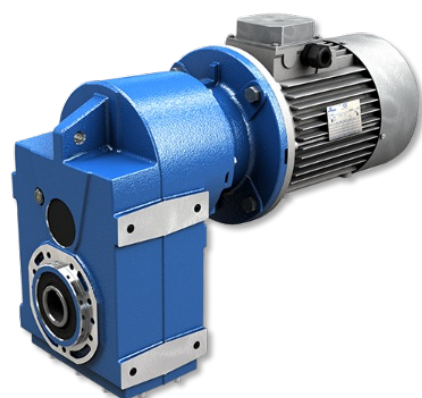


# TECHNICAL CATALOGUE



## SHAFTMOUNTED GEARED MOTORS

STANDARD **IEC**



## 1. GENERAL INFORMATION

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## 1.1 SYMBOLS AND FORMULAS

## 1.1.1 Symbols

| Physical dimension  | Symbol           | Symbol units of measure | Input           | Output          |
|---------------------|------------------|-------------------------|-----------------|-----------------|
| Power               | P                | [kW]                    | P <sub>1</sub>  | P <sub>2</sub>  |
| Requested power     | Pr               | [kW]                    | Pr <sub>1</sub> | Pr <sub>2</sub> |
| Nominal power       | Pn               | [kW]                    | Pn <sub>1</sub> | Pn <sub>2</sub> |
| Torque              | M                | [Nm]                    | M <sub>1</sub>  | M <sub>2</sub>  |
| Nominal torque      | Mn               | [Nm]                    |                 | Mn <sub>2</sub> |
| Requested torque    | Mr               | [Nm]                    | Mr <sub>1</sub> | Mr <sub>2</sub> |
| Speed               | n                | [rpm]                   | n <sub>1</sub>  | n <sub>2</sub>  |
| Force               | F                | [N]                     |                 |                 |
| Radial load         | Fr               | [N]                     | Fr <sub>1</sub> | Fr <sub>2</sub> |
| Axial load          | Fa               | [N]                     | Fa <sub>1</sub> | Fa <sub>2</sub> |
| Reduction ratio     | i                |                         |                 |                 |
| Dynamic efficiency  | η <sub>d</sub>   |                         |                 |                 |
| Service factor      | f.s.             |                         |                 |                 |
| Static              | s                |                         |                 |                 |
| Dynamic             | d                |                         |                 |                 |
| Calculated          | c                |                         |                 |                 |
| Maximum             | max              |                         |                 |                 |
| Minimum             | min              |                         |                 |                 |
| Moment of inertia   | J                | [kgm <sup>2</sup> ]     | J <sub>1</sub>  |                 |
| Ambient temperature | T <sub>amb</sub> | [°C]                    |                 |                 |
| Dimension           |                  | [mm]                    |                 |                 |

## 1.1 SYMBOLS AND FORMULAS

## 1.1.2 Formulas

| REDUCER                                                                                                     |                                                    |                       |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------|
| Starting or stopping time                                                                                   | $t = v / a$                                        | [s]                   |
| Velocity in rotary motion                                                                                   | $v = \pi * d * n / 60$<br>$v = \omega * r$         | [m/s]                 |
| Speed velocity<br>Angular velocity                                                                          | $n = 60 * v / (\pi * d)$<br>$\omega = v / r$       | [rpm]<br>[rad/s]      |
| Acceleration or deceleration according to a starting / stopping time                                        | $a = v / t$                                        | [m/s <sup>2</sup> ]   |
| Angular acceleration                                                                                        | $\alpha = n / (9,55 * t)$<br>$\alpha = \omega / t$ | [rad/s <sup>2</sup> ] |
| Starting or stopping distance (according to acceleration / deceleration or angular velocity)                | $s = a * t^2 / 2$<br>$s = v * t / 2$               | [m]                   |
| Horizontal translation force                                                                                | $F = \mu * m * g$                                  | [N]                   |
| Vertical translation force (lifting)                                                                        | $F = m * g$                                        |                       |
| Inclined plane translation force                                                                            | $F = m * g (\mu * \cos\beta + \sin\beta)$          |                       |
| m= mass [kg]; g= gravity acceleration [m/s <sup>2</sup> ]; μ= friction coefficient; β= angle of inclination |                                                    |                       |
| Moment of inertia                                                                                           | $J = m * v^2 / \omega^2$                           | [kgm <sup>2</sup> ]   |
| Torque                                                                                                      | $M = F * d / 2$<br>$M = J * \omega / t$            | [Nm]                  |

| MOTOR and GEARMOTOR                                |                                                         |       |
|----------------------------------------------------|---------------------------------------------------------|-------|
| Starting time                                      | $t_a = (J_{ext} + J_m) * n_n / 9,55 + (M_{peak} - M_r)$ | [s]   |
| Braking time                                       | $t_s = (J_{ext} + J_m) * n_n / 9,55 + (M_{peak} + M_r)$ | [s]   |
| Motor rotation angle during starting               | $\varphi = n_n * t_a / 19,1$                            | [rad] |
| Motor rotation angle during braking                | $\varphi = n_n * t_s / 19,1$                            | [rad] |
| Power available at the shaft of single phase motor | $P = V * I * \eta * \cos\omega$                         | [W]   |
| Power available at the shaft of three phase motor  | $P = 1,73 * V * I * \eta * \cos\omega$                  | [W]   |

| RUNNING at 60Hz                                                                                                                                          |                                                         |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------|
| Speed velocity at 60Hz                                                                                                                                   | $n_{60Hz} = 1,2 * n_{50Hz}$                             | [rpm] |
| Power at 60Hz                                                                                                                                            | $P_{60Hz} = P_{50Hz} * V_{60Hz} / V_{50Hz}$             | [kW]  |
| If input voltage at 60 Hz ( $V_{60Hz}$ ) corresponds to winding voltage at 50 Hz ( $V_{50Hz}$ ), power doesn't change<br>$P_{60Hz} = P_{50Hz}$           |                                                         |       |
| If input voltage at 60 Hz ( $V_{60Hz}$ ) is 20% higher than winding voltage at 50 Hz ( $V_{50Hz}$ ), power increases by 20%<br>$P_{60Hz} = 1,2 P_{50Hz}$ |                                                         |       |
| Torque at 60Hz                                                                                                                                           | $M_{60Hz} = M_{50Hz} * P_{60Hz} / (1,2 * P_{50Hz})$     | [Nm]  |
| Service factor at 60Hz                                                                                                                                   | $f.s_{60Hz} = f.s_{50Hz} * 1,175 * P_{50Hz} / P_{60Hz}$ | -     |

For correctly selecting a gear reducer or geared motor, several essential pieces of data are required:

- A. The rotational input speed to the gear reducer ( **$n_1$** ) and the rotational output speed ( **$n_2$** ). Through these two values it is possible to calculate the reduction ratio ( **$i$** ) of the gear reducer using the following formula:  **$i = n_1/n_2$**
- B. The torque required by the application ( **$M_{r2}$** ).

The geared motor or gear reducer can be selected once this data is known.

This guide helps you to select the right product in just a few steps:

#### Geared motor selection

1. Determine the application's actual service factor (**s.f.**). This parameter depends on the type of load of the powered machine, the number of starts per hour and the hours of operation (refer to the "Service factor" paragraph).
2. Calculate the input power  **$P_{r1}$**  using the required torque value  **$M_{r2}$** , the speed  **$n_2$**  and dynamic efficiency value.  **$P_{r1} = (M_{r2} \cdot n_2) / (9550 \cdot \eta_d)$** . The dynamic efficiency value depends on the type of gear reducer and on the number of gear reduction stages. (To calculate the efficiency value see its page).
3. Consult the geared motor performance tables and identify a normalised power value  **$P_{n1}$**  exceeding the required power  **$P_{r1}$** , such that:  **$P_{n1} \geq P_{r1}$**
4. Once the suitable nominal power has been identified, select the geared motor capable of generating the rotational speed closest to the desired  **$n_2$**  value and with service factor s.f. greater or equal to that required by the application.

In the geared motor selection tables the combinations include 2-pole, 4-pole and 6-pole motors powered at 50Hz.

#### Gear reducer selection

1. Determine the application's service factor (**s.f.**) (consult to the "Service factor" paragraph on its page) .
2. Calculate the reduction ratio  **$i$**  from the requested output speed  **$n_2$**  and from the input speed  **$n_1$** .  **$i = n_1/n_2$**
3. Calculate the torque  **$M_{c2}$**  for selecting the gear reducer through the torque required by the application  **$M_{r2}$**  and the service factor s.f.:  **$M_{c2} = M_{r2} \cdot (f.s.)$**
4. Consult the Gear Reducer Performance tables looking for the reducer that, with the reduction ratio closer to the calculated one, has a nominal torque  **$M_{n2}$**  so that:  **$M_{n2} \geq M_{c2}$**

#### Checks

Once the gear reducer or geared motor has been selected, the following checks should be performed:

##### A. Thermal power

The gear reducer's thermal power must be equal to or greater than the installed mechanical power, or the power required by the application according to the indications contained in the section (refer to the "Thermal power" paragraph).

##### B. Maximum torque

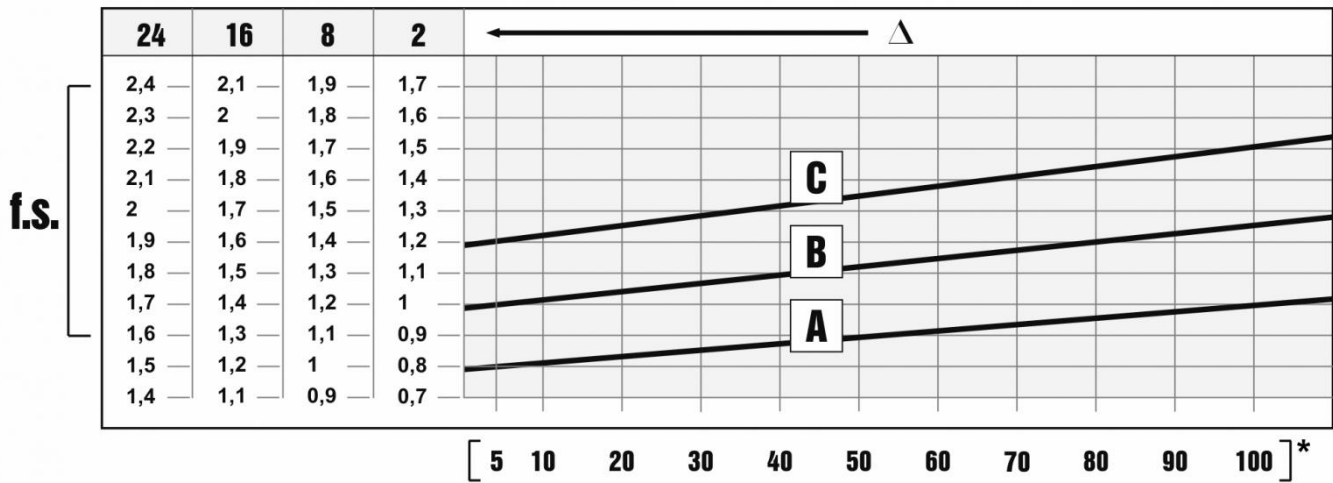
Generally, the maximum torque (peak instantaneous load) that can be applied to the gear reducer must not exceed 200% of the nominal torque  **$M_{n2}$**  (ATEX -  $M_{2max}$ ).

##### C. Radial loads

1. Verify that the radial loads acting on the input and/or output shafts are within with the values indicated in the catalogue. If they exceed these values, increase the size of the gear reducer or modify the external load capacity. During the checking phase, it is important to remember that the values indicated in the catalogue refer to loads acting on the mid-point of the shaft protrusion, therefore, if the load is applied to a different position, appropriate formulas must be used to calculate the admissible load in the desired position (refer to the "Radial loads" paragraph).
2. If accessory output shafts are present, make sure that the applied load is compatible with shaft size. If help is needed: contact MOTOVARIO TECHNICAL SERVICE.

D. If an electric motor is going to be fitted to the selected gear reducer, check for its applicability by referring to the configuration table (see paragraph "Motor flange availability"). From IEC 180 motors, verify if necessary to support the motor with feet. In case of need please contact MOTOVARIO TECHNICAL SERVICE.

## 1.3 SERVICE FACTOR



The service factor (f.s.) depends on the operating conditions the gear reducer is subjected to.

The parameters that need to be taken into consideration to select the most adequate service factor correctly comprise:

- type of load of the operated machine : A - B - C
- length of daily operating time: hours/day (Δ)
- start-up frequency: starts/hour (\*)

**LOAD:**

- **A** - uniform =  $f_a \leq 0,3$
- **B** - moderate shocks =  $f_a \leq 3$
- **C** - heavy shocks =  $f_a \leq 10$

$$f_a = J_e / J_m$$

- $J_e$  [kgm<sup>2</sup>] moment of reduced external inertia at the drive-shaft
- $J_m$  [kgm<sup>2</sup>] moment of inertia of motor

If  $f_a > 10$  call our Technical Service.

- Screw feeders for light materials, fans, assembly lines, conveyor belts for light materials, small mixers, lifts, cleaning machines, fillers, control machines.
- Winding devices, woodworking machine feeders, goods lifts, balancers, threading machines, medium mixers, conveyor belts for heavy materials, winches, sliding doors, fertilizer scrapers, packing machines, concrete mixers, crane mechanisms, milling cutters, folding machines, gear pumps.
- Mixers for heavy materials, shears, presses, centrifuges, rotating supports, winches and lifts for heavy materials, grinding lathes, stone mills, bucket elevators, drilling machines, hammer mills, cam presses, folding machines, turntables, tumbling barrels, vibrators, shredders.

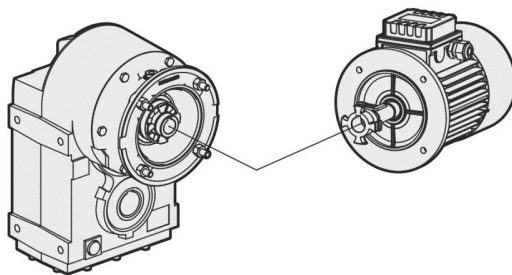
**To install the gear reducer it is necessary to note the following recommendations:**

- Check the correct direction of rotation of the gear reducer output shaft before fitting the unit to the machine.
- In the case of particularly lengthy periods of storage (4/6 months), if the oil seal is not immersed in the lubricant inside the unit, it is recommended to change it since the rubber could stick to the shaft or may even have lost the elasticity it needs to function properly.
- Whenever possible, protect the gear reducer against solar radiation and bad weather.
- Ensure the motor cools correctly by ensuring good passage of air from the fan side.
- In the case of ambient temperatures  $< -5^{\circ}\text{C}$  or  $> +40^{\circ}\text{C}$  call the Technical Service.
- The various parts (pulleys, gear wheels, couplings, shafts, etc.) must be mounted on the shafts using special threaded holes or other systems that anyhow ensure correct operation without risking damage to the bearings or external parts of the units. Lubricate the surfaces in contact to avoid seizure or oxidation.
- Painting must definitely not go over rubber parts and the holes on the breather plugs, if any.
- For units equipped with oil plugs, replace the closed plug used for shipping with the special breather plug.
- Check the correct level of the lubricant through the indicator, if there is one.
- Starting must take place gradually, without immediately applying the maximum load.
- When there are parts, objects or materials under the motor drive that can be damaged by even limited spillage of oil, special protection should be fitted.

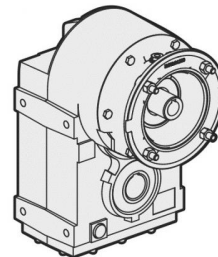
#### **Assembling motor on pam flange**

When the unit is supplied without motor, it is necessary to follow these recommendation to ensure the correct assembly of the electric motor. Check that the tolerances for the motor shaft and flange correspond to the "standard". Carefully clean the shaft, spigot and surfaces of the flange removing traces of paint and dirt, and confirm the key is fitted correctly. Fit the half coupling/sleeve to the motor shaft (see picture) taking care to ensure the motor shaft and bearings are not damaged by avoiding excessive force and where necessary using assembly equipment. Place the couplings elastic element onto the motor half coupling and position the motor up to the gear unit ensuring the coupling element is aligned with the driven half coupling. Complete the assembly using the fixing bolts. Key-ways with tightened tolerances.

**Flexible joint**



**PAM Sleeve**



Motovario products are supplied with the following surface treatment features:

**Grey-coloured cast-iron cases for gears**

- Die-cast materials are always painted.

**Painting specifications:**

- Orange-peel blue epoxy-polyester RAL 5010. Polyester resin based heat-hardening powders, altered with epoxy resins.

**Mechanical properties**

- Tests carried out onto degreased Unichim white lattens (film thickness: 60 microns) comply with the following specifications: adherence (ISO2409).

**Heat resistance**

- 24 HOURS AT 150°C.

**Corrosion strength**

- ASTM B 117/97 salt fog from 100 to 500 hours depending on the support's preliminary treatment.

**Performance:**

- Loading capacity in accordance with DIN 3990, ISO 6336, AGMA 2101, ISO 10300, DIN 3991, ISO 281, DIN 743.

**Efficiency  $\eta$ :**

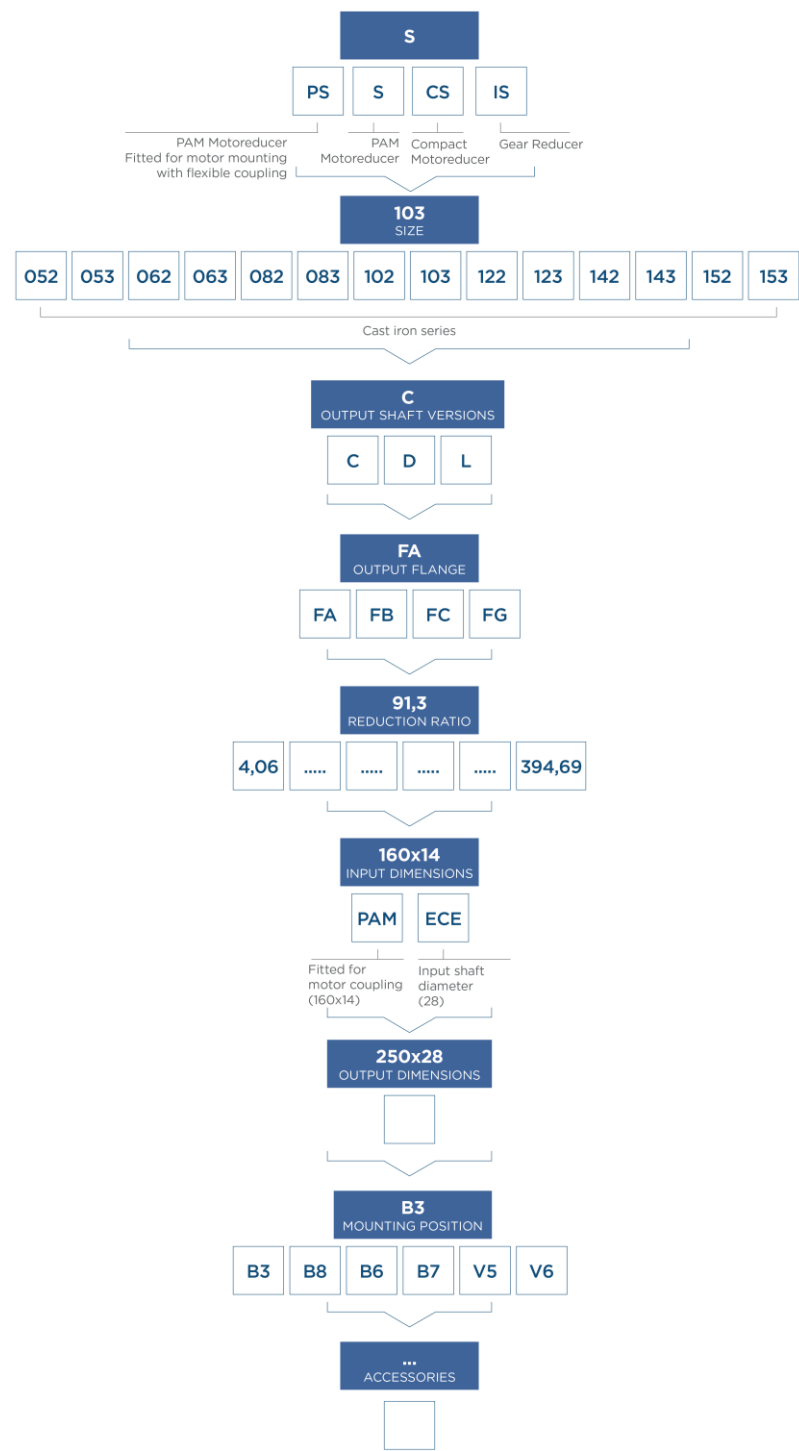
- The efficiency is the ratio between the output power  $P_2$  and the power absorbed by the gear reducer  $P_1$ :  $\eta = P_2 / P_1$ .

