241	30	31
K08	65	65H7	281	30	41
K09	75	75H7	345	40	55
K10	95	95H7	405	60	65
K12	105	105H7	485	60	85
K15	125	125H7	580	40	90

7.1 IEC ADAPTER



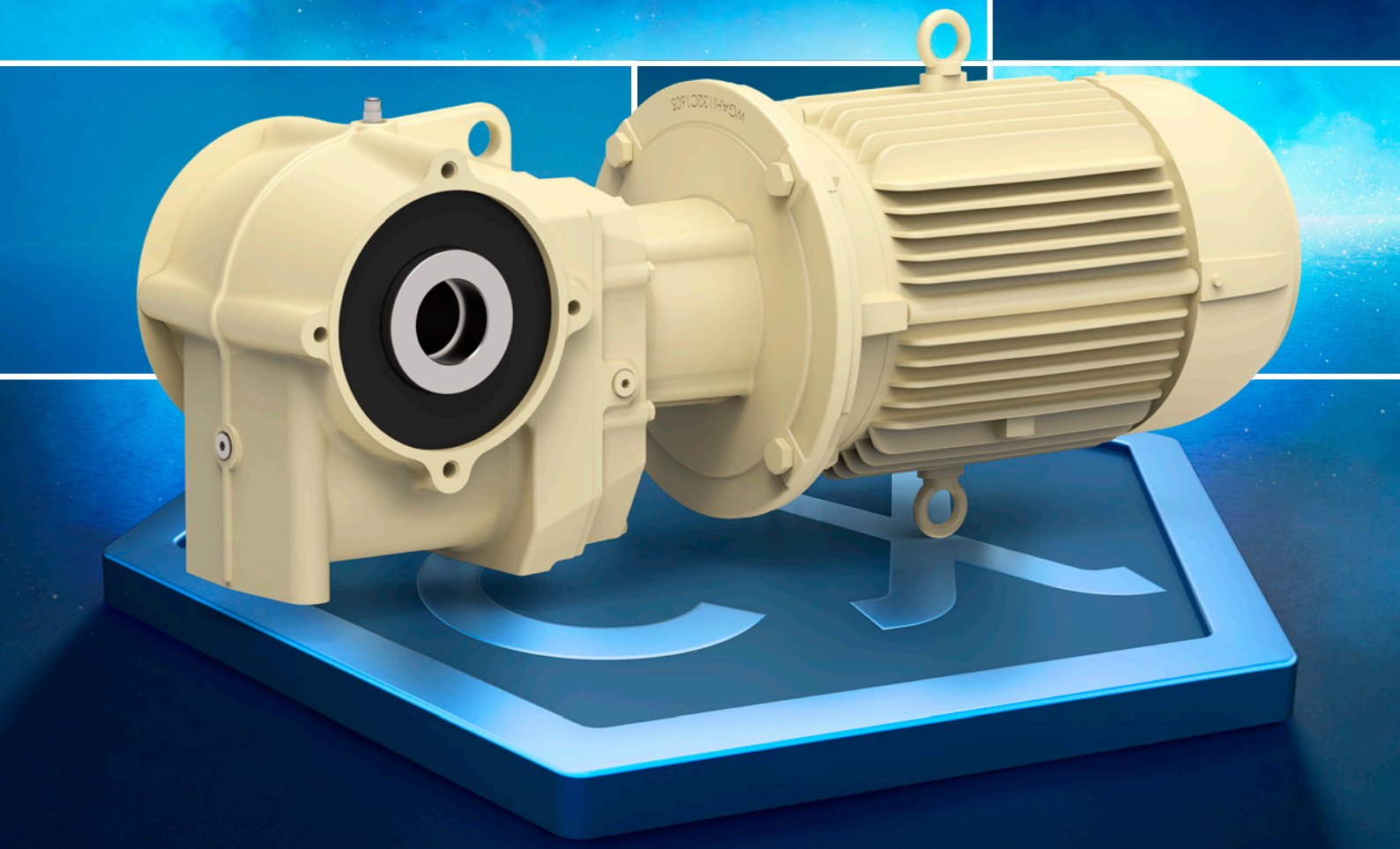
Type	IEC63	IEC71	IEC80	IEC90	IEC100	IEC112	IEC132	IEC160	IEC180
B5	95	110	130	130	180	180	230	250	250
E5	115	130	165	165	215	215	265	300	300
F5	4,5	4,5	4,5	4,5	5	5	6	6	6
G5	160	160	200	200	250	250	300	350	350
S5	M8	M8	12	12	14	14	15	19	19
D1	11	14	19	24	28	28	38	42	48
L1	23	30	40	50	60	60	80	110	110

Reducer Size		IEC63	IEC71	IEC80	IEC90	IEC100	IEC112	IEC132	IEC160	IEC180
K02	**Z5**	32	32	60	60	-	-	-	-	-
K03		32	32	60	60	91	-	-	-	-
K04		32	32	60	60	91	91	-	-	-
K05		32	32	60	60	91	91	101.5	-	-
K06		-	32	60	60	91	91	111.5	-	-
K07		-	-	60	60	91	91	111.5	152.5	-
K08		-	-	60	60	91	91	110.5	152.5	152.5
K09		-	-	-	51.5	82.5	82.5	103	143	143
K10		-	-	-	-	-	-	103	143	143
K12		-	-	-	-	-	-	92.5	144	144
K15		-	-	-	-	-	-	-	144	144

WCG20 S Ex h

Worm helical gearmotors.

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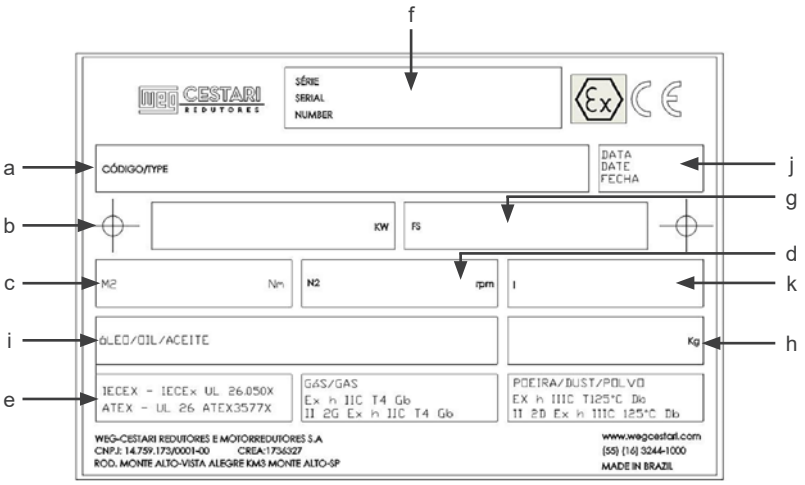
1 TECHNICAL SPECIFICATIONS

Size		S03	S04	S05	S06	S07
Power Range		0.12 - 1.5 kW	0.12 - 1.5 kW	0.12 - 3 kW	0.12 - 7.5 kW	0.12 - 9.2 kW
Rated Torque		125 Nm	220 Nm	480 Nm	995 Nm	1500 Nm
Gear Ratio		5.17 – 275.50	6.92 – 323.70	9.33 – 370.50	7.07 – 351.00	9.68 – 460.00
Number of Stages		2				
Housing Material		Aluminum			Gray cast iron	
Solid Shaft	Design	With a keyway in accordance with DIN 6885.1 and a threaded bore in accordance with DIN 332				
	Tolerance	k6				
	Material	SAE 1045				
Flange	Tolerance	Centering < 230: j6 per DIN EN 50347				
	Material	Gray cast iron				
Toothed Parts	Finish	Rectified				
	Material	Case-hardened SAE 8620 - min. 58 HRC				
Unfinished Crowns	Material	Bronze alloy (CuSn12Ni C90700 1210BR0)				
Shaft Retainers	Design	Design A / AS per DIN 3760				
	Material	FKM				
Lubricants	Design	Standard CLP PG ISO VG 460 / Optional H1 ISO VG 460				
	Filling Capacity	Depending on the installation position				

Criterion	Description
Protection Type	Exh - mechanical protection (ISO 80079-37)
Zones	1 / 21 (probable presence of gas or dust)
	2 / 22 (occasional presence for a short period)
Gas groups	IIC: high-risk gases, such as hydrogen and acetylene
	IIIC: conductive dusts, such as aluminum and coal
Temperature class	T4/T125 °C: maximum surface temperature limited to 135 °C for gases and 125 °C for dusts
EPL - Equipment Protection Level	Gb, Gc, Db, and Dc - High/average protection level

2 GENERAL INFORMATION

2.1 IDENTIFICATION PLATE



a - Product name	g - Duty factor
b - Motor power	h - Mass
c - Output torque	i - Oil quantity and type
d - Output speed	j - Date of manufacture
e - Certificate number	k - Gear ratio
f - Serial number	

2.2 PRODUCT DESCRIPTION



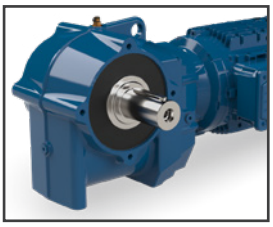
1 Geared Platform
WCG20x = Geared Motor Line Ex h
2 Sizes
S03 | S04 | S05 | S06 | S07
3 Number of Stages
2 = 2-stage gearmotor
4 Fixing
H = Housing T = Torsion arm K = Feet + B5 flange
5 Output Shaft
H = Hollow S = Solid B = Solid on both sides (A+B) D = Deceleration disc E = Easylock
6 Input Type
I = Motor adapter with FF flange
7 Motor Housing
63 | 71 | 80 | 90 | 100 | 112 | 132
8 Motor Power
0.12 kW | 0.18 kW | 0.25 kW | 0.37 kW | 0.5 kW | 0.75 kW | 1.1 kW | 1.5 kW | 2.2 kW | 3 kW | 3.7 kW | 4 kW | 4.5 kW | 7.5 kW | 9.2 kW

9 Motor Polarity
4P = 4 poles 6P = 6 poles 8P = 8 poles
10 Motor Platform
W21 W22
11 Specialty Indicator
(No load) = Standard S = Special

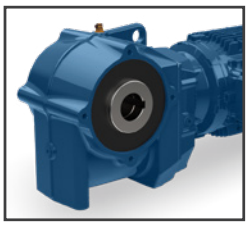
2.3 HOUSING MATERIAL

Housing Size	S03	S04	S05	S06	S07
Housing Material	Aluminum			Gray cast iron	

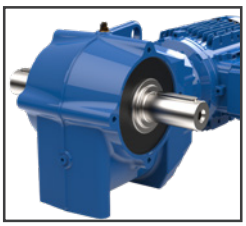
2.4 FIXING



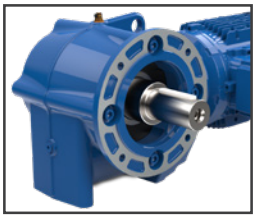
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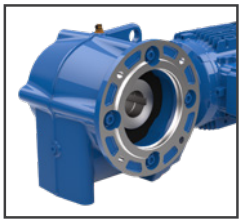
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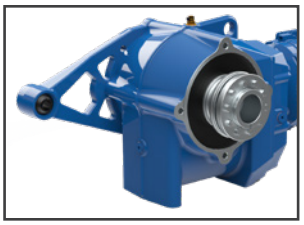
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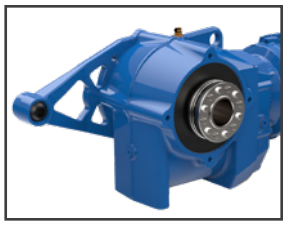
4



5



6



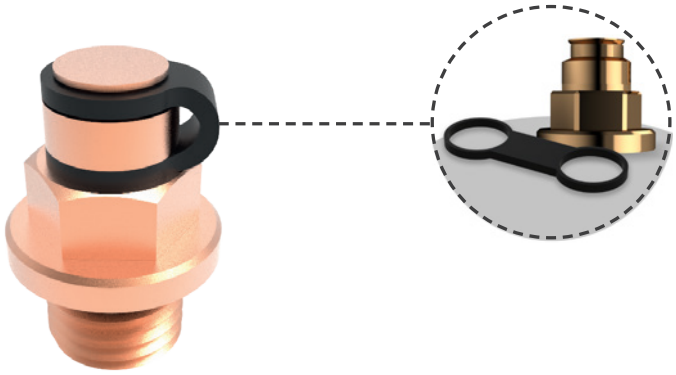
7

1 - Housing + solid shaft	5 - Flange + hollow shaft
2 - Housing + hollow shaft	6 - Torque arm + Easylock
3 - Housing + double solid shaft	7 - Torque arm + shrink disc
4 - Flange + solid shaft	

2.5 LUBRICATION AND VENT PLUGS

- S03 to S05 Gearboxes: Do not have breather plugs or oil drains. These models are supplied with permanent lubrication: S03 = 4,000 h, S04 = 5,000 h, and S05 = 5,700 h at an ambient temperature of up to 80°C.

- S06 and S07 gearboxes: are equipped as standard with breather vents with transport protection (see illustration).

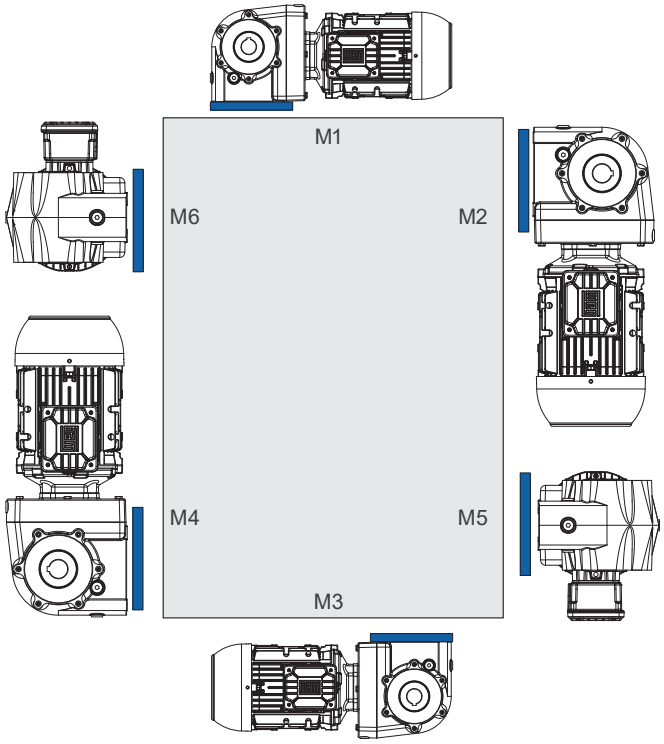


ATTENTION!

- The rubber lead seal on the breather must be completely removed before the equipment is put into operation.
- The breather must be installed in the position corresponding to the mounting position (Chapter 3 MOUNTIN POSITION on page 210).

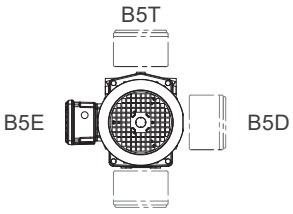
3 MOUNTIN POSITION

Mounting Position: Sizes S03 to S05



Position of the junction box

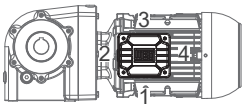
Standard: B5E

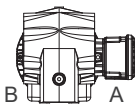


(Connection housing position 270°)

Cable Entry

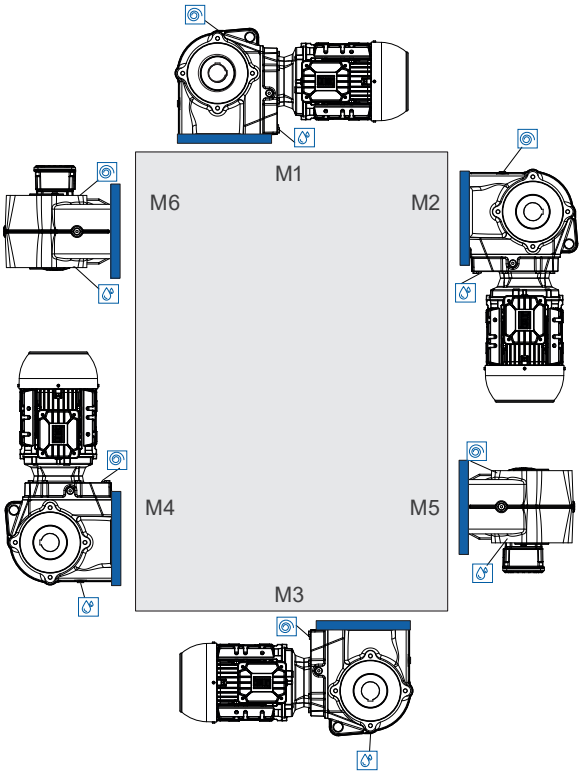
Standard: for low-hand position / center of the shaft





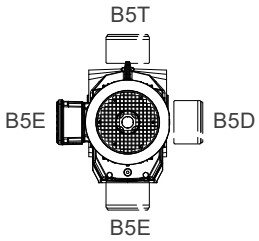
Notes: (1) For the lower hand, point toward the axis.
(2) Facing the axle.
(3) For the top, the eye is aligned with the axle.
(4) Facing the rear.

Mounting Position: Sizes S06 to S05



Terminal Box Position

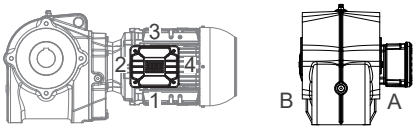
Standard: B5E



(Connection housing position 270°)

Cable Entry

Standard: for low-hand position or center of the shaft



Location of the breather

Oil drain location

Notes: **(1)** Lower the handwheel to the dotted line on the shaft.
(2) Facing the axle.
(3) Looking up at the axle.
(4) Facing the rear.

4 OIL QUANTITY

Sizes	Stages	M1	M2	M3	M4	M5	M6
S03	2	0.2	0.65	0.65	0.6	0.4	0.4
S04	2	0.25	0.8	0.65	0.75	0.5	0.5
S05	2	0.35	1.3	1.15	1.25	0.85	0.85
S06	2	1.05	1.79	1.73	2	1.3	1.3
S07	2	2.18	3.2	3.13	4.13	2.33	2.33

5 SELECTION TABLES - GEAR MOTORS

The technical data for the gearmotors listed in the selection tables refer to an ambient temperature of +20 °C.

Structure of the Selection Tables

							1					
PN = 0.00 kW												
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Weight (kg)
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
2	3	4	5	2	3	4	5	6	7	8	9	

1. Nominal motor power.
2. Output speed.
3. Effective torque at the output shaft.
4. Service factor.
5. Permissible radial force at the center of the shaft (standard bearing) with axial force = 0.
6. Exact gear ratio of the reducer.
7. Size of the gearbox.
8. Stages of the gearbox.
9. Weight of the gearmotor.

PN = 0.12 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.80	3.2	19.12	3.0	280.72	3.9	17.21	3.0	5.17	S03	2	11.6
248.58	4.4	15.84	3.0	205.97	5.3	14.20	3.0	7.04	S03	2	11.6
187.17	5.8	13.22	3.0	155.08	7.0	11.81	3.0	9.35	S03	2	11.6
186.34	5.7	13.79	3.0	154.40	6.9	12.36	3.0	9.39	S03	2	11.6
136.72	7.8	11.17	3.0	113.28	9.4	9.92	3.0	12.80	S03	2	11.6
102.94	10.3	9.23	3.0	85.29	12.4	7.94	3.0	17.00	S03	2	11.6
76.86	13.7	7.30	3.0	63.68	16.5	6.23	3.0	22.77	S03	2	11.6
60.05	17.3	5.95	3.0	49.75	20.9	5.03	3.0	29.14	S03	2	11.6
51.40	18.1	4.42	3.0	42.59	21.9	4.27	3.0	34.04	S03	2	11.6
46.27	22.3	4.78	3.0	38.34	26.9	4.04	3.0	37.82	S03	2	11.6
37.72	24.3	3.72	3.0	31.25	29.4	3.36	3.0	46.40	S03	2	11.6
36.46	28.0	3.87	3.0	30.21	33.8	3.26	3.0	48.00	S03	2	11.6
29.56	34.2	3.23	3.0	24.49	41.3	2.69	3.0	59.20	S03	2	11.6
28.40	31.7	3.02	3.0	23.53	38.3	2.76	3.0	61.63	S03	2	11.6
23.03	43.0	2.52	3.0	19.08	51.8	2.09	3.0	76.00	S03	2	11.6
21.20	41.5	2.63	3.0	17.57	50.1	2.32	3.0	82.54	S03	2	11.6
16.57	52.0	2.26	3.0	13.73	62.7	1.91	3.0	105.64	S03	2	11.6
12.77	65.7	1.83	3.0	10.58	79.2	1.53	3.0	137.09	S03	2	11.6
10.06	81.2	1.51	3.0	8.33	97.9	1.27	3.0	174.00	S03	2	11.6
8.15	97.7	1.27	3.0	6.76	117.9	1.06	3.0	214.60	S03	2	11.6
6.35	121.7	1.04	3.0	5.26	146.9	0.86	3.0	275.50	S03	2	11.6
197.30	5.5	22.31	5.2	163.48	6.6	19.72	5.2	8.87	S04	2	13.7
153.51	7.1	18.97	5.2	127.19	8.5	16.86	5.2	11.40	S04	2	13.7
116.67	9.2	16.00	5.2	96.67	11.1	14.27	5.2	15.00	S04	2	13.7
107.62	9.8	13.33	5.2	89.17	11.9	11.93	5.2	16.26	S04	2	13.7
88.18	12.1	13.48	5.2	73.06	14.7	12.30	5.2	19.85	S04	2	13.7
83.73	12.6	11.49	5.2	69.38	15.2	10.27	5.2	20.90	S04	2	13.7
70.40	15.1	11.87	5.2	58.33	18.3	10.15	5.2	24.86	S04	2	13.7
63.64	16.4	9.83	5.2	52.73	19.8	8.75	5.2	27.50	S04	2	13.7
54.38	19.4	9.59	5.2	45.06	23.5	7.83	5.2	32.18	S04	2	13.7
48.10	21.5	8.40	5.2	39.85	25.9	7.52	5.2	36.38	S04	2	13.7
43.21	24.3	7.62	5.2	35.80	29.3	6.22	5.2	40.50	S04	2	13.7
38.40	26.7	7.52	5.2	31.82	32.2	6.33	5.2	45.57	S04	2	13.7

PN = 0.12 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
35.14	29.6	6.22	5.2	29.12	35.8	5.06	5.2	49.80	S04	2	13.7
29.66	34.1	6.01	5.2	24.58	41.2	5.07	5.2	59.00	S04	2	13.7
23.57	42.5	4.93	5.2	19.53	51.2	4.12	5.2	74.25	S04	2	13.7
19.17	51.7	4.10	5.2	15.88	62.3	3.42	5.2	91.30	S04	2	13.7
17.95	48.6	3.48	5.2	14.87	58.6	3.08	5.2	97.50	S04	2	13.7
13.57	62.7	3.00	5.2	11.24	75.6	2.66	5.2	129.00	S04	2	13.7
10.83	76.6	2.65	5.2	8.97	92.5	2.33	5.2	161.57	S04	2	13.7
8.37	96.3	2.28	5.2	6.93	116.3	1.91	5.2	209.18	S04	2	13.7
6.65	117.9	1.88	5.2	5.51	142.3	1.57	5.2	263.25	S04	2	13.7
5.41	141.2	1.58	5.2	4.48	170.5	1.34	5.2	323.70	S04	2	13.7
122.71	8.8	35.55	7.1	101.68	10.6	33.39	7.1	14.26	S05	2	17.8
109.08	9.8	32.12	7.1	90.38	11.8	28.01	7.1	16.04	S05	2	17.8
97.22	11.0	32.31	7.1	80.56	13.3	28.01	7.1	18.00	S05	2	17.8
86.42	12.3	27.15	7.1	71.60	14.9	23.52	7.1	20.25	S05	2	17.8
74.47	14.3	26.41	7.1	61.70	17.2	22.68	7.1	23.50	S05	2	17.8
66.19	16.0	22.20	7.1	54.85	19.3	19.03	7.1	26.44	S05	2	17.8
56.88	18.6	21.28	7.1	47.13	22.4	18.15	7.1	30.77	S05	2	17.8
50.56	20.8	17.87	7.1	41.89	25.1	15.24	7.1	34.62	S05	2	17.8
45.71	23.0	17.77	7.1	37.87	27.7	15.07	7.1	38.29	S05	2	17.8
40.63	25.7	14.93	7.1	33.67	31.0	12.65	7.1	43.07	S05	2	17.8
35.39	29.4	14.30	7.1	29.32	35.5	12.07	7.1	49.45	S05	2	17.8
31.45	32.9	12.03	7.1	26.06	39.7	10.13	7.1	55.64	S05	2	17.8
28.23	36.5	9.95	7.1	23.39	44.1	8.18	7.1	62.00	S05	2	17.8
25.09	40.8	9.87	7.1	20.79	49.3	8.17	7.1	69.75	S05	2	17.8
23.03	44.4	6.53	7.1	19.08	53.6	5.36	7.1	76.00	S05	2	17.8
19.94	44.6	8.08	7.1	16.52	53.8	7.65	7.1	87.75	S05	2	17.8
15.28	57.1	6.81	7.1	12.66	68.9	6.35	7.1	114.56	S05	2	17.8
11.67	73.0	5.80	7.1	9.67	88.1	5.13	7.1	150.00	S05	2	17.8
9.38	88.8	5.04	7.1	7.77	107.2	4.32	7.1	186.64	S05	2	17.8
7.26	111.5	4.17	7.1	6.01	134.6	3.48	7.1	241.09	S05	2	17.8
5.79	136.0	3.43	7.1	4.80	164.1	2.88	7.1	302.25	S05	2	17.8
4.72	162.4	2.91	7.1	3.91	196.0	2.49	7.1	370.50	S05	2	17.8
112.59	9.7	58.30	12	93.29	11.7	58.22	12.5	15.54	S06 Ø40	2	34.6
92.84	11.7	55.87	12.5	76.92	14.1	50.68	12.5	18.85	S06 Ø40	2	34.6
70.62	15.3	47.54	12.5	58.51	18.5	39.68	12.5	24.78	S06 Ø40	2	34.6
44.35	23.3	27.97	12.5	36.75	28.1	28.15	12.5	39.46	S06 Ø40	2	34.6
36.57	28.0	27.12	12.5	30.30	33.8	24.49	12.5	47.85	S06 Ø40	2	34.6
27.82	36.5	23.19	12.5	23.05	44.1	19.76	12.5	62.91	S06 Ø40	2	34.6
21.54	46.7	18.92	12.5	17.85	56.3	16.04	12.5	81.23	S06 Ø40	2	34.6
20.33	45.7	14.82	12.5	16.84	55.1	14.66	12.5	86.09	S06 Ø40	2	34.6
17.68	56.3	16.11	12.5	14.65	68.0	13.57	12.5	99.00	S06 Ø40	2	34.6
16.76	54.8	14.38	12.5	13.89	66.1	13.06	12.5	104.40	S06 Ø40	2	34.6
13.73	71.6	13.02	12.5	11.37	86.4	10.93	12.5	127.50	S06 Ø40	2	34.6
12.75	70.8	12.46	12.5	10.56	85.4	10.63	12.5	137.25	S06 Ø40	2	34.6
10.88	89.1	10.68	12.5	9.01	107.5	8.97	12.5	160.88	S06 Ø40	2	34.6
9.87	89.6	10.24	12.5	8.18	108.1	8.69	12.5	177.23	S06 Ø40	2	34.6
8.10	107.3	8.78	12.5	6.71	129.5	7.39	12.5	216.00	S06 Ø40	2	34.6
6.29	134.8	7.17	12.5	5.21	162.6	6.01	12.5	278.18	S06 Ø40	2	34.6