S-range shaft-mounted reducers have an average value equal to:

S..2 stages = 0,96

S..3 stages = 0,94

2.2.1 Designation

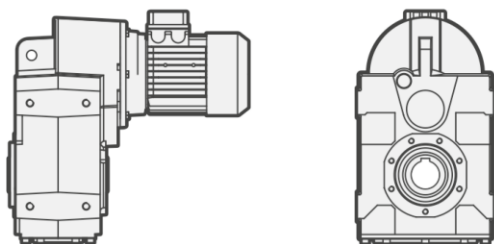


## 2.2 TYPOLOGY

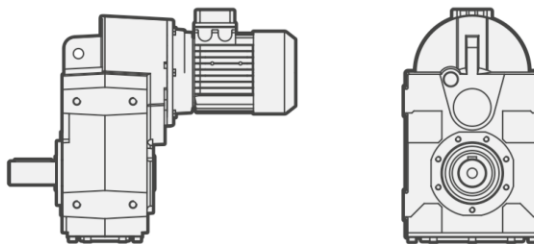
### 2.2.2 Versions

S... C - S... D - S... L

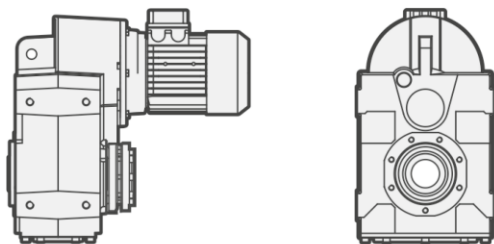
**S... C** FOOT-FLANGE MOUNTING / HOLLOW SHAFT



**S... D** FOOT-FLANGE MOUNTING / D SOLID SHAFT

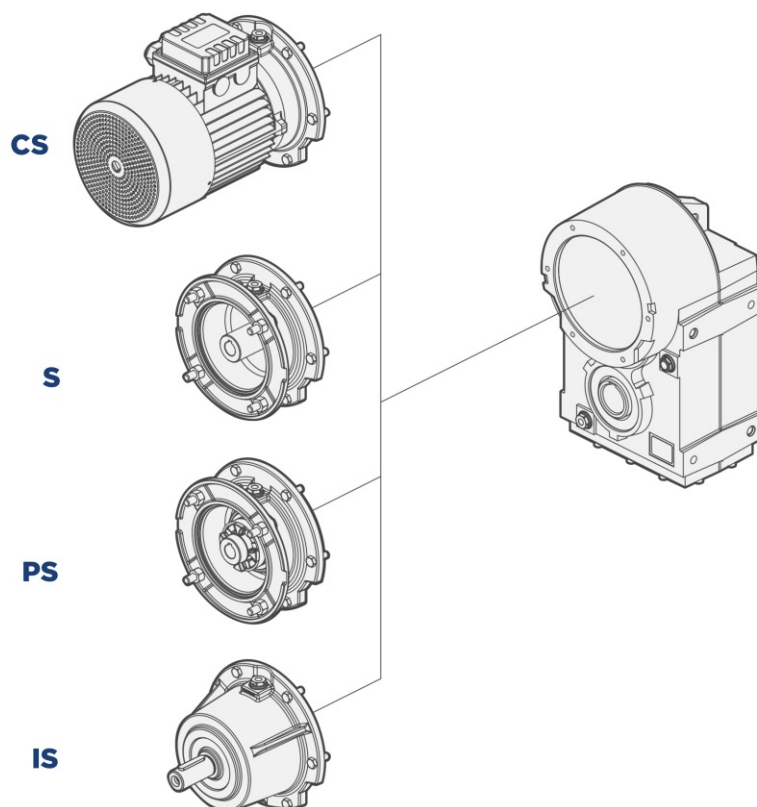


**S... L** FOOT-FLANGE MOUNTING / SHRINK DISC SHAFT



## 2.2.3 Modularity

## S GREY CAST IRON SERIES

**CS**

Compact electric motor versions

**PS**

Fitted for motor mounting  
with flexible coupling

**S**

Fitted for motor coupling version  
(PAM)

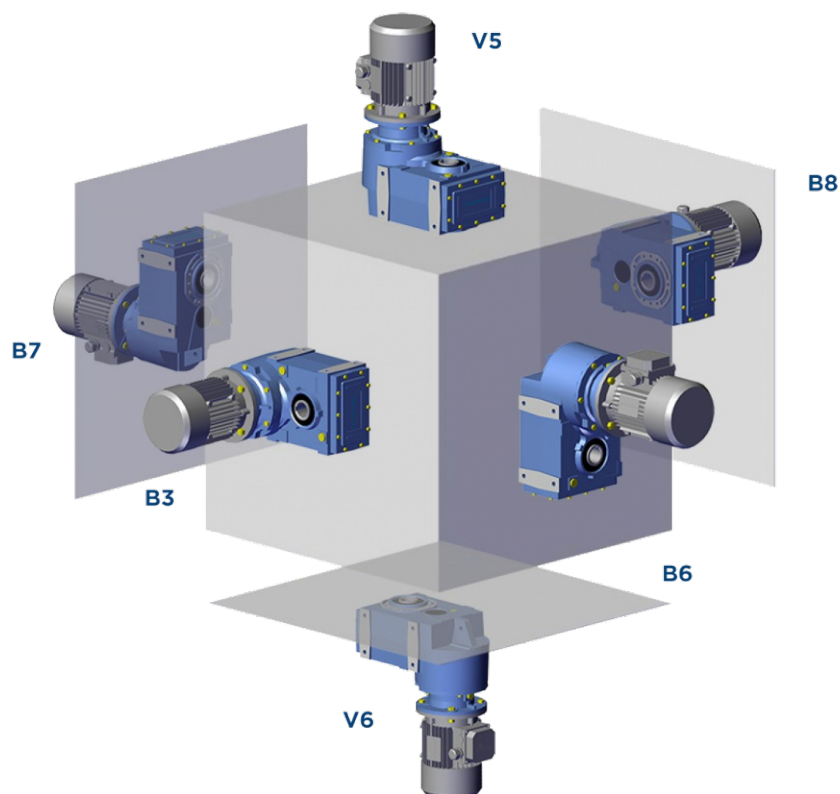
**IS**

Input shaft versions

## 2.3 MOUNTING POSITIONS

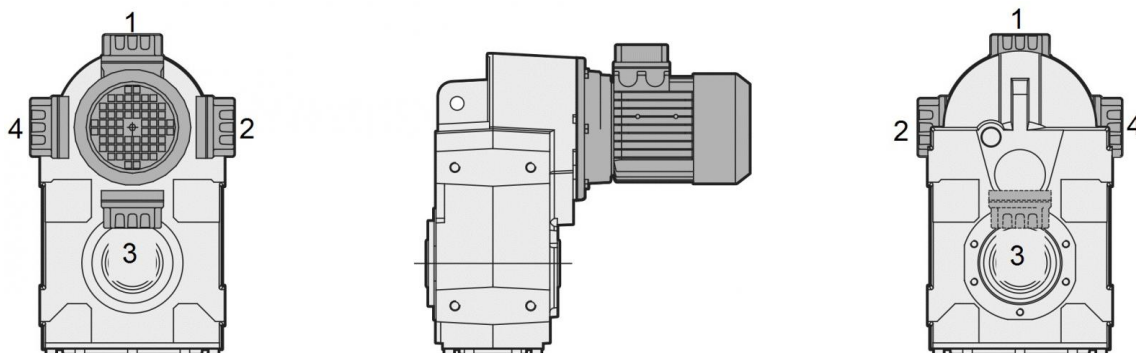
### 2.3.1 Mounting positions

The mounting position of the gear unit identifies its space orientation. B3 mounting position, as from a technical point of view, ensures lower oil splash, better lubrication and less heating.



### 2.3.2 Position of terminal box

Unless otherwise specified when ordering, the gear reducer is supplied with terminal box in position 1.



## 2.4 THERMAL POWER

### 2.4.1 Information

The scheme below indicates the nominal thermal power capacity  $P_{th}$  [kW] according to the following conditions:

- mounting position B3
- continuous operation at input speed  $\leq 1500$  rpm
- environment temperature  $T_{amb}=25^{\circ}\text{C}$
- sea level altitude
- air speed around the gear reducer  $\geq 1\text{m/s}$
- absence of external radial and/or axial loads

| $n_1=1500\text{rpm}$ |               |
|----------------------|---------------|
|                      | $P_{th}$ [kW] |
| S052                 | 7             |
| S062                 | 9,5           |
| S082                 | 15,5          |
| S102                 | 20,5          |
| S122                 | 34,5          |
| S142                 | 53            |
| S152                 | 65            |

**A correct lubrication and a proper running condition of the gearbox are guaranteed only applying an input power not exceeding  $P_{th}$  (at the above reference conditions)( $T_{oil\ max}=95^{\circ}\text{C}$ ).**

NOTE: Normally, three stages gearboxes do not require thermal power verification because the thermal rating usually exceed the mechanical one.

### 2.4.2 Verification

#### Application check

Except for continuous operating times below two hours and successive pauses capable of bringing the gear reducer back to ambient temperature, for each application it is peremptory to verify the gear reducer's thermal limit according to the following formula:  $P_1 < P_{th} * F_c * F_v * F_a$ , where:

- $P_1$  = input power to the gear reducer [kW]
- $P_{th}$  = thermal power at the reference conditions [kW] (see above table)
- $F_c$  = ambient and operating temperature correction factor
- $F_v$  = ventilation correction factor
- $F_a$  = altitude correction factor

The correction factors refer to different operating conditions compared to the reference conditions, and are provided by the following ISO14179 tables:

|                                        | $F_c$ | Duty per hour of operation % |      |      |      |      |
|----------------------------------------|-------|------------------------------|------|------|------|------|
|                                        |       | 100                          | 80   | 70   | 40   | 20   |
| Ambient temperature $^{\circ}\text{C}$ | 10    | 1,15                         | 1,21 | 1,32 | 1,55 | 2,07 |
|                                        | 18    | 1,07                         | 1,12 | 1,23 | 1,44 | 1,93 |
|                                        | 25    | 1,00                         | 1,05 | 1,15 | 1,35 | 1,80 |
|                                        | 30    | 0,93                         | 0,98 | 1,07 | 1,26 | 1,67 |
|                                        | 40    | 0,83                         | 0,87 | 0,95 | 1,12 | 1,49 |
|                                        | 43    | 0,75                         | 0,79 | 0,86 | 1,01 | 1,35 |
|                                        | 50    | 0,67                         | 0,70 | 0,77 | 0,90 | 1,21 |

| Altitude (m) | $F_a$ |
|--------------|-------|
| 0*           | 1     |
| 750          | 0,95  |
| 1500         | 0,9   |
| 2250         | 0,85  |
| 3000         | 0,81  |

| Ventilation correction factor                           | $F_v$ |
|---------------------------------------------------------|-------|
| Stagnant air ( $<0,5$ m/s)                              | 0.75  |
| Indoor installation with slight ventilation             | 1     |
| Indoor installation with good ventilation ( $>1,4$ m/s) | 1.4   |
| Installazione all'aperto ( $>3,7$ m/s)                  | 1.9   |

\*Sea level

In case of operation at input speeds exceeding 2000 rpm, or ambient temperatures greater than  $40^{\circ}\text{C}$ , it is advisable to contact out technical department.

## 2.5.1 Critical applications

| S                            | 050 | 060 | 080 | 100 | 125 | 140 | 150 |
|------------------------------|-----|-----|-----|-----|-----|-----|-----|
| 2000 < n <sub>1</sub> < 3000 | ✓   | ✓   | ✓   | ✓   | ✓   | B   | B   |
| V6                           | B   | B   | B   | B   | B   | B   | B   |
| n <sub>1</sub> > 3000        | B   | B   | B   | B   | B   | A   | A   |
| ...L : V5 - V6               | B   | B   | B   | B   | B   | B   | B   |
| (*) ...L                     | B   | B   | B   | B   | B   | B   | B   |

✓ Verified application

A Application not recommended

B Check the application and/or call our technical service

(\*) The shrink disc is designed only to transmit the output torque.

In case of mounting position with radial and/or axial loads, please contact the technical support.

## 2.5.2 Information

The performance given in the catalogue correspond to mounting position B3 or similar, when the first stage is not entirely immersed in oil. For other mounting positions and/or particular input speeds, refer to the tables that highlight different critical situations for each size of gear reducer. It is also necessary to take due consideration of and carefully assess the following applications by calling our Technical Service:

- To avoid the use as multiplier.
- Use in services that could be hazardous for people if the gear reducer fails.
- Applications with especially high inertia.
- Use as a lifting winch.
- Applications with high dynamic strain on the case of the gear reducer.
- In places with T<sub>amb</sub> under -5°C or over 40°C.
- Use in chemically aggressive environments.
- Use in a salty environment.
- Mounting positions not envisaged in the catalogue.
- Use in radioactive environments.
- Use in environments pressures other than atmospheric pressure.

Avoid applications where even partial immersion of the reducer is required.

In the presence of overloading due to full load, braking, shocks or other static and dynamic causes, please verify that the peak torque is less than 2\*Mn<sub>2</sub>.

## 2.6 MOTOR FLANGE AVAILABILITY

**B11** = Compact electric motor versions.

These tables report all possible dimensions. Please verify service factor.

\*For motor size 063 the PS version does not exist.

| CS - S - PS 052 |        |        |        |         |
|-----------------|--------|--------|--------|---------|
| i               | 071    | 080    | 090    | 100-112 |
| 8,63            | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 11,14           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 12,00           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 13,66           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 15,27           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 16,29           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 18,63           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 19,73           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 21,04           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 21,53           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 24,07           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 25,20           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 25,79           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 27,81           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 30,00           | B5-B11 | B5-B11 | B5-B11 |         |
| 32,55           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 33,00           | B5-B11 | B5-B11 | B5-B11 |         |
| 34,09           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 36,55           | B5-B11 | B5-B11 | B5-B11 |         |
| 38,75           | B5-B11 | B5-B11 | B5-B11 |         |
| 39,90           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 42,63           | B5-B11 | B5-B11 | B5-B11 |         |
| 46,00           | B5-B11 | B5-B11 | B5-B11 |         |
| 47,20           | B5-B11 | B5-B11 | B5-B11 |         |
| 52,25           | B5-B11 | B5-B11 | B5-B11 |         |
| 57,86           | B5-B11 | B5-B11 | B5-B11 |         |
| 59,42           | B5-B11 | B5-B11 | B5-B11 |         |
| 72,83           | B5-B11 | B5-B11 | B5-B11 |         |

| CS - S - PS 053 |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| i               | *063   | 071    | 080    | 090    |
| 36,50           | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 47,14           | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 57,79           | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 63,74           | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 78,14           | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 74,20           | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 95,84           | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 117,48          | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 137,45          | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 177,55          | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 198,45          | B5-B11 | B5-B11 | B5-B11 |        |
| 217,64          | B5-B11 | B5-B11 | B5-B11 | B5-B11 |
| 256,33          | B5-B11 | B5-B11 | B5-B11 |        |
| 314,21          | B5-B11 | B5-B11 | B5-B11 |        |

## 2.6 MOTOR FLANGE AVAILABILITY

| CS - S - PS 062 |        |        |        |         |
|-----------------|--------|--------|--------|---------|
| i               | 071    | 080    | 090    | 100-112 |
| 8,00            |        | B5-B11 | B5-B11 | B5-B11  |
| 8,92            |        | B5-B11 | B5-B11 | B5-B11  |
| 9,55            |        | B5-B11 | B5-B11 | B5-B11  |
| 10,65           |        | B5-B11 | B5-B11 | B5-B11  |
| 11,71           |        | B5-B11 | B5-B11 | B5-B11  |
| 13,06           |        | B5-B11 | B5-B11 | B5-B11  |
| 13,36           |        | B5-B11 | B5-B11 | B5-B11  |
| 15,94           |        | B5-B11 | B5-B11 | B5-B11  |
| 16,16           |        | B5-B11 | B5-B11 | B5-B11  |
| 19,29           |        | B5-B11 | B5-B11 | B5-B11  |
| 19,55           |        | B5-B11 | B5-B11 | B5-B11  |
| 23,18           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 23,75           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 25,14           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 27,66           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 30,00           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 33,93           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 36,57           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 39,38           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 43,64           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 46,10           | B5-B11 | B5-B11 | B5-B11 |         |
| 48,30           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 53,53           | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 55,00           | B5-B11 | B5-B11 | B5-B11 |         |
| 67,47           | B5-B11 | B5-B11 | B5-B11 |         |

| CS - S - PS 063 |        |        |        |
|-----------------|--------|--------|--------|
| i               | 071    | 080    | 090    |
| 33,57           | B5-B11 | B5-B11 | B5-B11 |
| 37,77           | B5-B11 | B5-B11 | B5-B11 |
| 40,05           | B5-B11 | B5-B11 | B5-B11 |
| 49,13           | B5-B11 | B5-B11 | B5-B11 |
| 55,29           | B5-B11 | B5-B11 | B5-B11 |
| 58,72           | B5-B11 | B5-B11 | B5-B11 |
| 65,85           | B5-B11 | B5-B11 | B5-B11 |
| 68,25           | B5-B11 | B5-B11 | B5-B11 |
| 73,63           | B5-B11 | B5-B11 | B5-B11 |
| 81,43           | B5-B11 | B5-B11 | B5-B11 |
| 99,89           | B5-B11 | B5-B11 | B5-B11 |
| 126,43          | B5-B11 | B5-B11 | B5-B11 |
| 150,85          | B5-B11 | B5-B11 | B5-B11 |
| 182,53          | B5-B11 | B5-B11 | B5-B11 |
| 185,05          | B5-B11 | B5-B11 | B5-B11 |
| 217,79          | B5-B11 |        |        |
| 267,16          | B5-B11 |        |        |

| CS - S - PS 082 |        |        |         |        |
|-----------------|--------|--------|---------|--------|
| i               | 080    | 090    | 100-112 | 132    |
| 7,34            | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 8,06            | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 9,94            | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 11,61           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 12,75           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 14,04           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 15,43           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 15,73           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 17,29           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 19,03           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 20,14           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 22,13           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 24,00           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 26,05           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 27,29           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 28,67           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 29,60           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 31,78           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 34,91           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 35,50           | B5-B11 | B5-B11 | B5-B11  |        |
| 40,05           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 43,05           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 50,25           | B5-B11 | B5-B11 | B5-B11  |        |
| 54,27           | B5-B11 | B5-B11 | B5-B11  |        |
| 61,98           | B5-B11 | B5-B11 | B5-B11  |        |

| CS - S - PS 083 |        |        |        |         |
|-----------------|--------|--------|--------|---------|
| i               | 071    | 080    | 090    | 100-112 |
| 67,52           |        | B5-B11 | B5-B11 | B5-B11  |
| 74,18           |        | B5-B11 | B5-B11 | B5-B11  |
| 81,71           |        | B5-B11 | B5-B11 | B5-B11  |
| 91,49           |        | B5-B11 | B5-B11 | B5-B11  |
| 100,62          |        | B5-B11 | B5-B11 | B5-B11  |
| 117,17          | B5-B11 | B5-B11 | B5-B11 |         |
| 128,73          | B5-B11 | B5-B11 | B5-B11 |         |
| 136,34          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 158,76          | B5-B11 | B5-B11 | B5-B11 |         |
| 184,88          | B5-B11 | B5-B11 | B5-B11 |         |
| 203,11          | B5-B11 | B5-B11 | B5-B11 |         |
| 205,34          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 226,04          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 250,50          | B5-B11 | B5-B11 | B5-B11 |         |
| 266,13          | B5-B11 | B5-B11 | B5-B11 |         |
| 292,36          | B5-B11 | B5-B11 | B5-B11 |         |
| 315,73          | B5-B11 | B5-B11 | B5-B11 |         |
| 360,58          | B5-B11 | B5-B11 | B5-B11 |         |

## 2.6 MOTOR FLANGE AVAILABILITY

| CS - S - PS 102 |        |        |         |        |     |
|-----------------|--------|--------|---------|--------|-----|
| i               | 080    | 090    | 100-112 | 132    | 160 |
| 8,06            | B5-B11 | B5-B11 | B5-B11  | B5-B11 | B5  |
| 8,85            | B5-B11 | B5-B11 | B5-B11  | B5-B11 | B5  |
| 10,88           | B5-B11 | B5-B11 | B5-B11  | B5-B11 | B5  |
| 12,75           | B5-B11 | B5-B11 | B5-B11  | B5-B11 | B5  |
| 13,99           | B5-B11 | B5-B11 | B5-B11  | B5-B11 | B5  |
| 15,43           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 17,21           | B5-B11 | B5-B11 | B5-B11  | B5-B11 | B5  |
| 19,00           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 20,83           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 22,13           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 24,28           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 26,33           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 29,87           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 32,40           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 34,91           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 38,30           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 42,53           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 44,00           | B5-B11 | B5-B11 | B5-B11  |        |     |
| 47,13           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |
| 50,25           | B5-B11 | B5-B11 | B5-B11  |        |     |
| 55,14           | B5-B11 | B5-B11 | B5-B11  |        |     |
| 59,40           | B5-B11 | B5-B11 | B5-B11  |        |     |
| 67,84           | B5-B11 | B5-B11 | B5-B11  |        |     |

| CS - S - PS 103 |        |        |        |         |
|-----------------|--------|--------|--------|---------|
| i               | 071    | 080    | 090    | 100-112 |
| 74,18           |        | B5-B11 | B5-B11 | B5-B11  |
| 81,39           |        | B5-B11 | B5-B11 | B5-B11  |
| 89,77           |        | B5-B11 | B5-B11 | B5-B11  |
| 100,15          |        | B5-B11 | B5-B11 | B5-B11  |
| 110,55          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 121,29          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 128,73          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 141,24          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 173,78          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 188,51          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 203,11          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 222,85          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 224,76          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 274,20          | B5-B11 | B5-B11 | B5-B11 | B5-B11  |
| 280,89          | B5-B11 | B5-B11 | B5-B11 |         |
| 292,36          | B5-B11 | B5-B11 | B5-B11 |         |
| 320,79          | B5-B11 | B5-B11 | B5-B11 |         |
| 345,60          | B5-B11 | B5-B11 | B5-B11 |         |
| 394,69          | B5-B11 | B5-B11 | B5-B11 |         |

| CS - S - PS 122 |        |        |         |        |     |     |     |
|-----------------|--------|--------|---------|--------|-----|-----|-----|
| i               | 080    | 090    | 100-112 | 132    | 160 | 180 | 200 |
| 8,48            |        |        |         |        | B5  | B5  | B5  |
| 9,30            |        |        |         |        | B5  | B5  | B5  |
| 10,24           |        |        |         |        | B5  | B5  | B5  |
| 11,42           |        |        |         |        | B5  | B5  | B5  |
| 12,63           |        |        |         |        | B5  | B5  | B5  |
| 13,84           |        |        |         |        | B5  | B5  | B5  |
| 16,99           |        |        |         |        | B5  | B5  | B5  |
| 21,25           |        |        | B5-B11  | B5-B11 | B5  | B5  |     |
| 22,37           |        |        | B5-B11  | B5-B11 | B5  | B5  |     |
| 23,29           |        |        | B5-B11  | B5-B11 | B5  | B5  |     |
| 26,15           |        |        | B5-B11  | B5-B11 | B5  | B5  |     |
| 28,60           |        |        | B5-B11  | B5-B11 | B5  | B5  |     |
| 30,51           |        |        | B5-B11  | B5-B11 | B5  | B5  |     |
| 32,76           |        |        | B5-B11  | B5-B11 | B5  | B5  |     |
| 33,44           |        |        | B5-B11  | B5-B11 | B5  | B5  |     |
| 35,20           |        |        | B5-B11  | B5-B11 | B5  | B5  |     |
| 41,07           |        |        | B5-B11  | B5-B11 | B5  | B5  |     |
| 43,60           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |     |     |
| 44,63           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |     |     |
| 49,04           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |     |     |
| 53,75           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |     |     |
| 66,00           | B5-B11 | B5-B11 | B5-B11  | B5-B11 |     |     |     |

| CS - S - PS 123 |        |        |         |        |
|-----------------|--------|--------|---------|--------|
| i               | 080    | 090    | 100-112 | 132    |
| 64,84           |        |        | B5-B11  | B5-B11 |
| 71,07           |        |        | B5-B11  | B5-B11 |
| 78,46           |        |        | B5-B11  | B5-B11 |
| 87,27           |        |        | B5-B11  | B5-B11 |
| 105,91          |        |        | B5-B11  | B5-B11 |
| 112,52          | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 123,33          | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 130,04          | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 133,78          | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 151,43          | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 177,53          | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 194,59          | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 215,60          | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 238,93          | B5-B11 | B5-B11 | B5-B11  | B5-B11 |
| 255,54          | B5-B11 | B5-B11 | B5-B11  |        |
| 280,10          | B5-B11 | B5-B11 | B5-B11  |        |
| 301,16          | B5-B11 | B5-B11 | B5-B11  |        |
| 343,93          | B5-B11 | B5-B11 | B5-B11  |        |

## 2.6 MOTOR FLANGE AVAILABILITY

| S142  |     |     |     |     |
|-------|-----|-----|-----|-----|
| i     | 132 | 160 | 180 | 200 |
| 4.11  | B5  | B5  | B5  | B5  |
| 4.58  | B5  | B5  | B5  | B5  |
| 5.14  | B5  | B5  | B5  | B5  |
| 5.81  | B5  | B5  | B5  | B5  |
| 6.21  | B5  | B5  | B5  | B5  |
| 7.31  | B5  | B5  | B5  | B5  |
| 8.20  | B5  | B5  | B5  | B5  |
| 9.28  | B5  | B5  | B5  | B5  |
| 9.91  | B5  | B5  | B5  | B5  |
| 11.40 | B5  | B5  | B5  | B5  |
| 12.81 | B5  | B5  | B5  | B5  |
| 14.27 | B5  | B5  | B5  | B5  |
| 16.00 | B5  | B5  | B5  | B5  |
| 18.10 | B5  | B5  | B5  | B5  |
| 19.33 | B5  | B5  | B5  | B5  |
| 22.24 | B5  | B5  | B5  | B5  |
| 25.26 | B5  | B5  | B5  |     |
| 28.33 | B5  | B5  | B5  |     |
| 32.05 | B5  | B5  | B5  |     |
| 34.22 | B5  | B5  | B5  |     |
| 39.37 | B5  | B5  |     |     |

| S143   |           |     |     |
|--------|-----------|-----|-----|
| i      | 100 - 112 | 132 | 160 |
| 45.76  | B5        | B5  | B5  |
| 50.97  | B5        | B5  | B5  |
| 57.17  | B5        | B5  | B5  |
| 64.67  | B5        | B5  | B5  |
| 69.05  | B5        | B5  | B5  |
| 79.45  | B5        | B5  | B5  |
| 98.80  | B5        | B5  |     |
| 110.05 | B5        | B5  |     |
| 123.43 | B5        | B5  |     |
| 139.64 | B5        | B5  |     |
| 149.09 | B5        | B5  |     |
| 157.48 | B5        |     |     |

| S152  |     |     |     |     |
|-------|-----|-----|-----|-----|
| i     | 160 | 180 | 200 | 225 |
| 4.06  | B5  | B5  | B5  | B5  |
| 4.53  | B5  | B5  | B5  | B5  |
| 5.20  | B5  | B5  | B5  | B5  |
| 5.71  | B5  | B5  | B5  | B5  |
| 6.52  | B5  | B5  | B5  | B5  |
| 7.28  | B5  | B5  | B5  | B5  |
| 8.35  | B5  | B5  | B5  | B5  |
| 9.17  | B5  | B5  | B5  | B5  |
| 10.41 | B5  | B5  | B5  | B5  |
| 12.46 | B5  | B5  | B5  | B5  |
| 13.90 | B5  | B5  | B5  | B5  |
| 15.96 | B5  | B5  | B5  | B5  |
| 17.52 | B5  | B5  | B5  | B5  |
| 19.90 | B5  | B5  | B5  | B5  |
| 22.88 | B5  | B5  | B5  | B5  |
| 27.10 | B5  | B5  | B5  | B5  |
| 29.75 | B5  | B5  | B5  | B5  |
| 33.79 | B5  | B5  | B5  | B5  |
| 38.84 | B5  | B5  | B5  | B5  |

| S153   |     |     |     |
|--------|-----|-----|-----|
| i      | 132 | 160 | 180 |
| 40.10  | B5  | B5  | B5  |
| 44.75  | B5  | B5  | B5  |
| 51.37  | B5  | B5  | B5  |
| 56.39  | B5  | B5  | B5  |
| 64.05  | B5  | B5  | B5  |
| 73.62  | B5  | B5  | B5  |
| 87.16  | B5  | B5  |     |
| 97.27  | B5  | B5  |     |
| 111.66 | B5  | B5  |     |
| 122.56 | B5  | B5  |     |
| 139.20 | B5  | B5  |     |
| 154.01 | B5  |     |     |
| 160.01 | B5  |     |     |
| 176.81 | B5  |     |     |
| 194.05 | B5  |     |     |
| 220.41 | B5  |     |     |
| 253.35 | B5  |     |     |

2.7 OUTPUT SHAFT BEARINGS

| S        | S050     |            | S060     |            | S080     |            | S100     |            |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|
| Versions | Standard | On request | Standard | On request | Standard | On request | Standard | On request |
| C        | 1        | /          | 1        | 2          | 1 (Ø40)  | 2 (Ø40)    | 1        | 2          |
| D        | 1        | /          | 1        | /          | 2        | /          | 2        | /          |
| L        | 1        | /          | 1        | /          | 1        | /          | 1        | /          |

| S        | S125     |            | S140     |            | S150     |            |
|----------|----------|------------|----------|------------|----------|------------|
| Versions | Standard | On request | Standard | On request | Standard | On request |
| C        | 1        | 2          | 1        | 2          | 1        | 2          |
| D        | 2        | /          | 2        | /          | 2        | /          |
| L        | 1        | /          | 1        | /          | 1        | /          |

1 - Ball Bearing  
2 - Roller bearings  
/ - Not available

### 2.8.1 Information

The value of the admissible radial load [N] is given in the tables relating to the performance of the gear reducer at issue. It is related to the load applied on the centre line of the shaft and in the most unfavourable conditions of angle of application and direction of rotation. The maximum admissible axial loads are 1/5 of the value of the given radial load when they are applied in combination with the radial load. The tables relating to the output shafts give the maximum admissible value. This value must never be exceeded since it relates to the strength of the case. Particular conditions of radial load higher than the limits of the catalogue may occur. In this case, call our Technical Service and provide details on the application: direction of the load, direction of rotation of the shaft, type of service. In case of double extension shafts with radial load applied on both ends, the max. admissible radial loads must be defined according to the specific running conditions, in this case call our Technical Service. The radial load on the shaft is calculated with the following formula:

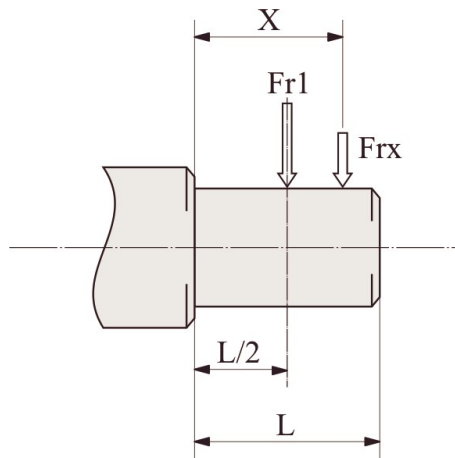
$$Fr_e = (2000 \cdot M \cdot f_z) / D \leq Fr1 \text{ or } Fr2$$

- **Fr<sub>e</sub>** [N] Resulting radial load
- **M** [Nm] Torque on the shaft
- **D** [mm] Diameter of the transmission member mounted on the shaft
- **Fr1-Fr2** [N] Value of the maximum admitted radial load (see relative tables)
- **f<sub>z</sub>** = 1,1 gear pinion - 1,4 chain wheel - 1,7 v-pulley - 2,5 flat pulley

### 2.8.2 Input

When the radial load is not on the centre line of the shaft, it is necessary to adjust the admissible radial load Fr1 with the following formula:  $Fr_x = (Fr1 \cdot a) / (b + x)$

- **a**, **b** = values given in the tables
- **x** = distance from the point of application of the load to the shaft shoulder



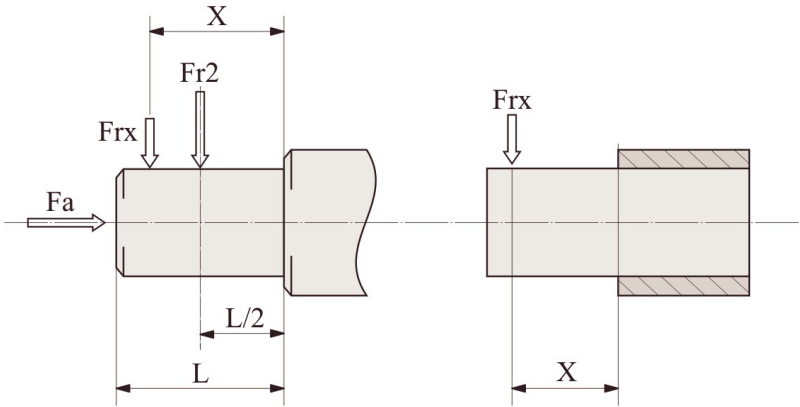
| IS                 | 052/053 | 062/063 | 082/083 | 102/103 | 122/123 | 142/143 | 152/153 |
|--------------------|---------|---------|---------|---------|---------|---------|---------|
| <b>a</b>           | 105     | 105     | 137     | 137     | 175     | 146     | 190     |
| <b>b</b>           | 80      | 80      | 108     | 108     | 135     | 106     | 135     |
| <b>Fr1 max(**)</b> | 1500    | 2500    | 3600    | 3600    | 7200    | 4200    | 5200    |

(\*\*Fr1 max) Max admissible value of the reducer in static conditions and/or for limited operations. For continuous overhung loads please check the values on the performances tables calculated according to the casing, the shaft and bearings.

2.8.3 Output

When the radial load is not on the centre line of the shaft, it is necessary to adjust the admissible radial load  $Fr_2$  with the following formula:  $Fr_x=(Fr_2*a)/(b+x)$

- $a, b$  = values given in the tables
- $x$  = distance from the point of application of the load to the shaft shoulder



| S             | 052/053 | 062/063 | 082/083 | 102/103 | 122/123 | 142/143 | 152/153 |
|---------------|---------|---------|---------|---------|---------|---------|---------|
| a             | 125     | 145     | 190     | 225     | 265     | 360,5   | 409,5   |
| b             | 96      | 116     | 150     | 175     | 202     | 261     | 299     |
| D (Fr2 max**) | 6000    | 10000   | 18000   | 22000   | 30000   | 35000   | 40000   |
| C (Fr2 max**) | 6000    | 4000    | 7200    | 9000    | 11200   | 18500   | 19400   |

(\*\*Fr2 max) Max admissible value of the reducer in static conditions and/or for limited operations. For continuous overhung loads please check the values on the performances tables calculated according to the casing, the shaft and bearings.

### 2.9.1 Information

In cases of ambient temperatures not envisaged in the table, call our Technical Service. In the case of temperatures under -30°C or over 60°C it is necessary to use oil seals with special properties. For operating ranges with temperatures under 0°C it is necessary to consider the following:

1. The motors need to be suitable for operation at the envisaged ambient temperature.
2. The power of the electric motor needs to be adequate for exceeding the higher starting torques required.
3. In case of cast-iron gear reducers, pay attention to impact loads since cast iron may have problems of fragility at temperatures under -15°C.
4. During the early stages of service, problems of lubrication may arise due to the high level of viscosity taken on by the oil and so it is wise to have a few minutes of rotation under no load.

Oil (NON Atex products) must be changed after approx. 10000 hours/2 years of operation; this time varies based on the type of service and on the environment inside which the gear reducer is installed. Units not featuring any oil plug are life-lubricated, and therefore maintenance-free.

### 2.9.2 Lubricants

Specifications of lubricants recommended by Motovario.

The units **S052/3 ÷ 122/3** are supplied with ENI BLASIA 220 oil, unless otherwise specified by the client.

The units **S142/3 ÷ 152/3** are supplied without lubricant.

|                                       | <b>S052/3 ÷ 152/3</b>             |                                    |
|---------------------------------------|-----------------------------------|------------------------------------|
|                                       | <b>Mineral oil</b>                |                                    |
| <b>T<sub>amb</sub> °C<br/>ISO/SAE</b> | <b>(-5) ÷ (+40)<br/>ISO VG220</b> | <b>(-15) ÷ (+25)<br/>ISO VG150</b> |
| <b>ENI</b>                            | BLASIA 220                        | BLASIA 150                         |
| <b>SHELL</b>                          | OMALA S2 G 220                    | OMALA S2 G 150                     |
| <b>KLUBER</b>                         | Kluberoil GEM 1-220N              | Kluberoil GEM 1-150N               |
| <b>MOBIL</b>                          | MOBILGEAR 600 XP220               | MOBILGEAR 600 XP150                |
| <b>CASTROL</b>                        | ALPHA SP 220                      | ALPHA SP 150                       |
| <b>BP</b>                             | ENERGOL GR-XP220                  | ENERGOL GR-XP150                   |

## 2.9 LUBRICATION

## 2.9.3 Special lubricants

|        | T <sub>amb</sub> °C | Polyglycol synthetic oil         |
|--------|---------------------|----------------------------------|
| ENI    | (-30) ÷ (+30)       | Blasia S 150 (ISO VG150)         |
|        | (-20) ÷ (+40)       | Blasia S 220 (ISO VG220)         |
| MOBIL  | (-45) ÷ (+0)        | SCH 624 (ISO VG32)               |
|        | (-40) ÷ (+5)        | SCH 626 (ISO VG68)               |
| KLUBER | (-40) ÷ (+5)        | Klubersynth GH 6-32 (ISO VG32)   |
|        | (-35) ÷ 10)         | Klubersynth GH 6-80 (ISO VG80)   |
|        | (-30) ÷ (+40)       | Klubersynth GH 6-150 (ISO VG150) |
|        | (-25) ÷ (+40)       | Klubersynth GH 6-220 (ISO VG220) |
|        | (-15) ÷ (+50)       | Klubersynth GH 6-460 (ISO VG460) |
|        | (-10) ÷ (+70)       | Klubersynth GH 6-680 (ISO VG680) |

|        | T <sub>amb</sub> °C | Polyglycol synthetic oil for food grade |
|--------|---------------------|-----------------------------------------|
| KLUBER | (-30) ÷ (+15)       | Klubersynth UH1-6 100 (ISO VG100)       |
|        | (-25) ÷ (+40)       | Klubersynth UH1-6 220 (ISO VG220)       |
|        | (-15) ÷ (+40)       | Klubersynth UH1-6 320 (ISO VG320)       |
|        | (-15) ÷ (+50)       | Klubersynth UH1-6 460 (ISO VG460)       |
|        | (-10) ÷ (+50)       | Klubersynth UH1-6 680 (ISO VG680)       |

If 'special' lubricant is required please contact for Technical Assistance.

### 2.9.4 Quantity

- For the gear reducers S ... series with 2, 3 stages it is always necessary to specify the envisaged position.
- S050,S060 gear reducers are supplied complete with lubricant, have no oil plugs and need no maintenance.
- S080,S100,S125 gear reducers are supplied complete with lubricant and are fitted with oil plugs to suit any mounting position included in the catalogue.
- S140,150 gear reducers are supplied without lubricant.