PN = 0.12 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
4.99	165.8	5.95	12.5	4.13	200.1	4.98	12.5	351.00	S06 Ø40	2	34.6
112.59	9.7	58.30	10.1	93.29	11.7	58.22	10.1	15.54	S06 Ø35	2	34.6
92.84	11.7	55.87	10.1	76.92	14.1	50.68	10.1	18.85	S06 Ø35	2	34.6
70.62	15.3	47.54	10.1	58.51	18.5	39.68	10.1	24.78	S06 Ø35	2	34.6
44.35	23.3	27.97	10.1	36.75	28.1	28.15	10.1	39.46	S06 Ø35	2	34.6
36.57	28.0	27.12	10.1	30.30	33.8	24.49	10.1	47.85	S06 Ø35	2	34.6
27.82	36.5	23.19	10.1	23.05	44.1	19.76	10.1	62.91	S06 Ø35	2	34.6
21.54	46.7	18.92	10.1	17.85	56.3	16.04	10.1	81.23	S06 Ø35	2	34.6
20.33	45.7	14.82	10.1	16.84	55.1	14.66	10.1	86.09	S06 Ø35	2	34.6
17.68	56.3	16.11	10.1	14.65	68.0	13.57	10.1	99.00	S06 Ø35	2	34.6
16.76	54.8	14.38	10.1	13.89	66.1	13.06	10.1	104.40	S06 Ø35	2	34.6
13.73	71.6	13.02	10.1	11.37	86.4	10.93	10.1	127.50	S06 Ø35	2	34.6
12.75	70.8	12.46	10.1	10.56	85.4	10.63	10.1	137.25	S06 Ø35	2	34.6
10.88	89.1	10.68	10.1	9.01	107.5	8.97	10.1	160.88	S06 Ø35	2	34.6
9.87	89.6	10.24	10.1	8.18	108.1	8.69	10.1	177.23	S06 Ø35	2	34.6
8.10	107.3	8.78	10.1	6.71	129.5	7.39	10.1	216.00	S06 Ø35	2	34.6
6.29	134.8	7.17	10.1	5.21	162.6	6.01	10.1	278.18	S06 Ø35	2	34.6
4.99	165.8	5.95	10.1	4.13	200.1	4.98	10.1	351.00	S06 Ø35	2	34.6
62.55	17.4	70.24	13.9	51.83	20.9	60.81	14.7	27.98	S07 Ø50	2	57.1
51.74	20.9	60.71	14.7	42.87	25.2	52.11	15.6	33.83	S07 Ø50	2	57.1
25.17	40.7	33.32	18.0	20.86	49.1	28.64	18.0	69.52	S07 Ø50	2	57.1
20.82	48.8	28.68	18.0	17.25	58.9	24.55	18.0	84.05	S07 Ø50	2	57.1
16.07	62.6	23.28	18.0	13.31	75.5	19.82	18.0	108.91	S07 Ø50	2	57.1
12.61	78.8	19.06	18.0	10.45	95.1	16.13	18.0	138.77	S07 Ø50	2	57.1
11.73	78.5	17.79	18.0	9.72	94.7	15.17	18.0	149.22	S07 Ø50	2	57.1
10.58	93.1	16.55	18.0	8.76	112.3	13.66	18.0	165.46	S07 Ø50	2	57.1
9.70	93.6	15.42	18.0	8.04	113.0	13.07	18.0	180.40	S07 Ø50	2	57.1
8.17	118.7	13.15	18.0	6.77	143.3	10.94	18.0	214.32	S07 Ø50	2	57.1
7.49	118.9	12.62	18.0	6.20	143.5	10.46	18.0	233.75	S07 Ø50	2	57.1
5.88	148.3	10.15	18.0	4.87	179.0	8.45	18.0	297.85	S07 Ø50	2	57.1
4.93	173.8	8.70	18.0	4.08	209.7	7.37	18.0	355.14	S07 Ø50	2	57.1
3.80	219.1	7.04	18.0	3.15	264.4	6.04	18.0	460.00	S07 Ø50	2	57.1
62.55	17.4	70.24	14.1	51.83	20.9	60.81	14.9	27.98	S07 Ø45	2	57.1
51.74	20.9	60.71	14.9	42.87	25.2	52.11	14.9	33.83	S07 Ø45	2	57.1
25.17	40.7	33.32	14.9	20.86	49.1	28.64	14.9	69.52	S07 Ø45	2	57.1
20.82	48.8	28.68	14.9	17.25	58.9	24.55	14.9	84.05	S07 Ø45	2	57.1
16.07	62.6	23.28	14.9	13.31	75.5	19.82	14.9	108.91	S07 Ø45	2	57.1
12.61	78.8	19.06	14.9	10.45	95.1	16.13	14.9	138.77	S07 Ø45	2	57.1
11.73	78.5	17.79	14.9	9.72	94.7	15.17	14.9	149.22	S07 Ø45	2	57.1
10.58	93.1	16.55	14.9	8.76	112.3	13.66	14.9	165.46	S07 Ø45	2	57.1
9.70	93.6	15.42	14.9	8.04	113.0	13.07	14.9	180.40	S07 Ø45	2	57.1
8.17	118.7	13.15	14.9	6.77	143.3	10.94	14.9	214.32	S07 Ø45	2	57.1
7.49	118.9	12.62	14.9	6.20	143.5	10.46	14.9	233.75	S07 Ø45	2	57.1
5.88	148.3	10.15	14.9	4.87	179.0	8.45	14.9	297.85	S07 Ø45	2	57.1
4.93	173.8	8.70	14.9	4.08	209.7	7.37	14.9	355.14	S07 Ø45	2	57.1
3.80	219.1	7.04	14.9	3.15	264.4	6.04	14.9	460.00	S07 Ø45	2	57.1

PN = 0.18 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.80	4.8	12.75	3.0	280.72	5.9	11.48	3.0	5.17	S03	2	12.3
248.58	6.6	10.56	3.0	205.97	7.9	9.46	3.0	7.04	S03	2	12.3
187.17	8.7	8.81	3.0	155.08	10.5	7.87	3.0	9.35	S03	2	12.3
186.34	8.6	9.19	3.0	154.40	10.4	8.24	3.0	9.39	S03	2	12.3
136.72	11.7	7.44	3.0	113.28	14.1	6.62	3.0	12.80	S03	2	12.3
102.94	15.4	6.16	3.0	85.29	18.6	5.29	3.0	17.00	S03	2	12.3
76.86	20.5	4.86	3.0	63.68	24.7	4.15	3.0	22.77	S03	2	12.3
60.05	26.0	3.97	3.0	49.75	31.4	3.36	3.0	29.14	S03	2	12.3
51.40	27.2	2.95	3.0	42.59	32.8	2.85	3.0	34.04	S03	2	12.3
46.27	33.4	3.19	3.0	38.34	40.3	2.69	3.0	37.82	S03	2	12.3
37.72	36.5	2.48	3.0	31.25	44.0	2.24	3.0	46.40	S03	2	12.3
36.46	42.0	2.58	3.0	30.21	50.7	2.17	3.0	48.00	S03	2	12.3
29.56	51.3	2.15	3.0	24.49	61.9	1.80	3.0	59.20	S03	2	12.3
28.40	47.6	2.01	3.0	23.53	57.4	1.84	3.0	61.63	S03	2	12.3
23.03	64.4	1.68	3.0	19.08	77.8	1.39	3.0	76.00	S03	2	12.3
21.20	62.3	1.75	3.0	17.57	75.2	1.54	3.0	82.54	S03	2	12.3
16.57	78.0	1.50	3.0	13.73	94.1	1.27	3.0	105.64	S03	2	12.3
12.77	98.5	1.22	3.0	10.58	118.9	1.02	3.0	137.09	S03	2	12.3
10.06	121.7	1.01	3.0	8.33	146.9	0.85	3.0	174.00	S03	2	12.3
8.15	146.5	0.85	3.0	-	-	-	-	214.60	S03	2	12.3
197.30	8.3	14.88	5.2	163.48	10.0	13.15	5.2	8.87	S04	2	14.4
153.51	10.6	12.65	5.2	127.19	12.8	11.24	5.2	11.40	S04	2	14.4
116.67	13.9	10.67	5.2	96.67	16.7	9.51	5.2	15.00	S04	2	14.4
107.62	14.7	8.88	5.2	89.17	17.8	7.95	5.2	16.26	S04	2	14.4
88.18	18.2	8.99	5.2	73.06	22.0	8.20	5.2	19.85	S04	2	14.4
83.73	18.8	7.66	5.2	69.38	22.7	6.84	5.2	20.90	S04	2	14.4
70.40	22.7	7.91	5.2	58.33	27.4	6.76	5.2	24.86	S04	2	14.4
63.64	24.6	6.56	5.2	52.73	29.7	5.83	5.2	27.50	S04	2	14.4
54.38	29.2	6.40	5.2	45.06	35.2	5.22	5.2	32.18	S04	2	14.4
48.10	32.2	5.60	5.2	39.85	38.9	5.01	5.2	36.38	S04	2	14.4
43.21	36.4	5.08	5.2	35.80	43.9	4.15	5.2	40.50	S04	2	14.4
38.40	40.0	5.01	5.2	31.82	48.3	4.22	5.2	45.57	S04	2	14.4
35.14	44.4	4.15	5.2	29.12	53.6	3.37	5.2	49.80	S04	2	14.4
29.66	51.2	4.00	5.2	24.58	61.8	3.38	5.2	59.00	S04	2	14.4
23.57	63.7	3.29	5.2	19.53	76.9	2.75	5.2	74.25	S04	2	14.4
19.17	77.5	2.74	5.2	15.88	93.5	2.28	5.2	91.30	S04	2	14.4
17.95	72.9	2.32	5.2	14.87	88.0	2.06	5.2	97.50	S04	2	14.4
13.57	94.0	2.00	5.2	11.24	113.4	1.77	5.2	129.00	S04	2	14.4
10.83	115.0	1.77	5.2	8.97	138.8	1.55	5.2	161.57	S04	2	14.4
8.37	144.5	1.52	5.2	6.93	174.4	1.27	5.2	209.18	S04	2	14.4
6.65	176.9	1.25	5.2	5.51	213.5	1.05	5.2	263.25	S04	2	14.4
5.41	211.9	1.05	5.2	-	-	-	-	323.70	S04	2	14.4
122.71	13.1	23.70	7.1	101.68	15.8	22.26	7.1	14.26	S05	2	18.5
109.08	14.7	21.42	7.1	90.38	17.7	18.68	7.1	16.04	S05	2	18.5
97.22	16.5	21.54	7.1	80.56	19.9	18.67	7.1	18.00	S05	2	18.5
86.42	18.5	18.10	7.1	71.60	22.3	15.68	7.1	20.25	S05	2	18.5
74.47	21.4	17.61	7.1	61.70	25.9	15.12	7.1	23.50	S05	2	18.5
66.19	24.0	14.80	7.1	54.85	29.0	12.68	7.1	26.44	S05	2	18.5
56.88	27.9	14.19	7.1	47.13	33.6	12.10	7.1	30.77	S05	2	18.5

PN = 0.18 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
50.56	31.2	11.91	7.1	41.89	37.6	10.16	7.1	34.62	S05	2	18.5
45.71	34.5	11.85	7.1	37.87	41.6	10.05	7.1	38.29	S05	2	18.5
40.63	38.5	9.96	7.1	33.67	46.5	8.44	7.1	43.07	S05	2	18.5
35.39	44.1	9.54	7.1	29.32	53.2	8.05	7.1	49.45	S05	2	18.5
31.45	49.3	8.02	7.1	26.06	59.5	6.76	7.1	55.64	S05	2	18.5
28.23	54.8	6.63	7.1	23.39	66.2	5.45	7.1	62.00	S05	2	18.5
25.09	61.2	6.58	7.1	20.79	73.9	5.45	7.1	69.75	S05	2	18.5
23.03	66.6	4.35	7.1	19.08	80.4	3.57	7.1	76.00	S05	2	18.5
19.94	66.9	5.38	7.1	16.52	80.7	5.10	7.1	87.75	S05	2	18.5
15.28	85.6	4.54	7.1	12.66	103.4	4.24	7.1	114.56	S05	2	18.5
11.67	109.5	3.86	7.1	9.67	132.1	3.42	7.1	150.00	S05	2	18.5
9.38	133.2	3.36	7.1	7.77	160.8	2.88	7.1	186.64	S05	2	18.5
7.26	167.2	2.78	7.1	6.01	201.8	2.32	7.1	241.09	S05	2	18.5
5.79	204.0	2.29	7.1	4.80	246.2	1.92	7.1	302.25	S05	2	18.5
4.72	243.7	1.94	7.1	3.91	294.1	1.66	7.1	370.50	S05	2	18.5
112.59	14.5	38.87	12	93.29	17.5	38.81	12.5	15.54	S06 Ø40	2	35.3
92.84	17.6	37.25	12.5	76.92	21.2	33.79	12.5	18.85	S06 Ø40	2	35.3
70.62	23.0	31.70	12.5	58.51	27.8	26.45	12.5	24.78	S06 Ø40	2	35.3
44.35	34.9	18.65	12.5	36.75	42.1	18.77	12.5	39.46	S06 Ø40	2	35.3
36.57	42.1	18.08	12.5	30.30	50.8	16.33	12.5	47.85	S06 Ø40	2	35.3
27.82	54.8	15.46	12.5	23.05	66.1	13.17	12.5	62.91	S06 Ø40	2	35.3
21.54	70.0	12.61	12.5	17.85	84.5	10.69	12.5	81.23	S06 Ø40	2	35.3
20.33	68.5	9.88	12.5	16.84	82.7	9.77	12.5	86.09	S06 Ø40	2	35.3
17.68	84.5	10.74	12.5	14.65	102.0	9.04	12.5	99.00	S06 Ø40	2	35.3
16.76	82.2	9.58	12.5	13.89	99.2	8.71	12.5	104.40	S06 Ø40	2	35.3
13.73	107.4	8.68	12.5	11.37	129.6	7.28	12.5	127.50	S06 Ø40	2	35.3
12.75	106.2	8.30	12.5	10.56	128.1	7.08	12.5	137.25	S06 Ø40	2	35.3
10.88	133.6	7.12	12.5	9.01	161.3	5.98	12.5	160.88	S06 Ø40	2	35.3
9.87	134.4	6.82	12.5	8.18	162.2	5.79	12.5	177.23	S06 Ø40	2	35.3
8.10	160.9	5.85	12.5	6.71	194.2	4.92	12.5	216.00	S06 Ø40	2	35.3
6.29	202.1	4.78	12.5	5.21	243.9	4.01	12.5	278.18	S06 Ø40	2	35.3
4.99	248.7	3.97	12.5	4.13	300.2	3.32	12.5	351.00	S06 Ø40	2	35.3
112.59	14.5	38.87	10.1	93.29	17.5	38.81	10.1	15.54	S06 Ø35	2	35.3
92.84	17.6	37.25	10.1	76.92	21.2	33.79	10.1	18.85	S06 Ø35	2	35.3
70.62	23.0	31.70	10.1	58.51	27.8	26.45	10.1	24.78	S06 Ø35	2	35.3
44.35	34.9	18.65	10.1	36.75	42.1	18.77	10.1	39.46	S06 Ø35	2	35.3
36.57	42.1	18.08	10.1	30.30	50.8	16.33	10.1	47.85	S06 Ø35	2	35.3
27.82	54.8	15.46	10.1	23.05	66.1	13.17	10.1	62.91	S06 Ø35	2	35.3
21.54	70.0	12.61	10.1	17.85	84.5	10.69	10.1	81.23	S06 Ø35	2	35.3
20.33	68.5	9.88	10.1	16.84	82.7	9.77	10.1	86.09	S06 Ø35	2	35.3
17.68	84.5	10.74	10.1	14.65	102.0	9.04	10.1	99.00	S06 Ø35	2	35.3
16.76	82.2	9.58	10.1	13.89	99.2	8.71	10.1	104.40	S06 Ø35	2	35.3
13.73	107.4	8.68	10.1	11.37	129.6	7.28	10.1	127.50	S06 Ø35	2	35.3
12.75	106.2	8.30	10.1	10.56	128.1	7.08	10.1	137.25	S06 Ø35	2	35.3
10.88	133.6	7.12	10.1	9.01	161.3	5.98	10.1	160.88	S06 Ø35	2	35.3
9.87	134.4	6.82	10.1	8.18	162.2	5.79	10.1	177.23	S06 Ø35	2	35.3
8.10	160.9	5.85	10.1	6.71	194.2	4.92	10.1	216.00	S06 Ø35	2	35.3
6.29	202.1	4.78	10.1	5.21	243.9	4.01	10.1	278.18	S06 Ø35	2	35.3
4.99	248.7	3.97	10.1	4.13	300.2	3.32	10.1	351.00	S06 Ø35	2	35.3

PN = 0.18 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
62.55	26.0	46.83	13.9	51.83	31.4	40.54	14.7	27.98	S07 Ø50	2	57.8
51.74	31.4	40.47	14.7	42.87	37.9	34.74	15.6	33.83	S07 Ø50	2	57.8
25.17	61.0	22.21	18.0	20.86	73.6	19.09	18.0	69.52	S07 Ø50	2	57.8
20.82	73.2	19.12	18.0	17.25	88.4	16.37	18.0	84.05	S07 Ø50	2	57.8
16.07	93.9	15.52	18.0	13.31	113.3	13.21	18.0	108.91	S07 Ø50	2	57.8
12.61	118.2	12.71	18.0	10.45	142.7	10.75	18.0	138.77	S07 Ø50	2	57.8
11.73	117.7	11.86	18.0	9.72	142.0	10.11	18.0	149.22	S07 Ø50	2	57.8
10.58	139.6	11.04	18.0	8.76	168.5	9.11	18.0	165.46	S07 Ø50	2	57.8
9.70	140.5	10.28	18.0	8.04	169.5	8.72	18.0	180.40	S07 Ø50	2	57.8
8.17	178.1	8.76	18.0	6.77	214.9	7.29	18.0	214.32	S07 Ø50	2	57.8
7.49	178.4	8.41	18.0	6.20	215.3	6.97	18.0	233.75	S07 Ø50	2	57.8
5.88	222.4	6.77	18.0	4.87	268.4	5.63	18.0	297.85	S07 Ø50	2	57.8
4.93	260.7	5.80	18.0	4.08	314.6	4.91	18.0	355.14	S07 Ø50	2	57.8
3.80	328.6	4.69	18.0	3.15	396.6	4.03	18.0	460.00	S07 Ø50	2	57.8
62.55	26.0	46.83	14.1	51.83	31.4	40.54	14.9	27.98	S07 Ø45	2	57.8
51.74	31.4	40.47	14.9	42.87	37.9	34.74	14.9	33.83	S07 Ø45	2	57.8
25.17	61.0	22.21	14.9	20.86	73.6	19.09	14.9	69.52	S07 Ø45	2	57.8
20.82	73.2	19.12	14.9	17.25	88.4	16.37	14.9	84.05	S07 Ø45	2	57.8
16.07	93.9	15.52	14.9	13.31	113.3	13.21	14.9	108.91	S07 Ø45	2	57.8
12.61	118.2	12.71	14.9	10.45	142.7	10.75	14.9	138.77	S07 Ø45	2	57.8
11.73	117.7	11.86	14.9	9.72	142.0	10.11	14.9	149.22	S07 Ø45	2	57.8
10.58	139.6	11.04	14.9	8.76	168.5	9.11	14.9	165.46	S07 Ø45	2	57.8
9.70	140.5	10.28	14.9	8.04	169.5	8.72	14.9	180.40	S07 Ø45	2	57.8
8.17	178.1	8.76	14.9	6.77	214.9	7.29	14.9	214.32	S07 Ø45	2	57.8
7.49	178.4	8.41	14.9	6.20	215.3	6.97	14.9	233.75	S07 Ø45	2	57.8
5.88	222.4	6.77	14.9	4.87	268.4	5.63	14.9	297.85	S07 Ø45	2	57.8
4.93	260.7	5.80	14.9	4.08	314.6	4.91	14.9	355.14	S07 Ø45	2	57.8
3.80	328.6	4.69	14.9	3.15	396.6	4.03	14.9	460.00	S07 Ø45	2	57.8

PN = 0.25 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.80	6.7	9.18	3.0	280.72	8.1	8.26	3.0	5.17	S03	2	12.3
248.58	9.1	7.60	3.0	205.97	11.0	6.81	3.0	7.04	S03	2	12.3
187.17	12.1	6.35	3.0	155.08	14.6	5.67	3.0	9.35	S03	2	12.3
186.34	12.0	6.62	3.0	154.40	14.4	5.93	3.0	9.39	S03	2	12.3
136.72	16.2	5.36	3.0	113.28	19.6	4.76	3.0	12.80	S03	2	12.3
102.94	21.4	4.43	3.0	85.29	25.8	3.81	3.0	17.00	S03	2	12.3
76.86	28.4	3.50	3.0	63.68	34.3	2.99	3.0	22.77	S03	2	12.3
60.05	36.1	2.86	3.0	49.75	43.6	2.42	3.0	29.14	S03	2	12.3
51.40	37.8	2.12	3.0	42.59	45.6	2.05	3.0	34.04	S03	2	12.3
46.27	46.4	2.29	3.0	38.34	56.0	1.94	3.0	37.82	S03	2	12.3
37.72	50.7	1.79	3.0	31.25	61.2	1.61	3.0	46.40	S03	2	12.3
36.46	58.3	1.86	3.0	30.21	70.4	1.57	3.0	48.00	S03	2	12.3
29.56	71.2	1.55	3.0	24.49	85.9	1.29	3.0	59.20	S03	2	12.3
28.40	66.1	1.45	3.0	23.53	79.8	1.32	3.0	61.63	S03	2	12.3
23.03	89.5	1.21	3.0	19.08	108.0	1.00	3.0	76.00	S03	2	12.3
21.20	86.5	1.26	3.0	17.57	104.4	1.11	3.0	82.54	S03	2	12.3
16.57	108.3	1.08	3.0	13.73	130.7	0.92	3.0	105.64	S03	2	12.3

PN = 0.25 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
12.77	136.8	0.88	3.0	-	-	-	-	137.09	S03	2	12.3
197.30	11.5	10.71	5.2	163.48	13.9	9.47	5.2	8.87	S04	2	14.4
153.51	14.7	9.10	5.2	127.19	17.7	8.09	5.2	11.40	S04	2	14.4
116.67	19.2	7.68	5.2	96.67	23.2	6.85	5.2	15.00	S04	2	14.4
107.62	20.5	6.40	5.2	89.17	24.7	5.73	5.2	16.26	S04	2	14.4
88.18	25.3	6.47	5.2	73.06	30.5	5.90	5.2	19.85	S04	2	14.4
83.73	26.2	5.52	5.2	69.38	31.6	4.93	5.2	20.90	S04	2	14.4
70.40	31.5	5.70	5.2	58.33	38.0	4.87	5.2	24.86	S04	2	14.4
63.64	34.1	4.72	5.2	52.73	41.2	4.20	5.2	27.50	S04	2	14.4
54.38	40.5	4.61	5.2	45.06	48.9	3.76	5.2	32.18	S04	2	14.4
48.10	44.7	4.03	5.2	39.85	54.0	3.61	5.2	36.38	S04	2	14.4
43.21	50.6	3.66	5.2	35.80	61.0	2.98	5.2	40.50	S04	2	14.4
38.40	55.6	3.61	5.2	31.82	67.0	3.04	5.2	45.57	S04	2	14.4
35.14	61.7	2.98	5.2	29.12	74.5	2.43	5.2	49.80	S04	2	14.4
29.66	71.1	2.88	5.2	24.58	85.8	2.43	5.2	59.00	S04	2	14.4
23.57	88.5	2.37	5.2	19.53	106.8	1.98	5.2	74.25	S04	2	14.4
19.17	107.6	1.97	5.2	15.88	129.9	1.64	5.2	91.30	S04	2	14.4
17.95	101.2	1.67	5.2	14.87	122.2	1.48	5.2	97.50	S04	2	14.4
13.57	130.5	1.44	5.2	11.24	157.5	1.28	5.2	129.00	S04	2	14.4
10.83	159.7	1.27	5.2	8.97	192.7	1.12	5.2	161.57	S04	2	14.4
8.37	200.7	1.09	5.2	-	-	-	-	209.18	S04	2	14.4
122.71	18.2	17.06	7.1	101.68	22.0	16.03	7.1	14.26	S05	2	18.5
109.08	20.4	15.42	7.1	90.38	24.6	13.45	7.1	16.04	S05	2	18.5
97.22	22.9	15.51	7.1	80.56	27.7	13.44	7.1	18.00	S05	2	18.5
86.42	25.7	13.03	7.1	71.60	31.0	11.29	7.1	20.25	S05	2	18.5
74.47	29.8	12.68	7.1	61.70	35.9	10.89	7.1	23.50	S05	2	18.5
66.19	33.3	10.65	7.1	54.85	40.2	9.13	7.1	26.44	S05	2	18.5
56.88	38.7	10.21	7.1	47.13	46.7	8.71	7.1	30.77	S05	2	18.5
50.56	43.3	8.58	7.1	41.89	52.3	7.31	7.1	34.62	S05	2	18.5
45.71	47.9	8.53	7.1	37.87	57.8	7.24	7.1	38.29	S05	2	18.5
40.63	53.5	7.17	7.1	33.67	64.6	6.07	7.1	43.07	S05	2	18.5
35.39	61.3	6.87	7.1	29.32	73.9	5.79	7.1	49.45	S05	2	18.5
31.45	68.5	5.77	7.1	26.06	82.6	4.86	7.1	55.64	S05	2	18.5
28.23	76.1	4.78	7.1	23.39	91.9	3.93	7.1	62.00	S05	2	18.5
25.09	85.0	4.74	7.1	20.79	102.6	3.92	7.1	69.75	S05	2	18.5
23.03	92.5	3.13	7.1	19.08	111.7	2.57	7.1	76.00	S05	2	18.5
19.94	92.9	3.88	7.1	16.52	112.1	3.67	7.1	87.75	S05	2	18.5
15.28	118.9	3.27	7.1	12.66	143.5	3.05	7.1	114.56	S05	2	18.5
11.67	152.1	2.78	7.1	9.67	183.5	2.46	7.1	150.00	S05	2	18.5
9.38	185.1	2.42	7.1	7.77	223.4	2.07	7.1	186.64	S05	2	18.5
7.26	232.3	2.00	7.1	6.01	280.3	1.67	7.1	241.09	S05	2	18.5
5.79	283.3	1.65	7.1	4.80	341.9	1.38	7.1	302.25	S05	2	18.5
4.72	338.4	1.40	7.1	3.91	408.4	1.20	7.1	370.50	S05	2	18.5
112.59	20.2	27.99	12	93.29	24.4	27.95	12.5	15.54	S06 Ø40	2	35.3
92.84	24.4	26.82	12.5	76.92	29.5	24.33	12.5	18.85	S06 Ø40	2	35.3
70.62	32.0	22.82	12.5	58.51	38.6	19.05	12.5	24.78	S06 Ø40	2	35.3
44.35	48.4	13.43	12.5	36.75	58.5	13.51	12.5	39.46	S06 Ø40	2	35.3
36.57	58.4	13.02	12.5	30.30	70.5	11.76	12.5	47.85	S06 Ø40	2	35.3
27.82	76.1	11.13	12.5	23.05	91.8	9.48	12.5	62.91	S06 Ø40	2	35.3