Oil quantity in the table (litres ~) are indicative; for a proper use you will have to refer to the level plug or the dipstick. Any level difference could depend on construction tolerances, but also by the placement of the unit or by the mounting surface at the customer's premises. It is appropriate to check and, if necessary, restores the level when the units are installed.

| S - CS | 052/053 | 062/063 | 082/083 | 102/103 | 122/123 | 142        | 143          | 152          | 153        |
|--------|---------|---------|---------|---------|---------|------------|--------------|--------------|------------|
| B3     | 2,05    | 2,4     | 6       | 9       | 14,7    | 22         | 20           | 29,7         | 27         |
| B8     | 1,8     | 2,3     | 4       | 6       | 11,8    | 20         | 20           | 31           | 31         |
| B6     | 2,4     | 2,9     | 5,7     | 8       | 16      | 22<br>(25) | 18<br>(24,5) | 29,3<br>(42) | 24<br>(40) |
| B7     | 2,1     | 2,6     | 4,5     | 6,8     | 11,3    | 17,5       | 14           | 22,5         | 18         |
| V5     | 2,8     | 3,5     | 6,8     | 10,3    | 19      | 24,5       | 23,5         | 34,4         | 33         |
| V6     | 2,4     | 2,9     | 6,4     | 9,9     | 18      | 20,8       | 20           | 33,3         | 32         |

(...) 142-143-152-153 quantity of oil [l] for gearbox with backstop device

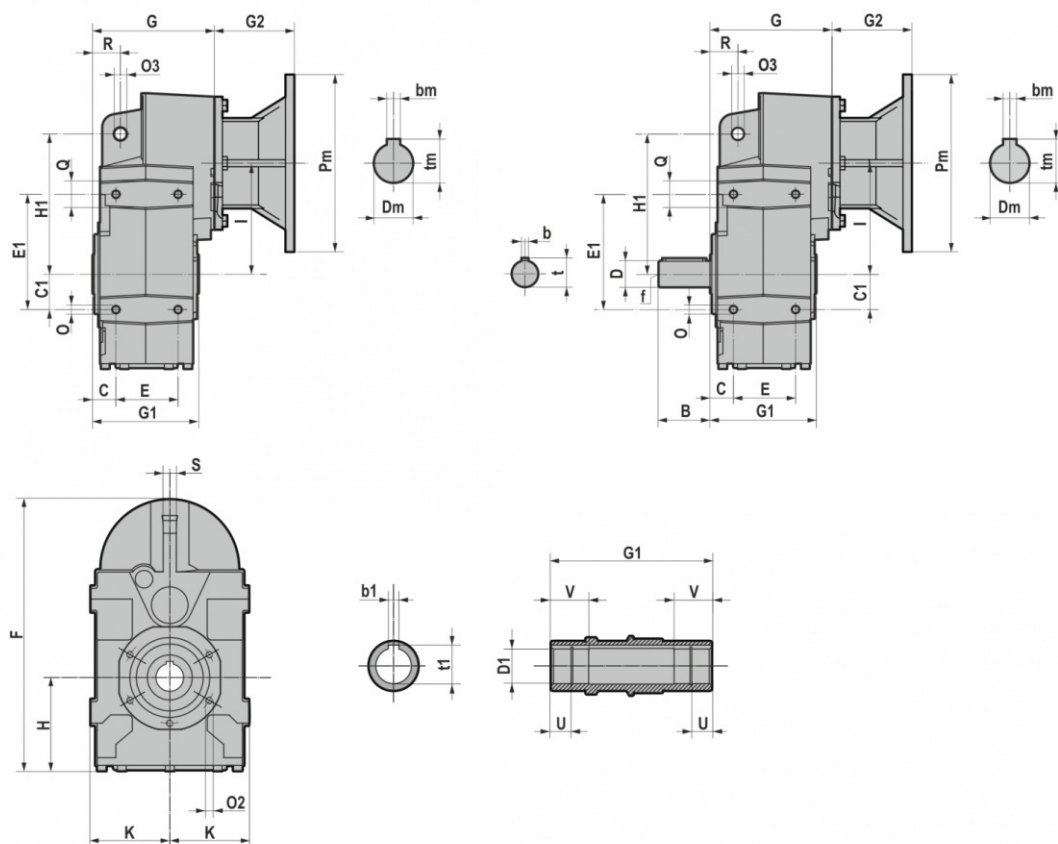
## 2.10 MOMENTS OF INERTIA

The following values of J1 moment of inertia are only estimated, referred to the maximum calculated, and to the gearbox input side.

| S-2/3   | J <sub>1</sub> [Kg*m <sup>2</sup> ] |
|---------|-------------------------------------|
| 052/053 | 0,0004                              |
| 062/063 | 0,0006                              |
| 082/083 | 0,0015                              |
| 102/103 | 0,0034                              |
| 122/123 | 0,0085                              |
| 142/143 | 0,0384                              |
| 152/153 | 0,0830                              |

## 3.1 REDUCERS/GEARED MOTORS

## 3.1.1 S 052...123



|                  | D1<br>H7 | b1 | t1 | U    | V  | B   | D        | b  | t  | f   | C  | C1  | E   | E1  | F   | G     | G1  | H   | H1  | I   | K     | O      | O3 | O2              | Q  | R    | S  |
|------------------|----------|----|----|------|----|-----|----------|----|----|-----|----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|--------|----|-----------------|----|------|----|
| <b>S052/S053</b> | 30       | 8  | 33 | 13,8 | 30 | 58  | 30 j6    | 8  | 33 | M10 | 27 | 40  | 70  | 130 | 311 | 137,5 | 120 | 107 | 158 | 125 | 90,5  | M10x18 | 14 | M8x16<br>(n.5)  | 30 | 31,5 | 15 |
| <b>S062/S063</b> | 35       | 10 | 38 | 12   | 35 | 58  | 35 j6    | 10 | 38 | M12 | 30 | 45  | 80  | 147 | 320 | 158,5 | 140 | 97  | 170 | 143 | 96,5  | M12x20 | 14 | M8x16<br>(n.5)  | 40 | 32   | 15 |
| <b>S082/S083</b> | 40       | 12 | 43 | 22,3 | 42 | 80  | 40<br>k6 | 12 | 43 | M16 | 37 | 60  | 106 | 190 | 383 | 207   | 180 | 107 | 218 | 170 | 112,5 | M12x20 | 14 | M10x20<br>(n.7) | 44 | 41   | 20 |
|                  | 45       | 14 | 48 | 22,3 | 42 |     |          |    |    |     |    |     |     |     |     |       |     |     |     |     |       |        |    |                 |    |      |    |
| <b>S102/S103</b> | 45       | 14 | 49 | 22,3 | 50 | 100 | 50<br>k6 | 14 | 54 | M16 | 37 | 70  | 137 | 275 | 426 | 217,5 | 210 | 119 | 278 | 180 | 130   | M16x26 | 22 | M12x22<br>(n.7) | 50 | 50   | 20 |
|                  | 50       | 14 | 54 | 25   | 50 |     |          |    |    |     |    |     |     |     |     |       |     |     |     |     |       |        |    |                 |    |      |    |
| <b>S122/S123</b> | 60       | 18 | 64 | 28   | 70 | 120 | 60<br>m6 | 18 | 64 | M20 | 43 | 100 | 165 | 310 | 549 | 257   | 240 | 157 | 346 | 235 | 165   | M16x30 | 22 | M14x28<br>(n.7) | 50 | 62   | 26 |

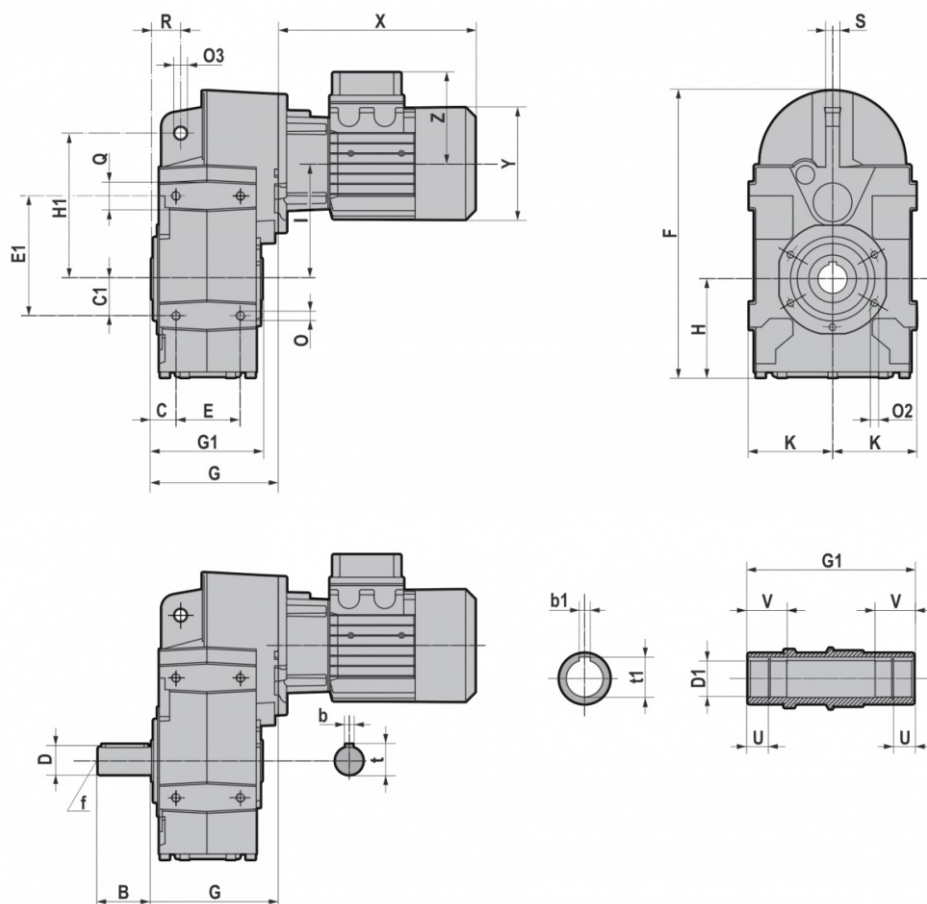
| IEC            | Pm x Dm       | G2      |         |       |
|----------------|---------------|---------|---------|-------|
|                |               | 050-060 | 080-100 | 125   |
| <b>063</b>     | <b>140x11</b> | 57      | /       | /     |
| <b>071</b>     | <b>160x14</b> | 69      | 49,0    | /     |
| <b>080</b>     | <b>200x19</b> | 90      | 70,0    | 60,5  |
| <b>090</b>     | <b>200x24</b> | 90      | 70,0    | 60,5  |
| <b>100-112</b> | <b>250x28</b> | 105     | 85,0    | 75,5  |
| <b>132</b>     | <b>300x38</b> | /       | 110,0   | 100,5 |
| <b>160</b>     | <b>350x42</b> | /       | 157,5   | 148   |
| <b>180</b>     | <b>350x48</b> | /       | 157,5   | 148   |
| <b>200</b>     | <b>400x55</b> | /       | /       | 185   |

|            | B5  | Pm | Dm | bm   | tm |
|------------|-----|----|----|------|----|
| <b>063</b> | 140 | 11 | 4  | 12,8 |    |
| <b>071</b> | 160 | 14 | 5  | 16,3 |    |
| <b>080</b> | 200 | 19 | 6  | 21,8 |    |
| <b>090</b> | 200 | 24 | 8  | 27,3 |    |
| <b>100</b> | 250 | 28 | 8  | 31,3 |    |
| <b>112</b> | 250 | 28 | 8  | 31,3 |    |
| <b>132</b> | 300 | 38 | 10 | 41,3 |    |
| <b>160</b> | 350 | 42 | 12 | 45,3 |    |
| <b>180</b> | 350 | 48 | 14 | 51,8 |    |
| <b>200</b> | 400 | 55 | 16 | 59,3 |    |



## 3.1 REDUCERS/GEARED MOTORS

## 3.1.3 CS 052...123

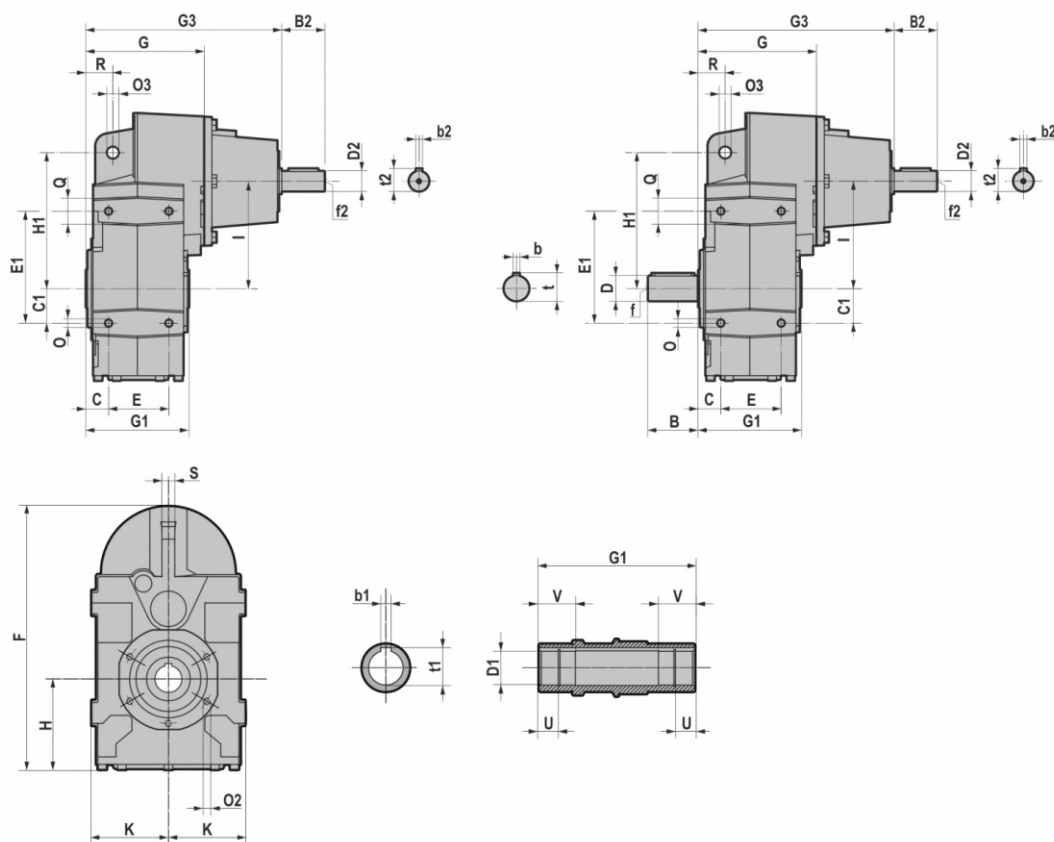


|                    | D1<br>H7 | b1 | t1 | U    | V  | B   | D        | b  | t  | f   | C  | C1  | E   | E1  | F   | G     | G1  | H   | H1  | I   | K     | O      | O3 | O2              | Q  | R    | S  |
|--------------------|----------|----|----|------|----|-----|----------|----|----|-----|----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|--------|----|-----------------|----|------|----|
| <b>CS052/CS053</b> | 30       | 8  | 33 | 13,8 | 30 | 58  | 30<br>j6 | 8  | 33 | M10 | 27 | 40  | 70  | 130 | 311 | 137,5 | 120 | 107 | 158 | 125 | 90,5  | M10x18 | 14 | M8x16<br>(n.5)  | 30 | 31,5 | 15 |
| <b>CS062/CS063</b> | 35       | 10 | 38 | 12   | 35 | 58  | 35<br>j6 | 10 | 38 | M12 | 30 | 45  | 80  | 147 | 320 | 158,5 | 140 | 97  | 170 | 143 | 96,5  | M12x20 | 14 | M8x16<br>(n.5)  | 40 | 32   | 15 |
| <b>CS082/CS083</b> | 40       | 12 | 43 | 22,3 | 42 | 80  | 40<br>k6 | 12 | 43 | M16 | 37 | 60  | 106 | 190 | 383 | 207   | 180 | 107 | 218 | 170 | 112,5 | M12x20 | 14 | M10x20<br>(n.7) | 44 | 41   | 20 |
| <b>CS102/CS103</b> | 45       | 14 | 49 | 22,3 | 50 | 100 | 50<br>k6 | 14 | 54 | M16 | 37 | 70  | 137 | 275 | 426 | 217,5 | 210 | 119 | 278 | 180 | 130   | M16x26 | 22 | M12x22<br>(n.7) | 50 | 50   | 20 |
| <b>CS122/CS123</b> | 60       | 18 | 64 | 28   | 70 | 120 | 60<br>m6 | 18 | 64 | M20 | 43 | 100 | 165 | 310 | 549 | 257   | 240 | 157 | 346 | 235 | 165   | M16x30 | 22 | M14x28<br>(n.7) | 50 | 62   | 26 |

| T (IE1 - IE2)      |       |     |     |      |      |     |     |      |        |  |
|--------------------|-------|-----|-----|------|------|-----|-----|------|--------|--|
|                    | 063   | 071 | 080 | 090S | 090L | 100 | 112 | 132S | 132M/L |  |
| <b>CS052/CS053</b> | X 215 | 241 | 268 | 296  | 321  | 333 | 351 | /    | /      |  |
| <b>CS062/CS063</b> | Y 121 | 139 | 158 | 173  | 173  | 191 | 211 | /    | /      |  |
|                    | Z 104 | 112 | 122 | 130  | 130  | 139 | 154 | /    | /      |  |
| <b>CS082/CS083</b> | X /   | 221 | 248 | 276  | 301  | 335 | 356 | 405  | 443    |  |
| <b>CS102/CS103</b> | Y /   | 139 | 158 | 173  | 173  | 191 | 211 | 249  | 249    |  |
|                    | Z /   | 112 | 122 | 130  | 130  | 139 | 154 | 194  | 194    |  |
| <b>CS122/CS123</b> | X /   | /   | /   | 267  | 292  | 326 | 347 | 396  | 434    |  |
|                    | Y /   | /   | /   | 173  | 173  | 191 | 211 | 249  | 249    |  |
|                    | Z /   | /   | /   | 130  | 130  | 139 | 154 | 194  | 194    |  |

| TB (IE1 - IE2)     |       |       |     |      |      |     |     |      |        |  |
|--------------------|-------|-------|-----|------|------|-----|-----|------|--------|--|
|                    | 063   | 071   | 080 | 090S | 090L | 100 | 112 | 132S | 132M/L |  |
| <b>CS052/CS053</b> | X 273 | 306,5 | 341 | 373  | 398  | 415 | 448 | /    | /      |  |
| <b>CS062/CS063</b> | Y 121 | 139   | 158 | 173  | 173  | 191 | 211 | /    | /      |  |
|                    | Z 119 | 129   | 137 | 157  | 157  | 168 | 183 | /    | /      |  |
| <b>CS082/CS083</b> | X /   | 286,5 | 321 | 353  | 378  | 417 | 453 | 505  | 547    |  |
| <b>CS102/CS103</b> | Y /   | 139   | 158 | 173  | 173  | 191 | 211 | 249  | 249    |  |
|                    | Z /   | 129   | 137 | 157  | 157  | 168 | 183 | 230  | 230    |  |
| <b>CS122/CS123</b> | X /   | /     | /   | 343  | 368  | 407 | 443 | 495  | 537    |  |
|                    | Y /   | /     | /   | 173  | 173  | 191 | 211 | 249  | 249    |  |
|                    | Z /   | /     | /   | 157  | 157  | 168 | 183 | 230  | 230    |  |

### 3.1.4 IS 052...123

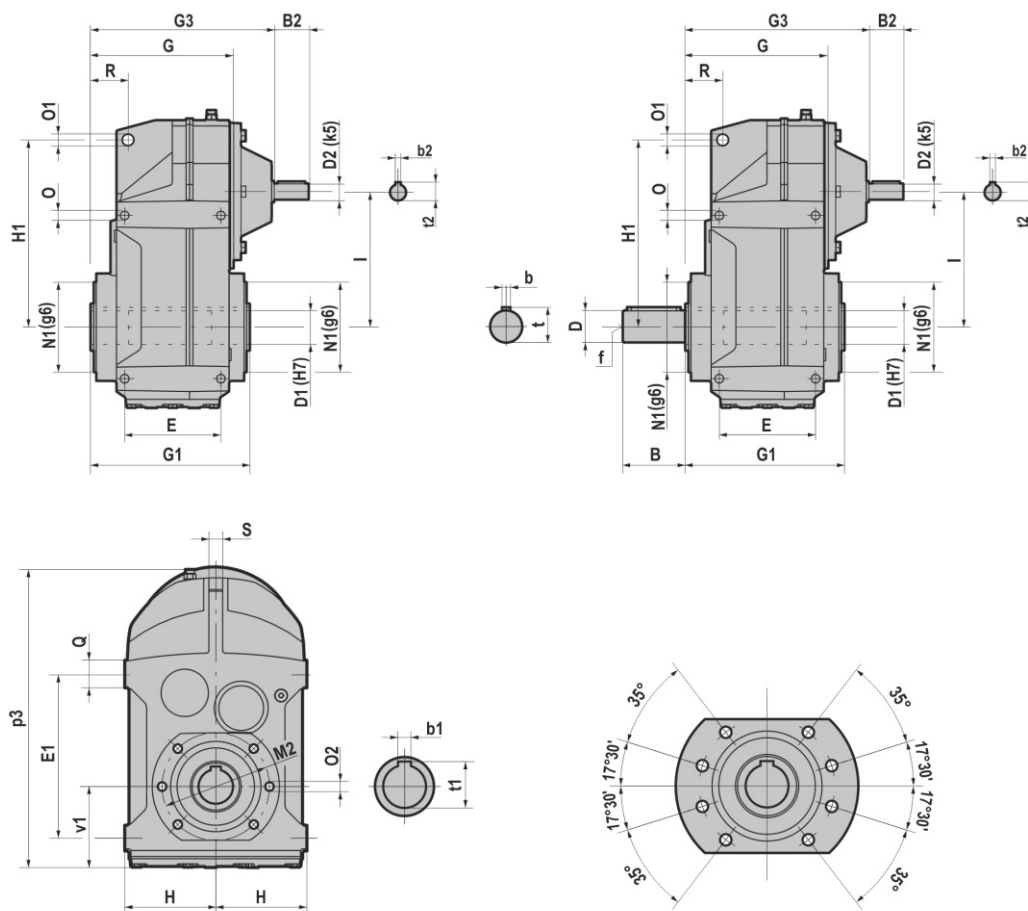


|               | D1<br>H7 | b1 | t1 | U    | V  | B   | D        | b  | t  | f   | C  | C1  | E   | E1  | F   | G     | G1  | H   | H1  | I   | K     | O      | O3 | O2              | Q  | R    | S  |
|---------------|----------|----|----|------|----|-----|----------|----|----|-----|----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|--------|----|-----------------|----|------|----|
| ISO52/ISO53   | 30       | 8  | 33 | 13,8 | 30 | 58  | 30 j6    | 8  | 33 | M10 | 27 | 40  | 70  | 130 | 311 | 137,5 | 120 | 107 | 158 | 125 | 90,5  | M10x18 | 14 | M8x16<br>(n.5)  | 30 | 31,5 | 15 |
| ISO62/ISO63   | 35       | 10 | 38 | 12   | 35 | 58  | 35 j6    | 10 | 38 | M12 | 30 | 45  | 80  | 147 | 320 | 158,5 | 140 | 97  | 170 | 143 | 96,5  | M12x20 | 14 | M8x16<br>(n.5)  | 40 | 32   | 15 |
| ISO82/ISO83   | 40       | 12 | 43 | 22,3 | 42 | 80  | 40<br>k6 | 12 | 43 | M16 | 37 | 60  | 106 | 190 | 383 | 207   | 180 | 107 | 218 | 170 | 112,5 | M12x20 | 14 | M10x20<br>(n.7) | 44 | 41   | 20 |
|               | 45       | 14 | 48 | 22,3 | 42 |     | 50<br>k6 | 14 | 54 | M16 | 37 | 70  | 137 | 275 | 426 | 217,5 | 210 | 119 | 278 | 180 | 130   | M16x26 | 22 | M12x22<br>(n.7) | 50 | 50   | 20 |
| ISO102/ISO103 | 45       | 14 | 49 | 22,3 | 50 | 100 | 50<br>k6 | 14 | 54 | M16 | 37 | 70  | 137 | 275 | 426 | 217,5 | 210 | 119 | 278 | 180 | 130   | M16x26 | 22 | M12x22<br>(n.7) | 50 | 50   | 20 |
|               | 50       | 14 | 54 | 25   | 50 |     | 60<br>m6 | 18 | 64 | M20 | 43 | 100 | 165 | 310 | 549 | 257   | 240 | 157 | 346 | 235 | 165   | M16x30 | 22 | M14x28<br>(n.7) | 50 | 62   | 26 |
| ISO122/ISO123 | 60       | 18 | 64 | 28   | 70 | 120 | 60<br>m6 | 18 | 64 | M20 | 43 | 100 | 165 | 310 | 549 | 257   | 240 | 157 | 346 | 235 | 165   | M16x30 | 22 | M14x28<br>(n.7) | 50 | 62   | 26 |

|                    | G3    | B2 | D2    | b2 | t2 | f2  |
|--------------------|-------|----|-------|----|----|-----|
| <b>IS052/IS053</b> | 227,5 | 50 | 24 j6 | 8  | 27 | M8  |
| <b>IS062/IS063</b> | 248,5 | 50 | 24 j6 | 8  | 27 | M8  |
| <b>IS082/IS083</b> | 320   | 60 | 28 j6 | 8  | 31 | M10 |
| <b>IS102/IS103</b> | 330,5 | 60 | 28 j6 | 8  | 31 | M10 |
| <b>IS122/IS123</b> | 383,5 | 80 | 38 k6 | 10 | 41 | M12 |

## 3.1 REDUCERS/GEARED MOTORS

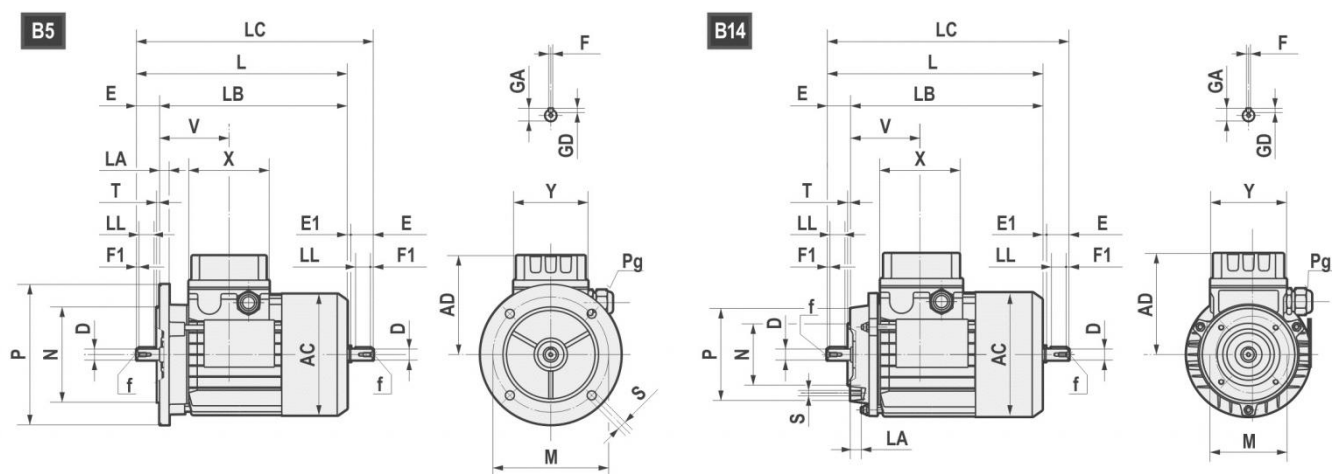
## 3.1.5 IS 142...153



|             | D1 | b1 | t1   | B   | D  | b  | t    | f   | E   | E1  | G     | G1  | H   | H1  | I   | N1  | M2  | O      | O1 | O2     | p3  | Q  | R  | S  | v1  |
|-------------|----|----|------|-----|----|----|------|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|--------|----|--------|-----|----|----|----|-----|
| IS142/IS143 | 70 | 20 | 74,9 | 140 | 70 | 20 | 74,5 | M20 | 205 | 350 | 282   | 300 | 200 | 395 | 269 | 180 | 220 | M20x28 | 26 | M16x26 | 615 | 50 | 70 | 30 | 177 |
|             | 65 | 18 | 69,4 |     |    |    |      |     |     |     |       |     |     |     |     |     |     |        |    |        |     |    |    |    |     |
| IS152/IS153 | 90 | 25 | 95,4 | 140 | 70 | 20 | 74,5 | M20 | 220 | 400 | 321,5 | 350 | 225 | 485 | 325 | 210 | 260 | M24x36 | 26 | M20x30 | 730 | 60 | 88 | 36 | 213 |
|             | 80 | 22 | 85,4 |     |    |    |      |     |     |     |       |     |     |     |     |     |     |        |    |        |     |    |    |    |     |

|             | G3  | D2 | B2  | b2 | t2 |
|-------------|-----|----|-----|----|----|
| IS142/IS143 | 362 | 38 | 80  | 10 | 41 |
| IS152/IS153 | 422 | 42 | 110 | 12 | 45 |

### 3.2.1 Electric motors



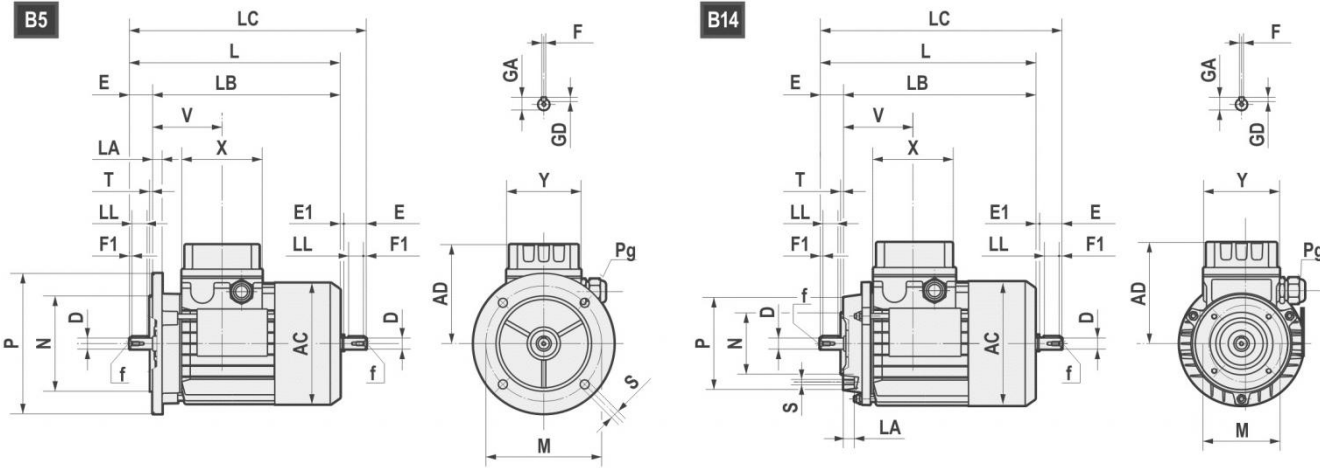
|      | AC  | AD  | L               | LB              | LC              | X   | Y   | V     | D     | E   | EI  | f       | FI  | GA   | F  | GD |
|------|-----|-----|-----------------|-----------------|-----------------|-----|-----|-------|-------|-----|-----|---------|-----|------|----|----|
| 063  | 121 | 104 | 211             | 188             | 235,5           | 80  | 74  | 69    | 11 j6 | 23  | 1,5 | M4x10   | 2,5 | 12,5 | 4  | 4  |
| 071  | 139 | 112 | 238,5           | 208,5           | 271             | 80  | 74  | 74,5  | 14 j6 | 30  | 2,5 | M5x12.5 | 3   | 16   | 5  | 5  |
| 080  | 158 | 122 | 272,5<br>*(296) | 232,5<br>*(256) | 314<br>*(337)   | 80  | 74  | 78    | 19 j6 | 40  | 1,5 | M6x16   | 5   | 21,5 | 6  | 6  |
| 90S  | 173 | 146 | 298<br>*(331)   | 248<br>*(281)   | 349,5<br>*(381) | 98  | 98  | 89,5  | 24 j6 | 50  | 1,5 | M8x19   | 5   | 27   | 8  | 7  |
| 90L  | 173 | 146 | 323<br>*(356)   | 273<br>*(306)   | 374,5<br>*(408) | 98  | 98  | 89,5  | 24 j6 | 50  | 1,5 | M8x19   | 5   | 27   | 8  | 7  |
| 100  | 191 | 155 | 368             | 308             | 431,5           | 98  | 98  | 97,5  | 28 j6 | 60  | 3,5 | M10x22  | 7,5 | 31   | 8  | 7  |
| 112  | 211 | 170 | 382,5<br>*(408) | 322,5<br>*(348) | 447<br>*(472)   | 98  | 98  | 100   | 28 j6 | 60  | 3,5 | M10x22  | 7,5 | 31   | 8  | 7  |
| 132S | 249 | 195 | 452             | 372             | 536,5           | 118 | 118 | 115,5 | 38 k6 | 80  | 4   | M12x28  | 10  | 41   | 10 | 8  |
| 132L | 249 | 195 | 490             | 410             | 574,5           | 118 | 118 | 115,5 | 38 k6 | 80  | 4   | M12x28  | 10  | 41   | 10 | 8  |
| 160S | 249 | 195 | 520             | 410             | /               | 118 | 118 | 115,5 | 42k6  | 100 | /   | M16x36  | 10  | 45   | 12 | 8  |

\*TP80B4, TP90S4, TP90L4, TP90S6, TP112M4, TP112M6

| B5  | M   | N   | P   | LA   | S    | T   |
|-----|-----|-----|-----|------|------|-----|
| 063 | 115 | 95  | 140 | 10   | 9    | 3   |
| 071 | 130 | 110 | 160 | 10   | 9,5  | 3,5 |
| 080 | 165 | 130 | 200 | 12   | 11   | 3,5 |
| 090 | 165 | 130 | 200 | 12   | 11   | 3,5 |
| 100 | 215 | 180 | 250 | 15   | 14   | 4   |
| 112 | 215 | 180 | 250 | 14,5 | 14   | 4   |
| 132 | 265 | 230 | 300 | 20   | 14   | 3,5 |
| 160 | 300 | 250 | 350 | 13   | 18,5 | 3,5 |

| B14 | M   | N   | P   | LA   | S   | T   |
|-----|-----|-----|-----|------|-----|-----|
| 063 | 75  | 60  | 90  | 10   | M5  | 2,5 |
| 071 | 85  | 70  | 105 | 10,5 | M6  | 2,5 |
| 080 | 100 | 80  | 120 | 10,5 | M6  | 3   |
| 090 | 115 | 95  | 140 | 11,5 | M8  | 3   |
| 100 | 130 | 110 | 160 | 15   | M8  | 3,5 |
| 112 | 130 | 110 | 160 | 11,5 | M8  | 3,5 |
| 132 | 165 | 130 | 200 | 20,5 | M10 | 3,5 |
| 160 | 215 | 180 | 250 | -    | M12 | 4   |

3.2 ELECTRIC MOTORS



|      |       | AC  | AD  | L    | LB  | X   | D  | E   | f   | GA   | F  | GD | LL  | Pg        |           |
|------|-------|-----|-----|------|-----|-----|----|-----|-----|------|----|----|-----|-----------|-----------|
| 160M | 2-4-6 | 314 | 251 | 600  | 490 | 158 | 42 | 110 | M16 | 45   | 12 | 8  | 90  | 2-M40x1,5 | 1-M16x1,5 |
| 160L | 2-4-6 | 314 | 251 | 645  | 535 | 158 | 42 | 110 | M16 | 45   | 12 | 8  | 90  | 2-M40x1,5 | 1-M16x1,5 |
| 180M | 2-4   | 355 | 267 | 680  | 570 | 158 | 48 | 110 | M16 | 51,5 | 14 | 9  | 100 | 2-M40x1,5 | 1-M16x1,5 |
| 180L | 4-6   | 355 | 267 | 720  | 610 | 158 | 48 | 110 | M16 | 51,5 | 14 | 9  | 100 | 2-M40x1,5 | 1-M16x1,5 |
| 200L | 2-4-6 | 397 | 300 | 785  | 675 | 187 | 55 | 110 | M20 | 59   | 16 | 10 | 100 | 2-M50x1,5 | 1-M16x1,5 |
| 225S | 4     | 446 | 325 | 820  | 680 | 187 | 60 | 140 | M20 | 64   | 18 | 11 | 125 | 2-M50x1,5 | 1-M16x1,5 |
| 225M | 2     | 446 | 325 | 815  | 705 | 187 | 55 | 110 | M20 | 59   | 16 | 10 | 100 | 2-M50x1,5 | 1-M16x1,5 |
| 225M | 4-6   | 446 | 325 | 845  | 705 | 187 | 60 | 140 | M20 | 64   | 18 | 11 | 125 | 2-M50x1,5 | 1-M16x1,5 |
| 250M | 2-4-6 | 485 | 360 | 910  | 770 | 238 | 60 | 140 | M20 | 64   | 18 | 11 | 125 | 2-M63x1,5 | 1-M16x1,5 |
| 250M | 2-4-6 | 485 | 360 | 910  | 770 | 238 | 65 | 140 | M20 | 69   | 18 | 11 | 125 | 2-M63x1,5 | 1-M16x1,5 |
| 280S | 2-4-6 | 547 | 390 | 970  | 830 | 238 | 65 | 140 | M20 | 69   | 18 | 11 | 125 | 2-M63x1,5 | 1-M16x1,5 |
| 280S | 2-4-6 | 547 | 390 | 970  | 830 | 238 | 75 | 140 | M20 | 79,5 | 20 | 12 | 125 | 2-M63x1,5 | 1-M16x1,5 |
| 280M | 2-4-6 | 547 | 390 | 1025 | 885 | 238 | 65 | 140 | M20 | 69   | 18 | 11 | 125 | 2-M63x1,5 | 1-M16x1,5 |
| 280M | 2-4-6 | 547 | 390 | 1025 | 885 | 238 | 75 | 140 | M20 | 79,5 | 20 | 12 | 125 | 2-M63x1,5 | 1-M16x1,5 |

| B5  | M   | N   | P   | LA | S  | T |
|-----|-----|-----|-----|----|----|---|
| 160 | 300 | 250 | 350 | 13 | 19 | 5 |
| 180 | 300 | 250 | 350 | 15 | 19 | 5 |
| 200 | 350 | 300 | 400 | 17 | 19 | 5 |
| 225 | 400 | 350 | 450 | 20 | 19 | 5 |
| 250 | 500 | 450 | 550 | 22 | 19 | 5 |
| 280 | 500 | 450 | 550 | 22 | 19 | 5 |

## 3.2 ELECTRIC MOTORS

### 3.2.2 Standard high efficiency (TS), high (TH) and premium (TP) motors

Motovario, three-phase, single polarity motors are available in three different versions (IE1-IE2-IE3) in compliance with standard 60034-30-1 (see table). The efficiency value is calculated according to the method set forth in standard IEC 60034-2-1.

1. IE1: Standard efficiency TS series.
2. IE2: High efficiency TH series
3. IE3: Premium efficiency TP series.

Table of Motovario commercial availability

|                          |           | EFFICIENCY LEVEL |        |        |
|--------------------------|-----------|------------------|--------|--------|
| NOMINAL POWER [kW]       | POLES     | IE1              | IE2    | IE3    |
| $0,09 \leq P_n < 0,75$   | 2 - 4 - 6 | TS-TBS           | -      | -      |
| $0,75 \leq P_n \leq 11$  | 2 - 4     | TBS              | -      | -      |
| $0,75 \leq P_n \leq 5,5$ | 6         | TBS              | TH-TBH | TP-TBP |
| $0,75 \leq P_n \leq 9,2$ | 2 - 4     | -                | TH-TBH | -      |
| $0,75 \leq P_n \leq 7,5$ | 2 - 4     | -                | -      | TP-TBP |
| $7,5 \leq P_n \leq 22$   | 6         | TBS (*)          | -      | TP     |
| $11 \leq P_n \leq 90$    | 4         | -                | -      | TP     |
| $15 \leq P_n \leq 37$    | 2         | TBS (*)          | -      | TP     |
| $15 \leq P_n \leq 55$    | 4         | TBS (*)          | -      | -      |

(\*) Series available on request.

## 3.2 ELECTRIC MOTORS

## 3.2.3 Nominal power - [kW]

|       | 63A  | 63B  | 63C  | 71A  | 71B  | 71C  | 80A  |      |      | 80B  |      |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| Poles | TS   | TS   | TS   | TS   | TS   | TS   | TS   | TH   | TP   | TS   | TH   | TP   |
| 2     | 0,18 | 0,25 | 0,37 | 0,37 | 0,55 | -    | -    | 0,75 | 0,75 | -    | 1,1  | 1,1  |
| 4     | 0,12 | 0,18 | 0,22 | 0,25 | 0,37 | 0,55 | 0,55 | -    | -    | -    | 0,75 | 0,75 |
| 6     | 0,09 | 0,12 | 0,15 | 0,18 | 0,25 | 0,37 | 0,37 | -    | -    | 0,55 | -    | -    |

|       | 90S |      | 90L  |     | 100LR | 100L | 100LA |     | 112MR | 112MS | 112MA | 112M |
|-------|-----|------|------|-----|-------|------|-------|-----|-------|-------|-------|------|
| Poles | TH  | TP   | TH   | TP  | TP    | TP   | TH    | TP  | TP    | TP    | TH    | TP   |
| 2     | 1,5 | 1,5  | 2,2  | 2,2 | -     | 3    | 3     | -   | -     | -     | 4     | 4    |
| 4     | 1,1 | 1,1  | 1,5  | 1,5 | -     | -    | 2,2   | 2,2 | 2,2   | 3     | 4     | 4    |
| 6     | -   | 0,75 | 0,75 | -   | 1,1   | 1,5  | 1,1   | -   | -     | -     | 2,2   | 2,2  |

|       | 112MR | 112MS | 132S | 132SA | 132MS | 132SB | 132M | 132MA |    | 132MB |     |
|-------|-------|-------|------|-------|-------|-------|------|-------|----|-------|-----|
| Poles | TP    | TP    | TP   | TH    | TP    | TH    | TP   | TH    | TP | TH    | TP  |
| 2     | -     | -     | 5,5  | 5,5   | -     | 7,5   | 7,5  | 9,2   | -  | -     | -   |
| 4     | 2,2   | 3     | -    | 5,5   | 5,5   | -     | 7,5  | 7,5   | -  | 9,2   | -   |
| 6     | -     | -     | 3    | 3     | -     | -     | -    | 4     | 4  | 5,5   | 5,5 |

|       | 160M | 160MA | 160MB | 160L | 160LA | 180M | 180L |
|-------|------|-------|-------|------|-------|------|------|
| Poles | TP   | TP    | TP    | TP   | TP    | TP   | TP   |
| 2     | -    | 11    | 15    | 18,5 | -     | 22   | -    |
| 4     | -    | 11    | -     | -    | 15    | 18,5 | 22   |
| 6     | 7,5  | -     | -     | 11   | -     | -    | 15   |

|       | 200L | 200LA | 200LB | 225S | 225M | 250M | 280S | 280M |
|-------|------|-------|-------|------|------|------|------|------|
| Poles | TP   | TP    | TP    | TP   | TP   | TP   | TP   | TP   |
| 2     | -    | 30    | 37    | -    | -    | -    | -    | -    |
| 4     | 30   | -     | -     | 37   | 45   | 55   | 75   | 90   |
| 6     | -    | 18,5  | 22    | -    | -    | -    | -    | -    |

## 3.3 WEIGHT

The values reported in the tables are referred to the weight of the gearbox with lubricant (S140/S150 supplied without lubricant) excluded.