PN = 0.25 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
21.54	97.2	9.08	12.5	17.85	117.4	7.70	12.5	81.23	S06 Ø40	2	35.3
20.33	95.1	7.11	12.5	16.84	114.8	7.04	12.5	86.09	S06 Ø40	2	35.3
17.68	117.4	7.73	12.5	14.65	141.7	6.51	12.5	99.00	S06 Ø40	2	35.3
16.76	114.2	6.90	12.5	13.89	137.8	6.27	12.5	104.40	S06 Ø40	2	35.3
13.73	149.1	6.25	12.5	11.37	180.0	5.24	12.5	127.50	S06 Ø40	2	35.3
12.75	147.4	5.98	12.5	10.56	177.9	5.10	12.5	137.25	S06 Ø40	2	35.3
10.88	185.6	5.13	12.5	9.01	224.0	4.31	12.5	160.88	S06 Ø40	2	35.3
9.87	186.6	4.91	12.5	8.18	225.3	4.17	12.5	177.23	S06 Ø40	2	35.3
8.10	223.5	4.21	12.5	6.71	269.8	3.55	12.5	216.00	S06 Ø40	2	35.3
6.29	280.7	3.44	12.5	5.21	338.8	2.89	12.5	278.18	S06 Ø40	2	35.3
4.99	345.5	2.86	12.5	4.13	416.9	2.39	12.5	351.00	S06 Ø40	2	35.3
112.59	20.2	27.99	10.1	93.29	24.4	27.95	10.1	15.54	S06 Ø35	2	35.3
92.84	24.4	26.82	10.1	76.92	29.5	24.33	10.1	18.85	S06 Ø35	2	35.3
70.62	32.0	22.82	10.1	58.51	38.6	19.05	10.1	24.78	S06 Ø35	2	35.3
44.35	48.4	13.43	10.1	36.75	58.5	13.51	10.1	39.46	S06 Ø35	2	35.3
36.57	58.4	13.02	10.1	30.30	70.5	11.76	10.1	47.85	S06 Ø35	2	35.3
27.82	76.1	11.13	10.1	23.05	91.8	9.48	10.1	62.91	S06 Ø35	2	35.3
21.54	97.2	9.08	10.1	17.85	117.4	7.70	10.1	81.23	S06 Ø35	2	35.3
20.33	95.1	7.11	10.1	16.84	114.8	7.04	10.1	86.09	S06 Ø35	2	35.3
17.68	117.4	7.73	10.1	14.65	141.7	6.51	10.1	99.00	S06 Ø35	2	35.3
16.76	114.2	6.90	10.1	13.89	137.8	6.27	10.1	104.40	S06 Ø35	2	35.3
13.73	149.1	6.25	10.1	11.37	180.0	5.24	10.1	127.50	S06 Ø35	2	35.3
12.75	147.4	5.98	10.1	10.56	177.9	5.10	10.1	137.25	S06 Ø35	2	35.3
10.88	185.6	5.13	10.1	9.01	224.0	4.31	10.1	160.88	S06 Ø35	2	35.3
9.87	186.6	4.91	10.1	8.18	225.3	4.17	10.1	177.23	S06 Ø35	2	35.3
8.10	223.5	4.21	10.1	6.71	269.8	3.55	10.1	216.00	S06 Ø35	2	35.3
6.29	280.7	3.44	10.1	5.21	338.8	2.89	10.1	278.18	S06 Ø35	2	35.3
4.99	345.5	2.86	10.1	4.13	416.9	2.39	10.1	351.00	S06 Ø35	2	35.3
62.55	36.1	33.72	13.9	51.83	43.6	29.19	14.7	27.98	S07 Ø50	2	57.8
51.74	43.6	29.14	14.7	42.87	52.6	25.01	15.6	33.83	S07 Ø50	2	57.8
25.17	84.7	15.99	18.0	20.86	102.3	13.74	18.0	69.52	S07 Ø50	2	57.8
20.82	101.7	13.77	18.0	17.25	122.8	11.79	18.0	84.05	S07 Ø50	2	57.8
16.07	130.4	11.18	18.0	13.31	157.4	9.51	18.0	108.91	S07 Ø50	2	57.8
12.61	164.2	9.15	18.0	10.45	198.1	7.74	18.0	138.77	S07 Ø50	2	57.8
11.73	163.5	8.54	18.0	9.72	197.3	7.28	18.0	149.22	S07 Ø50	2	57.8
10.58	193.9	7.95	18.0	8.76	234.0	6.56	18.0	165.46	S07 Ø50	2	57.8
9.70	195.1	7.40	18.0	8.04	235.5	6.28	18.0	180.40	S07 Ø50	2	57.8
8.17	247.3	6.31	18.0	6.77	298.5	5.25	18.0	214.32	S07 Ø50	2	57.8
7.49	247.8	6.06	18.0	6.20	299.1	5.02	18.0	233.75	S07 Ø50	2	57.8
5.88	308.9	4.87	18.0	4.87	372.8	4.06	18.0	297.85	S07 Ø50	2	57.8
4.93	362.0	4.18	18.0	4.08	436.9	3.54	18.0	355.14	S07 Ø50	2	57.8
3.80	456.4	3.38	18.0	3.15	550.8	2.90	18.0	460.00	S07 Ø50	2	57.8
62.55	36.1	33.72	14.1	51.83	43.6	29.19	14.9	27.98	S07 Ø45	2	57.8
51.74	43.6	29.14	14.9	42.87	52.6	25.01	14.9	33.83	S07 Ø45	2	57.8
25.17	84.7	15.99	14.9	20.86	102.3	13.74	14.9	69.52	S07 Ø45	2	57.8
20.82	101.7	13.77	14.9	17.25	122.8	11.79	14.9	84.05	S07 Ø45	2	57.8
16.07	130.4	11.18	14.9	13.31	157.4	9.51	14.9	108.91	S07 Ø45	2	57.8
12.61	164.2	9.15	14.9	10.45	198.1	7.74	14.9	138.77	S07 Ø45	2	57.8
11.73	163.5	8.54	14.9	9.72	197.3	7.28	14.9	149.22	S07 Ø45	2	57.8

PN = 0.25 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
10.58	193.9	7.95	14.9	8.76	234.0	6.56	14.9	165.46	S07 Ø45	2	57.8
9.70	195.1	7.40	14.9	8.04	235.5	6.28	14.9	180.40	S07 Ø45	2	57.8
8.17	247.3	6.31	14.9	6.77	298.5	5.25	14.9	214.32	S07 Ø45	2	57.8
7.49	247.8	6.06	14.9	6.20	299.1	5.02	14.9	233.75	S07 Ø45	2	57.8
5.88	308.9	4.87	14.9	4.87	372.8	4.06	14.9	297.85	S07 Ø45	2	57.8
4.93	362.0	4.18	14.9	4.08	436.9	3.54	14.9	355.14	S07 Ø45	2	57.8
3.80	456.4	3.38	14.9	3.15	550.8	2.90	14.9	460.00	S07 Ø45	2	57.8

PN = 0.37 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.80	10.0	6.20	3.0	280.72	12.0	5.58	3.0	5.17	S03	2	14.0
248.58	13.5	5.14	3.0	205.97	16.3	4.60	3.0	7.04	S03	2	14.0
187.17	17.9	4.29	3.0	155.08	21.6	3.83	3.0	9.35	S03	2	14.0
186.34	17.7	4.47	3.0	154.40	21.4	4.01	3.0	9.39	S03	2	14.0
136.72	24.0	3.62	3.0	113.28	29.0	3.22	3.0	12.80	S03	2	14.0
102.94	31.7	2.99	3.0	85.29	38.2	2.57	3.0	17.00	S03	2	14.0
76.86	42.1	2.37	3.0	63.68	50.8	2.02	3.0	22.77	S03	2	14.0
60.05	53.4	1.93	3.0	49.75	64.5	1.63	3.0	29.14	S03	2	14.0
51.40	55.9	1.43	3.0	42.59	67.5	1.39	3.0	34.04	S03	2	14.0
46.27	68.7	1.55	3.0	38.34	82.9	1.31	3.0	37.82	S03	2	14.0
37.72	75.0	1.21	3.0	31.25	90.5	1.09	3.0	46.40	S03	2	14.0
36.46	86.3	1.25	3.0	30.21	104.1	1.06	3.0	48.00	S03	2	14.0
29.56	105.4	1.05	3.0	24.49	127.2	0.87	3.0	59.20	S03	2	14.0
28.40	97.8	0.98	3.0	23.53	118.1	0.89	3.0	61.63	S03	2	14.0
197.30	17.0	7.24	5.2	163.48	20.5	6.40	5.2	8.87	S04	2	16.1
153.51	21.8	6.15	5.2	127.19	26.3	5.47	5.2	11.40	S04	2	16.1
116.67	28.5	5.19	5.2	96.67	34.4	4.63	5.2	15.00	S04	2	16.1
107.62	30.3	4.32	5.2	89.17	36.6	3.87	5.2	16.26	S04	2	16.1
88.18	37.5	4.37	5.2	73.06	45.2	3.99	5.2	19.85	S04	2	16.1
83.73	38.7	3.73	5.2	69.38	46.7	3.33	5.2	20.90	S04	2	16.1
70.40	46.6	3.85	5.2	58.33	56.3	3.29	5.2	24.86	S04	2	16.1
63.64	50.5	3.19	5.2	52.73	61.0	2.84	5.2	27.50	S04	2	16.1
54.38	59.9	3.11	5.2	45.06	72.3	2.54	5.2	32.18	S04	2	16.1
48.10	66.2	2.73	5.2	39.85	79.9	2.44	5.2	36.38	S04	2	16.1
43.21	74.8	2.47	5.2	35.80	90.3	2.02	5.2	40.50	S04	2	16.1
38.40	82.2	2.44	5.2	31.82	99.2	2.05	5.2	45.57	S04	2	16.1
35.14	91.4	2.02	5.2	29.12	110.3	1.64	5.2	49.80	S04	2	16.1
29.66	105.2	1.95	5.2	24.58	127.0	1.64	5.2	59.00	S04	2	16.1
23.57	130.9	1.60	5.2	19.53	158.0	1.34	5.2	74.25	S04	2	16.1
19.17	159.3	1.33	5.2	15.88	192.2	1.11	5.2	91.30	S04	2	16.1
17.95	149.8	1.13	5.2	14.87	180.8	1.00	5.2	97.50	S04	2	16.1
13.57	193.2	0.97	5.2	-	-	-	-	129.00	S04	2	16.1
122.71	27.0	11.53	7.1	101.68	32.6	10.83	7.1	14.26	S05	2	20.2
109.08	30.2	10.42	7.1	90.38	36.5	9.09	7.1	16.04	S05	2	20.2
97.22	33.9	10.48	7.1	80.56	40.9	9.08	7.1	18.00	S05	2	20.2
86.42	38.0	8.80	7.1	71.60	45.9	7.63	7.1	20.25	S05	2	20.2
74.47	44.1	8.56	7.1	61.70	53.2	7.35	7.1	23.50	S05	2	20.2
66.19	49.3	7.20	7.1	54.85	59.5	6.17	7.1	26.44	S05	2	20.2

PN = 0.37 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
56.88	57.3	6.90	7.1	47.13	69.1	5.89	7.1	30.77	S05	2	20.2
50.56	64.1	5.79	7.1	41.89	77.4	4.94	7.1	34.62	S05	2	20.2
45.71	70.8	5.76	7.1	37.87	85.5	4.89	7.1	38.29	S05	2	20.2
40.63	79.2	4.84	7.1	33.67	95.6	4.10	7.1	43.07	S05	2	20.2
35.39	90.7	4.64	7.1	29.32	109.4	3.91	7.1	49.45	S05	2	20.2
31.45	101.3	3.90	7.1	26.06	122.3	3.29	7.1	55.64	S05	2	20.2
28.23	112.7	3.23	7.1	23.39	136.0	2.65	7.1	62.00	S05	2	20.2
25.09	125.9	3.20	7.1	20.79	151.9	2.65	7.1	69.75	S05	2	20.2
23.03	136.9	2.12	7.1	19.08	165.3	1.74	7.1	76.00	S05	2	20.2
19.94	137.5	2.62	7.1	16.52	166.0	2.48	7.1	87.75	S05	2	20.2
15.28	176.0	2.21	7.1	12.66	212.5	2.06	7.1	114.56	S05	2	20.2
11.67	225.1	1.88	7.1	9.67	271.6	1.66	7.1	150.00	S05	2	20.2
9.38	273.9	1.64	7.1	7.77	330.6	1.40	7.1	186.64	S05	2	20.2
7.26	343.8	1.35	7.1	6.01	414.9	1.13	7	241.09	S05	2	20.2
5.79	419.3	1.11	6.9	-	-	-	-	302.25	S05	2	20.2
112.59	29.9	18.91	12	93.29	36.0	18.88	12.5	15.54	S06 Ø40	2	37.0
92.84	36.1	18.12	12.5	76.92	43.6	16.44	12.5	18.85	S06 Ø40	2	37.0
70.62	47.3	15.42	12.5	58.51	57.1	12.87	12.5	24.78	S06 Ø40	2	37.0
44.35	71.7	9.07	12.5	36.75	86.5	9.13	12.5	39.46	S06 Ø40	2	37.0
36.57	86.5	8.80	12.5	30.30	104.4	7.94	12.5	47.85	S06 Ø40	2	37.0
27.82	112.6	7.52	12.5	23.05	135.9	6.41	12.5	62.91	S06 Ø40	2	37.0
21.54	143.9	6.14	12.5	17.85	173.7	5.20	12.5	81.23	S06 Ø40	2	37.0
20.33	140.8	4.80	12.5	16.84	169.9	4.75	12.5	86.09	S06 Ø40	2	37.0
17.68	173.7	5.22	12.5	14.65	209.7	4.40	12.5	99.00	S06 Ø40	2	37.0
16.76	169.0	4.66	12.5	13.89	203.9	4.24	12.5	104.40	S06 Ø40	2	37.0
13.73	220.7	4.22	12.5	11.37	266.4	3.54	12.5	127.50	S06 Ø40	2	37.0
12.75	218.2	4.04	12.5	10.56	263.4	3.45	12.5	137.25	S06 Ø40	2	37.0
10.88	274.7	3.46	12.5	9.01	331.5	2.91	12.5	160.88	S06 Ø40	2	37.0
9.87	276.2	3.32	12.5	8.18	333.4	2.82	12.5	177.23	S06 Ø40	2	37.0
8.10	330.8	2.85	12.5	6.71	399.3	2.40	12.5	216.00	S06 Ø40	2	37.0
6.29	415.5	2.33	12.5	5.21	501.4	1.95	12.5	278.18	S06 Ø40	2	37.0
4.99	511.3	1.93	12.5	4.13	617.0	1.61	12.5	351.00	S06 Ø40	2	37.0
112.59	29.9	18.91	10.1	93.29	36.0	18.88	10.1	15.54	S06 Ø35	2	37.0
92.84	36.1	18.12	10.1	76.92	43.6	16.44	10.1	18.85	S06 Ø35	2	37.0
70.62	47.3	15.42	10.1	58.51	57.1	12.87	10.1	24.78	S06 Ø35	2	37.0
44.35	71.7	9.07	10.1	36.75	86.5	9.13	10.1	39.46	S06 Ø35	2	37.0
36.57	86.5	8.80	10.1	30.30	104.4	7.94	10.1	47.85	S06 Ø35	2	37.0
27.82	112.6	7.52	10.1	23.05	135.9	6.41	10.1	62.91	S06 Ø35	2	37.0
21.54	143.9	6.14	10.1	17.85	173.7	5.20	10.1	81.23	S06 Ø35	2	37.0
20.33	140.8	4.80	10.1	16.84	169.9	4.75	10.1	86.09	S06 Ø35	2	37.0
17.68	173.7	5.22	10.1	14.65	209.7	4.40	10.1	99.00	S06 Ø35	2	37.0
16.76	169.0	4.66	10.1	13.89	203.9	4.24	10.1	104.40	S06 Ø35	2	37.0
13.73	220.7	4.22	10.1	11.37	266.4	3.54	10.1	127.50	S06 Ø35	2	37.0
12.75	218.2	4.04	10.1	10.56	263.4	3.45	10.1	137.25	S06 Ø35	2	37.0
10.88	274.7	3.46	10.1	9.01	331.5	2.91	10.1	160.88	S06 Ø35	2	37.0
9.87	276.2	3.32	10.1	8.18	333.4	2.82	10.1	177.23	S06 Ø35	2	37.0
8.10	330.8	2.85	10.1	6.71	399.3	2.40	10.1	216.00	S06 Ø35	2	37.0
6.29	415.5	2.33	10.1	5.21	501.4	1.95	10.1	278.18	S06 Ø35	2	37.0
4.99	511.3	1.93	10.1	-	-	-	-	351.00	S06 Ø35	2	37.0

PN = 0.37 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
62.55	53.5	22.78	13.9	51.83	64.6	19.72	14.7	27.98	S07 Ø50	2	59.5
51.74	64.5	19.69	14.7	42.87	77.8	16.90	15.6	33.83	S07 Ø50	2	59.5
25.17	125.4	10.81	18.0	20.86	151.3	9.29	18.0	69.52	S07 Ø50	2	59.5
20.82	150.6	9.30	18.0	17.25	181.7	7.96	18.0	84.05	S07 Ø50	2	59.5
16.07	193.0	7.55	18.0	13.31	232.9	6.43	18.0	108.91	S07 Ø50	2	59.5
12.61	243.0	6.18	18.0	10.45	293.3	5.23	18.0	138.77	S07 Ø50	2	59.5
11.73	241.9	5.77	18.0	9.72	292.0	4.92	18.0	149.22	S07 Ø50	2	59.5
10.58	287.0	5.37	18.0	8.76	346.3	4.43	18.0	165.46	S07 Ø50	2	59.5
9.70	288.7	5.00	18.0	8.04	348.5	4.24	18.0	180.40	S07 Ø50	2	59.5
8.17	366.0	4.26	18.0	6.77	441.7	3.55	18.0	214.32	S07 Ø50	2	59.5
7.49	366.7	4.09	18.0	6.20	442.6	3.39	18.0	233.75	S07 Ø50	2	59.5
5.88	457.2	3.29	18.0	4.87	551.8	2.74	18.0	297.85	S07 Ø50	2	59.5
4.93	535.8	2.82	18.0	4.08	646.7	2.39	18.0	355.14	S07 Ø50	2	59.5
3.80	675.4	2.28	18.0	3.15	815.2	1.96	18.0	460.00	S07 Ø50	2	59.5
62.55	53.5	22.78	14.1	51.83	64.6	19.72	14.9	27.98	S07 Ø45	2	59.5
51.74	64.5	19.69	14.9	42.87	77.8	16.90	14.9	33.83	S07 Ø45	2	59.5
25.17	125.4	10.81	14.9	20.86	151.3	9.29	14.9	69.52	S07 Ø45	2	59.5
20.82	150.6	9.30	14.9	17.25	181.7	7.96	14.9	84.05	S07 Ø45	2	59.5
16.07	193.0	7.55	14.9	13.31	232.9	6.43	14.9	108.91	S07 Ø45	2	59.5
12.61	243.0	6.18	14.9	10.45	293.3	5.23	14.9	138.77	S07 Ø45	2	59.5
11.73	241.9	5.77	14.9	9.72	292.0	4.92	14.9	149.22	S07 Ø45	2	59.5
10.58	287.0	5.37	14.9	8.76	346.3	4.43	14.9	165.46	S07 Ø45	2	59.5
9.70	288.7	5.00	14.9	8.04	348.5	4.24	14.9	180.40	S07 Ø45	2	59.5
8.17	366.0	4.26	14.9	6.77	441.7	3.55	14.9	214.32	S07 Ø45	2	59.5
7.49	366.7	4.09	14.9	6.20	442.6	3.39	14.9	233.75	S07 Ø45	2	59.5
5.88	457.2	3.29	14.9	4.87	551.8	2.74	14.9	297.85	S07 Ø45	2	59.5
4.93	535.8	2.82	14.9	4.08	646.7	2.39	14.9	355.14	S07 Ø45	2	59.5
3.80	675.4	2.28	14.9	3.15	815.2	1.96	14.9	460.00	S07 Ø45	2	59.5

PN = 0.55 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.80	14.8	4.17	3.0	280.72	17.9	3.76	3.0	5.17	S03	2	15.3
248.58	20.1	3.46	3.0	205.97	24.3	3.10	3.0	7.04	S03	2	15.3
187.17	26.6	2.88	3.0	155.08	32.1	2.58	3.0	9.35	S03	2	15.3
186.34	26.3	3.01	3.0	154.40	31.8	2.70	3.0	9.39	S03	2	15.3
136.72	35.7	2.44	3.0	113.28	43.1	2.17	3.0	12.80	S03	2	15.3
102.94	47.1	2.01	3.0	85.29	56.8	1.73	3.0	17.00	S03	2	15.3
76.86	62.6	1.59	3.0	63.68	75.5	1.36	3.0	22.77	S03	2	15.3
60.05	79.4	1.30	3.0	49.75	95.9	1.10	3.0	29.14	S03	2	15.3
51.40	83.1	0.96	3.0	42.59	100.3	0.93	3.0	34.04	S03	2	15.3
46.27	102.1	1.04	3.0	38.34	123.2	0.88	3.0	37.82	S03	2	15.3
37.72	111.5	0.81	3.0	31.25	134.6	0.73	3.0	46.40	S03	2	15.3
36.46	128.2	0.84	3.0	30.21	154.8	0.71	2.6	48.00	S03	2	15.3
-	-	-	-	209.44	23.9	5.04	5.2	6.92	S04	2	17.4
197.30	25.2	4.87	5.2	163.48	30.5	4.30	5.2	8.87	S04	2	17.4
153.51	32.3	4.14	5.2	127.19	39.0	3.68	5.2	11.40	S04	2	17.4
-	-	-	-	114.24	42.6	3.00	5.2	12.69	S04	2	17.4
116.67	42.3	3.49	5.2	96.67	51.1	3.11	5.2	15.00	S04	2	17.4

PN = 0.55 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
107.62	45.0	2.91	5.2	89.17	54.3	2.60	5.2	16.26	S04	2	17.4
88.18	55.7	2.94	5.2	73.06	67.2	2.68	5.2	19.85	S04	2	17.4
83.73	57.5	2.51	5.2	69.38	69.4	2.24	5.2	20.90	S04	2	17.4
70.40	69.3	2.59	5.2	58.33	83.7	2.21	5.2	24.86	S04	2	17.4
63.64	75.1	2.15	5.2	52.73	90.7	1.91	5.2	27.50	S04	2	17.4
54.38	89.1	2.09	5.2	45.06	107.5	1.71	5.2	32.18	S04	2	17.4
48.10	98.4	1.83	5.2	39.85	118.8	1.64	5.2	36.38	S04	2	17.4
43.21	111.3	1.66	5.2	35.80	134.3	1.36	5.2	40.50	S04	2	17.4
38.40	122.2	1.64	5.2	31.82	147.5	1.38	5.2	45.57	S04	2	17.4
35.14	135.8	1.36	5.2	29.12	163.9	1.10	5.2	49.80	S04	2	17.4
29.66	156.4	1.31	5.2	24.58	188.8	1.11	5.2	59.00	S04	2	17.4
23.57	194.6	1.08	5.2	19.53	234.9	0.90	5.2	74.25	S04	2	17.4
19.17	236.7	0.90	5.2	-	-	-	-	91.30	S04	2	17.4
-	-	-	-	155.36	31.8	8.74	7.1	9.33	S05	2	21.5
-	-	-	-	138.10	35.7	7.88	7.1	10.50	S05	2	21.5
-	-	-	-	127.36	38.8	8.03	7.1	11.38	S05	2	21.5
-	-	-	-	113.21	43.4	7.20	7.1	12.81	S05	2	21.5
122.71	40.1	7.76	7.1	101.68	48.4	7.29	7.1	14.26	S05	2	21.5
109.08	44.9	7.01	7.1	90.38	54.2	6.11	7.1	16.04	S05	2	21.5
97.22	50.4	7.05	7.1	80.56	60.9	6.11	7.1	18.00	S05	2	21.5
86.42	56.5	5.92	7.1	71.60	68.2	5.13	7.1	20.25	S05	2	21.5
74.47	65.5	5.76	7.1	61.70	79.0	4.95	7.1	23.50	S05	2	21.5
66.19	73.3	4.84	7.1	54.85	88.5	4.15	7.1	26.44	S05	2	21.5
56.88	85.2	4.64	7.1	47.13	102.8	3.96	7.1	30.77	S05	2	21.5
50.56	95.3	3.90	7.1	41.89	115.0	3.32	7.1	34.62	S05	2	21.5
45.71	105.3	3.88	7.1	37.87	127.1	3.29	7.1	38.29	S05	2	21.5
40.63	117.7	3.26	7.1	33.67	142.1	2.76	7.1	43.07	S05	2	21.5
35.39	134.8	3.12	7.1	29.32	162.7	2.63	7.1	49.45	S05	2	21.5
31.45	150.6	2.62	7.1	26.06	181.8	2.21	7.1	55.64	S05	2	21.5
28.23	167.5	2.17	7.1	23.39	202.2	1.78	7.1	62.00	S05	2	21.5
25.09	187.1	2.15	7.1	20.79	225.8	1.78	7.1	69.75	S05	2	21.5
23.03	203.6	1.42	7.1	19.08	245.7	1.17	7.1	76.00	S05	2	21.5
19.94	204.4	1.76	7.1	16.52	246.7	1.67	7.1	87.75	S05	2	21.5
15.28	261.7	1.49	7.1	12.66	315.8	1.39	7.1	114.56	S05	2	21.5
11.67	334.6	1.26	7.1	9.67	403.8	1.12	7.1	150.00	S05	2	21.5
9.38	407.1	1.10	7.1	-	-	-	-	186.64	S05	2	21.5
-	-	-	-	205.23	24.5	14.84	10	7.07	S06 Ø40	2	38.3
-	-	-	-	162.79	30.9	14.30	10.7	8.91	S06 Ø40	2	38.3
-	-	-	-	133.85	37.5	13.86	11.3	10.83	S06 Ø40	2	38.3
-	-	-	-	113.73	44.0	13.33	11.9	12.75	S06 Ø40	2	38.3
112.59	44.4	12.72	12	93.29	53.6	12.70	12.5	15.54	S06 Ø40	2	38.3
92.84	53.7	12.19	12.5	76.92	64.8	11.06	12.5	18.85	S06 Ø40	2	38.3
-	-	-	-	64.13	74.5	6.97	12.5	22.61	S06 Ø40	2	38.3
70.62	70.3	10.37	12.5	58.51	84.8	8.66	12.5	24.78	S06 Ø40	2	38.3
-	-	-	-	52.73	90.4	6.70	12.5	27.50	S06 Ø40	2	38.3
-	-	-	-	44.80	106.0	6.43	12.5	32.37	S06 Ø40	2	38.3
44.35	106.6	6.10	12.5	36.75	128.6	6.14	12.5	39.46	S06 Ø40	2	38.3
36.57	128.5	5.92	12.5	30.30	155.1	5.34	12.5	47.85	S06 Ø40	2	38.3
27.82	167.4	5.06	12.5	23.05	202.1	4.31	12.5	62.91	S06 Ø40	2	38.3

PN = 0.55 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
-	-	-	-	20.53	209.1	3.38	12.5	70.62	S06 Ø40	2	38.3
21.54	213.9	4.13	12.5	17.85	258.2	3.50	12.5	81.23	S06 Ø40	2	38.3
20.33	209.3	3.23	12.5	16.84	252.6	3.20	12.5	86.09	S06 Ø40	2	38.3
17.68	258.2	3.51	12.5	14.65	311.7	2.96	12.5	99.00	S06 Ø40	2	38.3
16.76	251.2	3.14	12.5	13.89	303.1	2.85	12.5	104.40	S06 Ø40	2	38.3
13.73	328.1	2.84	12.5	11.37	396.0	2.38	12.5	127.50	S06 Ø40	2	38.3
12.75	324.4	2.72	12.5	10.56	391.5	2.32	12.5	137.25	S06 Ø40	2	38.3
10.88	408.3	2.33	12.5	9.01	492.8	1.96	12.5	160.88	S06 Ø40	2	38.3
9.87	410.6	2.23	12.5	8.18	495.6	1.90	12.5	177.23	S06 Ø40	2	38.3
8.10	491.7	1.92	12.5	6.71	593.5	1.61	12.5	216.00	S06 Ø40	2	38.3
6.29	617.6	1.57	12.5	5.21	745.4	1.31	12.5	278.18	S06 Ø40	2	38.3
4.99	760.0	1.30	12.5	4.13	917.2	1.09	11.6	351.00	S06 Ø40	2	38.3
-	-	-	-	205.23	24.5	14.84	10.1	7.07	S06 Ø35	2	38.3
-	-	-	-	162.79	30.9	14.30	10.1	8.91	S06 Ø35	2	38.3
-	-	-	-	133.85	37.5	13.86	10.1	10.83	S06 Ø35	2	38.3
-	-	-	-	113.73	44.0	13.33	10.1	12.75	S06 Ø35	2	38.3
112.59	44.4	12.72	10.1	93.29	53.6	12.70	10.1	15.54	S06 Ø35	2	38.3
92.84	53.7	12.19	10.1	76.92	64.8	11.06	10.1	18.85	S06 Ø35	2	38.3
-	-	-	-	64.13	74.5	6.97	10.1	22.61	S06 Ø35	2	38.3
70.62	70.3	10.37	10.1	58.51	84.8	8.66	10.1	24.78	S06 Ø35	2	38.3
-	-	-	-	52.73	90.4	6.70	10.1	27.50	S06 Ø35	2	38.3
-	-	-	-	44.80	106.0	6.43	10.1	32.37	S06 Ø35	2	38.3
44.35	106.6	6.10	10.1	36.75	128.6	6.14	10.1	39.46	S06 Ø35	2	38.3
36.57	128.5	5.92	10.1	30.30	155.1	5.34	10.1	47.85	S06 Ø35	2	38.3
27.82	167.4	5.06	10.1	23.05	202.1	4.31	10.1	62.91	S06 Ø35	2	38.3
-	-	-	-	20.53	209.1	3.38	10.1	70.62	S06 Ø35	2	38.3
21.54	213.9	4.13	10.1	17.85	258.2	3.50	10.1	81.23	S06 Ø35	2	38.3
20.33	209.3	3.23	10.1	16.84	252.6	3.20	10.1	86.09	S06 Ø35	2	38.3
17.68	258.2	3.51	10.1	14.65	311.7	2.96	10.1	99.00	S06 Ø35	2	38.3
16.76	251.2	3.14	10.1	13.89	303.1	2.85	10.1	104.40	S06 Ø35	2	38.3
13.73	328.1	2.84	10.1	11.37	396.0	2.38	10.1	127.50	S06 Ø35	2	38.3
12.75	324.4	2.72	10.1	10.56	391.5	2.32	10.1	137.25	S06 Ø35	2	38.3
10.88	408.3	2.33	10.1	9.01	492.8	1.96	10.1	160.88	S06 Ø35	2	38.3
9.87	410.6	2.23	10.1	8.18	495.6	1.90	10.1	177.23	S06 Ø35	2	38.3
8.10	491.7	1.92	10.1	-	-	-	-	216.00	S06 Ø35	2	38.3
-	-	-	-	101.06	49.6	19.22	11.8	14.35	S07 Ø50	2	60.8
-	-	-	-	83.25	60.1	18.42	12.6	17.42	S07 Ø50	2	60.8
-	-	-	-	70.30	71.1	16.80	13.3	20.63	S07 Ø50	2	60.8
-	-	-	-	60.93	81.8	15.06	14	23.80	S07 Ø50	2	60.8
62.55	79.5	15.33	13.9	51.83	96.0	13.27	14.7	27.98	S07 Ø50	2	60.8
51.74	95.8	13.25	14.7	42.87	115.7	11.37	15.6	33.83	S07 Ø50	2	60.8
-	-	-	-	33.50	141.9	8.98	17.2	43.28	S07 Ø50	2	60.8
-	-	-	-	28.29	167.4	7.91	17.5	51.25	S07 Ø50	2	60.8
-	-	-	-	24.52	192.3	7.09	18.0	59.13	S07 Ø50	2	60.8
25.17	186.4	7.27	18.0	20.86	225.0	6.25	18.0	69.52	S07 Ø50	2	60.8
20.82	223.8	6.26	18.0	17.25	270.1	5.36	18.0	84.05	S07 Ø50	2	60.8
-	-	-	-	15.61	277.0	4.73	18.0	92.89	S07 Ø50	2	60.8
16.07	286.8	5.08	18.0	13.31	346.2	4.32	18.0	108.91	S07 Ø50	2	60.8
-	-	-	-	11.42	372.7	3.75	18.0	126.92	S07 Ø50	2	60.8

PN = 0.55 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
12.61	361.2	4.16	18.0	10.45	435.9	3.52	18.0	138.77	S07 Ø50	2	60.8
11.73	359.6	3.88	18.0	9.72	434.0	3.31	18.0	149.22	S07 Ø50	2	60.8
10.58	426.6	3.61	18.0	8.76	514.8	2.98	18.0	165.46	S07 Ø50	2	60.8
9.70	429.2	3.36	18.0	8.04	518.0	2.85	18.0	180.40	S07 Ø50	2	60.8
8.17	544.1	2.87	18.0	6.77	656.6	2.39	18.0	214.32	S07 Ø50	2	60.8
7.49	545.1	2.75	18.0	6.20	657.9	2.28	18.0	233.75	S07 Ø50	2	60.8
5.88	679.6	2.21	18.0	4.87	820.2	1.84	18.0	297.85	S07 Ø50	2	60.8
4.93	796.5	1.90	18.0	4.08	961.3	1.61	18.0	355.14	S07 Ø50	2	60.8
3.80	1004.0	1.54	18.0	3.15	1211.7	1.32	18.0	460.00	S07 Ø50	2	60.8
-	-	-	-	101.06	49.6	19.22	12.1	14.35	S07 Ø45	2	60.8
-	-	-	-	83.25	60.1	18.42	12.9	17.42	S07 Ø45	2	60.8
-	-	-	-	70.30	71.1	16.80	13.6	20.63	S07 Ø45	2	60.8
-	-	-	-	60.93	81.8	15.06	14.3	23.80	S07 Ø45	2	60.8
62.55	79.5	15.33	14.1	51.83	96.0	13.27	14.9	27.98	S07 Ø45	2	60.8
51.74	95.8	13.25	14.9	42.87	115.7	11.37	14.9	33.83	S07 Ø45	2	60.8
-	-	-	-	33.50	141.9	8.98	14.9	43.28	S07 Ø45	2	60.8
-	-	-	-	28.29	167.4	7.91	14.9	51.25	S07 Ø45	2	60.8
-	-	-	-	24.52	192.3	7.09	14.9	59.13	S07 Ø45	2	60.8
25.17	186.4	7.27	14.9	20.86	225.0	6.25	14.9	69.52	S07 Ø45	2	60.8
20.82	223.8	6.26	14.9	17.25	270.1	5.36	14.9	84.05	S07 Ø45	2	60.8
-	-	-	-	15.61	277.0	4.73	14.9	92.89	S07 Ø45	2	60.8
16.07	286.8	5.08	14.9	13.31	346.2	4.32	14.9	108.91	S07 Ø45	2	60.8
-	-	-	-	11.42	372.7	3.75	14.9	126.92	S07 Ø45	2	60.8
12.61	361.2	4.16	14.9	10.45	435.9	3.52	14.9	138.77	S07 Ø45	2	60.8
11.73	359.6	3.88	14.9	9.72	434.0	3.31	14.9	149.22	S07 Ø45	2	60.8
10.58	426.6	3.61	14.9	8.76	514.8	2.98	14.9	165.46	S07 Ø45	2	60.8
9.70	429.2	3.36	14.9	8.04	518.0	2.85	14.9	180.40	S07 Ø45	2	60.8
8.17	544.1	2.87	14.9	6.77	656.6	2.39	14.9	214.32	S07 Ø45	2	60.8
7.49	545.1	2.75	14.9	6.20	657.9	2.28	14.9	233.75	S07 Ø45	2	60.8
5.88	679.6	2.21	14.9	4.87	820.2	1.84	14.9	297.85	S07 Ø45	2	60.8
4.93	796.5	1.90	14.9	4.08	961.3	1.61	14.9	355.14	S07 Ø45	2	60.8
3.80	1004.0	1.54	14.9	3.15	1211.7	1.32	14.9	460.00	S07 Ø45	2	60.8

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.80	20.2	3.06	3.0	280.72	24.4	2.75	3.0	5.17	S03	2	18.3
248.58	27.4	2.53	3.0	205.97	33.1	2.27	3.0	7.04	S03	2	18.3
187.17	36.3	2.12	3.0	155.08	43.8	1.89	3.0	9.35	S03	2	18.3
186.34	35.9	2.21	3.0	154.40	43.3	1.98	3.0	9.39	S03	2	18.3
136.72	48.7	1.79	3.0	113.28	58.7	1.59	3.0	12.80	S03	2	18.3
102.94	64.2	1.48	3.0	85.29	77.5	1.27	3.0	17.00	S03	2	18.3
76.86	85.3	1.17	3.0	63.68	103.0	1.00	3.0	22.77	S03	2	18.3
60.05	108.3	0.95	3.0	49.75	130.7	0.81	3.0	29.14	S03	2	18.3
252.78	26.9	4.19	5.2	209.44	32.5	3.69	5.2	6.92	S04	2	20.4
197.30	34.4	3.57	5.2	163.48	41.6	3.16	5.2	8.87	S04	2	20.4
153.51	44.1	3.03	5.2	127.19	53.2	2.70	5.2	11.40	S04	2	20.4
137.88	48.1	2.48	5.2	114.24	58.1	2.20	5.2	12.69	S04	2	20.4
116.67	57.7	2.56	5.2	96.67	69.7	2.28	5.2	15.00	S04	2	20.4
107.62	61.4	2.13	5.2	89.17	74.1	1.91	5.2	16.26	S04	2	20.4

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
88.18	75.9	2.16	5.2	73.06	91.6	1.97	5.2	19.85	S04	2	20.4
83.73	78.5	1.84	5.2	69.38	94.7	1.64	5.2	20.90	S04	2	20.4
70.40	94.6	1.90	5.2	58.33	114.1	1.62	5.2	24.86	S04	2	20.4
63.64	102.4	1.57	5.2	52.73	123.6	1.40	5.2	27.50	S04	2	20.4
54.38	121.5	1.54	5.2	45.06	146.6	1.25	5.2	32.18	S04	2	20.4
48.10	134.2	1.34	5.2	39.85	162.0	1.20	5.2	36.38	S04	2	20.4
43.21	151.7	1.22	5.2	35.80	183.1	0.99	5.2	40.50	S04	2	20.4
38.40	166.7	1.20	5.2	31.82	201.1	1.01	5.2	45.57	S04	2	20.4
29.66	213.3	0.96	5.2	-	-	-	-	59.00	S04	2	20.4
187.50	36.0	6.18	7.1	155.36	43.4	6.41	7.1	9.33	S05	2	24.5
166.67	40.3	5.76	7.1	138.10	48.7	5.78	7.1	10.50	S05	2	24.5
153.72	43.8	6.01	7.1	127.36	52.9	5.89	7.1	11.38	S05	2	24.5
136.64	49.1	5.58	7.1	113.21	59.2	5.28	7.1	12.81	S05	2	24.5
122.71	54.7	5.69	7.1	101.68	66.0	5.34	7.1	14.26	S05	2	24.5
109.08	61.3	5.14	7.1	90.38	73.9	4.48	7.1	16.04	S05	2	24.5
97.22	68.8	5.17	7.1	80.56	83.0	4.48	7.1	18.00	S05	2	24.5
86.42	77.0	4.34	7.1	71.60	92.9	3.76	7.1	20.25	S05	2	24.5
74.47	89.3	4.23	7.1	61.70	107.8	3.63	7.1	23.50	S05	2	24.5
66.19	99.9	3.55	7.1	54.85	120.6	3.04	7.1	26.44	S05	2	24.5
56.88	116.1	3.40	7.1	47.13	140.1	2.90	7.1	30.77	S05	2	24.5
50.56	129.9	2.86	7.1	41.89	156.8	2.44	7.1	34.62	S05	2	24.5
45.71	143.6	2.84	7.1	37.87	173.3	2.41	7.1	38.29	S05	2	24.5
40.63	160.5	2.39	7.1	33.67	193.7	2.02	7.1	43.07	S05	2	24.5
35.39	183.8	2.29	7.1	29.32	221.8	1.93	7.1	49.45	S05	2	24.5
31.45	205.4	1.92	7.1	26.06	247.9	1.62	7.1	55.64	S05	2	24.5
28.23	228.4	1.59	7.1	23.39	275.7	1.31	7.1	62.00	S05	2	24.5
25.09	255.1	1.58	7.1	20.79	307.9	1.31	7.1	69.75	S05	2	24.5
23.03	277.6	1.04	7.1	19.08	335.0	0.86	7.1	76.00	S05	2	24.5
19.94	278.8	1.29	7.1	16.52	336.4	1.22	7.1	87.75	S05	2	24.5
15.28	356.8	1.09	7.1	12.66	430.6	1.02	6.8	114.56	S05	2	24.5
11.67	456.2	0.93	6.4	-	-	-	-	150.00	S05	2	24.5
247.69	27.7	10.63	9.8	205.23	33.4	10.88	10.4	7.07	S06 Ø40	2	41.3
196.47	34.9	10.38	10.6	162.79	42.1	10.49	11.2	8.91	S06 Ø40	2	41.3
161.54	42.3	9.98	11.3	133.85	51.1	10.16	12	10.83	S06 Ø40	2	41.3
137.25	49.8	9.75	11.9	113.73	60.1	9.77	12.5	12.75	S06 Ø40	2	41.3
112.59	60.5	9.33	12.5	93.29	73.1	9.32	12.5	15.54	S06 Ø40	2	41.3
92.84	73.2	8.94	12.5	76.92	88.4	8.11	12.5	18.85	S06 Ø40	2	41.3
77.40	84.2	4.99	12.5	64.13	101.7	5.11	12.5	22.61	S06 Ø40	2	41.3
70.62	95.9	7.61	12.5	58.51	115.7	6.35	12.5	24.78	S06 Ø40	2	41.3
63.64	102.1	4.85	12.5	52.73	123.2	4.91	12.5	27.50	S06 Ø40	2	41.3
54.07	119.8	4.73	12.5	44.80	144.5	4.72	12.5	32.37	S06 Ø40	2	41.3
44.35	145.3	4.48	12.5	36.75	175.4	4.50	12.5	39.46	S06 Ø40	2	41.3
36.57	175.3	4.34	12.5	30.30	211.5	3.92	12.5	47.85	S06 Ø40	2	41.3
27.82	228.3	3.71	12.5	23.05	275.5	3.16	12.5	62.91	S06 Ø40	2	41.3
24.78	236.3	2.50	12.5	20.53	285.2	2.48	12.5	70.62	S06 Ø40	2	41.3
21.54	291.7	3.03	12.5	17.85	352.1	2.57	12.5	81.23	S06 Ø40	2	41.3
20.33	285.4	2.37	12.5	16.84	344.4	2.35	12.5	86.09	S06 Ø40	2	41.3
17.68	352.2	2.58	12.5	14.65	425.0	2.17	12.5	99.00	S06 Ø40	2	41.3
16.76	342.5	2.30	12.5	13.89	413.4	2.09	12.5	104.40	S06 Ø40	2	41.3

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
13.73	447.4	2.08	12.5	11.37	540.0	1.75	12.5	127.50	S06 Ø40	2	41.3
12.75	442.3	1.99	12.5	10.56	533.8	1.70	12.5	137.25	S06 Ø40	2	41.3
10.88	556.8	1.71	12.5	9.01	672.0	1.44	12.5	160.88	S06 Ø40	2	41.3
9.87	559.9	1.64	12.5	8.18	675.8	1.39	12.5	177.23	S06 Ø40	2	41.3
8.10	670.6	1.40	12.5	6.71	809.3	1.18	12	216.00	S06 Ø40	2	41.3
6.29	842.2	1.15	12.1	5.21	1016.4	0.96	10.7	278.18	S06 Ø40	2	41.3
4.99	1036.4	0.95	10.4	-	-	-	-	351.00	S06 Ø40	2	41.3
247.69	27.7	10.63	9.6	205.23	33.4	10.88	10.1	7.07	S06 Ø35	2	41.3
196.47	34.9	10.38	10.1	162.79	42.1	10.49	10.1	8.91	S06 Ø35	2	41.3
161.54	42.3	9.98	10.1	133.85	51.1	10.16	10.1	10.83	S06 Ø35	2	41.3
137.25	49.8	9.75	10.1	113.73	60.1	9.77	10.1	12.75	S06 Ø35	2	41.3
112.59	60.5	9.33	10.1	93.29	73.1	9.32	10.1	15.54	S06 Ø35	2	41.3
92.84	73.2	8.94	10.1	76.92	88.4	8.11	10.1	18.85	S06 Ø35	2	41.3
77.40	84.2	4.99	10.1	64.13	101.7	5.11	10.1	22.61	S06 Ø35	2	41.3
70.62	95.9	7.61	10.1	58.51	115.7	6.35	10.1	24.78	S06 Ø35	2	41.3
63.64	102.1	4.85	10.1	52.73	123.2	4.91	10.1	27.50	S06 Ø35	2	41.3
54.07	119.8	4.73	10.1	44.80	144.5	4.72	10.1	32.37	S06 Ø35	2	41.3
44.35	145.3	4.48	10.1	36.75	175.4	4.50	10.1	39.46	S06 Ø35	2	41.3
36.57	175.3	4.34	10.1	30.30	211.5	3.92	10.1	47.85	S06 Ø35	2	41.3
27.82	228.3	3.71	10.1	23.05	275.5	3.16	10.1	62.91	S06 Ø35	2	41.3
24.78	236.3	2.50	10.1	20.53	285.2	2.48	10.1	70.62	S06 Ø35	2	41.3
21.54	291.7	3.03	10.1	17.85	352.1	2.57	10.1	81.23	S06 Ø35	2	41.3
20.33	285.4	2.37	10.1	16.84	344.4	2.35	10.1	86.09	S06 Ø35	2	41.3
17.68	352.2	2.58	10.1	14.65	425.0	2.17	10.1	99.00	S06 Ø35	2	41.3
16.76	342.5	2.30	10.1	13.89	413.4	2.09	10.1	104.40	S06 Ø35	2	41.3
13.73	447.4	2.08	10.1	-	-	-	-	127.50	S06 Ø35	2	41.3
12.75	442.3	1.99	10.1	-	-	-	-	137.25	S06 Ø35	2	41.3
121.97	56.1	14.05	11.1	101.06	67.7	14.09	11.8	14.35	S07 Ø50	2	63.8
100.48	67.9	13.54	11.9	83.25	81.9	13.51	12.6	17.42	S07 Ø50	2	63.8
84.85	80.3	12.90	12.5	70.30	96.9	12.32	13.3	20.63	S07 Ø50	2	63.8
73.54	92.5	12.37	13.1	60.93	111.6	11.04	14	23.80	S07 Ø50	2	63.8
62.55	108.4	11.24	13.9	51.83	130.9	9.73	14.7	27.98	S07 Ø50	2	63.8
51.74	130.7	9.71	14.7	42.87	157.7	8.34	15.6	33.83	S07 Ø50	2	63.8
40.44	160.3	6.60	16.2	33.50	193.5	6.59	17.2	43.28	S07 Ø50	2	63.8
34.15	189.1	6.35	17.1	28.29	228.2	5.80	17.5	51.25	S07 Ø50	2	63.8
29.59	217.3	6.01	18.0	24.52	262.3	5.20	18.0	59.13	S07 Ø50	2	63.8
25.17	254.2	5.33	18.0	20.86	306.8	4.58	18.0	69.52	S07 Ø50	2	63.8
20.82	305.2	4.59	18.0	17.25	368.3	3.93	18.0	84.05	S07 Ø50	2	63.8
18.84	313.0	3.47	18.0	15.61	377.8	3.47	18.0	92.89	S07 Ø50	2	63.8
16.07	391.1	3.73	18.0	13.31	472.1	3.17	18.0	108.91	S07 Ø50	2	63.8
13.79	421.1	3.20	18.0	11.42	508.3	2.75	18.0	126.92	S07 Ø50	2	63.8
12.61	492.5	3.05	18.0	10.45	594.4	2.58	18.0	138.77	S07 Ø50	2	63.8
11.73	490.4	2.85	18.0	9.72	591.8	2.43	18.0	149.22	S07 Ø50	2	63.8
10.58	581.7	2.65	18.0	8.76	702.0	2.19	18.0	165.46	S07 Ø50	2	63.8
9.70	585.3	2.47	18.0	8.04	706.4	2.09	18.0	180.40	S07 Ø50	2	63.8
8.17	741.9	2.10	18.0	6.77	895.4	1.75	18.0	214.32	S07 Ø50	2	63.8
7.49	743.4	2.02	18.0	6.20	897.2	1.67	18.0	233.75	S07 Ø50	2	63.8
5.88	926.7	1.62	18.0	4.87	1118.4	1.35	18.0	297.85	S07 Ø50	2	63.8
4.93	1086.1	1.39	18.0	4.08	1310.8	1.18	18.0	355.14	S07 Ø50	2	63.8

PN = 0.75 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
3.80	1369.1	1.13	18.0	-	-	-	-	460.00	S07 Ø50	2	63.8
121.97	56.1	14.05	11.4	101.06	67.7	14.09	12.1	14.35	S07 Ø45	2	63.8
100.48	67.9	13.54	12.1	83.25	81.9	13.51	12.9	17.42	S07 Ø45	2	63.8
84.85	80.3	12.90	12.9	70.30	96.9	12.32	13.6	20.63	S07 Ø45	2	63.8
73.54	92.5	12.37	13.3	60.93	111.6	11.04	14.3	23.80	S07 Ø45	2	63.8
62.55	108.4	11.24	14.1	51.83	130.9	9.73	14.9	27.98	S07 Ø45	2	63.8
51.74	130.7	9.71	14.9	42.87	157.7	8.34	14.9	33.83	S07 Ø45	2	63.8
40.44	160.3	6.60	14.9	33.50	193.5	6.59	14.9	43.28	S07 Ø45	2	63.8
34.15	189.1	6.35	14.9	28.29	228.2	5.80	14.9	51.25	S07 Ø45	2	63.8
29.59	217.3	6.01	14.9	24.52	262.3	5.20	14.9	59.13	S07 Ø45	2	63.8
25.17	254.2	5.33	14.9	20.86	306.8	4.58	14.9	69.52	S07 Ø45	2	63.8
20.82	305.2	4.59	14.9	17.25	368.3	3.93	14.9	84.05	S07 Ø45	2	63.8
18.84	313.0	3.47	14.9	15.61	377.8	3.47	14.9	92.89	S07 Ø45	2	63.8
16.07	391.1	3.73	14.9	13.31	472.1	3.17	14.9	108.91	S07 Ø45	2	63.8
13.79	421.1	3.20	14.9	11.42	508.3	2.75	14.9	126.92	S07 Ø45	2	63.8
12.61	492.5	3.05	14.9	10.45	594.4	2.58	14.9	138.77	S07 Ø45	2	63.8
11.73	490.4	2.85	14.9	9.72	591.8	2.43	14.9	149.22	S07 Ø45	2	63.8
10.58	581.7	2.65	14.9	8.76	702.0	2.19	14.9	165.46	S07 Ø45	2	63.8
9.70	585.3	2.47	14.9	8.04	706.4	2.09	14.9	180.40	S07 Ø45	2	63.8
8.17	741.9	2.10	14.9	6.77	895.4	1.75	14.9	214.32	S07 Ø45	2	63.8
7.49	743.4	2.02	14.9	6.20	897.2	1.67	14.9	233.75	S07 Ø45	2	63.8
5.88	926.7	1.62	14.9	4.87	1118.4	1.35	14.9	297.85	S07 Ø45	2	63.8
4.93	1086.1	1.39	14.9	-	-	-	-	355.14	S07 Ø45	2	63.8

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.80	29.6	2.09	3.0	280.72	35.8	1.88	3.0	5.17	S03	2	19.5
248.58	40.3	1.73	3.0	205.97	48.6	1.55	3.0	7.04	S03	2	19.5
187.17	53.2	1.44	3.0	155.08	64.3	1.29	3.0	9.35	S03	2	19.5
186.34	52.6	1.50	3.0	154.40	63.5	1.35	3.0	9.39	S03	2	19.5
136.72	71.4	1.22	3.0	113.28	86.1	1.08	3.0	12.80	S03	2	19.5
102.94	94.2	1.01	3.0	85.29	113.7	0.87	3.0	17.00	S03	2	19.5
252.78	39.5	2.86	5.2	209.44	47.7	2.52	5.2	6.92	S04	2	21.6
197.30	50.5	2.43	5.2	163.48	60.9	2.15	5.2	8.87	S04	2	21.6
153.51	64.7	2.07	5.2	127.19	78.1	1.84	5.2	11.40	S04	2	21.6
137.88	70.6	1.69	5.2	114.24	85.2	1.50	5.2	12.69	S04	2	21.6
116.67	84.7	1.75	5.2	96.67	102.2	1.56	5.2	15.00	S04	2	21.6
107.62	90.0	1.45	5.2	89.17	108.7	1.30	5.2	16.26	S04	2	21.6
88.18	111.4	1.47	5.2	73.06	134.4	1.34	5.2	19.85	S04	2	21.6
83.73	115.1	1.25	5.2	69.38	138.9	1.12	5.2	20.90	S04	2	21.6
70.40	138.7	1.29	5.2	58.33	167.4	1.11	5.2	24.86	S04	2	21.6
63.64	150.2	1.07	5.2	52.73	181.3	0.95	5.2	27.50	S04	2	21.6
54.38	178.2	1.05	5.2	-	-	-	-	32.18	S04	2	21.6
48.10	196.9	0.92	5.2	39.85	237.6	0.82	5.2	36.38	S04	2	21.6
187.50	52.8	4.21	7.1	155.36	63.7	4.37	7.1	9.33	S05	2	25.7
166.67	59.1	3.93	7.1	138.10	71.4	3.94	7.1	10.50	S05	2	25.7
153.72	64.2	4.10	7.1	127.36	77.5	4.01	7.1	11.38	S05	2	25.7
136.64	72.0	3.80	7.1	113.21	86.9	3.60	7.1	12.81	S05	2	25.7

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
122.71	80.2	3.88	7.1	101.68	96.8	3.64	7.1	14.26	S05	2	25.7
109.08	89.9	3.50	7.1	90.38	108.4	3.06	7.1	16.04	S05	2	25.7
97.22	100.9	3.52	7.1	80.56	121.7	3.06	7.1	18.00	S05	2	25.7
86.42	113.0	2.96	7.1	71.60	136.3	2.57	7.1	20.25	S05	2	25.7
74.47	131.0	2.88	7.1	61.70	158.1	2.47	7.1	23.50	S05	2	25.7
66.19	146.6	2.42	7.1	54.85	176.9	2.08	7.1	26.44	S05	2	25.7
56.88	170.3	2.32	7.1	47.13	205.6	1.98	7.1	30.77	S05	2	25.7
50.56	190.5	1.95	7.1	41.89	230.0	1.66	7.1	34.62	S05	2	25.7
45.71	210.5	1.94	7.1	37.87	254.1	1.64	7.1	38.29	S05	2	25.7
40.63	235.4	1.63	7.1	33.67	284.1	1.38	7.1	43.07	S05	2	25.7
35.39	269.6	1.56	7.1	29.32	325.3	1.32	7.1	49.45	S05	2	25.7
31.45	301.3	1.31	7.1	26.06	363.6	1.11	7.1	55.64	S05	2	25.7
28.23	335.0	1.09	7.1	-	-	-	-	62.00	S05	2	25.7
25.09	374.2	1.08	7.1	-	-	-	-	69.75	S05	2	25.7
19.94	408.9	0.88	7.0	-	-	-	-	87.75	S05	2	25.7
247.69	40.6	7.25	9.8	205.23	49.0	7.42	10.4	7.07	S06 Ø40	2	42.5
196.47	51.1	7.08	10.6	162.79	61.7	7.15	11.2	8.91	S06 Ø40	2	42.5
161.54	62.1	6.81	11.3	133.85	74.9	6.93	12	10.83	S06 Ø40	2	42.5
137.25	73.0	6.65	11.9	113.73	88.1	6.66	12.5	12.75	S06 Ø40	2	42.5
112.59	88.8	6.36	12.5	93.29	107.1	6.35	12.5	15.54	S06 Ø40	2	42.5
92.84	107.4	6.09	12.5	76.92	129.6	5.53	12.5	18.85	S06 Ø40	2	42.5
77.40	123.5	3.40	12.5	64.13	149.1	3.48	12.5	22.61	S06 Ø40	2	42.5
70.62	140.6	5.19	12.5	58.51	169.7	4.33	12.5	24.78	S06 Ø40	2	42.5
63.64	149.7	3.31	12.5	52.73	180.7	3.35	12.5	27.50	S06 Ø40	2	42.5
54.07	175.7	3.23	12.5	44.80	212.0	3.21	12.5	32.37	S06 Ø40	2	42.5
44.35	213.1	3.05	12.5	36.75	257.2	3.07	12.5	39.46	S06 Ø40	2	42.5
36.57	257.1	2.96	12.5	30.30	310.3	2.67	12.5	47.85	S06 Ø40	2	42.5
27.82	334.8	2.53	12.5	23.05	404.1	2.16	12.5	62.91	S06 Ø40	2	42.5
24.78	346.5	1.71	12.5	20.53	418.2	1.69	12.5	70.62	S06 Ø40	2	42.5
21.54	427.8	2.06	12.5	17.85	516.4	1.75	12.5	81.23	S06 Ø40	2	42.5
20.33	418.6	1.62	12.5	16.84	505.2	1.60	12.5	86.09	S06 Ø40	2	42.5
17.68	516.5	1.76	12.5	14.65	623.4	1.48	12.5	99.00	S06 Ø40	2	42.5
16.76	502.4	1.57	12.5	13.89	606.3	1.42	12.5	104.40	S06 Ø40	2	42.5
13.73	656.2	1.42	12.5	11.37	792.0	1.19	12.5	127.50	S06 Ø40	2	42.5
12.75	648.7	1.36	12.5	10.56	783.0	1.16	12.5	137.25	S06 Ø40	2	42.5
10.88	816.6	1.17	12	9.01	985.6	0.98	11.2	160.88	S06 Ø40	2	42.5
9.87	821.2	1.12	12	8.18	991.1	0.95	11.2	177.23	S06 Ø40	2	42.5
8.10	983.5	0.96	11.2	-	-	-	-	216.00	S06 Ø40	2	42.5
247.69	40.6	7.25	9.6	205.23	49.0	7.42	10.1	7.07	S06 Ø35	2	42.5
196.47	51.1	7.08	10.1	162.79	61.7	7.15	10.1	8.91	S06 Ø35	2	42.5
161.54	62.1	6.81	10.1	133.85	74.9	6.93	10.1	10.83	S06 Ø35	2	42.5
137.25	73.0	6.65	10.1	113.73	88.1	6.66	10.1	12.75	S06 Ø35	2	42.5
112.59	88.8	6.36	10.1	93.29	107.1	6.35	10.1	15.54	S06 Ø35	2	42.5
92.84	107.4	6.09	10.1	76.92	129.6	5.53	10.1	18.85	S06 Ø35	2	42.5
77.40	123.5	3.40	10.1	64.13	149.1	3.48	10.1	22.61	S06 Ø35	2	42.5
70.62	140.6	5.19	10.1	58.51	169.7	4.33	10.1	24.78	S06 Ø35	2	42.5
63.64	149.7	3.31	10.1	52.73	180.7	3.35	10.1	27.50	S06 Ø35	2	42.5
54.07	175.7	3.23	10.1	44.80	212.0	3.21	10.1	32.37	S06 Ø35	2	42.5
44.35	213.1	3.05	10.1	36.75	257.2	3.07	10.1	39.46	S06 Ø35	2	42.5