\*Weight without motor.

| * S-PS  | 063 | 071  | 080-090 | 100-112 | 132  | 160  | 180  | 200 | 225 |      |
|---------|-----|------|---------|---------|------|------|------|-----|-----|------|
| 052-053 | 16  | 16,4 | 17      | 21,2    | /    | /    | /    | /   | /   | ~ kg |
| 062-063 | /   | 19,9 | 20,6    | 24,9    | /    | /    | /    | /   | /   |      |
| 082-083 | /   | 32,9 | 35      | 37      | 39,7 | /    | /    | /   | /   |      |
| 102-103 | /   | 44   | 46      | 48      | 50,7 | 57,4 | 57,4 | /   | /   |      |
| 122-123 | /   | /    | 82      | 84,2    | 87   | 93   | 93   | 108 | /   |      |
| 142     | /   | /    | /       | /       | 172  | 180  | 180  | 183 | /   |      |
| 143     | /   | /    | /       | 175     | 183  | 190  | /    | /   | /   |      |
| 152     | /   | /    | /       | /       | /    | 255  | 255  | 258 | 264 |      |
| 153     | /   | /    | /       | /       | 250  | 270  | 270  | /   | /   |      |

| IS      | - kg |
|---------|------|
| 052-053 | 19,2 |
| 062-063 | 22,7 |
| 082-083 | 39   |
| 102-103 | 50   |
| 122-123 | 91,8 |
| 142     | 155  |
| 143     | 165  |
| 152     | 220  |
| 153     | 240  |

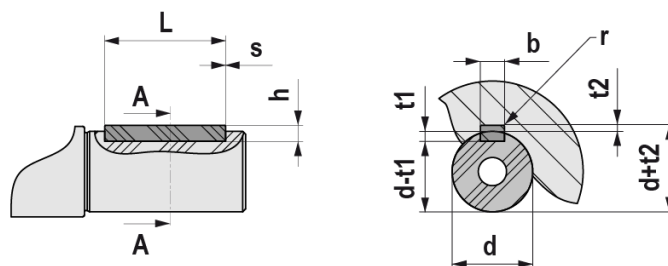
|         | TS   |      |      |      |      |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|
| CS      | 063  | 071  | 080  | 090S | 090L | 100  | 112  | 132S | 132M |      |
| 052-053 | 19,5 | 20,4 | 25,1 | 29   | 31   | 36,5 | 48   | /    | /    | ~ kg |
| 062-063 | /    | 23,9 | 28,7 | 32,6 | 34,6 | 40,1 | 51,6 | /    | /    |      |
| 082-083 | /    | 36,5 | 41,6 | 44   | 45,5 | 50,6 | 62   | 76   | 87,6 |      |
| 102-103 | /    | 47,5 | 52,6 | 55   | 56,5 | 61,6 | 73   | 87   | 98,6 |      |
| 122-123 | /    | /    | /    | 91   | 92   | 98   | 108  | 123  | 132  |      |

|         | TH   |      |      |       |       |       |       |      |
|---------|------|------|------|-------|-------|-------|-------|------|
| CS      | 080  | 090S | 090L | 100   | 112   | 132S  | 132M  |      |
| 052-053 | 26,8 | 31,3 | 33   | 38,8  | 51,1  | /     | /     | ~ kg |
| 062-063 | 30,4 | 34,9 | 36,6 | 42,4  | 54,7  | /     | /     |      |
| 082-083 | 43,3 | 46,3 | 47,5 | 52,9  | 65,1  | 81,3  | 94,4  |      |
| 102-103 | 54,3 | 57,3 | 58,5 | 63,9  | 76,1  | 92,3  | 105,4 |      |
| 122-123 | /    | 93,3 | 94   | 100,3 | 111,1 | 128,3 | 138,8 |      |

|         | TBS |      |      |      |      |       |       |       |       |      |
|---------|-----|------|------|------|------|-------|-------|-------|-------|------|
| CS      | 063 | 071  | 080  | 090S | 090L | 100   | 112   | 132S  | 132M  |      |
| 052-053 | 21  | 22,6 | 28,6 | 34,5 | 36,5 | 42    | 57,7  | /     | /     | ~ kg |
| 062-063 | /   | 26,2 | 32,2 | 38,1 | 40,1 | 45,6  | 61,3  | /     | /     |      |
| 082-083 | /   | 38,7 | 45   | 49,5 | 51   | 56    | 71,7  | 86,3  | 102,3 |      |
| 102-103 | /   | 49,7 | 56   | 60,5 | 62   | 67    | 82,7  | 97,3  | 113,3 |      |
| 122-123 | /   | /    | /    | 96,5 | 97,5 | 103,5 | 117,7 | 133,3 | 146,7 |      |

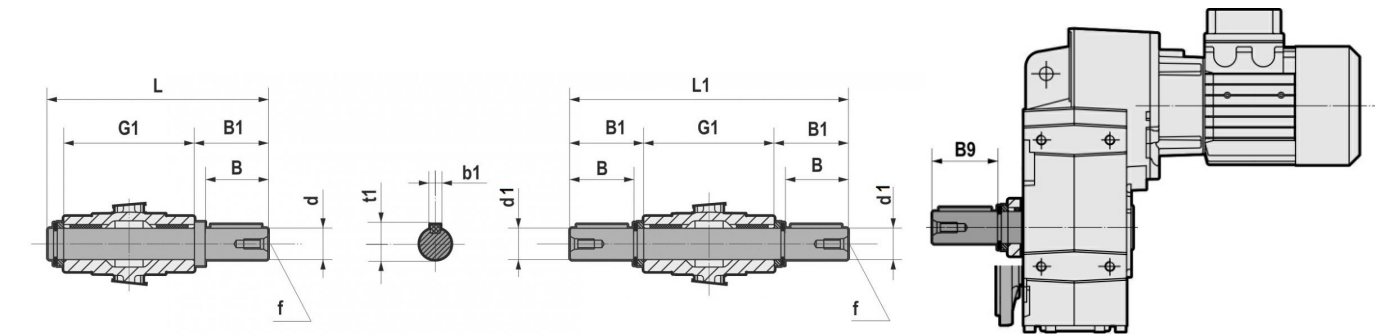
|         | TBH  |      |      |      |       |       |       |      |
|---------|------|------|------|------|-------|-------|-------|------|
| CS      | 080  | 090S | 090L | 100  | 112   | 132S  | 132M  |      |
| 052-053 | 30,3 | 36,8 | 38,5 | 45,7 | 60,8  | /     | /     | ~ kg |
| 062-063 | 33,9 | 40,4 | 42,1 | 49,3 | 64,4  | /     | /     |      |
| 082-083 | 46,7 | 51,8 | 53   | 59,7 | 74,8  | 91,6  | 108,8 |      |
| 102-103 | 57,7 | 62,8 | 64   | 70,7 | 85,8  | 102,6 | 119,8 |      |
| 122-123 | /    | 98,8 | 99,5 | 104  | 120,8 | 138,6 | 153,2 |      |

## 3.4 END SHAFT



| UNI 6604 - DIN 6885 |     |     |       |   |    |               |     |     |                           |     |     |            |                 |              |
|---------------------|-----|-----|-------|---|----|---------------|-----|-----|---------------------------|-----|-----|------------|-----------------|--------------|
| d                   |     |     | b x h |   |    | Tol.<br>b / h | L   |     | min <sup>s</sup><br>/ max | b   | t1  | t2         | Tol.<br>t1 / t2 | r max        |
|                     | 6   | 8   | 2     | x | 2  | h9 / h9       | 6   | 20  | 0,16<br>0,25              | 2   | 1,2 | 1          | 0,1<br>0        | 0,08<br>0,16 |
| >                   | 8   | 10  | 3     | x | 3  |               | 6   | 36  |                           | 3   | 1,8 | 1,4        |                 |              |
| >                   | 10  | 12  | 4     | x | 4  |               | 8   | 45  |                           | 4   | 2,5 | 1,8        |                 |              |
| >                   | 12  | 17  | 5     | x | 5  |               | 10  | 56  | 0,25<br>0,4               | 5   | 3   | 2,3        |                 | 0,16<br>0,25 |
| >                   | 17  | 22  | 6     | x | 6  |               | 14  | 70  |                           | 6   | 3   | 2,8        |                 |              |
| >                   | 22  | 30  | 8     | x | 7  | h9 / h11      | 18  | 90  | 0,4<br>0,6                | 8   | 4   | 3,3        | 0,2<br>0        | 0,25<br>0,4  |
| >                   | 30  | 38  | 10    | x | 8  |               | 22  | 110 |                           | 10  | 5   | 3,3        |                 |              |
| >                   | 38  | 44  | 12    | x | 8  |               | 28  | 140 |                           | 12  | 5   | 3,3        |                 |              |
| >                   | 44  | 50  | 14    | x | 9  |               | 36  | 160 | 14                        | 5,5 | 3,8 | 0,4<br>0,6 |                 |              |
| >                   | 50  | 58  | 16    | x | 10 |               | 45  | 180 | 16                        | 6   | 4,3 |            |                 |              |
| >                   | 58  | 65  | 18    | x | 11 |               | 50  | 200 | 18                        | 7   | 4,4 |            |                 |              |
| >                   | 65  | 75  | 20    | x | 12 |               | 56  | 110 | 0,6<br>0,8                | 20  | 7,5 | 4,9        |                 | 0,4<br>0,6   |
| >                   | 75  | 85  | 22    | x | 14 |               | 63  | 140 |                           | 22  | 9   | 5,4        |                 |              |
| >                   | 85  | 95  | 25    | x | 14 |               | 70  | 160 |                           | 25  | 9   | 5,4        |                 |              |
| >                   | 95  | 110 | 28    | x | 16 |               | 80  | 180 |                           | 28  | 10  | 6,4        |                 |              |
| >                   | 110 | 130 | 32    | x | 18 |               | 90  | 200 |                           | 32  | 11  | 7,4        |                 |              |
| >                   | 130 | 150 | 36    | x | 20 |               | 100 | 160 | 1<br>1,2                  | 36  | 12  | 8,4        | 0,3<br>0        | 0,7<br>1     |
| >                   | 150 | 170 | 40    | x | 22 |               | 110 | 180 |                           | 40  | 13  | 9,4        |                 |              |
| >                   | 170 | 200 | 45    | x | 25 |               | 125 | 200 |                           | 45  | 14  | 10,4       |                 |              |

4.1 LOW SPEED SHAFTS

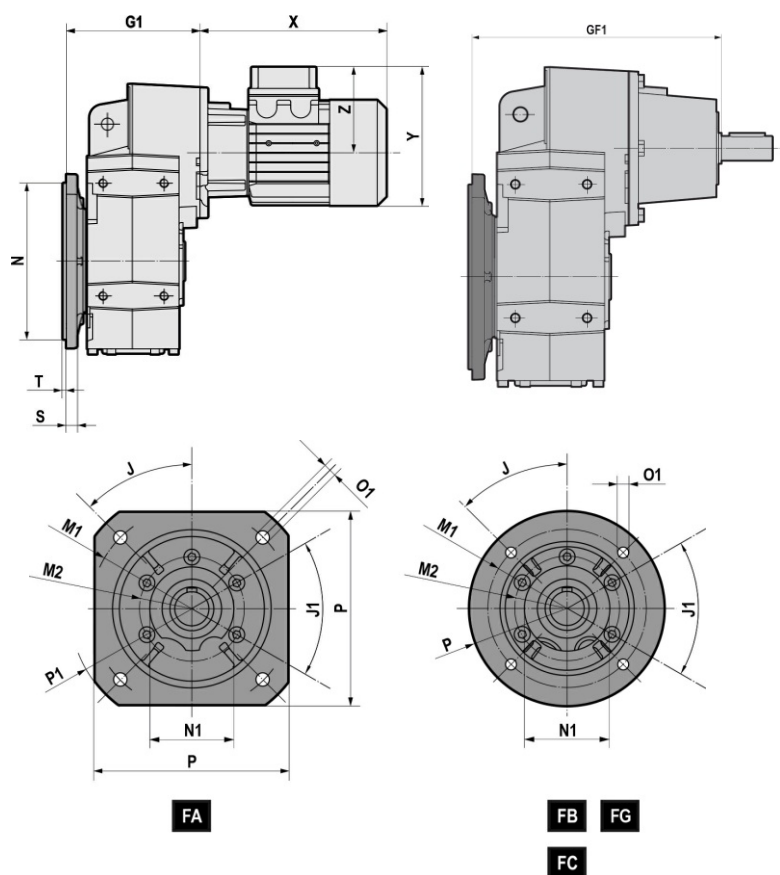


|           | d h6 | B   | B1    | G1  | L     | f   | b1 | t1   |
|-----------|------|-----|-------|-----|-------|-----|----|------|
| S062/S063 | 35   | 58  | 62    | 140 | 210,5 | M12 | 10 | 38   |
| S082/S083 | 40   | 80  | 84,25 | 180 | 273   | M16 | 12 | 43   |
| S102/S103 | 50   | 100 | 105   | 210 | 325   | M16 | 14 | 53,5 |
| S122/S123 | 60   | 120 | 125   | 240 | 375   | M20 | 18 | 64   |

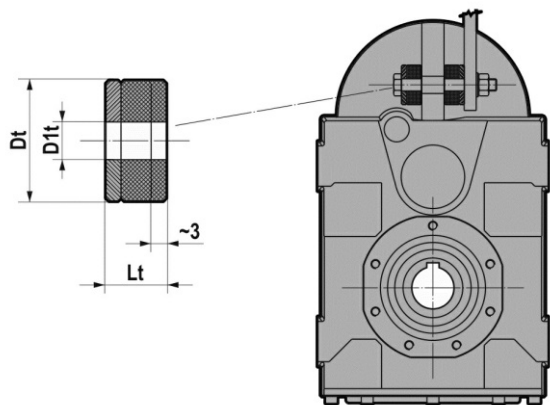
|           | d k5 | d1 h6 | B   | B1  | B9  | L1  | f   | b1 | t1   |
|-----------|------|-------|-----|-----|-----|-----|-----|----|------|
| S142/S143 | 70   | 70    | 140 | 150 | 197 | 600 | M20 | 20 | 74,5 |
|           | 65   | 65    |     |     |     |     |     |    | 69   |
| S152/S153 | 90   | 90    | 170 | 180 | 221 | 710 | M24 | 25 | 95   |
|           | 80   | 80    |     |     |     |     | M20 | 22 | 85   |

## 4.2 OUTPUT FLANGE



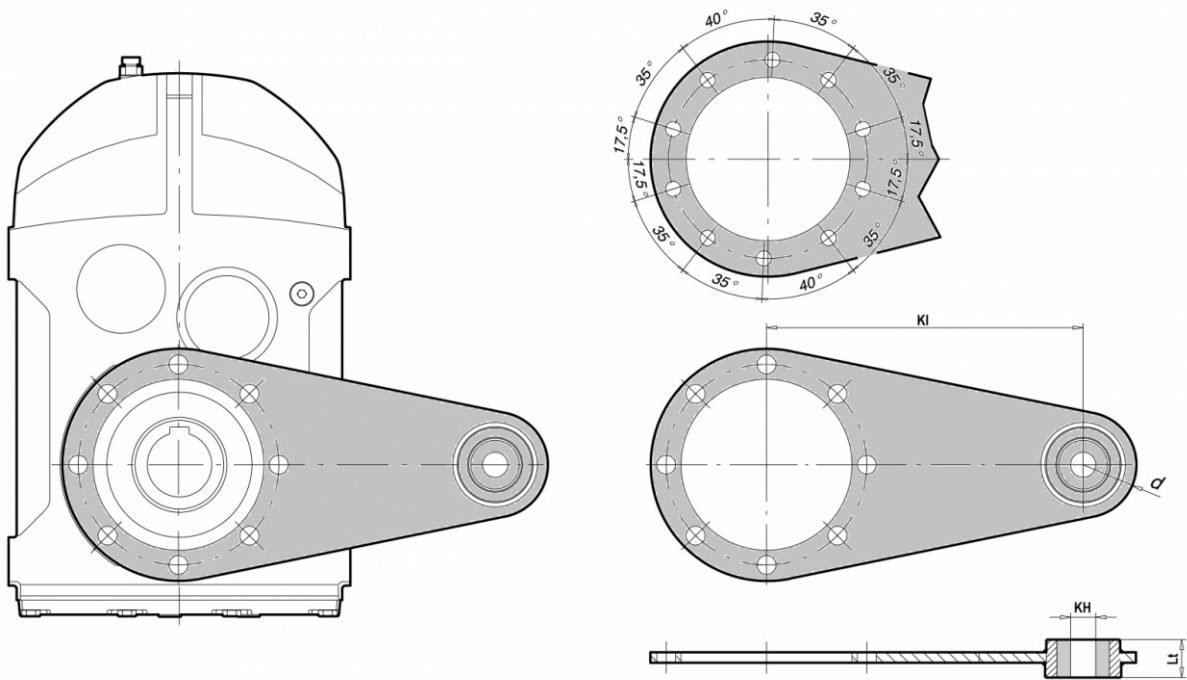
|              |    | J      | J1 | M1  | M2  | N f8   | N1  | O1 | P   | P1  | S  | T   | G1    | GF1   |
|--------------|----|--------|----|-----|-----|--------|-----|----|-----|-----|----|-----|-------|-------|
| S052<br>S053 | FA | 45     | 45 | 215 | 105 | 180    | 90  | 14 | 200 | 250 | 12 | 4   | 153   | 243   |
|              | FB | 45     | 45 | 165 | 105 | 130    | 90  | 11 | 200 | /   | 12 | 3,5 | 153   | 243   |
| S062<br>S063 | FA | 45     | 45 | 215 | 105 | 180    | 90  | 14 | 200 | 250 | 12 | 4   | 172,5 | 262,5 |
|              | FB | 45     | 45 | 165 | 105 | 130    | 90  | 11 | 200 | /   | 12 | 3,5 | 172,5 | 262,5 |
| S082<br>S083 | FA | 45     | 45 | 265 | 130 | 230    | 110 | 14 | 250 | 300 | 15 | 4   | 227   | 340   |
|              | FB | 45     | 45 | 215 | 130 | 180    | 110 | 14 | 250 | /   | 15 | 4   | 227   | 340   |
|              | FC | 45     | 45 | 165 | 130 | 130    | 110 | 11 | 200 | /   | 15 | 3,5 | 227   | 340   |
| S102<br>S103 | FA | 45     | 45 | 300 | 165 | 250    | 130 | 18 | 300 | 350 | 16 | 5   | 247,5 | 360,5 |
|              | FB | 45     | 45 | 265 | 165 | 230    | 130 | 14 | 300 | /   | 16 | 4   | 247,5 | 360,5 |
|              | FC | 45     | 45 | 215 | 165 | 180    | 130 | 14 | 250 | /   | 16 | 4   | 247,5 | 360,5 |
| S122<br>S123 | FA | 45     | 45 | 350 | 185 | 300    | 150 | 18 | 350 | 400 | 18 | 5   | 287   | 413,5 |
|              | FB | 45     | 45 | 300 | 185 | 250    | 150 | 18 | 350 | /   | 18 | 5   | 287   | 413,5 |
|              | FC | 45     | 45 | 265 | 185 | 230    | 150 | 14 | 300 | /   | 18 | 4   | 287   | 413,5 |
| S142<br>S143 | FG | 22°30' | /  | 400 | /   | 350 g6 | /   | 18 | 450 | /   | 20 | 5   | 338,5 | 426   |
| S152<br>S153 | FG | 22°30' | /  | 400 | /   | 350 g6 | /   | 18 | 450 | /   | 20 | 5   | 372,5 | 481   |

4.3.1 Reaction bolt



|           | Dt | Dlt  | Lt   |
|-----------|----|------|------|
| S052/S053 | 40 | 12,5 | 20   |
| S062/S063 | 40 | 12,5 | 20   |
| S082/S083 | 40 | 12,5 | 20   |
| S102/S103 | 60 | 21   | 30   |
| S122/S123 | 60 | 21   | 30   |
| S142/S143 | 60 | 25   | 38,8 |
| S152/S153 | 60 | 25   | 35,5 |

4.3.2 Torque arm - S 142...153



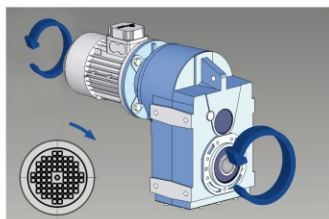
|           | KI  | KH | d  | Lt |
|-----------|-----|----|----|----|
| S142/S143 | 350 | 25 | 45 | 30 |
| S152/S153 | 450 | 25 | 50 | 30 |

## 4.4 BACKSTOP DEVICE

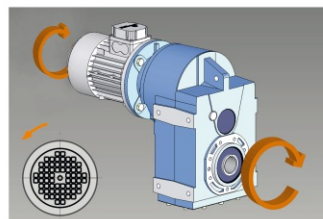
The gear reducer can be supplied with backstop device on input shaft. Backstop device allows output shaft rotation in only one sense of direction; according to the size, it is available in the input flange or in the motor with the same dimensions. It is important to specify the required sense of direction on the order. The backstop device is not available for mounting position V5 with motor size IEC 100...225.