PN = 1.10 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
36.57	257.1	2.96	10.1	30.30	310.3	2.67	10.1	47.85	S06 Ø35	2	42.5
27.82	334.8	2.53	10.1	23.05	404.1	2.16	10.1	62.91	S06 Ø35	2	42.5
24.78	346.5	1.71	10.1	20.53	418.2	1.69	10.1	70.62	S06 Ø35	2	42.5
21.54	427.8	2.06	10.1	17.85	516.4	1.75	10.1	81.23	S06 Ø35	2	42.5
20.33	418.6	1.62	10.1	16.84	505.2	1.60	10.1	86.09	S06 Ø35	2	42.5
17.68	516.5	1.76	10.1	-	-	-	-	99.00	S06 Ø35	2	42.5
16.76	502.4	1.57	10.1	-	-	-	-	104.40	S06 Ø35	2	42.5
121.97	82.2	9.58	11	101.06	99.2	9.61	11.7	14.35	S07 Ø50	2	65.0
100.48	99.6	9.23	11.8	83.25	120.2	9.21	12.5	17.42	S07 Ø50	2	65.0
84.85	117.8	8.80	12.4	70.30	142.1	8.40	13.2	20.63	S07 Ø50	2	65.0
73.54	135.6	8.43	13	60.93	163.7	7.53	13.9	23.80	S07 Ø50	2	65.0
62.55	159.0	7.66	13.8	51.83	192.0	6.63	14.6	27.98	S07 Ø50	2	65.0
51.74	191.7	6.62	14.6	42.87	231.3	5.69	15.5	33.83	S07 Ø50	2	65.0
40.44	235.2	4.50	16.1	33.50	283.8	4.49	17.1	43.28	S07 Ø50	2	65.0
34.15	277.3	4.33	16.8	28.29	334.7	3.95	17.4	51.25	S07 Ø50	2	65.0
29.59	318.7	4.10	17.7	24.52	384.7	3.54	18.0	59.13	S07 Ø50	2	65.0
25.17	372.8	3.64	18.0	20.86	449.9	3.12	18.0	69.52	S07 Ø50	2	65.0
20.82	447.6	3.13	18.0	17.25	540.2	2.68	18.0	84.05	S07 Ø50	2	65.0
18.84	459.1	2.37	18.0	15.61	554.1	2.36	18.0	92.89	S07 Ø50	2	65.0
16.07	573.7	2.54	18.0	13.31	692.4	2.16	18.0	108.91	S07 Ø50	2	65.0
13.79	617.7	2.18	18.0	11.42	745.5	1.87	18.0	126.92	S07 Ø50	2	65.0
12.61	722.4	2.08	18.0	10.45	871.8	1.76	18.0	138.77	S07 Ø50	2	65.0
11.73	719.2	1.94	18.0	9.72	868.0	1.65	18.0	149.22	S07 Ø50	2	65.0
10.58	853.1	1.81	18.0	8.76	1029.6	1.49	18.0	165.46	S07 Ø50	2	65.0
9.70	858.4	1.68	18.0	8.04	1036.0	1.43	18.0	180.40	S07 Ø50	2	65.0
8.17	1088.1	1.43	18.0	6.77	1313.3	1.19	18.0	214.32	S07 Ø50	2	65.0
7.49	1090.3	1.38	18.0	6.20	1315.8	1.14	18.0	233.75	S07 Ø50	2	65.0
5.88	1359.2	1.11	18.0	-	-	-	-	297.85	S07 Ø50	2	65.0
121.97	82.2	9.58	11.3	101.06	99.2	9.61	12.0	14.35	S07 Ø45	2	65.0
100.48	99.6	9.23	12	83.25	120.2	9.21	12.8	17.42	S07 Ø45	2	65.0
84.85	117.8	8.80	12.8	70.30	142.1	8.40	13.5	20.63	S07 Ø45	2	65.0
73.54	135.6	8.43	13.2	60.93	163.7	7.53	14.2	23.80	S07 Ø45	2	65.0
62.55	159.0	7.66	14.0	51.83	192.0	6.63	14.9	27.98	S07 Ø45	2	65.0
51.74	191.7	6.62	14.9	42.87	231.3	5.69	14.9	33.83	S07 Ø45	2	65.0
40.44	235.2	4.50	14.9	33.50	283.8	4.49	14.9	43.28	S07 Ø45	2	65.0
34.15	277.3	4.33	14.9	28.29	334.7	3.95	14.9	51.25	S07 Ø45	2	65.0
29.59	318.7	4.10	14.9	24.52	384.7	3.54	14.9	59.13	S07 Ø45	2	65.0
25.17	372.8	3.64	14.9	20.86	449.9	3.12	14.9	69.52	S07 Ø45	2	65.0
20.82	447.6	3.13	14.9	-	-	-	-	84.05	S07 Ø45	2	65.0
18.84	459.1	2.37	14.9	-	-	-	-	92.89	S07 Ø45	2	65.0

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.80	40.4	1.53	3.0	280.72	48.8	1.38	3.0	5.17	S03	2	22.3
248.58	54.9	1.27	3.0	205.97	66.2	1.14	3.0	7.04	S03	2	22.3
187.17	72.6	1.06	3.0	155.08	87.6	0.94	3.0	9.35	S03	2	22.3
186.34	71.8	1.10	3.0	154.40	86.6	0.99	3.0	9.39	S03	2	22.3
136.72	97.3	0.89	3.0	113.28	117.5	0.79	3.0	12.80	S03	2	22.3
252.78	53.9	2.10	5.2	209.44	65.1	1.85	5.2	6.92	S04	2	24.4
197.30	68.9	1.79	5.2	163.48	83.1	1.58	5.2	8.87	S04	2	24.4
153.51	88.2	1.52	5.2	127.19	106.4	1.35	5.2	11.40	S04	2	24.4
137.88	96.3	1.24	5.2	114.24	116.2	1.10	5.2	12.69	S04	2	24.4
116.67	115.5	1.28	5.2	96.67	139.4	1.14	5.2	15.00	S04	2	24.4
107.62	122.8	1.07	5.2	89.17	148.2	0.95	5.2	16.26	S04	2	24.4
88.18	151.9	1.08	5.2	73.06	183.3	0.98	5.2	19.85	S04	2	24.4
83.73	156.9	0.92	5.2	69.38	189.4	0.82	5.2	20.90	S04	2	24.4
63.64	204.9	0.79	5.2	52.73	247.3	0.70	5.2	27.50	S04	2	24.4
187.50	72.0	3.09	7.1	155.36	86.9	3.20	7.1	9.33	S05	2	28.5
166.67	80.6	2.88	7.1	138.10	97.3	2.89	7.1	10.50	S05	2	28.5
153.72	87.6	3.00	7.1	127.36	105.7	2.94	7.1	11.38	S05	2	28.5
136.64	98.1	2.79	7.1	113.21	118.4	2.64	7.1	12.81	S05	2	28.5
122.71	109.4	2.84	7.1	101.68	132.0	2.67	7.1	14.26	S05	2	28.5
109.08	122.5	2.57	7.1	90.38	147.9	2.24	7.1	16.04	S05	2	28.5
97.22	137.5	2.58	7.1	80.56	166.0	2.24	7.1	18.00	S05	2	28.5
86.42	154.0	2.17	7.1	71.60	185.9	1.88	7.1	20.25	S05	2	28.5
74.47	178.6	2.11	7.1	61.70	215.5	1.81	7.1	23.50	S05	2	28.5
66.19	199.9	1.78	7.1	54.85	241.3	1.52	7.1	26.44	S05	2	28.5
56.88	232.2	1.70	7.1	47.13	280.3	1.45	7.1	30.77	S05	2	28.5
50.56	259.8	1.43	7.1	41.89	313.6	1.22	7.1	34.62	S05	2	28.5
45.71	287.1	1.42	7.1	37.87	346.5	1.21	7.1	38.29	S05	2	28.5
40.63	321.1	1.19	7.1	33.67	387.5	1.01	7.1	43.07	S05	2	28.5
35.39	367.6	1.14	7.1	-	-	-	-	49.45	S05	2	28.5
31.45	410.8	0.96	7.0	-	-	-	-	55.64	S05	2	28.5
247.69	55.4	5.32	9.8	205.23	66.8	5.44	10.4	7.07	S06 Ø40	2	45.3
196.47	69.7	5.19	10.6	162.79	84.2	5.24	11.2	8.91	S06 Ø40	2	45.3
161.54	84.7	4.99	11.3	133.85	102.2	5.08	12	10.83	S06 Ø40	2	45.3
137.25	99.5	4.88	11.9	113.73	120.1	4.89	12.5	12.75	S06 Ø40	2	45.3
112.59	121.1	4.66	12.5	93.29	146.1	4.66	12.5	15.54	S06 Ø40	2	45.3
92.84	146.5	4.47	12.5	76.92	176.8	4.05	12.5	18.85	S06 Ø40	2	45.3
77.40	168.4	2.50	12.5	64.13	203.3	2.55	12.5	22.61	S06 Ø40	2	45.3
70.62	191.7	3.80	12.5	58.51	231.4	3.17	12.5	24.78	S06 Ø40	2	45.3
63.64	204.2	2.43	12.5	52.73	246.4	2.46	12.5	27.50	S06 Ø40	2	45.3
54.07	239.5	2.37	12.5	44.80	289.1	2.36	12.5	32.37	S06 Ø40	2	45.3
44.35	290.6	2.24	12.5	36.75	350.8	2.25	12.5	39.46	S06 Ø40	2	45.3
36.57	350.6	2.17	12.5	30.30	423.1	1.96	12.5	47.85	S06 Ø40	2	45.3
27.82	456.6	1.86	12.5	23.05	551.1	1.58	12.5	62.91	S06 Ø40	2	45.3
24.78	472.5	1.25	12.5	20.53	570.3	1.24	12.5	70.62	S06 Ø40	2	45.3
21.54	583.4	1.51	12.5	17.85	704.1	1.28	12.5	81.23	S06 Ø40	2	45.3
20.33	570.8	1.19	12.5	16.84	688.9	1.17	12.5	86.09	S06 Ø40	2	45.3
17.68	704.3	1.29	12.5	14.65	850.0	1.09	12.1	99.00	S06 Ø40	2	45.3
16.76	685.0	1.15	12.5	13.89	826.8	1.04	12	104.40	S06 Ø40	2	45.3
13.73	894.9	1.04	12.4	11.37	1080.0	0.87	9.2	127.50	S06 Ø40	2	45.3

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
12.75	884.6	1.00	12.4	-	-	-	-	137.25	S06 Ø40	2	45.3
10.88	1113.6	0.85	8.0	-	-	-	-	160.88	S06 Ø40	2	45.3
247.69	55.4	5.32	9.6	205.23	66.8	5.44	10.1	7.07	S06 Ø35	2	45.3
196.47	69.7	5.19	10.1	162.79	84.2	5.24	10.1	8.91	S06 Ø35	2	45.3
161.54	84.7	4.99	10.1	133.85	102.2	5.08	10.1	10.83	S06 Ø35	2	45.3
137.25	99.5	4.88	10.1	113.73	120.1	4.89	10.1	12.75	S06 Ø35	2	45.3
112.59	121.1	4.66	10.1	93.29	146.1	4.66	10.1	15.54	S06 Ø35	2	45.3
92.84	146.5	4.47	10.1	76.92	176.8	4.05	10.1	18.85	S06 Ø35	2	45.3
77.40	168.4	2.50	10.1	64.13	203.3	2.55	10.1	22.61	S06 Ø35	2	45.3
70.62	191.7	3.80	10.1	58.51	231.4	3.17	10.1	24.78	S06 Ø35	2	45.3
63.64	204.2	2.43	10.1	52.73	246.4	2.46	10.1	27.50	S06 Ø35	2	45.3
54.07	239.5	2.37	10.1	44.80	289.1	2.36	10.1	32.37	S06 Ø35	2	45.3
44.35	290.6	2.24	10.1	36.75	350.8	2.25	10.1	39.46	S06 Ø35	2	45.3
36.57	350.6	2.17	10.1	30.30	423.1	1.96	10.1	47.85	S06 Ø35	2	45.3
27.82	456.6	1.86	10.1	-	-	-	-	62.91	S06 Ø35	2	45.3
24.78	472.5	1.25	10.1	-	-	-	-	70.62	S06 Ø35	2	45.3
121.97	112.1	7.02	11	101.06	135.3	7.05	11.7	14.35	S07 Ø50	2	67.8
100.48	135.8	6.77	11.8	83.25	163.9	6.75	12.5	17.42	S07 Ø50	2	67.8
84.85	160.6	6.45	12.4	70.30	193.8	6.16	13.2	20.63	S07 Ø50	2	67.8
73.54	184.9	6.18	13	60.93	223.2	5.52	13.9	23.80	S07 Ø50	2	67.8
62.55	216.9	5.62	13.8	51.83	261.8	4.86	14.6	27.98	S07 Ø50	2	67.8
51.74	261.4	4.86	14.6	42.87	315.5	4.17	15.5	33.83	S07 Ø50	2	67.8
40.44	320.7	3.30	15.8	33.50	387.0	3.29	17.1	43.28	S07 Ø50	2	67.8
34.15	378.2	3.18	16.5	28.29	456.4	2.90	17.4	51.25	S07 Ø50	2	67.8
29.59	434.6	3.01	17.4	24.52	524.6	2.60	18.0	59.13	S07 Ø50	2	67.8
25.17	508.4	2.67	18.0	20.86	613.5	2.29	18.0	69.52	S07 Ø50	2	67.8
20.82	610.4	2.29	18.0	17.25	736.7	1.96	18.0	84.05	S07 Ø50	2	67.8
18.84	626.0	1.74	18.0	15.61	755.5	1.73	18.0	92.89	S07 Ø50	2	67.8
16.07	782.3	1.86	18.0	13.31	944.1	1.59	18.0	108.91	S07 Ø50	2	67.8
13.79	842.3	1.60	18.0	11.42	1016.5	1.37	18.0	126.92	S07 Ø50	2	67.8
12.61	985.1	1.52	18.0	10.45	1188.9	1.29	18.0	138.77	S07 Ø50	2	67.8
11.73	980.7	1.42	18.0	9.72	1183.6	1.21	18.0	149.22	S07 Ø50	2	67.8
10.58	1163.3	1.32	18.0	8.76	1404.0	1.09	18.0	165.46	S07 Ø50	2	67.8
9.70	1170.6	1.23	18.0	8.04	1412.8	1.05	18.0	180.40	S07 Ø50	2	67.8
8.17	1483.8	1.05	18.0	-	-	-	-	214.32	S07 Ø50	2	67.8
7.49	1486.7	1.01	18.0	-	-	-	-	233.75	S07 Ø50	2	67.8
121.97	112.1	7.02	11.3	101.06	135.3	7.05	12.0	14.35	S07 Ø45	2	67.8
100.48	135.8	6.77	12	83.25	163.9	6.75	12.8	17.42	S07 Ø45	2	67.8
84.85	160.6	6.45	12.8	70.30	193.8	6.16	13.5	20.63	S07 Ø45	2	67.8
73.54	184.9	6.18	13.2	60.93	223.2	5.52	14.2	23.80	S07 Ø45	2	67.8
62.55	216.9	5.62	14.0	51.83	261.8	4.86	14.9	27.98	S07 Ø45	2	67.8
51.74	261.4	4.86	14.9	42.87	315.5	4.17	14.9	33.83	S07 Ø45	2	67.8
40.44	320.7	3.30	14.9	33.50	387.0	3.29	14.9	43.28	S07 Ø45	2	67.8
34.15	378.2	3.18	14.9	28.29	456.4	2.90	14.9	51.25	S07 Ø45	2	67.8
29.59	434.6	3.01	14.9	24.52	524.6	2.60	14.9	59.13	S07 Ø45	2	67.8
25.17	508.4	2.67	14.9	20.86	613.5	2.29	14.9	69.52	S07 Ø45	2	67.8
20.82	610.4	2.29	14.9	17.25	736.7	1.96	14.9	84.05	S07 Ø45	2	67.8
18.84	626.0	1.74	14.9	15.61	755.5	1.73	14.9	92.89	S07 Ø45	2	67.8
16.07	782.3	1.86	14.9	13.31	944.1	1.59	14.9	108.91	S07 Ø45	2	67.8

PN = 1.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
13.79	842.3	1.60	14.9	11.42	1016.5	1.37	14.9	126.92	S07 Ø45	2	67.8
12.61	985.1	1.52	14.9	10.45	1188.9	1.29	14.9	138.77	S07 Ø45	2	67.8
11.73	980.7	1.42	14.9	9.72	1183.6	1.21	14.9	149.22	S07 Ø45	2	67.8
10.58	1163.3	1.32	14.9	-	-	-	-	165.46	S07 Ø45	2	67.8
9.70	1170.6	1.23	14.9	-	-	-	-	180.40	S07 Ø45	2	67.8

PN = 2.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
338.80	59.3 (*)	1.04	3.0	-	-	-	-	5.17	S03	2	25.7
248.58	80.5 (*)	0.86	3.0	-	-	-	-	7.04	S03	2	25.7
186.34	105.3 (*)	0.75	3.0	-	-	-	-	9.39	S03	2	25.7
252.78	79.1	1.43	5.2	209.44	95.4	1.26	5.2	6.92	S04	2	27.8
197.30	101.0	1.22	5.2	163.48	121.9	1.08	5.2	8.87	S04	2	27.8
153.51	129.4	1.03	5.2	127.19	156.1	0.92	5.2	11.40	S04	2	27.8
137.88	141.2	0.84	5.2	114.24	170.4	0.75	5.2	12.69	S04	2	27.8
116.67	169.4	0.87	5.2	-	-	-	-	15.00	S04	2	27.8
187.50	105.6	2.11	7.1	155.36	127.4	2.18	7.1	9.33	S05	2	31.9
166.67	118.3	1.96	7.1	138.10	142.8	1.97	7.1	10.50	S05	2	31.9
153.72	128.5	2.05	7.1	127.36	155.1	2.01	7.1	11.38	S05	2	31.9
136.64	143.9	1.90	7.1	113.21	173.7	1.80	7.1	12.81	S05	2	31.9
122.71	160.4	1.94	7.1	101.68	193.6	1.82	7.1	14.26	S05	2	31.9
109.08	179.7	1.75	7.1	90.38	216.9	1.53	7.1	16.04	S05	2	31.9
97.22	201.7	1.76	7.1	80.56	243.5	1.53	7.1	18.00	S05	2	31.9
86.42	225.9	1.48	7.1	71.60	272.6	1.28	7.1	20.25	S05	2	31.9
74.47	261.9	1.44	7.1	61.70	316.1	1.24	7.1	23.50	S05	2	31.9
66.19	293.2	1.21	7.1	54.85	353.8	1.04	7.1	26.44	S05	2	31.9
56.88	340.6	1.16	7.1	47.13	411.1	0.99	7	30.77	S05	2	31.9
50.56	381.1	0.97	7.1	41.89	459.9	0.83	6.2	34.62	S05	2	31.9
45.71	421.1	0.97	6.9	-	-	-	-	38.29	S05	2	31.9
247.69	81.2	3.62	9.8	205.23	98.0	3.71	10.4	7.07	S06 Ø40	2	48.7
196.47	102.3	3.54	10.6	162.79	123.4	3.58	11.2	8.91	S06 Ø40	2	48.7
161.54	124.2	3.40	11.3	133.85	149.9	3.46	12	10.83	S06 Ø40	2	48.7
137.25	146.0	3.32	11.9	113.73	176.2	3.33	12.5	12.75	S06 Ø40	2	48.7
112.59	177.6	3.18	12.5	93.29	214.3	3.18	12.5	15.54	S06 Ø40	2	48.7
92.84	214.8	3.05	12.5	76.92	259.3	2.76	12.5	18.85	S06 Ø40	2	48.7
77.40	247.1	1.70	12.5	64.13	298.2	1.74	12.5	22.61	S06 Ø40	2	48.7
70.62	281.2	2.59	12.5	58.51	339.4	2.16	12.5	24.78	S06 Ø40	2	48.7
63.64	299.5	1.65	12.5	52.73	361.4	1.67	12.5	27.50	S06 Ø40	2	48.7
54.07	351.3	1.61	12.5	44.80	424.0	1.61	12.5	32.37	S06 Ø40	2	48.7
44.35	426.3	1.53	12.5	36.75	514.5	1.54	12.5	39.46	S06 Ø40	2	48.7
36.57	514.2	1.48	12.5	30.30	620.5	1.34	12.5	47.85	S06 Ø40	2	48.7
27.82	669.7	1.26	12.5	23.05	808.2	1.08	12.3	62.91	S06 Ø40	2	48.7
24.78	693.1 (*)	0.85	12.5	20.53	836.5 (*)	0.84	12.1	70.62	S06 Ø40	2	48.7
21.54	855.7	1.03	12.1	17.85	1032.7	0.88	10.3	81.23	S06 Ø40	2	48.7
20.33	837.2 (*)	0.81	12.1	16.84	1010.4 (*)	0.80	10.3	86.09	S06 Ø40	2	48.7
17.68	1033.0	0.88	10.3	-	-	-	-	99.00	S06 Ø40	2	48.7
16.76	1004.7 (*)	0.78	10.3	-	-	-	-	104.40	S06 Ø40	2	48.7
13.73	1312.5	0.71	-	-	-	-	-	127.50	S06 Ø40	2	48.7
247.69	81.2	3.62	9.6	205.23	98.0	3.71	10.1	7.07	S06 Ø35	2	48.7

PN = 2.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
196.47	102.3	3.54	10.1	162.79	123.4	3.58	10.1	8.91	S06 Ø35	2	48.7
161.54	124.2	3.40	10.1	133.85	149.9	3.46	10.1	10.83	S06 Ø35	2	48.7
137.25	146.0	3.32	10.1	113.73	176.2	3.33	10.1	12.75	S06 Ø35	2	48.7
112.59	177.6	3.18	10.1	93.29	214.3	3.18	10.1	15.54	S06 Ø35	2	48.7
92.84	214.8	3.05	10.1	76.92	259.3	2.76	10.1	18.85	S06 Ø35	2	48.7
77.40	247.1	1.70	10.1	64.13	298.2	1.74	10.1	22.61	S06 Ø35	2	48.7
70.62	281.2	2.59	10.1	58.51	339.4	2.16	10.1	24.78	S06 Ø35	2	48.7
63.64	299.5	1.65	10.1	52.73	361.4	1.67	10.1	27.50	S06 Ø35	2	48.7
54.07	351.3	1.61	10.1	44.80	424.0	1.61	10.1	32.37	S06 Ø35	2	48.7
44.35	426.3	1.53	10.1	36.75	514.5	1.54	10.1	39.46	S06 Ø35	2	48.7
36.57	514.2	1.48	10.1	-	-	-	-	47.85	S06 Ø35	2	48.7
-	-	-	-	149.72	134.4	5.16	10.5	9.68	S07 Ø50	2	71.2
-	-	-	-	123.51	162.7	4.99	11.2	11.74	S07 Ø50	2	71.2
121.97	164.5	4.79	10.9	101.06	198.5	4.81	11.6	14.35	S07 Ø50	2	71.2
-	-	-	-	86.34	232.0	4.57	12.1	16.79	S07 Ø50	2	71.2
100.48	199.1	4.62	11.7	83.25	240.3	4.61	12.4	17.42	S07 Ø50	2	71.2
84.85	235.5	4.40	12.3	70.30	284.2	4.20	13.1	20.63	S07 Ø50	2	71.2
73.54	271.2	4.22	12.9	60.93	327.3	3.77	13.8	23.80	S07 Ø50	2	71.2
62.55	318.1	3.83	13.7	51.83	383.9	3.32	14.5	27.98	S07 Ø50	2	71.2
51.74	383.4	3.31	14.5	42.87	462.7	2.84	15.4	33.83	S07 Ø50	2	71.2
-	-	-	-	34.75	547.8	2.29	16.8	41.73	S07 Ø50	2	71.2
40.44	470.3	2.25	15.7	33.50	567.6	2.24	17	43.28	S07 Ø50	2	71.2
34.15	554.7	2.17	16.4	28.29	669.4	1.98	17.3	51.25	S07 Ø50	2	71.2
29.59	637.5	2.05	17.3	24.52	769.4	1.77	18.0	59.13	S07 Ø50	2	71.2
25.17	745.6	1.82	18.0	20.86	899.9	1.56	18.0	69.52	S07 Ø50	2	71.2
20.82	895.3	1.56	18.0	17.25	1080.5	1.34	18.0	84.05	S07 Ø50	2	71.2
18.84	918.1	1.18	18.0	15.61	1108.1	1.18	18.0	92.89	S07 Ø50	2	71.2
16.07	1147.3	1.27	18.0	13.31	1384.7	1.08	18.0	108.91	S07 Ø50	2	71.2
13.79	1235.3	1.09	18.0	11.42	1490.9	0.94	18.0	126.92	S07 Ø50	2	71.2
12.61	1444.8	1.04	18.0	-	-	-	-	138.77	S07 Ø50	2	71.2
11.73	1438.4	0.97	18.0	-	-	-	-	149.22	S07 Ø50	2	71.2
-	-	-	-	149.72	134.4	5.16	10.7	9.68	S07 Ø45	2	71.2
-	-	-	-	123.51	162.7	4.99	11.3	11.74	S07 Ø45	2	71.2
121.97	164.5	4.79	11.2	101.06	198.5	4.81	11.9	14.35	S07 Ø45	2	71.2
-	-	-	-	86.34	232.0	4.57	12.3	16.79	S07 Ø45	2	71.2
100.48	199.1	4.62	11.9	83.25	240.3	4.61	12.7	17.42	S07 Ø45	2	71.2
84.85	235.5	4.40	12.7	70.30	284.2	4.20	13.4	20.63	S07 Ø45	2	71.2
73.54	271.2	4.22	13.1	60.93	327.3	3.77	14.1	23.80	S07 Ø45	2	71.2
62.55	318.1	3.83	13.9	51.83	383.9	3.32	14.8	27.98	S07 Ø45	2	71.2
51.74	383.4	3.31	14.8	42.87	462.7	2.84	14.9	33.83	S07 Ø45	2	71.2
-	-	-	-	34.75	547.8	2.29	14.9	41.73	S07 Ø45	2	71.2
40.44	470.3	2.25	14.9	33.50	567.6	2.24	14.9	43.28	S07 Ø45	2	71.2
34.15	554.7	2.17	14.9	28.29	669.4	1.98	14.9	51.25	S07 Ø45	2	71.2
29.59	637.5	2.05	14.9	24.52	769.4	1.77	14.9	59.13	S07 Ø45	2	71.2
25.17	745.6	1.82	14.9	20.86	899.9	1.56	14.9	69.52	S07 Ø45	2	71.2
20.82	895.3	1.56	14.9	17.25	1080.5	1.34	14.9	84.05	S07 Ø45	2	71.2
18.84	918.1	1.18	14.9	15.61	1108.1	1.18	14.9	92.89	S07 Ø45	2	71.2
16.07	1147.3	1.27	14.9	-	-	-	-	108.91	S07 Ø45	2	71.2
13.79	1235.3	1.09	14.9	-	-	-	-	126.92	S07 Ø45	2	71.2

Note: (**) Upon request.

PN = 3.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
252.78	107.8 (*)	1.05	5.2	209.44	130.1	0.92	5.2	6.92	S04	2	37.6
197.30	137.7 (*)	0.89	5.2	163.48	166.2	0.79	5.2	8.87	S04	2	37.6
187.50	143.9	1.54	7.1	155.36	173.7	1.60	7.1	9.33	S05	2	41.7
166.67	161.3	1.44	7.1	138.10	194.7	1.45	7.1	10.50	S05	2	41.7
153.72	175.2	1.50	7.1	127.36	211.4	1.47	7.1	11.38	S05	2	41.7
136.64	196.3	1.39	7.1	113.21	236.9	1.32	7.1	12.81	S05	2	41.7
122.71	218.8	1.42	7.1	101.68	264.1	1.34	7.1	14.26	S05	2	41.7
109.08	245.1	1.28	7.1	90.38	295.8	1.12	7.1	16.04	S05	2	41.7
97.22	275.1	1.29	7.1	80.56	332.0	1.12	7.1	18.00	S05	2	41.7
86.42	308.0	1.09	7.1	71.60	371.8	0.94	7.1	20.25	S05	2	41.7
74.47	357.2	1.06	7.1	61.70	431.1	0.91	6.8	23.50	S05	2	41.7
66.19	399.8	0.89	7.1	54.85	482.5	0.76	5	26.44	S05	2	41.7
247.69	110.8	2.66	9.8	205.23	133.7	2.72	10.4	7.07	S06 Ø40	2	58.5
196.47	139.5	2.59	10.6	162.79	168.3	2.62	11.2	8.91	S06 Ø40	2	58.5
161.54	169.4	2.50	11.3	133.85	204.4	2.54	12	10.83	S06 Ø40	2	58.5
137.25	199.0	2.44	11.9	113.73	240.2	2.44	12.5	12.75	S06 Ø40	2	58.5
112.59	242.1	2.33	12.5	93.29	292.2	2.33	12.5	15.54	S06 Ø40	2	58.5
92.84	292.9	2.23	12.5	76.92	353.5	2.03	12.5	18.85	S06 Ø40	2	58.5
77.40	336.9	1.25	12.5	64.13	406.6	1.28	12.5	22.61	S06 Ø40	2	58.5
70.62	383.4	1.90	12.5	58.51	462.8	1.59	12.5	24.78	S06 Ø40	2	58.5
63.64	408.4	1.21	12.5	52.73	492.9	1.23	12.5	27.50	S06 Ø40	2	58.5
54.07	479.1	1.18	12.5	44.80	578.2	1.18	12.5	32.37	S06 Ø40	2	58.5
44.35	581.3	1.12	12.5	36.75	701.6	1.13	12.5	39.46	S06 Ø40	2	58.5
36.57	701.1	1.08	12.5	30.30	846.2	0.98	12.1	47.85	S06 Ø40	2	58.5
27.82	913.2	0.93	11.6	23.05	1102.1	0.79	9.5	62.91	S06 Ø40	2	58.5
247.69	110.8	2.66	9.6	205.23	133.7	2.72	10.1	7.07	S06 Ø35	2	58.5
196.47	139.5	2.59	10.1	162.79	168.3	2.62	10.1	8.91	S06 Ø35	2	58.5
161.54	169.4	2.50	10.1	133.85	204.4	2.54	10.1	10.83	S06 Ø35	2	58.5
137.25	199.0	2.44	10.1	113.73	240.2	2.44	10.1	12.75	S06 Ø35	2	58.5
112.59	242.1	2.33	10.1	93.29	292.2	2.33	10.1	15.54	S06 Ø35	2	58.5
92.84	292.9	2.23	10.1	76.92	353.5	2.03	10.1	18.85	S06 Ø35	2	58.5
77.40	336.9	1.25	10.1	64.13	406.6	1.28	10.1	22.61	S06 Ø35	2	58.5
70.62	383.4	1.90	10.1	58.51	462.8	1.59	10.1	24.78	S06 Ø35	2	58.5
63.64	408.4	1.21	10.1	52.73	492.9	1.23	10.1	27.50	S06 Ø35	2	58.5
54.07	479.1	1.18	10.1	-	-	-	-	32.37	S06 Ø35	2	58.5
180.70	151.8	3.67	9.7	149.72	183.2	3.79	10.4	9.68	S07 Ø50	2	81
149.06	183.8	3.65	10.3	123.51	221.8	3.66	11.1	11.74	S07 Ø50	2	81
121.97	224.3	3.51	10.8	101.06	270.7	3.52	11.5	14.35	S07 Ø50	2	81
104.20	262.1	3.39	11.2	86.34	316.3	3.35	12	16.79	S07 Ø50	2	81
100.48	271.6	3.39	11.6	83.25	327.7	3.38	12.3	17.42	S07 Ø50	2	81
84.85	321.1	3.23	12.2	70.30	387.6	3.08	13	20.63	S07 Ø50	2	81
73.54	369.9	3.09	12.8	60.93	446.4	2.76	13.7	23.80	S07 Ø50	2	81
62.55	433.8	2.81	13.6	51.83	523.5	2.43	14.4	27.98	S07 Ø50	2	81
51.74	522.8	2.43	14.4	42.87	630.9	2.08	15.3	33.83	S07 Ø50	2	81
41.93	618.9	1.65	15.6	34.75	747.0	1.68	16.9	41.73	S07 Ø50	2	81
40.44	641.4	1.65	15.7	33.50	774.0	1.65	17.2	43.28	S07 Ø50	2	81
34.15	756.4	1.59	16.4	28.29	912.9	1.45	17.3	51.25	S07 Ø50	2	81
29.59	869.3	1.50	17.3	24.52	1049.1	1.30	18.0	59.13	S07 Ø50	2	81
25.17	1016.7	1.33	18.0	20.86	1227.1	1.15	18.0	69.52	S07 Ø50	2	81

PN = 3.00 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
20.82	1220.8	1.15	18.0	17.25	1473.4	0.98	18.0	84.05	S07 Ø50	2	81
18.84	1252.0 (*)	0.87	18.0	15.61	1511.0 (*)	0.87	18.0	92.89	S07 Ø50	2	81
16.07	1564.5	0.93	18.0	-	-	-	-	108.91	S07 Ø50	2	81
180.70	151.8	3.67	9.9	149.72	183.2	3.79	10.6	9.68	S07 Ø45	2	81
149.06	183.8	3.65	10.5	123.51	221.8	3.66	11.2	11.74	S07 Ø45	2	81
121.97	224.3	3.51	11.1	101.06	270.7	3.52	11.8	14.35	S07 Ø45	2	81
104.20	262.1	3.39	11.8	86.34	316.3	3.35	12.2	16.79	S07 Ø45	2	81
100.48	271.6	3.39	11.8	83.25	327.7	3.38	12.6	17.42	S07 Ø45	2	81
84.85	321.1	3.23	12.6	70.30	387.6	3.08	13.3	20.63	S07 Ø45	2	81
73.54	369.9	3.09	13	60.93	446.4	2.76	14.0	23.80	S07 Ø45	2	81
62.55	433.8	2.81	13.8	51.83	523.5	2.43	14.6	27.98	S07 Ø45	2	81
51.74	522.8	2.43	14.7	42.87	630.9	2.08	14.9	33.83	S07 Ø45	2	81
41.93	618.9	1.65	14.9	34.75	747.0	1.68	14.9	41.73	S07 Ø45	2	81
40.44	641.4	1.65	14.9	33.50	774.0	1.65	14.9	43.28	S07 Ø45	2	81
34.15	756.4	1.59	14.9	28.29	912.9	1.45	14.9	51.25	S07 Ø45	2	81
29.59	869.3	1.50	14.9	24.52	1049.1	1.30	14.9	59.13	S07 Ø45	2	81
25.17	1016.7	1.33	14.9	20.86	1227.1	1.15	14.9	69.52	S07 Ø45	2	81
20.82	1220.8	1.15	14.9	-	-	-	-	84.05	S07 Ø45	2	81
18.84	1252.0 (*)	0.87	14.9	-	-	-	-	92.89	S07 Ø45	2	81

Note: (**) Upon request.

PN = 3.70 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
252.78	133.0 (*)	0.85	5.2	-	-	-	-	6.92	S04	2	38.6
197.30	169.8 (*)	0.72	5.2	-	-	-	-	8.87	S04	2	38.6
187.50	177.5 (*)	1.25	7.1	-	-	-	-	9.33	S05	2	42.7
166.67	198.9 (*)	1.17	7.1	-	-	-	-	10.50	S05	2	42.7
153.72	216.1 (*)	1.22	7.1	-	-	-	-	11.38	S05	2	42.7
136.64	242.1 (*)	1.13	7.1	-	-	-	-	12.81	S05	2	42.7
122.71	269.8 (*)	1.15	7.1	-	-	-	-	14.26	S05	2	42.7
109.08	302.2 (*)	1.04	7.1	-	-	-	-	16.04	S05	2	42.7
97.22	339.3 (*)	1.05	7.1	-	-	-	-	18.00	S05	2	42.7
86.42	379.9 (*)	0.88	7.1	-	-	-	-	20.25	S05	2	42.7
74.47	440.5 (*)	0.86	6.7	-	-	-	-	23.50	S05	2	42.7
66.19	493.1 (*)	0.72	4.0	-	-	-	-	26.44	S05	2	42.7
247.69	136.6	2.16	9.7	205.23	164.9	2.21	10.4	7.07	S06 Ø40	2	59.5
196.47	172.0	2.10	10.5	162.79	207.6	2.13	11.2	8.91	S06 Ø40	2	59.5
161.54	208.9	2.02	11.2	133.85	252.1	2.06	12	10.83	S06 Ø40	2	59.5
137.25	245.5	1.98	11.8	113.73	296.3	1.98	12.5	12.75	S06 Ø40	2	59.5
112.59	298.6	1.89	12.5	93.29	360.4	1.89	12.5	15.54	S06 Ø40	2	59.5
92.84	361.3	1.81	12.5	76.92	436.0	1.64	12.5	18.85	S06 Ø40	2	59.5
77.40	415.5	1.01	12.5	64.13	501.5	1.04	12.5	22.61	S06 Ø40	2	59.5
70.62	472.9	1.54	12.5	58.51	570.7	1.29	12.5	24.78	S06 Ø40	2	59.5
63.64	503.7 (*)	0.98	12.5	52.73	607.9	1.00	12.5	27.50	S06 Ø40	2	59.5
54.07	590.8 (*)	0.96	12.5	44.80	713.1 (*)	0.96	12.5	32.37	S06 Ø40	2	59.5
44.35	716.9 (*)	0.91	12.5	36.75	856.3 (*)	0.92	12.1	39.46	S06 Ø40	2	59.5
36.57	864.7 (*)	0.88	12.1	30.30	1043.6 (*)	0.79	10	47.85	S06 Ø40	2	59.5
247.69	136.6	2.16	9.6	205.23	164.9	2.21	10.1	7.07	S06 Ø35	2	59.5

PN = 3.70 kW											
60 Hz	n1=1750			50 Hz	n1=1450			Iex	Size	Stages	Kg
n2 rpm	M2 Nm	fs	Fr kN	n2 rpm	M2 Nm	fs	Fr kN				
196.47	172.0	2.10	10.1	162.79	207.6	2.13	10.1	8.91	S06 Ø35	2	59.5
161.54	208.9	2.02	10.1	133.85	252.1	2.06	10.1	10.83	S06 Ø35	2	59.5
137.25	245.5	1.98	10.1	113.73	296.3	1.98	10.1	12.75	S06 Ø35	2	59.5
112.59	298.6	1.89	10.1	93.29	360.4	1.89	10.1	15.54	S06 Ø35	2	59.5
92.84	361.3	1.81	10.1	76.92	436.0	1.64	10.1	18.85	S06 Ø35	2	59.5
77.40	415.5	1.01	10.1	64.13	501.5	1.04	10.1	22.61	S06 Ø35	2	59.5
70.62	472.9	1.54	10.1	-	-	-	-	24.78	S06 Ø35	2	59.5
63.64	503.7 (*)	0.98	10.1	-	-	-	-	27.50	S06 Ø35	2	59.5
180.70	187.2	2.97	9.7	149.72	226.0	3.07	10.4	9.68	S07 Ø50	2	82
149.06	226.7	2.96	10.3	123.51	273.6	2.97	11.1	11.74	S07 Ø50	2	82
121.97	276.6	2.85	10.8	101.06	333.8	2.86	11.5	14.35	S07 Ø50	2	82
104.20	323.3	2.75	11.2	86.34	390.2	2.72	12	16.79	S07 Ø50	2	82
100.48	334.9	2.74	11.6	83.25	404.2	2.74	12.3	17.42	S07 Ø50	2	82
84.85	396.1	2.61	12.2	70.30	478.0	2.50	13	20.63	S07 Ø50	2	82
73.54	456.2	2.51	12.8	60.93	550.5	2.24	13.7	23.80	S07 Ø50	2	82
62.55	535.0	2.28	13.6	51.83	645.7	1.97	14.4	27.98	S07 Ø50	2	82
51.74	644.7	1.97	14.4	42.87	778.1	1.69	15.3	33.83	S07 Ø50	2	82
41.93	763.3	1.34	15.6	34.75	921.3	1.36	16.9	41.73	S07 Ø50	2	82
40.44	791.0	1.34	15.7	33.50	954.7	1.33	17.2	43.28	S07 Ø50	2	82
34.15	932.9	1.29	16.4	28.29	1125.9	1.18	17.3	51.25	S07 Ø50	2	82
29.59	1072.1	1.22	17.3	24.52	1293.9	1.05	17.9	59.13	S07 Ø50	2	82
25.17	1254.0	1.08	17.9	20.86	1513.4	0.93	18	69.52	S07 Ø50	2	82
20.82	1505.7	0.93	18	-	-	-	-	84.05	S07 Ø50	2	82
180.70	187.2	2.97	9.9	149.72	226.0	3.07	10.6	9.68	S07 Ø45	2	82
149.06	226.7	2.96	10.5	123.51	273.6	2.97	11.2	11.74	S07 Ø45	2	82
121.97	276.6	2.85	11.1	101.06	333.8	2.86	11.8	14.35	S07 Ø45	2	82
104.20	323.3	2.75	11.7	86.34	390.2	2.72	12.2	16.79	S07 Ø45	2	82
100.48	334.9	2.74	11.8	83.25	404.2	2.74	12.6	17.42	S07 Ø45	2	82
84.85	396.1	2.61	12.6	70.30	478.0	2.50	13.3	20.63	S07 Ø45	2	82
73.54	456.2	2.51	13	60.93	550.5	2.24	14.0	23.80	S07 Ø45	2	82
62.55	535.0	2.28	13.6	51.83	645.7	1.97	14.3	27.98	S07 Ø45	2	82
51.74	644.7	1.97	14.5	42.87	778.1	1.69	14.9	33.83	S07 Ø45	2	82
41.93	763.3	1.34	14.9	34.75	921.3	1.36	14.9	41.73	S07 Ø45	2	82
40.44	791.0	1.34	14.9	33.50	954.7	1.33	14.9	43.28	S07 Ø45	2	82
34.15	932.9	1.29	14.9	28.29	1125.9	1.18	14.9	51.25	S07 Ø45	2	82
29.59	1072.1	1.22	14.9	-	-	-	-	59.13	S07 Ø45	2	82
25.17	1254.0	1.08	14.9	-	-	-	-	69.52	S07 Ø45	2	82

Note: (**) Upon request.

PN = 4.50 kW

PN = 4.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
247.69	166.2	1.77	9.7	205.23	200.5	1.81	10.4	7.07	S06 Ø40	2	64.5
196.47	209.2	1.73	10.5	162.79	252.5	1.75	11.2	8.91	S06 Ø40	2	64.5
161.54	254.0	1.66	11.2	133.85	306.6	1.69	12	10.83	S06 Ø40	2	64.5
137.25	298.5	1.63	11.8	113.73	360.3	1.63	12.5	12.75	S06 Ø40	2	64.5
112.59	363.2	1.55	12.5	93.29	438.3	1.55	12.5	15.54	S06 Ø40	2	64.5
92.84	439.4	1.49	12.5	76.92	530.3	1.35	12.5	18.85	S06 Ø40	2	64.5
77.40	505.3 (*)	0.83	12.5	64.13	609.9 (*)	0.85	12.5	22.61	S06 Ø40	2	64.5
70.62	575.2	1.27	12.5	58.51	694.1	1.06	12.5	24.78	S06 Ø40	2	64.5
63.64	612.6 (*)	0.81	12.5	52.73	739.3 (*)	0.82	12.5	27.50	S06 Ø40	2	64.5
54.07	718.6 (*)	0.79	12.5	44.80	867.3 (*)	0.79	11.9	32.37	S06 Ø40	2	64.5
44.35	871.9 (*)	0.75	11.9	36.75	1052.4 (*)	0.75	10	39.46	S06 Ø40	2	64.5
247.69	166.2	1.77	9.6	205.23	200.5	1.81	10.1	7.07	S06 Ø35	2	64.5
196.47	209.2	1.73	10.1	162.79	252.5	1.75	10.1	8.91	S06 Ø35	2	64.5
161.54	254.0	1.66	10.1	133.85	306.6	1.69	10.1	10.83	S06 Ø35	2	64.5
137.25	298.5	1.63	10.1	113.73	360.3	1.63	10.1	12.75	S06 Ø35	2	64.5
112.59	363.2	1.55	10.1	93.29	438.3	1.55	10.1	15.54	S06 Ø35	2	64.5
92.84	439.4	1.49	10.1	-	-	-	10.1	18.85	S06 Ø35	2	64.5
77.40	505.3 (*)	0.83	10.1	-	-	-	10.1	22.61	S06 Ø35	2	64.5
180.70	227.7	2.45	9.6	149.72	274.8	2.52	10.3	9.68	S07 Ø50	2	87.0
149.06	275.7	2.43	10.2	123.51	332.7	2.44	11	11.74	S07 Ø50	2	87.0
121.97	336.4	2.34	10.7	101.06	406.0	2.35	11.4	14.35	S07 Ø50	2	87.0
104.20	393.2	2.26	11.1	86.34	474.5	2.24	11.9	16.79	S07 Ø50	2	87.0
100.48	407.3	2.26	11.5	83.25	491.6	2.25	12.2	17.42	S07 Ø50	2	87.0
84.85	481.7	2.15	12.1	70.30	581.4	2.05	12.9	20.63	S07 Ø50	2	87.0
73.54	554.8	2.06	12.6	60.93	669.6	1.84	13.5	23.80	S07 Ø50	2	87.0
62.55	650.7	1.87	13.3	51.83	785.3	1.62	14.4	27.98	S07 Ø50	2	87.0
51.74	784.1	1.62	14.1	42.87	946.4	1.39	15	33.83	S07 Ø50	2	87.0
41.93	928.4	1.10	15.5	34.75	1120.5	1.12	16.7	41.73	S07 Ø50	2	87.0
40.44	962.0	1.10	15.6	33.50	1161.1	1.10	17	43.28	S07 Ø50	2	87.0
34.15	1134.6	1.06	16.3	28.29	1369.3	0.97	17.2	51.25	S07 Ø50	2	87.0
29.59	1303.9	1.00	17.2	24.52	1573.7	0.87	17.8	59.13	S07 Ø50	2	87.0
25.17	1525.1	0.89	17.8	-	-	-	-	69.52	S07 Ø50	2	87.0
180.70	227.7	2.45	9.8	149.72	274.8	2.52	10.5	9.68	S07 Ø45	2	87.0
149.06	275.7	2.43	10.4	123.51	332.7	2.44	11.1	11.74	S07 Ø45	2	87.0
121.97	336.4	2.34	11.0	101.06	406.0	2.35	11.7	14.35	S07 Ø45	2	87.0
104.20	393.2	2.26	11.6	86.34	474.5	2.24	12.1	16.79	S07 Ø45	2	87.0
100.48	407.3	2.26	11.7	83.25	491.6	2.25	12.5	17.42	S07 Ø45	2	87.0
84.85	481.7	2.15	12.5	70.30	581.4	2.05	12.9	20.63	S07 Ø45	2	87.0
73.54	554.8	2.06	12.9	60.93	669.6	1.84	13.5	23.80	S07 Ø45	2	87.0
62.55	650.7	1.87	13.5	51.83	785.3	1.62	14.3	27.98	S07 Ø45	2	87.0
51.74	784.1	1.62	14.3	42.87	946.4	1.39	14.8	33.83	S07 Ø45	2	87.0
41.93	928.4	1.10	14.9	34.75	1120.5	1.12	14.9	41.73	S07 Ø45	2	87.0
40.44	962.0	1.10	14.9	33.50	1161.1	1.10	14.9	43.28	S07 Ø45	2	87.0
34.15	1134.6	1.06	14.9	-	-	-	-	51.25	S07 Ø45	2	87.0

Note: (**) Upon request.

PN = 5.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
247.69	203.1	1.45	9.7	205.23	245.1	1.48	10.4	7.07	S06 Ø40	2	68.5
196.47	255.7	1.42	10.5	162.79	308.6	1.43	11.2	8.91	S06 Ø40	2	68.5
161.54	310.5	1.36	11.2	133.85	374.7	1.39	12	10.83	S06 Ø40	2	68.5
137.25	364.9	1.33	11.8	113.73	440.4	1.33	12.5	12.75	S06 Ø40	2	68.5
112.59	443.9	1.27	12.5	93.29	535.7	1.27	12.5	15.54	S06 Ø40	2	68.5
92.84	537.0	1.22	12.5	76.92	648.1	1.11	12.5	18.85	S06 Ø40	2	68.5
70.62	703.0	1.04	12.5	-	-	-	-	24.78	S06 Ø40	2	68.5
247.69	203.1	1.45	9.6	205.23	245.1	1.48	10.1	7.07	S06 Ø35	2	68.5
196.47	255.7	1.42	10.1	162.79	308.6	1.43	10.1	8.91	S06 Ø35	2	68.5
161.54	310.5	1.36	10.1	133.85	374.7	1.39	10.1	10.83	S06 Ø35	2	68.5
137.25	364.9	1.33	10.1	113.73	440.4	1.33	10.1	12.75	S06 Ø35	2	68.5
112.59	443.9	1.27	10.1	-	-	-	-	15.54	S06 Ø35	2	68.5
180.70	278.3	2.00	9.5	149.72	335.9	2.06	10.1	9.68	S07 Ø50	2	91.0
149.06	336.9	1.99	10.1	123.51	406.7	2.00	10.6	11.74	S07 Ø50	2	91.0
121.97	411.1	1.92	10.6	101.06	496.2	1.92	11	14.35	S07 Ø50	2	91.0
104.20	480.5	1.85	11	86.34	580.0	1.83	11.1	16.79	S07 Ø50	2	91.0
100.48	497.9	1.85	11.1	83.25	600.9	1.84	12	17.42	S07 Ø50	2	91.0
84.85	588.8	1.76	12	70.30	710.6	1.68	12.5	20.63	S07 Ø50	2	91.0
73.54	678.1	1.69	12.5	60.93	818.4	1.51	13.2	23.80	S07 Ø50	2	91.0
62.55	795.2	1.53	13.2	51.83	959.8	1.33	14	27.98	S07 Ø50	2	91.0
51.74	958.4	1.32	14	42.87	1156.7	1.14	15.4	33.83	S07 Ø50	2	91.0
41.93	1134.7 (*)	0.90	15.4	34.75	1369.5 (*)	0.92	15.5	41.73	S07 Ø50	2	91.0
40.44	1175.8 (*)	0.90	15.5	33.50	1419.1 (*)	0.90	16.2	43.28	S07 Ø50	2	91.0
180.70	278.3	2.00	9.7	149.72	335.9	2.06	10.3	9.68	S07 Ø45	2	91.0
149.06	336.9	1.99	10.3	123.51	406.7	2.00	10.9	11.74	S07 Ø45	2	91.0
121.97	411.1	1.92	10.9	101.06	496.2	1.92	11.5	14.35	S07 Ø45	2	91.0
104.20	480.5	1.85	11.5	86.34	580.0	1.83	11.6	16.79	S07 Ø45	2	91.0
100.48	497.9	1.85	11.6	83.25	600.9	1.84	12.3	17.42	S07 Ø45	2	91.0
84.85	588.8	1.76	12.3	70.30	710.6	1.68	12.7	20.63	S07 Ø45	2	91.0
73.54	678.1	1.69	12.7	60.93	818.4	1.51	13.3	23.80	S07 Ø45	2	91.0
62.55	795.2	1.53	13.3	51.83	959.8	1.33	14.1	27.98	S07 Ø45	2	91.0
51.74	958.4	1.32	14.1	42.87	1156.7	1.14	14.7	33.83	S07 Ø45	2	91.0
41.93	1134.7 (*)	0.90	14.9	-	-	-	-	41.73	S07 Ø45	2	91.0
40.44	1175.8 (*)	0.90	14.9	-	-	-	-	43.28	S07 Ø45	2	91.0

Note: (**) Upon request.

PN = 7.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
247.69	276.9 (*)	1.06	9.7	205.23	334.2	1.09	10.4	7.07	S06 Ø40	2	87.5
196.47	348.7 (*)	1.04	10.5	162.79	420.8	1.05	11.2	8.91	S06 Ø40	2	87.5
161.54	423.4 (*)	1.00	11.2	133.85	511.0	1.02	12	10.83	S06 Ø40	2	87.5
137.25	497.6 (*)	0.98	11.8	113.73	600.5 (*)	0.98	12.5	12.75	S06 Ø40	2	87.5
112.59	605.3 (*)	0.93	12.5	93.29	730.6 (*)	0.93	12.5	15.54	S06 Ø40	2	87.5
92.84	732.3 (*)	0.89	12.5	-	-	-	-	18.85	S06 Ø40	2	87.5
247.69	276.9 (*)	1.06	9.6	205.23	334.2	1.09	10.1	7.07	S06 Ø35	2	87.5
196.47	348.7 (*)	1.04	10.1	162.79	420.8	1.05	10.1	8.91	S06 Ø35	2	87.5
161.54	423.4 (*)	1.00	10.1	133.85	511.0	1.02	10.1	10.83	S06 Ø35	2	87.5
137.25	497.6 (*)	0.98	10.1	-	-	-	-	12.75	S06 Ø35	2	87.5
180.70	379.5	1.47	9.3	149.72	458.0	1.51	10	9.68	S07 Ø50	2	110.0

PN = 7.50 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
149.06	459.5	1.46	9.8	123.51	554.5	1.46	10.4	11.74	S07 Ø50	2	110.0
121.97	560.6	1.40	10.3	101.06	676.6	1.41	11	14.35	S07 Ø50	2	110.0
104.20	655.3	1.36	10.8	86.34	790.9	1.34	11.1	16.79	S07 Ø50	2	110.0
100.48	678.9	1.35	10.8	83.25	819.4	1.35	11.6	17.42	S07 Ø50	2	110.0
84.85	802.9	1.29	11.4	70.30	969.0	1.23	12	20.63	S07 Ø50	2	110.0
73.54	924.6	1.24	11.8	60.93	1115.9	1.10	12.6	23.80	S07 Ø50	2	110.0
62.55	1084.4	1.12	12.4	51.83	1308.8	0.97	13.4	27.98	S07 Ø50	2	110.0
51.74	1306.9	0.97	13.5	42.87	1577.3 (*)	0.83	13.8	33.83	S07 Ø50	2	110.0
180.70	379.5	1.47	9.4	149.72	458.0	1.51	10.0	9.68	S07 Ø45	2	110.0
149.06	459.5	1.46	10	123.51	554.5	1.46	10.5	11.74	S07 Ø45	2	110.0
121.97	560.6	1.40	10.5	101.06	676.6	1.41	11.0	14.35	S07 Ø45	2	110.0
104.20	655.3	1.36	11.0	86.34	790.9	1.34	11.1	16.79	S07 Ø45	2	110.0
100.48	678.9	1.35	11.1	83.25	819.4	1.35	11.7	17.42	S07 Ø45	2	110.0
84.85	802.9	1.29	11.7	70.30	969.0	1.23	12.1	20.63	S07 Ø45	2	110.0
73.54	924.6	1.24	12.1	60.93	1115.9	1.10	12.7	23.80	S07 Ø45	2	110.0
62.55	1084.4	1.12	12.7	-	-	-	-	27.98	S07 Ø45	2	110.0

Note: (**) Upon request.