### SENSE OF DIRECTION AVAILABLE

#### S... 2/C-D-L

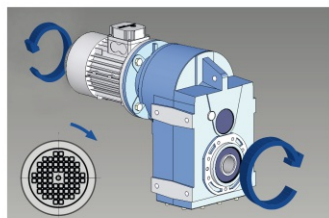


**CLOCKWISE** SENSE OF DIRECTION  
REFERRED TO HIGH SPEED SHAFT

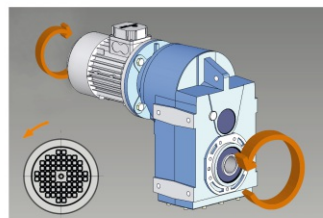


**COUNTER CLOCKWISE** SENSE OF DIRECTION  
REFERRED TO HIGH SPEED SHAFT

#### S... 3/C-D-L



**CLOCKWISE** SENSE OF DIRECTION  
REFERRED TO HIGH SPEED SHAFT

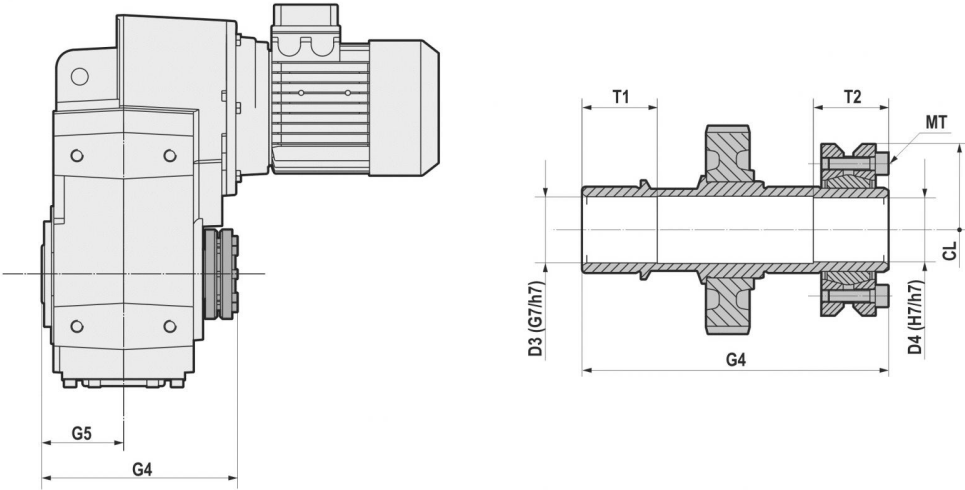


**COUNTER CLOCKWISE** SENSE OF DIRECTION  
REFERRED TO HIGH SPEED SHAFT

|             | 063    | 071    | 080    | 090    | 100-112 | 132    | 160    | 180    | 200    | 225    |
|-------------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
|             | 140x11 | 160x14 | 200x19 | 200x24 | 250x28  | 300x38 | 350x42 | 350x48 | 400x55 | 450x60 |
| <b>S052</b> |        | B5     | B5     | B5     | B5      |        |        |        |        |        |
| <b>S053</b> | B5     | B5     | B5     | B5     |         |        |        |        |        |        |
| <b>S062</b> |        | B5     | B5     | B5     | B5      |        |        |        |        |        |
| <b>S063</b> |        | B5     | B5     | B5     |         |        |        |        |        |        |
| <b>S082</b> |        |        | B5     | B5     | B5      | B5     |        |        |        |        |
| <b>S083</b> |        | B5     | B5     | B5     | B5      |        |        |        |        |        |
| <b>S102</b> |        |        | B5     | B5     | B5      | B5     | B5     |        |        |        |
| <b>S103</b> |        | B5     | B5     | B5     | B5      |        |        |        |        |        |
| <b>S122</b> |        |        | B5     | B5     | B5      | B5     | B5     | B5     | B5     |        |
| <b>S123</b> |        |        | B5     | B5     | B5      | B5     |        |        |        |        |
| <b>S142</b> |        |        |        |        |         | B5     | B5     | B5     | B5     |        |
| <b>S143</b> |        |        |        |        | B5      | B5     | B5     |        |        |        |
| <b>S152</b> |        |        |        |        |         |        | B5     | B5     | B5     | B5     |
| <b>S153</b> |        |        |        |        |         | B5     | B5     | B5     |        |        |

4.5 OUTPUT SHAFT WITH SHRINK DISC

Clean and degrease the surfaces of the shaft to be fitted to. Comply with the indicated tightening torque of screws ( $M_T$ ).  
The shrink disc is designed only to transmit the output torque.  
In case of radial and/or axial loads or V5-V6 mountig positions, please contact the technical support.

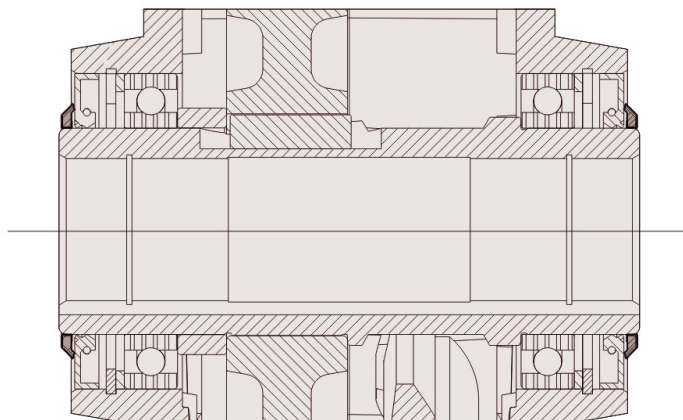


|           | D3 | D4 | G4  | G5  | T1 | T2 | CL  | $M_T$ 12.9 [Nm] |
|-----------|----|----|-----|-----|----|----|-----|-----------------|
| S052/S053 | 31 | 30 | 152 | 60  | 35 | 35 | 74  | 15              |
| S062/S063 | 36 | 35 | 173 | 70  | 40 | 35 | 80  | 15              |
| S082/S083 | 41 | 40 | 217 | 90  | 50 | 40 | 100 | 15              |
| S102/S103 | 51 | 50 | 248 | 105 | 55 | 40 | 115 | 15              |
| S122/S123 | 61 | 60 | 282 | 120 | 60 | 50 | 145 | 40              |

|           | D3 - D4 (H7/h6) | G4  | CL  | $M_T$ 12.9 [Nm] |
|-----------|-----------------|-----|-----|-----------------|
| S142-S143 | 75              | 345 | 155 | 70              |
| S152-S153 | 95              | 405 | 200 | 103             |
|           | 80              |     | 185 |                 |

## 4.6 REINFORCED OIL SEALS FOR OUTPUT SHAFT

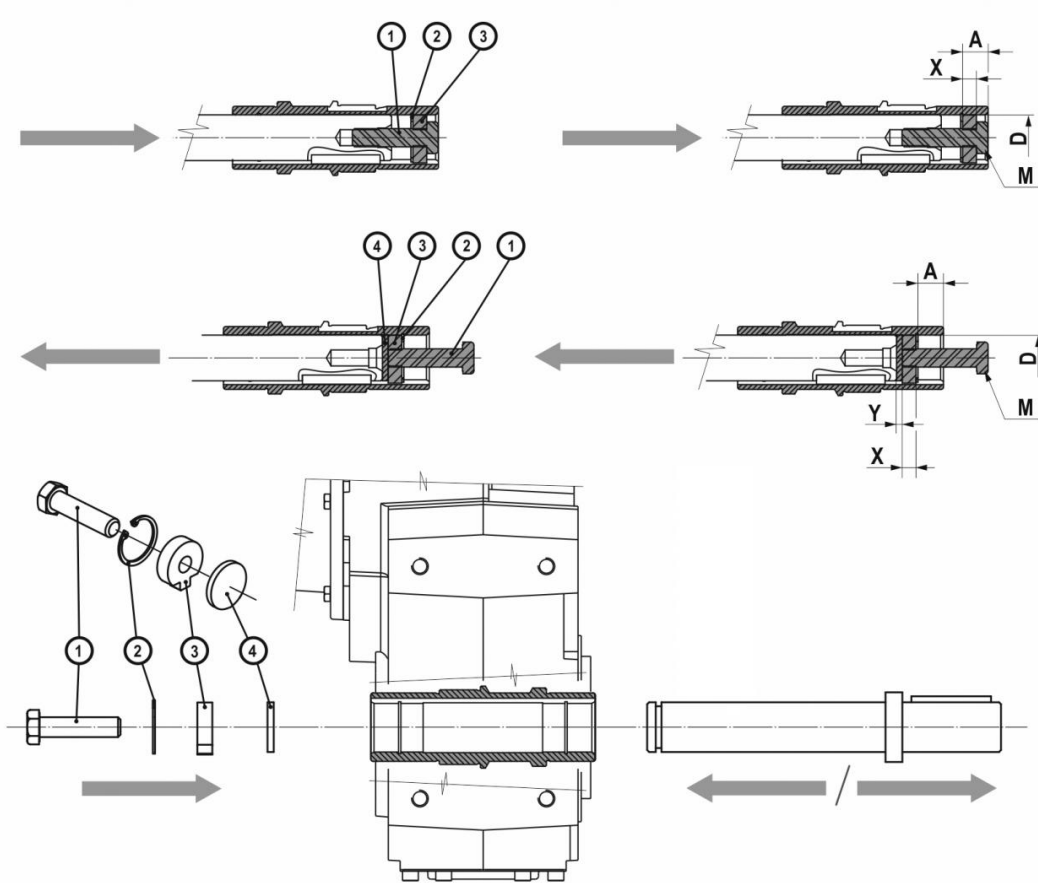
The reinforced seal can be done through the standard oil seal with VRM ring.  
On request the gear reducer can be supplied with fluoroelastomer FPM (FKM) seals.



4.7 ASSEMBLING/DISASSEMBLING KIT

Mounting/dismounting kit for hollow shaft gear reducers with keyway that includes:

- 1. Retaining bolt
- 2. Circlip
- 3. Fixed nut
- 4. Forcing washer



|           | D  | A     | X  | Y | M      |
|-----------|----|-------|----|---|--------|
| S052/S053 | 30 | 13,8  | 10 | 5 | M10x35 |
| S062/S063 | 35 | 12    | 12 | 5 | M16x50 |
| S082/S083 | 40 | 22,25 | 12 | 5 | M16x50 |
|           | 45 |       |    |   |        |
| S102/S103 | 50 | 25    | 12 | 5 | M16x50 |
| S122/S123 | 60 | 28    | 16 | 5 | M20x70 |

## 5.1 S GEARED MOTORS (50Hz)

## 0,09 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------|---------------|--------------|----------------|
| 7,3         | 111        | 3,3 | 117,48 | S053            | 63A  | 6             | 6000         | 6000           |
| 6,3         | 130        | 2,8 | 137,45 | S053            | 63A  | 6             | 6000         | 6000           |
| 4,8         | 168        | 2,2 | 177,55 | S053            | 63A  | 6             | 6000         | 6000           |
| 4,3         | 188        | 2,0 | 198,45 | S053            | 63A  | 6             | 6000         | 6000           |
| 4,0         | 207        | 1,8 | 217,64 | S053            | 63A  | 6             | 6000         | 6000           |
| 3,4         | 243        | 1,5 | 256,33 | S053            | 63A  | 6             | 6000         | 6000           |
| 2,7         | 298        | 1,2 | 314,21 | S053            | 63A  | 6             | 6000         | 6000           |

## 0,12 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------|---------------|--------------|----------------|
| 11,6        | 94         | 3,9 | 74,20  | S053            | 63B  | 6             | 6000         | 6000           |
| 11,4        | 94         | 3,7 | 117,48 | S053            | 63A  | 4             | 6000         | 6000           |
| 11,0        | 99         | 3,7 | 78,14  | S053            | 63B  | 6             | 6000         | 6000           |
| 9,7         | 111        | 3,2 | 137,45 | S053            | 63A  | 4             | 6000         | 6000           |
| 9,0         | 121        | 3,0 | 95,84  | S053            | 63B  | 6             | 6000         | 6000           |
| 7,5         | 143        | 2,5 | 177,55 | S053            | 63A  | 4             | 6000         | 6000           |
| 7,3         | 149        | 2,5 | 117,48 | S053            | 63B  | 6             | 6000         | 6000           |
| 6,8         | 160        | 2,2 | 198,45 | S053            | 63A  | 4             | 6000         | 6000           |
| 6,3         | 174        | 2,1 | 137,45 | S053            | 63B  | 6             | 6000         | 6000           |
| 6,2         | 175        | 2,0 | 217,64 | S053            | 63A  | 4             | 6000         | 6000           |
| 5,2         | 206        | 1,7 | 256,33 | S053            | 63A  | 4             | 6000         | 6000           |
| 4,8         | 225        | 1,6 | 177,55 | S053            | 63B  | 6             | 6000         | 6000           |
| 4,3         | 251        | 1,5 | 198,45 | S053            | 63B  | 6             | 6000         | 6000           |
| 4,3         | 253        | 1,4 | 314,21 | S053            | 63A  | 4             | 6000         | 6000           |
| 4,0         | 275        | 1,3 | 217,64 | S053            | 63B  | 6             | 6000         | 6000           |
| 3,4         | 324        | 1,1 | 256,33 | S053            | 63B  | 6             | 6000         | 6000           |
| 2,7         | 398        | 0,9 | 314,21 | S053            | 63B  | 6             | 6000         | 6000           |

## 0,15 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------|---------------|--------------|----------------|
| 14,0        | 97         | 3,8 | 57,79  | S053            | 63C  | 6             | 6000         | 6000           |
| 12,7        | 107        | 3,4 | 63,74  | S053            | 63C  | 6             | 6000         | 6000           |
| 10,9        | 125        | 2,9 | 74,20  | S053            | 63C  | 6             | 6000         | 6000           |
| 10,4        | 131        | 2,8 | 78,14  | S053            | 63C  | 6             | 6000         | 6000           |
| 8,5         | 161        | 2,3 | 95,84  | S053            | 63C  | 6             | 6000         | 6000           |
| 6,9         | 197        | 1,9 | 117,48 | S053            | 63C  | 6             | 6000         | 6000           |
| 5,9         | 231        | 1,6 | 137,45 | S053            | 63C  | 6             | 6000         | 6000           |
| 4,6         | 298        | 1,2 | 177,55 | S053            | 63C  | 6             | 6000         | 6000           |
| 4,1         | 333        | 1,1 | 198,45 | S053            | 63C  | 6             | 6000         | 6000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,15 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------|-------|------|--------------|----------------|
| 3,7         | 365        | 1,0 | 217,64 | S053            | 63C  |       | 6    | 6000         | 6000           |

## 0,18 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------|-------|------|--------------|----------------|
| 20,4        | 77         | 3,4 | 137,45 | S053            | 63A  |       | 2    | 6000         | 6000           |
| 17,9        | 90         | 3,9 | 74,20  | S053            | 63B  |       | 4    | 6000         | 6000           |
| 17,2        | 97         | 3,8 | 52,25  | S052            | 71A  |       | 6    | 6000         | 6000           |
| 17,0        | 95         | 3,7 | 78,14  | S053            | 63B  |       | 4    | 6000         | 6000           |
| 15,8        | 99         | 2,7 | 177,55 | S053            | 63A  |       | 2    | 6000         | 6000           |
| 15,6        | 107        | 3,4 | 57,86  | S052            | 71A  |       | 6    | 6000         | 6000           |
| 15,6        | 105        | 3,5 | 57,79  | S053            | 71A  |       | 6    | 6000         | 6000           |
| 15,1        | 110        | 3,3 | 59,42  | S052            | 71A  |       | 6    | 6000         | 6000           |
| 14,1        | 116        | 3,2 | 63,74  | S053            | 71A  |       | 6    | 6000         | 6000           |
| 14,1        | 111        | 2,4 | 198,45 | S053            | 63A  |       | 2    | 6000         | 6000           |
| 13,9        | 116        | 3,0 | 95,84  | S053            | 63B  |       | 4    | 6000         | 6000           |
| 12,9        | 121        | 2,2 | 217,64 | S053            | 63A  |       | 2    | 6000         | 6000           |
| 12,4        | 135        | 2,7 | 72,83  | S052            | 71A  |       | 6    | 6000         | 6000           |
| 12,1        | 135        | 2,7 | 74,20  | S053            | 71A  |       | 6    | 6000         | 6000           |
| 11,5        | 142        | 2,6 | 78,14  | S053            | 71A  |       | 6    | 6000         | 6000           |
| 11,3        | 143        | 2,5 | 117,48 | S053            | 63B  |       | 4    | 6000         | 6000           |
| 10,9        | 143        | 1,8 | 256,33 | S053            | 63A  |       | 2    | 6000         | 6000           |
| 9,7         | 167        | 2,1 | 137,45 | S053            | 63B  |       | 4    | 6000         | 6000           |
| 9,4         | 174        | 2,1 | 95,84  | S053            | 71A  |       | 6    | 6000         | 6000           |
| 9,0         | 181        | 3,5 | 99,89  | S063            | 71A  |       | 6    | 10000        | 4000           |
| 8,9         | 175        | 1,5 | 314,21 | S053            | 63A  |       | 2    | 6000         | 6000           |
| 7,7         | 213        | 1,7 | 117,48 | S053            | 71A  |       | 6    | 6000         | 6000           |
| 7,5         | 216        | 1,6 | 177,55 | S053            | 63B  |       | 4    | 6000         | 6000           |
| 7,1         | 229        | 2,7 | 126,43 | S063            | 71A  |       | 6    | 10000        | 4000           |
| 6,7         | 241        | 1,5 | 198,45 | S053            | 63B  |       | 4    | 6000         | 6000           |
| 6,5         | 249        | 1,5 | 137,45 | S053            | 71A  |       | 6    | 6000         | 6000           |
| 6,1         | 264        | 1,3 | 217,64 | S053            | 63B  |       | 4    | 6000         | 6000           |
| 6,0         | 274        | 2,3 | 150,85 | S063            | 71A  |       | 6    | 10000        | 4000           |
| 5,7         | 288        | 3,6 | 158,76 | S083            | 71A  |       | 6    | 18000        | 7200           |
| 5,2         | 311        | 1,1 | 256,33 | S053            | 63B  |       | 4    | 6000         | 6000           |
| 5,1         | 322        | 1,1 | 177,55 | S053            | 71A  |       | 6    | 6000         | 6000           |
| 4,9         | 331        | 1,9 | 182,53 | S063            | 71A  |       | 6    | 10000        | 4000           |
| 4,9         | 336        | 1,9 | 185,05 | S063            | 71A  |       | 6    | 10000        | 4000           |
| 4,9         | 335        | 3,1 | 184,88 | S083            | 71A  |       | 6    | 18000        | 7200           |
| 4,5         | 360        | 1,0 | 198,45 | S053            | 71A  |       | 6    | 6000         | 6000           |
| 4,4         | 368        | 2,9 | 203,11 | S083            | 71A  |       | 6    | 18000        | 7200           |
| 4,4         | 372        | 2,8 | 205,34 | S083            | 71A  |       | 6    | 18000        | 7200           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,18 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------|-------|------|--------------|----------------|
| 4,2         | 382        | 0,9 | 314,21 | S053            | 63B  |       | 4    | 6000         | 6000           |
| 4,1         | 395        | 0,9 | 217,64 | S053            | 71A  |       | 6    | 6000         | 6000           |
| 4,1         | 395        | 1,6 | 217,79 | S063            | 71A  |       | 6    | 10000        | 4000           |
| 4,0         | 410        | 2,6 | 226,04 | S083            | 71A  |       | 6    | 18000        | 7200           |
| 3,6         | 454        | 2,3 | 250,50 | S083            | 71A  |       | 6    | 18000        | 7200           |
| 3,4         | 484        | 1,3 | 267,16 | S063            | 71A  |       | 6    | 10000        | 4000           |
| 3,4         | 483        | 2,2 | 266,13 | S083            | 71A  |       | 6    | 18000        | 7200           |
| 3,3         | 497        | 3,4 | 274,20 | S103            | 71A  |       | 6    | 22000        | 9000           |
| 3,2         | 509        | 3,3 | 280,89 | S103            | 71A  |       | 6    | 22000        | 9000           |
| 3,1         | 530        | 2,0 | 292,36 | S083            | 71A  |       | 6    | 18000        | 7200           |
| 3,1         | 530        | 3,2 | 292,36 | S103            | 71A  |       | 6    | 22000        | 9000           |
| 2,9         | 573        | 1,8 | 315,73 | S083            | 71A  |       | 6    | 18000        | 7200           |
| 2,8         | 582        | 2,9 | 320,79 | S103            | 71A  |       | 6    | 22000        | 9000           |
| 2,6         | 627        | 2,7 | 345,60 | S103            | 71A  |       | 6    | 22000        | 9000           |
| 2,5         | 654        | 1,6 | 360,58 | S083            | 71A  |       | 6    | 18000        | 7200           |
| 2,3         | 716        | 2,3 | 394,69 | S103            | 71A  |       | 6    | 22000        | 9000           |