PN = 9.20 kW											
60 Hz n2 rpm	n1=1750			50 Hz n2 rpm	n1=1450			Iex	Size	Stages	Kg
	M2 Nm	fs	Fr kN		M2 Nm	fs	Fr kN				
247.69	339.7 (*)	0.87	9.7	-	-	-	-	7.07	S06 Ø40	2	91.5
196.47	427.7 (*)	0.85	10.5	-	-	-	-	8.91	S06 Ø40	2	91.5
161.54	519.4 (*)	0.81	11.2	-	-	-	-	10.83	S06 Ø40	2	91.5
137.25	610.4 (*)	0.80	11.8	-	-	-	-	12.75	S06 Ø40	2	91.5
247.69	339.7 (*)	0.87	9.6	-	-	-	-	7.07	S06 Ø35	2	91.5
196.47	427.7 (*)	0.85	10.1	-	-	-	-	8.91	S06 Ø35	2	91.5
161.54	519.4 (*)	0.81	10.1	-	-	-	-	10.83	S06 Ø35	2	91.5
180.70	465.5	1.20	9.2	-	-	-	-	9.68	S07 Ø50	2	114.0
149.06	563.6	1.19	9.5	-	-	-	-	11.74	S07 Ø50	2	114.0
121.97	687.7	1.15	10.1	-	-	-	-	14.35	S07 Ø50	2	114.0
104.20	803.8	1.11	10.6	-	-	-	-	16.79	S07 Ø50	2	114.0
100.48	832.8	1.10	10.6	-	-	-	-	17.42	S07 Ø50	2	114.0
84.85	984.9	1.05	11.2	-	-	-	-	20.63	S07 Ø50	2	114.0
73.54	1134.2	1.01	11.6	-	-	-	-	23.80	S07 Ø50	2	114.0
62.55	1330.2 (*)	0.92	11.8	-	-	-	-	27.98	S07 Ø50	2	114.0
51.74	1603.1 (*)	0.79	12.6	-	-	-	-	33.83	S07 Ø50	2	114.0
180.70	465.5	1.20	9.4	-	-	-	-	9.68	S07 Ø45	2	114.0
149.06	563.6	1.19	10	-	-	-	-	11.74	S07 Ø45	2	114.0
121.97	687.7	1.15	10.5	-	-	-	-	14.35	S07 Ø45	2	114.0
104.20	803.8	1.11	11.0	-	-	-	-	16.79	S07 Ø45	2	114.0
100.48	832.8	1.10	11.1	-	-	-	-	17.42	S07 Ø45	2	114.0
84.85	984.9	1.05	11.7	-	-	-	-	20.63	S07 Ø45	2	114.0
73.54	1134.2	1.01	12.1	-	-	-	-	23.80	S07 Ø45	2	114.0

Note: (**) Upon request.

6 THERMAL POWER

The thermal data for the gearmotors listed in the selection tables refer to an ambient temperature of +20 °C. The thermal power limits for other ambient temperatures can be found in the table below.

Thermal Power	
Nominal thermal power PT is the power (kW) that the gearbox can transmit without exceeding the recommended temperature for the lubricant	
PT = PTG x fh	
PT = Nominal thermal power (kW)	
PTG = Natural thermal power of the gear unit (kW)	Table 6.2 on page 243
fh = Altitude factor	Table 6.1 on page 243

Important
PT > Pn
PT < 1/3 x Pn (consult WEG-CESTARI)
PT = Nominal thermal power (kW)
P_N = Nominal motor power (kW)

Table 6.1: Altitude factor - fh

Altitude factor - fh					
Altitude - h (m)	Up to 999	1000-2000	2001-3000	3001-4000	4001-5000
fh	1.00	0.95	0.90	0.85	0.80

Table 6.2: Natural Thermal Power - PTG

Natural Thermal Power - PTG (1.750 rpm)												Natural Thermal Power - PTG (1.450 rpm)									
Gearbox	Reduction	Efficiency	Temperature									Efficiency	Temperature								
			-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C		-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C
S032	5.17	95.56 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	95.38 %	2.73	2.28	1.97	1.75	1.52	1.21	0.91	0.61	0.38
S032	7.04	95.25 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	95.00 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38
S032	9.35	94.87 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	94.56 %	2.67	2.23	1.93	1.71	1.48	1.19	0.89	0.59	0.37
S032	9.39	93.37 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	93.08 %	2.89	2.41	2.09	1.85	1.61	1.29	0.96	0.64	0.40
S032	12.80	92.88 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	92.50 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38
S032	17.00	92.30 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	91.83 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38
S032	22.77	91.56 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	90.99 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38
S032	29.14	90.82 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	90.17 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38
S032	34.04	81.35 %	1.80	1.50	1.30	1.15	1.00	0.80	0.60	0.40	0.25	80.59 %	1.80	1.50	1.30	1.15	1.00	0.80	0.60	0.40	0.25
S032	37.82	89.93 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	89.20 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38
S032	46.40	80.07 %	1.62	1.35	1.17	1.04	0.90	0.72	0.54	0.36	0.23	79.11 %	1.69	1.41	1.22	1.08	0.94	0.75	0.56	0.38	0.24
S032	48.00	89.02 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	88.24 %	2.65	2.21	1.92	1.69	1.47	1.18	0.88	0.59	0.37
S032	59.20	88.17 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	87.36 %	2.62	2.18	1.89	1.67	1.45	1.16	0.87	0.58	0.36
S032	61.63	78.62 %	1.62	1.35	1.17	1.04	0.90	0.72	0.54	0.36	0.23	77.48 %	1.57	1.31	1.13	1.00	0.87	0.70	0.52	0.35	0.22
S032	76.00	86.30 %	2.52	2.10	1.82	1.61	1.40	1.12	0.84	0.56	0.35	86.30 %	2.58	2.15	1.86	1.65	1.43	1.14	0.86	0.57	0.36
S032	82.54	76.84 %	1.44	1.20	1.04	0.92	0.80	0.64	0.48	0.32	0.20	75.51 %	1.46	1.22	1.05	0.93	0.81	0.65	0.49	0.32	0.20
S032	105.64	75.13 %	1.35	1.13	0.98	0.86	0.75	0.60	0.45	0.30	0.19	73.67 %	1.35	1.13	0.98	0.86	0.75	0.60	0.45	0.30	0.19
S032	137.09	73.14 %	1.26	1.05	0.91	0.81	0.70	0.56	0.42	0.28	0.18	71.59 %	1.24	1.04	0.90	0.79	0.69	0.55	0.41	0.28	0.17
S032	174.00	71.22 %	1.17	0.98	0.85	0.75	0.65	0.52	0.39	0.26	0.16	69.63 %	1.17	0.98	0.85	0.75	0.65	0.52	0.39	0.26	0.16
S032	214.60	69.50 %	1.10	0.92	0.79	0.70	0.61	0.49	0.37	0.24	0.15	67.92 %	1.10	0.92	0.79	0.70	0.61	0.49	0.37	0.24	0.15
S032	275.50	67.47 %	1.03	0.86	0.74	0.66	0.57	0.46	0.34	0.23	0.14	65.94 %	1.04	0.86	0.75	0.66	0.58	0.46	0.35	0.23	0.14
S042	6.92	95.11 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	94.90 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55
S042	8.87	94.84 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	94.59 %	3.91	3.26	2.82	2.50	2.17	1.74	1.30	0.87	0.54

Natural Thermal Power - PTG (1.750 rpm)												Natural Thermal Power - PTG (1.450 rpm)								
Gearbox	Reduction	Efficiency	Temperature									Efficiency	Temperature							
			-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C		-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C
S042	11.40	94.51 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	94.20 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55
S042	12.69	92.66 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	92.33 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55
S042	15.00	94.05 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	93.70 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55
S042	16.26	92.24 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	91.84 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55
S042	19.85	93.48 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	92.45 %	3.58	2.98	2.58	2.29	1.99	1.59	1.19	0.79	0.50
S042	20.90	91.72 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	91.23 %	4.04	3.37	2.92	2.58	2.25	1.80	1.35	0.90	0.56
S042	24.86	92.94 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	92.45 %	3.89	3.24	2.81	2.49	2.16	1.73	1.30	0.86	0.54
S042	27.50	91.01 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	90.43 %	4.05	3.38	2.93	2.59	2.25	1.80	1.35	0.90	0.56
S042	32.18	92.23 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	91.64 %	3.73	3.11	2.70	2.38	2.07	1.66	1.24	0.83	0.52
S042	36.38	90.15 %	3.78	3.15	2.73	2.42	2.10	1.68	1.26	0.84	0.53	89.46 %	3.60	3.00	2.60	2.30	2.00	1.60	1.20	0.80	0.50
S042	40.50	91.53 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	90.90 %	3.88	3.23	2.80	2.48	2.15	1.72	1.29	0.86	0.54
S042	45.57	89.35 %	3.42	2.85	2.47	2.19	1.90	1.52	1.14	0.76	0.48	88.59 %	3.42	2.85	2.47	2.19	1.90	1.52	1.14	0.76	0.48
S042	49.80	90.85 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	90.20 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55
S042	59.00	88.32 %	3.15	2.63	2.28	2.01	1.75	1.40	1.05	0.70	0.44	87.48 %	3.06	2.55	2.21	1.96	1.70	1.36	1.02	0.68	0.43
S042	74.25	87.33 %	2.88	2.40	2.08	1.84	1.60	1.28	0.96	0.64	0.40	86.45 %	2.88	2.40	2.08	1.84	1.60	1.28	0.96	0.64	0.40
S042	91.30	86.39 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	85.49 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38
S042	97.50	76.10 %	1.53	1.28	1.11	0.98	0.85	0.68	0.51	0.34	0.21	74.79 %	1.53	1.28	1.11	0.98	0.85	0.68	0.51	0.34	0.21
S042	129.00	74.17 %	1.42	1.19	1.03	0.91	0.79	0.63	0.47	0.32	0.20	72.69 %	1.37	1.14	0.99	0.87	0.76	0.61	0.46	0.30	0.19
S042	161.57	72.44 %	1.33	1.11	0.96	0.85	0.74	0.59	0.44	0.30	0.19	70.87 %	1.31	1.10	0.95	0.84	0.73	0.58	0.44	0.29	0.18
S042	209.18	70.33 %	1.24	1.04	0.90	0.79	0.69	0.55	0.41	0.28	0.17	68.69 %	1.22	1.02	0.88	0.78	0.68	0.54	0.41	0.27	0.17
S042	263.25	68.40 %	1.17	0.98	0.85	0.75	0.65	0.52	0.39	0.26	0.16	66.74 %	1.17	0.98	0.85	0.75	0.65	0.52	0.39	0.26	0.16
S042	323.70	66.63 %	1.10	0.92	0.79	0.70	0.61	0.49	0.37	0.24	0.15	65.02 %	1.10	0.92	0.79	0.70	0.61	0.49	0.37	0.24	0.15
S052	9.33	94.20 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	94.00 %	5.46	4.55	3.94	3.49	3.03	2.43	1.82	1.21	0.76
S052	10.50	93.83 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	93.61 %	5.46	4.55	3.94	3.49	3.03	2.43	1.82	1.21	0.76
S052	11.38	94.00 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	93.75 %	5.46	4.55	3.94	3.49	3.03	2.43	1.82	1.21	0.76
S052	12.81	93.61 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	93.35 %	5.46	4.55	3.95	3.49	3.04	2.43	1.82	1.21	0.76
S052	14.26	93.71 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	93.41 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75
S052	16.04	93.30 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	92.99 %	5.47	4.56	3.95	3.49	3.04	2.43	1.82	1.21	0.76
S052	18.00	93.35 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	92.99 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75
S052	20.25	92.92 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	92.53 %	5.33	4.44	3.85	3.41	2.96	2.37	1.78	1.18	0.74
S052	23.50	92.84 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	92.40 %	5.33	4.44	3.85	3.40	2.96	2.37	1.78	1.18	0.74
S052	26.44	92.37 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	91.90 %	5.32	4.44	3.85	3.40	2.96	2.37	1.77	1.18	0.74
S052	30.77	92.21 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	91.68 %	5.25	4.37	3.79	3.35	2.91	2.33	1.75	1.17	0.73
S052	34.62	91.70 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	91.14 %	5.24	4.36	3.78	3.35	2.91	2.33	1.75	1.16	0.73
S052	38.29	91.61 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	91.00 %	5.32	4.43	3.84	3.40	2.95	2.36	1.77	1.18	0.74
S052	43.07	91.06 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	90.42 %	5.31	4.43	3.84	3.39	2.95	2.36	1.77	1.18	0.74
S052	49.45	90.80 %	5.31	4.43	3.84	3.39	2.95	2.36	1.77	1.18	0.74	90.13 %	5.22	4.35	3.77	3.34	2.90	2.32	1.74	1.16	0.73
S052	55.64	90.21 %	5.04	4.20	3.64	3.22	2.80	2.24	1.68	1.12	0.70	89.50 %	4.86	4.05	3.51	3.11	2.70	2.16	1.62	1.08	0.68
S052	62.00	90.01 %	4.86	4.05	3.51	3.11	2.70	2.16	1.62	1.08	0.68	89.28 %	4.77	3.98	3.45	3.05	2.65	2.12	1.59	1.06	0.66
S052	69.75	89.37 %	4.59	3.83	3.32	2.93	2.55	2.04	1.53	1.02	0.64	88.60 %	4.50	3.75	3.25	2.88	2.50	2.00	1.50	1.00	0.63
S052	76.00	89.24 %	4.50	3.75	3.25	2.88	2.50	2.00	1.50	1.00	0.63	88.48 %	4.50	3.75	3.25	2.88	2.50	2.00	1.50	1.00	0.63
S052	87.75	77.62 %	2.16	1.80	1.56	1.38	1.20	0.96	0.72	0.48	0.30	76.54 %	2.16	1.80	1.56	1.38	1.20	0.96	0.72	0.48	0.30
S052	114.56	76.10 %	2.07	1.73	1.50	1.32	1.15	0.92	0.69	0.46	0.29	74.83 %	1.98	1.65	1.43	1.27	1.10	0.88	0.66	0.44	0.28
S052	150.00	74.31 %	1.89	1.58	1.37	1.21	1.05	0.84	0.63	0.42	0.26	72.87 %	1.89	1.58	1.37	1.21	1.05	0.84	0.63	0.42	0.26

Natural Thermal Power - PTG (1.750 rpm)												Natural Thermal Power - PTG (1.450 rpm)								
Gearbox	Reduction	Efficiency	Temperature									Efficiency	Temperature							
			-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C		-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C
S052	186.64	72.68 %	1.80	1.50	1.30	1.15	1.00	0.80	0.60	0.40	0.25	71.13 %	1.71	1.43	1.24	1.09	0.95	0.76	0.57	0.38	0.24
S052	241.09	70.62 %	1.67	1.40	1.21	1.07	0.93	0.74	0.56	0.37	0.23	68.98 %	1.58	1.32	1.14	1.01	0.88	0.70	0.53	0.35	0.22
S052	302.25	68.71 %	1.57	1.31	1.13	1.00	0.87	0.70	0.52	0.35	0.22	67.03 %	1.49	1.25	1.08	0.95	0.83	0.66	0.50	0.33	0.21
S052	370.50	66.95 %	1.48	1.23	1.07	0.94	0.82	0.66	0.49	0.33	0.21	65.29 %	1.48	1.23	1.07	0.94	0.82	0.66	0.49	0.33	0.21
S062	7.07	95.77 %	9.90	8.25	7.15	6.33	5.50	4.40	3.30	2.20	1.38	95.66 %	10.14	8.45	7.33	6.48	5.64	4.51	3.38	2.25	1.41
S062	8.91	95.64 %	9.90	8.25	7.15	6.33	5.50	4.40	3.30	2.20	1.38	95.49 %	10.03	8.35	7.24	6.41	5.57	4.46	3.34	2.23	1.39
S062	10.83	95.49 %	9.90	8.25	7.15	6.33	5.50	4.40	3.30	2.20	1.38	95.33 %	10.10	8.41	7.29	6.45	5.61	4.49	3.37	2.24	1.40
S062	12.75	95.35 %	9.90	8.25	7.15	6.33	5.50	4.40	3.30	2.20	1.38	95.15 %	9.97	8.31	7.20	6.37	5.54	4.43	3.32	2.21	1.38
S062	15.54	95.15 %	9.90	8.25	7.15	6.33	5.50	4.40	3.30	2.20	1.38	94.92 %	9.90	8.25	7.15	6.33	5.50	4.40	3.30	2.20	1.38
S062	18.85	94.92 %	9.90	8.25	7.15	6.33	5.50	4.40	3.30	2.20	1.38	94.64 %	9.83	8.19	7.10	6.28	5.46	4.37	3.28	2.18	1.36
S062	22.61	91.01 %	6.84	5.70	4.94	4.37	3.80	3.04	2.28	1.52	0.95	90.71 %	7.02	5.85	5.07	4.49	3.90	3.12	2.34	1.56	0.98
S062	24.78	94.51 %	9.90	8.25	7.15	6.33	5.50	4.40	3.30	2.20	1.38	94.16 %	9.74	8.12	7.04	6.22	5.41	4.33	3.25	2.17	1.35
S062	27.50	90.71 %	6.66	5.55	4.81	4.26	3.70	2.96	2.22	1.48	0.93	90.35 %	6.75	5.63	4.88	4.31	3.75	3.00	2.25	1.50	0.94
S062	32.37	90.41 %	6.48	5.40	4.68	4.14	3.60	2.88	2.16	1.44	0.90	89.99 %	6.48	5.40	4.68	4.14	3.60	2.88	2.16	1.44	0.90
S062	39.46	89.99 %	6.12	5.10	4.42	3.91	3.40	2.72	2.04	1.36	0.85	89.49 %	6.21	5.18	4.49	3.97	3.45	2.76	2.07	1.38	0.86
S062	47.85	89.50 %	5.94	4.95	4.29	3.80	3.30	2.64	1.98	1.32	0.83	88.92 %	5.85	4.88	4.23	3.74	3.25	2.60	1.95	1.30	0.81
S062	62.91	88.67 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75	87.97 %	5.40	4.50	3.90	3.45	3.00	2.40	1.80	1.20	0.75
S062	70.62	81.75 %	3.42	2.85	2.47	2.19	1.90	1.52	1.14	0.76	0.48	81.02 %	3.42	2.85	2.47	2.19	1.90	1.52	1.14	0.76	0.48
S062	81.23	87.74 %	5.04	4.20	3.64	3.22	2.80	2.24	1.68	1.12	0.70	86.93 %	4.95	4.13	3.58	3.16	2.75	2.20	1.65	1.10	0.69
S062	86.09	81.00 %	3.24	2.70	2.34	2.07	1.80	1.44	1.08	0.72	0.45	80.15 %	3.24	2.70	2.34	2.07	1.80	1.44	1.08	0.72	0.45
S062	99.00	86.91 %	4.68	3.90	3.38	2.99	2.60	2.08	1.56	1.04	0.65	86.02 %	4.68	3.90	3.38	2.99	2.60	2.08	1.56	1.04	0.65
S062	104.40	80.16 %	3.15	2.63	2.28	2.01	1.75	1.40	1.05	0.70	0.44	79.18 %	3.06	2.55	2.21	1.96	1.70	1.36	1.02	0.68	0.43
S062	127.50	85.74 %	4.32	3.60	3.12	2.76	2.40	1.92	1.44	0.96	0.60	84.76 %	4.32	3.60	3.12	2.76	2.40	1.92	1.44	0.96	0.60
S062	137.25	78.74 %	2.88	2.40	2.08	1.84	1.60	1.28	0.96	0.64	0.40	77.58 %	2.88	2.40	2.08	1.84	1.60	1.28	0.96	0.64	0.40
S062	160.88	84.56 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55	83.51 %	3.96	3.30	2.86	2.53	2.20	1.76	1.32	0.88	0.55
S062	177.23	77.19 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38	75.87 %	2.70	2.25	1.95	1.73	1.50	1.20	0.90	0.60	0.38
S062	216.00	75.85 %	2.52	2.10	1.82	1.61	1.40	1.12	0.84	0.56	0.35	74.42 %	2.52	2.10	1.82	1.61	1.40	1.12	0.84	0.56	0.35
S062	278.18	73.97 %	2.34	1.95	1.69	1.50	1.30	1.04	0.78	0.52	0.33	72.45 %	2.34	1.95	1.69	1.50	1.30	1.04	0.78	0.52	0.33
S062	351.00	72.14 %	2.16	1.80	1.56	1.38	1.20	0.96	0.72	0.48	0.30	70.56 %	2.16	1.80	1.56	1.38	1.20	0.96	0.72	0.48	0.30
S072	9.68	95.74 %	19.80	16.50	14.30	12.65	11.00	8.80	6.60	4.40	2.75	95.63 %	20.33	16.94	14.68	12.99	11.29	9.03	6.78	4.52	2.82
S072	11.74	95.62 %	19.80	16.50	14.30	12.65	11.00	8.80	6.60	4.40	2.75	95.48 %	20.16	16.80	14.56	12.88	11.20	8.96	6.72	4.48	2.80
S072	14.35	95.47 %	19.26	16.05	13.91	12.31	10.70	8.56	6.42	4.28	2.68	95.30 %	19.44	16.20	14.04	12.42	10.80	8.64	6.48	4.32	2.70
S072	16.79	95.33 %	18.54	15.45	13.39	11.85	10.30	8.24	6.18	4.12	2.58	95.13 %	18.72	15.60	13.52	11.96	10.40	8.32	6.24	4.16	2.60
S072	17.42	95.24 %	18.18	15.15	13.13	11.62	10.10	8.08	6.06	4.04	2.53	95.09 %	18.63	15.53	13.46	11.90	10.35	8.28	6.21	4.14	2.59
S072	20.63	95.11 %	17.82	14.85	12.87	11.39	9.90	7.92	5.94	3.96	2.48	94.87 %	17.82	14.85	12.87	11.39	9.90	7.92	5.94	3.96	2.48
S072	23.80	94.93 %	17.10	14.25	12.35	10.93	9.50	7.60	5.70	3.80	2.38	94.67 %	17.10	14.25	12.35	10.93	9.50	7.60	5.70	3.80	2.38
S072	27.98	94.70 %	16.38	13.65	11.83	10.47	9.10	7.28	5.46	3.64	2.28	94.40 %	16.20	13.50	11.70	10.35	9.00	7.20	5.40	3.60	2.25
S072	33.83	94.40 %	15.48	12.90	11.18	9.89	8.60	6.88	5.16	3.44	2.15	94.05 %	15.30	12.75	11.05	9.78	8.50	6.80	5.10	3.40	2.13
S072	41.73	90.59 %	9.18	7.65	6.63	5.87	5.10	4.08	3.06	2.04	1.28	90.18 %	9.18	7.65	6.63	5.87	5.10	4.08	3.06	2.04	1.28
S072	43.28	90.52 %	9.18	7.65	6.63	5.87	5.10	4.08	3.06	2.04	1.28	90.09 %	9.18	7.65	6.63	5.87	5.10	4.08	3.06	2.04	1.28
S072	51.25	90.15 %	8.82	7.35	6.37	5.64	4.90	3.92	2.94	1.96	1.23	89.68 %	8.82	7.35	6.37	5.64	4.90	3.92	2.94	1.96	1.23
S072	59.13	89.79 %	8.46	7.05	6.11	5.41	4.70	3.76	2.82	1.88	1.18	89.23 %	8.46	7.05	6.11	5.41	4.70	3.76	2.82	1.88	1.18
S072	69.52	89.33 %	8.10	6.75	5.85	5.18	4.50	3.60	2.70	1.80	1.13	88.71 %	8.10	6.75	5.85	5.18	4.50	3.60	2.70	1.80	1.13
S072	84.05	88.72 %	7.74	6.45	5.59	4.95	4.30	3.44	2.58	1.72	1.08	88.02 %	7.56	6.30	5.46	4.83	4.20	3.36	2.52	1.68	1.05

Natural Thermal Power - PTG (1.750 rpm)												Natural Thermal Power - PTG (1.450 rpm)								
Gearbox	Reduction	Efficiency	Temperature									Efficiency	Temperature							
			-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C		-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C
S072	92.89	82.33 %	4.86	4.05	3.51	3.11	2.70	2.16	1.62	1.08	0.68	81.57 %	4.95	4.13	3.58	3.16	2.75	2.20	1.65	1.10	0.69
S072	108.91	87.75 %	7.11	5.93	5.14	4.54	3.95	3.16	2.37	1.58	0.99	86.93 %	7.02	5.85	5.07	4.49	3.90	3.12	2.34	1.56	0.98
S072	126.92	81.07 %	4.59	3.83	3.32	2.93	2.55	2.04	1.53	1.02	0.64	80.12 %	4.59	3.83	3.32	2.93	2.55	2.04	1.53	1.02	0.64
S072	138.77	86.72 %	6.48	5.40	4.68	4.14	3.60	2.88	2.16	1.44	0.90	85.80 %	6.39	5.33	4.62	4.08	3.55	2.84	2.13	1.42	0.89
S072	149.22	80.29 %	4.41	3.68	3.19	2.82	2.45	1.96	1.47	0.98	0.61	79.24 %	4.41	3.68	3.19	2.82	2.45	1.96	1.47	0.98	0.61
S072	165.46	85.89 %	6.12	5.10	4.42	3.91	3.40	2.72	2.04	1.36	0.85	84.92 %	6.03	5.03	4.36	3.85	3.35	2.68	2.01	1.34	0.84
S072	180.40	79.27 %	4.14	3.45	2.99	2.65	2.30	1.84	1.38	0.92	0.58	78.10 %	4.14	3.45	2.99	2.65	2.30	1.84	1.38	0.92	0.58
S072	214.32	84.58 %	5.58	4.65	4.03	3.57	3.10	2.48	1.86	1.24	0.78	83.55 %	5.58	4.65	4.03	3.57	3.10	2.48	1.86	1.24	0.78
S072	233.75	77.70 %	3.87	3.23	2.80	2.47	2.15	1.72	1.29	0.86	0.54	76.35 %	3.87	3.23	2.80	2.47	2.15	1.72	1.29	0.86	0.54
S072	297.85	76.02 %	3.60	3.00	2.60	2.30	2.00	1.60	1.20	0.80	0.50	74.57 %	3.60	3.00	2.60	2.30	2.00	1.60	1.20	0.80	0.50
S072	355.14	74.72 %	3.42	2.85	2.47	2.19	1.90	1.52	1.14	0.76	0.48	73.21 %	3.42	2.85	2.47	2.19	1.90	1.52	1.14	0.76	0.48
S072	460.00	72.72 %	3.15	2.63	2.28	2.01	1.75	1.40	1.05	0.70	0.44	71.16 %	3.15	2.63	2.28	2.01	1.75	1.40	1.05	0.70	0.44

7 SELECTION TABLE - GEARBOXES

Structured Selection Tables

Size	Stages	I_{ex}	M2 adm (Nm)	P adm (kW)	n1 1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132	160	180	200	225	250
1	2	3	4	5	6	7	8	9											

1. Size of the gearbox.
2. Stages of the reducer.
3. Exact gear ratio of the reduction gear.
4. Permissible output torque for operating mode S1 (Fs = 1.0).
5. Permissible input power for S1 operating mode (Fs = 1.0).
6. Output speed with n1 = 1750 rpm.
7. Weight of the gearbox (without motor).
8. Maximum input speed.
9. Applicable motor frame size.

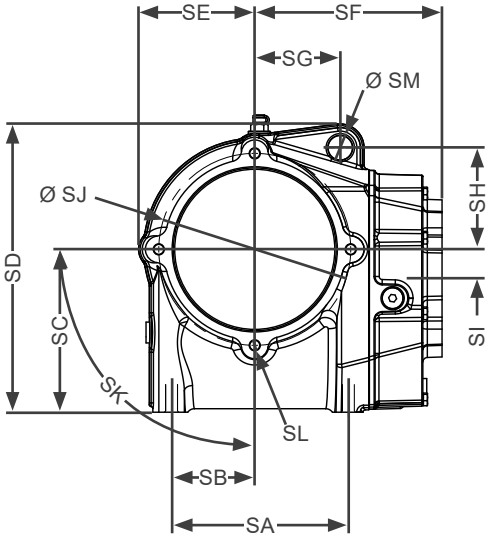
Type	Stages	I	Shaft Diameter (mm)	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132
S03	2	5.17	Ø20	62	2.330	338.5	4.5	1800	•	•	•	•			
S03	2	7.04	Ø20	70	1.926	248.6	4.5	1800	•	•	•	•			
S03	2	9.35	Ø20	77	1.610	187.2	4.5	1800	•	•	•	•			
S03	2	9.39	Ø20	79	1.676	186.4	4.5	1800	•	•	•	•			
S03	2	12.8	Ø20	87	1.360	136.7	4.5	1800	•	•	•	•			
S03	2	17	Ø20	95	1.125	102.9	4.5	1800	•	•	•	•			
S03	2	22.77	Ø20	100	0.889	76.9	4.5	1800	•	•	•	•			
S03	2	29.14	Ø20	103	0.735	60.1	4.5	1800	•	•	•	•			
S03	2	34.04	Ø20	80	0.537	51.4	4.5	1800	•	•	•	•			
S03	2	37.82	Ø20	106	0.581	46.3	4.5	1800	•	•	•	•			
S03	2	46.4	Ø20	91	0.456	37.7	4.5	1800	•	•	•	•			
S03	2	48	Ø20	108	0.470	36.5	4.5	1800	•	•	•	•			
S03	2	59.2	Ø20	110	0.390	29.6	4.5	1800	•	•	•	•			
S03	2	61.63	Ø20	96	0.368	28.4	4.5	1800	•	•	•	•			
S03	2	76	Ø20	108	0.309	23.0	4.5	1800	•	•					
S03	2	82.54	Ø20	109	0.323	21.2	4.5	1800	•	•	•	•			
S03	2	105.64	Ø20	117	0.272	16.6	4.5	1800	•	•	•	•			
S03	2	137.09	Ø20	120	0.221	12.8	4.5	1800	•	•	•	•			
S03	2	174	Ø20	123	0.184	10.1	4.5	1800	•	•	•	•			
S03	2	214.6	Ø20	124	0.154	8.2	4.5	1800	•	•	•	•			
S03	2	275.5	Ø20	126	0.125	6.4	4.5	1800	•	•					
S04	2	6.92	Ø25	113	3.190	252.9	6.6	1800			•	•	•		
S04	2	8.87	Ø25	123	2.712	197.3	6.6	1800	•	•	•	•	•		
S04	2	11.4	Ø25	133	2.308	153.5	6.6	1800	•	•	•	•	•		
S04	2	12.69	Ø25	119	1.882	137.9	6.6	1800			•	•	•		
S04	2	15	Ø25	147	1.948	116.7	6.6	1800	•	•	•	•	•		
S04	2	16.26	Ø25	130	1.624	107.6	6.6	1800	•	•	•	•	•		
S04	2	19.85	Ø25	162	1.639	88.2	6.6	1800	•	•	•	•	•		
S04	2	20.9	Ø25	144	1.397	83.7	6.6	1800	•	•	•	•	•		
S04	2	24.86	Ø25	179	1.448	70.4	6.6	1800	•	•	•	•	•		

Type	Stages	I	Shaft Diameter (mm)	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132
S04	2	27.5	Ø25	160	1.198	63.6	6.6	1800	●	●	●	●	●		
S04	2	32.18	Ø25	186	1.169	54.4	6.6	1800	●	●	●	●			
S04	2	36.38	Ø25	179	1.022	48.1	6.6	1800	●	●	●	●	●		
S04	2	40.5	Ø25	185	0.926	43.2	6.6	1800	●	●	●	●			
S04	2	45.57	Ø25	198	0.904	38.4	6.6	1800	●	●	●	●	●		
S04	2	49.8	Ø25	184	0.757	35.1	6.6	1800	●	●	●	●			
S04	2	59	Ø25	205	0.735	29.7	6.6	1800	●	●	●	●			
S04	2	74.25	Ø25	209	0.603	23.6	6.6	1800	●	●	●	●			
S04	2	91.3	Ø25	212	0.500	19.2	6.6	1800	●	●	●	●			
S04	2	97.5	Ø25	166	0.426	17.9	6.6	1800	●	●	●	●	●		
S04	2	129	Ø25	184	0.368	13.6	6.6	1800	●	●	●	●	●		
S04	2	161.57	Ø25	203	0.323	10.8	6.6	1800	●	●	●	●	●		
S04	2	209.18	Ø25	219	0.279	8.4	6.6	1800	●	●	●	●			
S04	2	263.25	Ø25	221	0.228	6.6	6.6	1800	●	●	●	●			
S04	2	323.7	Ø25	223	0.191	5.4	6.6	1800	●	●	●	●			
S05	2	9.33	Ø30	222	4.697	187.6	10.7	1800			●	●	●		
S05	2	10.5	Ø30	232	4.381	166.7	10.7	1800			●	●	●		
S05	2	11.38	Ø30	263	4.572	153.8	10.7	1800			●	●	●		
S05	2	12.81	Ø30	274	4.248	136.6	10.7	1800			●	●	●		
S05	2	14.26	Ø30	311	4.329	122.7	10.7	1800	●	●	●	●	●		
S05	2	16.04	Ø30	315	3.910	109.1	10.7	1800	●	●	●	●	●		
S05	2	18	Ø30	355	3.932	97.2	10.7	1800	●	●	●	●	●		
S05	2	20.25	Ø30	335	3.308	86.4	10.7	1800	●	●	●	●	●		
S05	2	23.5	Ø30	377	3.212	74.5	10.7	1800	●	●	●	●	●		
S05	2	26.44	Ø30	355	2.705	66.2	10.7	1800	●	●	●	●	●		
S05	2	30.77	Ø30	395	2.587	56.9	10.7	1800	●	●	●	●	●		
S05	2	34.62	Ø30	371	2.176	50.5	10.7	1800	●	●	●	●	●		
S05	2	38.29	Ø30	408	2.161	45.7	10.7	1800	●	●	●	●	●		
S05	2	43.07	Ø30	384	1.815	40.6	10.7	1800	●	●	●	●	●		
S05	2	49.45	Ø30	420	1.742	35.4	10.7	1800	●	●	●	●			
S05	2	55.64	Ø30	398	1.463	31.5	10.7	1800	●	●	●	●			
S05	2	62	Ø30	363	1.213	28.2	10.7	1800	●	●	●	●			
S05	2	69.75	Ø30	407	1.198	25.1	10.7	1800	●	●	●	●			
S05	2	76	Ø30	292	0.794	23.0	10.7	1800	●	●	●	●			
S05	2	87.75	Ø30	360	0.985	19.9	10.7	1800	●	●	●	●	●		
S05	2	114.56	Ø30	389	0.831	15.3	10.7	1800	●	●	●	●	●		
S05	2	150	Ø30	423	0.706	11.7	10.7	1800	●	●	●	●	●		
S05	2	186.64	Ø30	448	0.610	9.4	10.7	1800	●	●	●	●	●		
S05	2	241.09	Ø30	465	0.507	7.3	10.7	1800	●	●	●	●			
S05	2	302.25	Ø30	466	0.419	5.8	10.7	1800	●	●	●	●			
S05	2	370.5	Ø30	473	0.353	4.7	10.7	1800	●	●	●	●			
S06	2	7.07	Ø40	294	8.085	247.5	27.5	1800			●	●	●	●	●
S06	2	7.07	Ø35	294	8.085	247.5	27.5	1800			●	●	●	●	●
S06	2	8.91	Ø40	362	7.894	196.4	27.5	1800			●	●	●	●	●
S06	2	8.91	Ø35	362	7.894	196.4	27.5	1800			●	●	●	●	●
S06	2	10.83	Ø40	423	7.593	161.6	27.5	1800			●	●	●	●	●

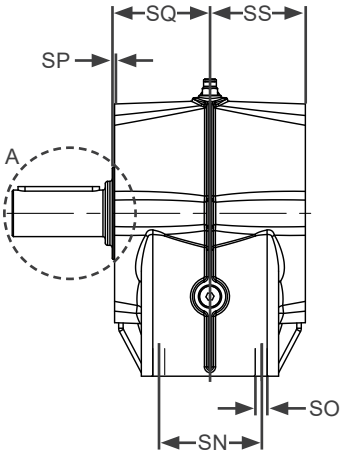
Type	Stages	I	Shaft Diameter (mm)	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132
S06	2	10.83	Ø35	423	7.593	161.6	27.5	1800			●	●	●	●	●
S06	2	12.75	Ø40	485	7.416	137.3	27.5	1800			●	●	●	●	●
S06	2	12.75	Ø35	485	7.416	137.3	27.5	1800			●	●	●	●	●
S06	2	15.54	Ø40	565	7.093	112.6	27.5	1800	●	●	●	●	●	●	●
S06	2	15.54	Ø35	520	6.528	112.6	27.5	1800	●	●	●	●	●	●	●
S06	2	18.85	Ø40	655	6.799	92.8	27.5	1800	●	●	●	●	●	●	●
S06	2	18.85	Ø35	520	5.397	92.8	27.5	1800	●	●	●	●	●	●	●
S06	2	22.61	Ø40	420	3.800	77.4	27.5	1800			●	●	●	●	●
S06	2	22.61	Ø35	420	3.800	77.4	27.5	1800			●	●	●	●	●
S06	2	24.78	Ø40	729	5.784	70.6	27.5	1800	●	●	●	●	●	●	●
S06	2	24.78	Ø35	520	4.126	70.6	27.5	1800	●	●	●	●	●	●	●
S06	2	27.5	Ø40	495	3.690	63.6	27.5	1800			●	●	●	●	●
S06	2	27.5	Ø35	495	3.690	63.6	27.5	1800			●	●	●	●	●
S06	2	32.37	Ø40	567	3.602	54.1	27.5	1800			●	●	●	●	●
S06	2	32.37	Ø35	520	3.303	54.1	27.5	1800			●	●	●	●	●
S06	2	39.46	Ø40	650	3.403	44.3	27.5	1800	●	●	●	●	●	●	●
S06	2	39.46	Ø35	520	2.722	44.3	27.5	1800	●	●	●	●	●	●	●
S06	2	47.85	Ø40	761	3.300	36.6	27.5	1800	●	●	●	●	●	●	●
S06	2	47.85	Ø35	520	2.255	36.6	27.5	1800	●	●	●	●	●	●	●
S06	2	62.91	Ø40	847	2.822	27.8	27.5	1800	●	●	●	●	●	●	●
S06	2	62.91	Ø35	520	1.733	27.8	27.5	1800	●	●	●	●	●	●	●
S06	2	70.62	Ø40	592	1.904	24.8	27.5	1800			●	●	●	●	●
S06	2	70.62	Ø35	520	1.672	24.8	27.5	1800			●	●	●	●	●
S06	2	81.23	Ø40	883	2.301	21.5	27.5	1800	●	●	●	●	●	●	●
S06	2	81.23	Ø35	520	1.355	21.5	27.5	1800	●	●	●	●	●	●	●
S06	2	86.09	Ø40	677	1.801	20.3	27.5	1800	●	●	●	●	●	●	●
S06	2	86.09	Ø35	520	1.383	20.3	27.5	1800	●	●	●	●	●	●	●
S06	2	99	Ø40	908	1.962	17.7	27.5	1800	●	●	●	●	●	●	●
S06	2	99	Ø35	520	1.124	17.7	27.5	1800	●	●	●	●	●	●	●
S06	2	104.4	Ø40	788	1.749	16.8	27.5	1800	●	●	●	●	●	●	●
S06	2	104.4	Ø35	520	1.154	16.8	27.5	1800	●	●	●	●	●	●	●
S06	2	127.5	Ø40	932	1.588	13.7	27.5	1800	●	●	●	●			
S06	2	127.5	Ø35	520	0.886	13.7	27.5	1800	●	●	●	●			
S06	2	137.25	Ø40	882	1.514	12.8	27.5	1800	●	●	●	●	●	●	●
S06	2	137.25	Ø35	520	0.893	12.8	27.5	1800	●	●	●	●	●	●	●
S06	2	160.88	Ø40	952	1.301	10.9	27.5	1800	●	●	●	●			
S06	2	160.88	Ø35	520	0.711	10.9	27.5	1800	●	●	●	●			
S06	2	177.23	Ø40	917	1.250	9.9	27.5	1800	●	●	●	●	●	●	●
S06	2	177.23	Ø35	520	0.709	9.9	27.5	1800	●	●	●	●	●	●	●
S06	2	216	Ø40	942	1.066	8.1	27.5	1800	●	●	●	●	●	●	●
S06	2	216	Ø35	520	0.588	8.1	27.5	1800	●	●	●	●	●	●	●
S06	2	278.18	Ø40	967	0.875	6.3	27.5	1800	●	●	●	●			
S06	2	278.18	Ø35	520	0.470	6.3	27.5	1800	●	●	●	●			
S06	2	351	Ø40	987	0.728	5.0	27.5	1800	●	●	●	●			
S06	2	351	Ø35	520	0.383	5.0	27.5	1800	●	●	●	●			
S07	2	9.68	Ø50	557	11.216	180.8	50	1800					●	●	●
S07	2	9.68	Ø45	557	11.216	180.8	50	1800					●	●	●
S07	2	11.74	Ø50	671	11.157	149.1	50	1800					●	●	●

Type	Stages	I	Shaft Diameter (mm)	M2 adm (Nm)	P adm (kW)	1750 n2 rpm	Gearbox Weight (kg)	RPM max	63	71	80	90	100	112	132
S07	2	11.74	Ø45	671	11.157	149.1	50	1800					●	●	●
S07	2	14.35	Ø50	788	10.738	122.0	50	1800			●	●	●	●	●
S07	2	14.35	Ø45	788	10.738	122.0	50	1800			●	●	●	●	●
S07	2	16.79	Ø50	889	10.371	104.2	50	1800					●	●	●
S07	2	16.79	Ø45	889	10.371	104.2	50	1800					●	●	●
S07	2	17.42	Ø50	919	10.356	100.5	50	1800			●	●	●	●	●
S07	2	17.42	Ø45	919	10.356	100.5	50	1800			●	●	●	●	●
S07	2	20.63	Ø50	1036	9.864	84.8	50	1800			●	●	●	●	●
S07	2	20.63	Ø45	1036	9.864	84.8	50	1800			●	●	●	●	●
S07	2	23.8	Ø50	1143	9.452	73.5	50	1800			●	●	●	●	●
S07	2	23.8	Ø45	1143	9.452	73.5	50	1800			●	●	●	●	●
S07	2	27.98	Ø50	1219	8.592	62.5	50	1800	●	●	●	●	●	●	●
S07	2	27.98	Ø45	1219	8.592	62.5	50	1800	●	●	●	●	●	●	●
S07	2	33.83	Ø50	1269	7.424	51.7	50	1800	●	●	●	●	●	●	●
S07	2	33.83	Ø45	1269	7.424	51.7	50	1800	●	●	●	●	●	●	●
S07	2	41.73	Ø50	1021	5.049	41.9	50	1800					●	●	●
S07	2	41.73	Ø45	1021	5.049	41.9	50	1800					●	●	●
S07	2	43.28	Ø50	1058	5.042	40.4	50	1800			●	●	●	●	●
S07	2	43.28	Ø45	1058	5.042	40.4	50	1800			●	●	●	●	●
S07	2	51.25	Ø50	1201	4.858	34.1	50	1800			●	●	●	●	●
S07	2	51.25	Ø45	1201	4.858	34.1	50	1800			●	●	●	●	●
S07	2	59.13	Ø50	1307	4.601	29.6	50	1800			●	●	●	●	●
S07	2	59.13	Ø45	1270	4.471	29.6	50	1800			●	●	●	●	●
S07	2	69.52	Ø50	1355	4.079	25.2	50	1800	●	●	●	●	●	●	●
S07	2	69.52	Ø45	1270	3.823	25.2	50	1800	●	●	●	●	●	●	●
S07	2	84.05	Ø50	1400	3.506	20.8	50	1800	●	●	●	●	●	●	●
S07	2	84.05	Ø45	1270	3.180	20.8	50	1800	●	●	●	●	●	●	●
S07	2	92.89	Ø50	1087	2.653	18.8	50	1800			●	●	●	●	●
S07	2	92.89	Ø45	1087	2.653	18.8	50	1800			●	●	●	●	●
S07	2	108.91	Ø50	1457	2.852	16.1	50	1800	●	●	●	●	●	●	●
S07	2	108.91	Ø45	1270	2.486	16.1	50	1800	●	●	●	●	●	●	●
S07	2	126.92	Ø50	1348	2.448	13.8	50	1800			●	●	●	●	●
S07	2	126.92	Ø45	1270	2.306	13.8	50	1800			●	●	●	●	●
S07	2	138.77	Ø50	1502	2.330	12.6	50	1800	●	●	●	●	●	●	●
S07	2	138.77	Ø45	1270	1.970	12.6	50	1800	●	●	●	●	●	●	●
S07	2	149.22	Ø50	1395	2.176	11.7	50	1800	●	●	●	●	●	●	●
S07	2	149.22	Ø45	1270	1.981	11.7	50	1800	●	●	●	●	●	●	●
S07	2	165.46	Ø50	1541	2.029	10.6	50	1800	●	●	●	●	●	●	●
S07	2	165.46	Ø45	1270	1.672	10.6	50	1800	●	●	●	●	●	●	●
S07	2	180.4	Ø50	1444	1.889	9.7	50	1800	●	●	●	●	●	●	●
S07	2	180.4	Ø45	1270	1.661	9.7	50	1800	●	●	●	●	●	●	●
S07	2	214.32	Ø50	1561	1.610	8.2	50	1800	●	●	●	●			
S07	2	214.32	Ø45	1270	1.310	8.2	50	1800	●	●	●	●			
S07	2	233.75	Ø50	1501	1.544	7.5	50	1800	●	●	●	●	●	●	●
S07	2	233.75	Ø45	1270	1.306	7.5	50	1800	●	●	●	●	●	●	●
S07	2	297.85	Ø50	1505	1.242	5.9	50	1800	●	●	●	●	●	●	●
S07	2	297.85	Ø45	1270	1.048	5.9	50	1800	●	●	●	●	●	●	●
S07	2	355.14	Ø50	1512	1.066	4.9	50	1800	●	●	●	●	●	●	●
S07	2	355.14	Ø45	1270	0.895	4.9	50	1800	●	●	●	●	●	●	●
S07	2	460	Ø50	1542	0.860	3.8	50	1800	●	●	●	●			

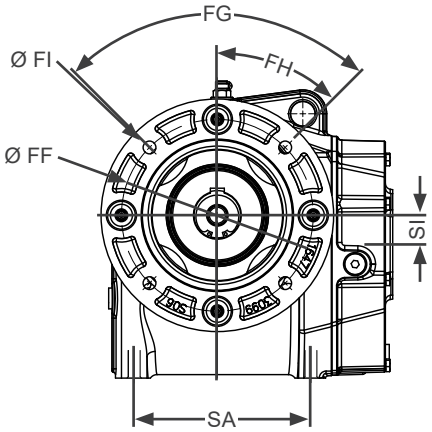
8 DIMENSIONAL DRAWINGS



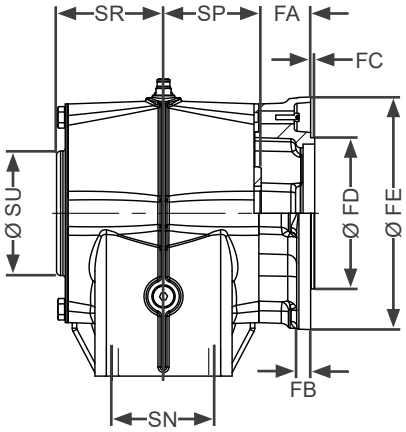
Side view - massive core



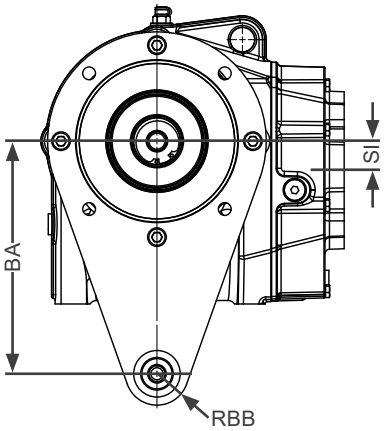
Front view - massive



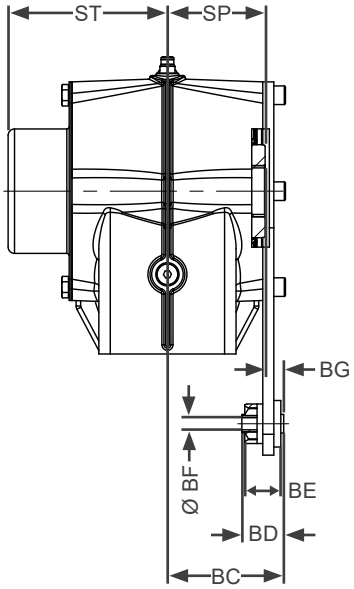
Side view - with flange



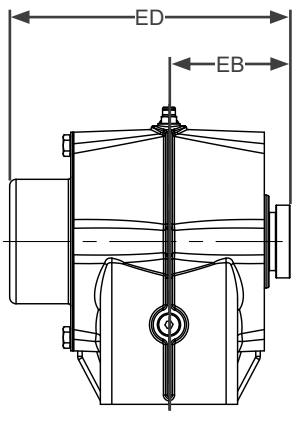
Front view - with flange



Side view - with torque arm



Front view - with torsional bracing



Front View - with EasyLock

Sizes

Sizes	Side view												
	SA	SB	SC	SD	SE	SF	SG	SH	SI	ØSJ	SK	SL	ØSM
S03	63	35	80	146	58.5	109	-	-	4	90	(4x)90°	M6x12	-
S04	87	35	100	167	68	123	-	-	10	105	(6x)60°	M8x16	-
S05	117	58.5	112	197.5	75	124	-	-	18	130	(6x)60°	M8x16	-
S06	152	71.5	140	248	100	151.5 (1) / 161.5 (2)	73.5	87.5	25	165	(4x)90°	M10x21.5	21
S07	170	85	180	306	119	176.5 (1) / 186.5 (2)	90.5	101.5	23	195	(4x)90°	M12x19.8	25

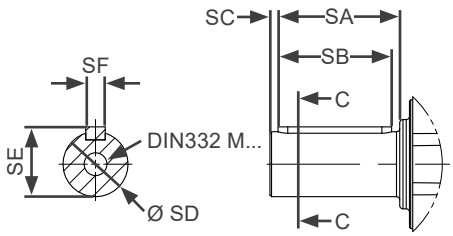
(1) With FC120 at the input
(2) With FC160 at the input.

Sizes	Front View							
	SN	SO	SP	SQ	SR	SS	ST	ØSU
S03	90	M8x16	1.5	60	70.5	58.5	88	64
S04	60	M8x24	1.5	60	67.5	58.5	96.5	85
S05	60	M10x21.5	2	75	82	73	117.5	87
S06	88	M12x19.8	2	84	92	82	137	107
S07	102	M16x34.5	4	105	113	101	175	122

Sizes	Flange								
	FA	FB	FC	ØFD	ØFE	ØFF	FG	FH	ØFI
S03	15	8.5	3	80j6	120	100	(4x)90°	45°	6.6
		9	3.5	110j6	160	130			9
S04	24	10.5	3.5	110j6	160	130	(4x)90°	45°	9
S05	25	13.5	3.5	130j6	200	165	(4x)90°	45°	11
S06	42.5	12	3.5	130j6	200	165	(4x)90°	45°	11
S07	45.5	15	4	180j6	250	215	(4x)90°	45°	13.5

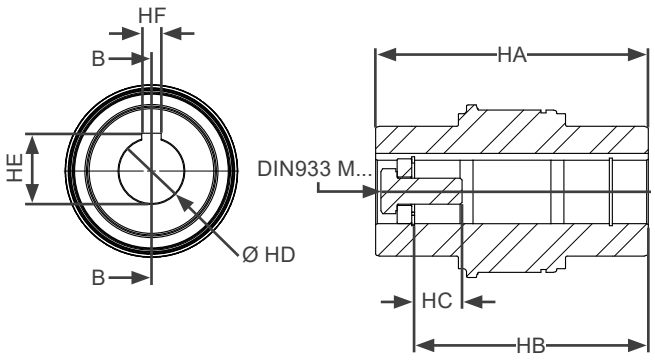
Sizes	Torsion Arm						
	BA	BB	BC	BD	BE	ØBF	BG
S03	110	18	83	36	34	10.4	23
S04	130	18	78	36	34	10.4	18
S05	160	19	90.5	36	34	10.4	15.5
S06	200	21	100	36	31	10.4	16
S07	250	27.5	133.5	60	54	16.4	28.5

Massive axis



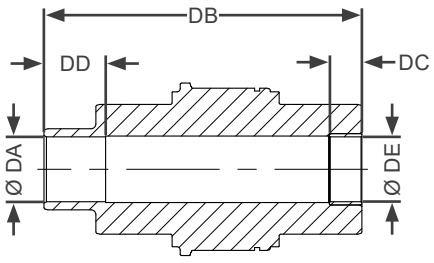
Section C-C ***Detail A***

Hollow Shaft Detail

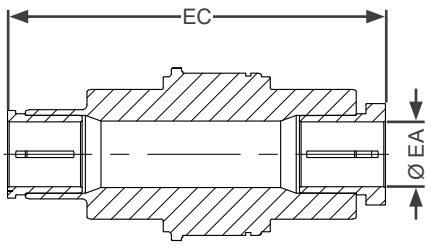


Section B-B

Detail: Contraction Disc Shaft



Shaft Detail - EasyLock



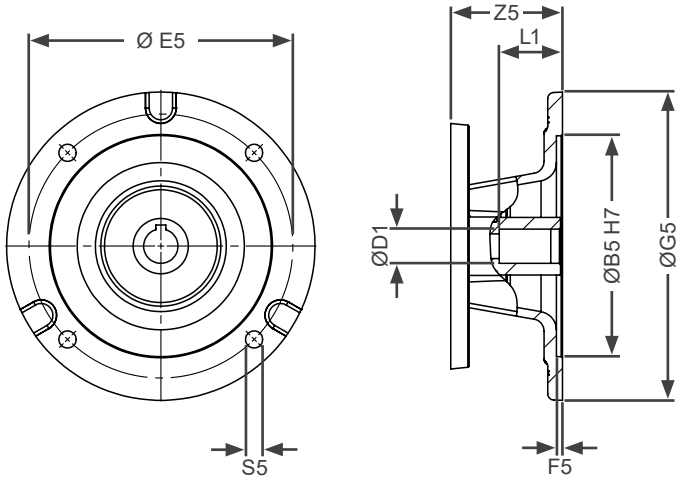
Sizes	Hollow Shaft						
	HA	HB	HC	ØHD	DIN933 M...	HE	HF
S03	120	104	10	20H7	M6x16	22.8	6
S04	120	105	17	25H7	M10x25	28.3	8
	120	105	17	30H7	M10x25	33.3	8
S05	150	132	22	30H7	M12x25	33.3	8
	150	132	22	35H7	M12x30	38.3	10
S06	168	144	29	40H7	M16x40	43.3	12
	168	144	29	45H7	M16x40	48.8	14
S07	210	183	32	50H7	M16x45	53.8	14
	210	183	36	60H7	M20x50	64.4	18

Sizes	Solid Shaft						
	SA	SB	SC	ØSD	DIN332 M...	SE	SF
S03	40	32	4	20k6	M6	22.5	6
S04	50	40	5	25k6	M10	28	8
S05	60	50	5	30k6	M10	33	8
S06	70	56	7	35k6	M12	38	10
	80	70	5	40k6	M16	43	12
S07	90	80	5	45k6	M16	48.5	14
	100	80	10	50k6	M16	53.5	14

Sizes	EasyLock Shaft			
	ØEA	EB	EC	ED
S03	-	-	-	-
S04	30	76	170	172.5
S05	35	93	207	210.5
S06	40	104	233	241
S07	50	128	295	303

Sizes	Shaft Disc Contraction				
	ØDA	DB	DC	DD	ØDE
S03	20H7	139	20	17	20
S04	30H7	146	20	24	30
S05	35H7	177	20	24	35
S06	40H7	196	20	38	40
S07	50H7	241	30	36	50

8.1 IEC ADAPTER



Type	IEC63	IEC71	IEC80	IEC90	IEC100	IEC112	IEC132	IEC160	IEC180
B5	95	110	130	130	180	180	230	250	250
E5	115	130	165	165	215	215	265	300	300
F5	4.5	4.5	4.5	4.5	5	5	6	6	6
G5	160	160	200	200	250	250	300	350	350
S5	M8	M8	12	12	14	14	15	19	19
D1	11	14	19	24	28	28	38	42	48
L1	23	30	40	50	60	60	80	110	110

Sizes		IEC63	IEC71	IEC80	IEC90	IEC100	IEC112	IEC132
S03	**Z5**	32	32	60	60	-	-	-
S04		32	32	60	60	91	-	-
S05		32	32	60	60	91	-	-
S06		32	32	60	60	91	81.5	101.5
S07		32	32	60	60	91	81.5	101.5

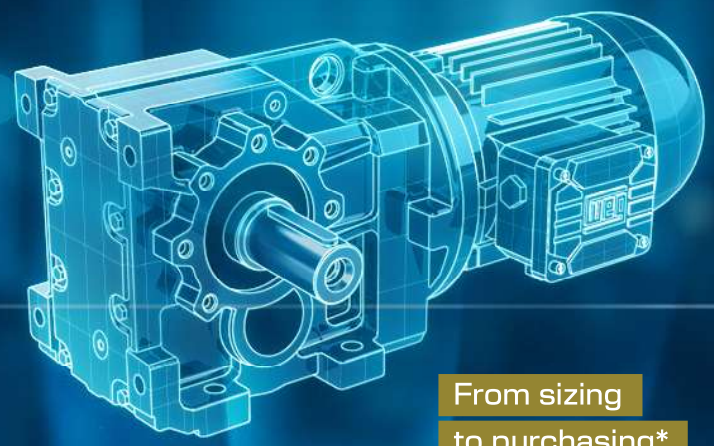
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