## 0,22 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------|-------|------|--------------|----------------|
| 20,9        | 95         | 3,7 | 63,74  | S053            | 63C  |       | 4    | 6000         | 6000           |
| 17,9        | 110        | 3,2 | 74,20  | S053            | 63C  |       | 4    | 6000         | 6000           |
| 17,0        | 116        | 3,0 | 78,14  | S053            | 63C  |       | 4    | 6000         | 6000           |
| 13,9        | 142        | 2,5 | 95,84  | S053            | 63C  |       | 4    | 6000         | 6000           |
| 11,3        | 174        | 2,0 | 117,48 | S053            | 63C  |       | 4    | 6000         | 6000           |
| 9,7         | 204        | 1,7 | 137,45 | S053            | 63C  |       | 4    | 6000         | 6000           |
| 7,5         | 264        | 1,3 | 177,55 | S053            | 63C  |       | 4    | 6000         | 6000           |
| 6,7         | 295        | 1,2 | 198,45 | S053            | 63C  |       | 4    | 6000         | 6000           |
| 6,1         | 323        | 1,1 | 217,64 | S053            | 63C  |       | 4    | 6000         | 6000           |
| 5,2         | 381        | 0,9 | 256,33 | S053            | 63C  |       | 4    | 6000         | 6000           |

## 0,25 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|------|-------|------|--------------|----------------|
| 30,0        | 77         | 3,9 | 30,00 | S052            | 71B  |       | 6    | 6000         | 6000           |
| 29,2        | 74         | 3,5 | 95,84 | S053            | 63B  |       | 2    | 6000         | 6000           |
| 27,6        | 84         | 3,8 | 32,55 | S052            | 71B  |       | 6    | 6000         | 6000           |
| 27,3        | 85         | 3,7 | 33,00 | S052            | 71B  |       | 6    | 6000         | 6000           |
| 26,4        | 88         | 3,6 | 34,09 | S052            | 71B  |       | 6    | 6000         | 6000           |
| 24,7        | 92         | 4,0 | 36,50 | S053            | 71B  |       | 6    | 6000         | 6000           |
| 24,6        | 94         | 3,7 | 36,55 | S052            | 71B  |       | 6    | 6000         | 6000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,25 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|-------|------|--------------|----------------|
| 24,0        | 95         | 3,7 | 57,86  | S052            | 71A     |       | 4    | 6000         | 6000           |
| 23,8        | 91         | 2,9 | 117,48 | S053            | 63B     |       | 2    | 6000         | 6000           |
| 23,4        | 98         | 3,6 | 59,42  | S052            | 71A     |       | 4    | 6000         | 6000           |
| 23,2        | 100        | 3,5 | 38,75  | S052            | 71B     |       | 6    | 6000         | 6000           |
| 22,8        | 98         | 3,6 | 57,79  | S053            | 63D/71A |       | 4    | 6000         | 6000           |
| 22,6        | 103        | 3,6 | 39,90  | S052            | 71B     |       | 6    | 6000         | 6000           |
| 21,1        | 110        | 3,4 | 42,63  | S052            | 71B     |       | 6    | 6000         | 6000           |
| 20,7        | 108        | 3,2 | 63,74  | S053            | 63D/71A |       | 4    | 6000         | 6000           |
| 20,4        | 106        | 2,5 | 137,45 | S053            | 63B     |       | 2    | 6000         | 6000           |
| 19,6        | 118        | 3,1 | 46,00  | S052            | 71B     |       | 6    | 6000         | 6000           |
| 19,1        | 121        | 3,0 | 47,20  | S052            | 71B     |       | 6    | 6000         | 6000           |
| 19,1        | 120        | 2,9 | 72,83  | S052            | 71A     |       | 4    | 6000         | 6000           |
| 19,1        | 119        | 3,1 | 47,14  | S053            | 71B     |       | 6    | 6000         | 6000           |
| 17,8        | 126        | 2,8 | 74,20  | S053            | 63D/71A |       | 4    | 6000         | 6000           |
| 17,2        | 134        | 2,7 | 52,25  | S052            | 71B     |       | 6    | 6000         | 6000           |
| 16,9        | 133        | 2,6 | 78,14  | S053            | 63D/71A |       | 4    | 6000         | 6000           |
| 15,8        | 137        | 1,9 | 177,55 | S053            | 63B     |       | 2    | 6000         | 6000           |
| 15,6        | 149        | 2,5 | 57,86  | S052            | 71B     |       | 6    | 6000         | 6000           |
| 15,6        | 146        | 2,5 | 57,79  | S053            | 71B     |       | 6    | 6000         | 6000           |
| 15,1        | 153        | 2,4 | 59,42  | S052            | 71B     |       | 6    | 6000         | 6000           |
| 14,1        | 161        | 2,3 | 63,74  | S053            | 71B     |       | 6    | 6000         | 6000           |
| 14,1        | 153        | 1,7 | 198,45 | S053            | 63B     |       | 2    | 6000         | 6000           |
| 13,9        | 161        | 3,7 | 99,89  | S063            | 71A     |       | 4    | 10000        | 4000           |
| 13,8        | 163        | 2,1 | 95,84  | S053            | 63D/71A |       | 4    | 6000         | 6000           |
| 13,7        | 166        | 3,8 | 65,85  | S063            | 71B     |       | 6    | 10000        | 4000           |
| 13,3        | 174        | 3,6 | 67,47  | S062            | 71B     |       | 6    | 10000        | 4000           |
| 13,2        | 172        | 3,7 | 68,25  | S063            | 71B     |       | 6    | 10000        | 4000           |
| 12,9        | 168        | 1,6 | 217,64 | S053            | 63B     |       | 2    | 6000         | 6000           |
| 12,4        | 187        | 2,0 | 72,83  | S052            | 71B     |       | 6    | 6000         | 6000           |
| 12,2        | 185        | 3,4 | 73,63  | S063            | 71B     |       | 6    | 10000        | 4000           |
| 12,1        | 187        | 2,0 | 74,20  | S053            | 71B     |       | 6    | 6000         | 6000           |
| 11,5        | 197        | 1,9 | 78,14  | S053            | 71B     |       | 6    | 6000         | 6000           |
| 11,2        | 200        | 1,8 | 117,48 | S053            | 63D/71A |       | 4    | 6000         | 6000           |
| 11,1        | 205        | 3,1 | 81,43  | S063            | 71B     |       | 6    | 10000        | 4000           |
| 11,0        | 204        | 2,9 | 126,43 | S063            | 71A     |       | 4    | 10000        | 4000           |
| 10,9        | 198        | 1,3 | 256,33 | S053            | 63B     |       | 2    | 6000         | 6000           |
| 9,6         | 234        | 1,5 | 137,45 | S053            | 63D/71A |       | 4    | 6000         | 6000           |
| 9,4         | 241        | 1,5 | 95,84  | S053            | 71B     |       | 6    | 6000         | 6000           |
| 9,2         | 244        | 2,5 | 150,85 | S063            | 71A     |       | 4    | 10000        | 4000           |
| 9,0         | 252        | 2,5 | 99,89  | S063            | 71B     |       | 6    | 10000        | 4000           |
| 8,9         | 243        | 1,1 | 314,21 | S053            | 63B     |       | 2    | 6000         | 6000           |
| 8,8         | 256        | 3,9 | 158,76 | S083            | 71A     |       | 4    | 18000        | 7200           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,25 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|---------------|--------------|----------------|
| 7,7         | 296        | 1,2 | 117,48 | S053            | 71B     | 6             | 6000         | 6000           |
| 7,7         | 295        | 3,6 | 117,17 | S083            | 71B     | 6             | 18000        | 7200           |
| 7,6         | 295        | 2,0 | 182,53 | S063            | 71A     | 4             | 10000        | 4000           |
| 7,5         | 299        | 2,0 | 185,05 | S063            | 71A     | 4             | 10000        | 4000           |
| 7,5         | 299        | 3,4 | 184,88 | S083            | 71A     | 4             | 18000        | 7200           |
| 7,4         | 302        | 1,2 | 177,55 | S053            | 63D/71A | 4             | 6000         | 6000           |
| 7,1         | 318        | 2,0 | 126,43 | S063            | 71B     | 6             | 10000        | 4000           |
| 7,0         | 324        | 3,2 | 128,73 | S083            | 71B     | 6             | 18000        | 7200           |
| 6,8         | 328        | 3,0 | 203,11 | S083            | 71A     | 4             | 18000        | 7200           |
| 6,8         | 332        | 3,0 | 205,34 | S083            | 71A     | 4             | 18000        | 7200           |
| 6,7         | 337        | 1,0 | 198,45 | S053            | 63D/71A | 4             | 6000         | 6000           |
| 6,6         | 343        | 3,1 | 136,34 | S083            | 71B     | 6             | 18000        | 7200           |
| 6,5         | 346        | 1,1 | 137,45 | S053            | 71B     | 6             | 6000         | 6000           |
| 6,4         | 352        | 1,7 | 217,79 | S063            | 71A     | 4             | 10000        | 4000           |
| 6,1         | 370        | 0,9 | 217,64 | S053            | 63D/71A | 4             | 6000         | 6000           |
| 6,1         | 365        | 2,7 | 226,04 | S083            | 71A     | 4             | 18000        | 7200           |
| 6,0         | 380        | 1,7 | 150,85 | S063            | 71B     | 6             | 10000        | 4000           |
| 5,7         | 400        | 2,6 | 158,76 | S083            | 71B     | 6             | 18000        | 7200           |
| 5,5         | 404        | 2,5 | 250,50 | S083            | 71A     | 4             | 18000        | 7200           |
| 5,2         | 431        | 1,4 | 267,16 | S063            | 71A     | 4             | 10000        | 4000           |
| 5,2         | 430        | 2,3 | 266,13 | S083            | 71A     | 4             | 18000        | 7200           |
| 5,2         | 438        | 3,8 | 173,78 | S103            | 71B     | 6             | 22000        | 9000           |
| 5,1         | 443        | 3,6 | 274,20 | S103            | 71A     | 4             | 22000        | 9000           |
| 4,9         | 460        | 1,4 | 182,53 | S063            | 71B     | 6             | 10000        | 4000           |
| 4,9         | 466        | 1,4 | 185,05 | S063            | 71B     | 6             | 10000        | 4000           |
| 4,9         | 466        | 2,3 | 184,88 | S083            | 71B     | 6             | 18000        | 7200           |
| 4,9         | 454        | 3,5 | 280,89 | S103            | 71A     | 4             | 22000        | 9000           |
| 4,8         | 472        | 2,1 | 292,36 | S083            | 71A     | 4             | 18000        | 7200           |
| 4,8         | 475        | 3,5 | 188,51 | S103            | 71B     | 6             | 22000        | 9000           |
| 4,8         | 472        | 3,4 | 292,36 | S103            | 71A     | 4             | 22000        | 9000           |
| 4,4         | 512        | 2,1 | 203,11 | S083            | 71B     | 6             | 18000        | 7200           |
| 4,4         | 517        | 2,0 | 205,34 | S083            | 71B     | 6             | 18000        | 7200           |
| 4,4         | 510        | 2,0 | 315,73 | S083            | 71A     | 4             | 18000        | 7200           |
| 4,4         | 512        | 3,3 | 203,11 | S103            | 71B     | 6             | 22000        | 9000           |
| 4,3         | 518        | 3,1 | 320,79 | S103            | 71A     | 4             | 22000        | 9000           |
| 4,1         | 549        | 1,1 | 217,79 | S063            | 71B     | 6             | 10000        | 4000           |
| 4,0         | 569        | 1,8 | 226,04 | S083            | 71B     | 6             | 18000        | 7200           |
| 4,0         | 558        | 2,9 | 345,60 | S103            | 71A     | 4             | 22000        | 9000           |
| 4,0         | 561        | 3,0 | 222,85 | S103            | 71B     | 6             | 22000        | 9000           |
| 4,0         | 566        | 3,0 | 224,76 | S103            | 71B     | 6             | 22000        | 9000           |
| 3,9         | 582        | 1,7 | 360,58 | S083            | 71A     | 4             | 18000        | 7200           |
| 3,6         | 631        | 1,7 | 250,50 | S083            | 71B     | 6             | 18000        | 7200           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,25 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------|-------|------|--------------|----------------|
| 3,5         | 637        | 2,5 | 394,69 | S103            | 71A  |       | 4    | 22000        | 9000           |
| 3,4         | 673        | 0,9 | 267,16 | S063            | 71B  |       | 6    | 10000        | 4000           |
| 3,4         | 670        | 1,6 | 266,13 | S083            | 71B  |       | 6    | 18000        | 7200           |
| 3,3         | 691        | 2,4 | 274,20 | S103            | 71B  |       | 6    | 22000        | 9000           |
| 3,2         | 707        | 2,4 | 280,89 | S103            | 71B  |       | 6    | 22000        | 9000           |
| 3,1         | 736        | 1,4 | 292,36 | S083            | 71B  |       | 6    | 18000        | 7200           |
| 3,1         | 736        | 2,3 | 292,36 | S103            | 71B  |       | 6    | 22000        | 9000           |
| 2,9         | 795        | 1,3 | 315,73 | S083            | 71B  |       | 6    | 18000        | 7200           |
| 2,8         | 808        | 2,1 | 320,79 | S103            | 71B  |       | 6    | 22000        | 9000           |
| 2,6         | 870        | 1,9 | 345,60 | S103            | 71B  |       | 6    | 22000        | 9000           |
| 2,5         | 908        | 1,2 | 360,58 | S083            | 71B  |       | 6    | 18000        | 7200           |
| 2,3         | 994        | 1,7 | 394,69 | S103            | 71B  |       | 6    | 22000        | 9000           |

## 0,37 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------|-------|------|--------------|----------------|
| 54,0        | 63         | 4,0 | 16,29 | S052            | 71C     |       | 6    | 5904         | 5904           |
| 48,7        | 67         | 3,9 | 57,86 | S052            | 71A     |       | 2    | 6000         | 6000           |
| 48,3        | 66         | 4,0 | 57,79 | S053            | 63C/71A |       | 2    | 6000         | 6000           |
| 47,5        | 69         | 3,8 | 59,42 | S052            | 71A     |       | 2    | 6000         | 6000           |
| 47,2        | 73         | 3,5 | 18,63 | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 46,0        | 74         | 3,9 | 30,00 | S052            | 71B     |       | 4    | 6000         | 6000           |
| 44,6        | 77         | 3,3 | 19,73 | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 43,8        | 73         | 3,6 | 63,74 | S053            | 63C/71A |       | 2    | 6000         | 6000           |
| 42,4        | 80         | 3,7 | 32,55 | S052            | 71B     |       | 4    | 6000         | 6000           |
| 41,8        | 82         | 3,3 | 21,04 | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 41,8        | 81         | 3,7 | 33,00 | S052            | 71B     |       | 4    | 6000         | 6000           |
| 40,9        | 84         | 3,3 | 21,53 | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 40,5        | 84         | 3,6 | 34,09 | S052            | 71B     |       | 4    | 6000         | 6000           |
| 38,7        | 85         | 3,1 | 72,83 | S052            | 71A     |       | 2    | 6000         | 6000           |
| 37,8        | 90         | 3,7 | 36,55 | S052            | 71B     |       | 4    | 6000         | 6000           |
| 37,8        | 88         | 4,0 | 36,50 | S053            | 71B     |       | 4    | 6000         | 6000           |
| 37,6        | 85         | 3,1 | 74,20 | S053            | 63C/71A |       | 2    | 6000         | 6000           |
| 36,6        | 94         | 2,9 | 24,07 | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 35,7        | 90         | 2,9 | 78,14 | S053            | 63C/71A |       | 2    | 6000         | 6000           |
| 35,6        | 95         | 3,5 | 38,75 | S052            | 71B     |       | 4    | 6000         | 6000           |
| 34,9        | 98         | 3,1 | 25,20 | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 34,6        | 98         | 3,6 | 39,90 | S052            | 71B     |       | 4    | 6000         | 6000           |
| 34,1        | 100        | 3,0 | 25,79 | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 32,4        | 105        | 3,3 | 42,63 | S052            | 71B     |       | 4    | 6000         | 6000           |
| 31,6        | 108        | 2,8 | 27,81 | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 30,0        | 113        | 3,1 | 46,00 | S052            | 71B     |       | 4    | 6000         | 6000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,37 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|---------------|--------------|----------------|
| 29,3        | 117        | 2,6 | 30,00  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 29,3        | 113        | 3,1 | 47,14  | S053            | 71B     | 4             | 6000         | 6000           |
| 29,2        | 116        | 3,0 | 47,20  | S052            | 71B     | 4             | 6000         | 6000           |
| 29,1        | 110        | 2,4 | 95,84  | S053            | 63C/71A | 2             | 6000         | 6000           |
| 28,2        | 114        | 4,0 | 99,89  | S063            | 71A     | 2             | 10000        | 4000           |
| 27,0        | 127        | 2,5 | 32,55  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 26,7        | 128        | 2,5 | 33,00  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 26,4        | 128        | 2,7 | 52,25  | S052            | 71B     | 4             | 6000         | 6000           |
| 25,8        | 133        | 2,4 | 34,09  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 24,1        | 142        | 2,4 | 36,55  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 24,1        | 139        | 2,6 | 36,50  | S053            | 71C/80A | 6             | 6000         | 6000           |
| 23,9        | 139        | 2,5 | 57,79  | S053            | 71B     | 4             | 6000         | 6000           |
| 23,8        | 142        | 2,5 | 57,86  | S052            | 71B     | 4             | 6000         | 6000           |
| 23,7        | 135        | 1,9 | 117,48 | S053            | 63C/71A | 2             | 6000         | 6000           |
| 23,2        | 146        | 2,4 | 59,42  | S052            | 71B     | 4             | 6000         | 6000           |
| 22,7        | 151        | 2,3 | 38,75  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 22,3        | 144        | 3,1 | 126,43 | S063            | 71A     | 2             | 10000        | 4000           |
| 22,1        | 155        | 2,4 | 39,90  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 21,6        | 153        | 2,3 | 63,74  | S053            | 71B     | 4             | 6000         | 6000           |
| 21,0        | 158        | 3,8 | 65,85  | S063            | 71B     | 4             | 10000        | 4000           |
| 20,6        | 166        | 2,2 | 42,63  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 20,5        | 166        | 3,6 | 67,47  | S062            | 71B     | 4             | 10000        | 4000           |
| 20,3        | 158        | 1,7 | 137,45 | S053            | 63C/71A | 2             | 6000         | 6000           |
| 20,2        | 170        | 3,7 | 43,64  | S062            | 71C/80A | 6             | 10000        | 4000           |
| 20,2        | 164        | 3,7 | 68,25  | S063            | 71B     | 4             | 10000        | 4000           |
| 19,1        | 179        | 2,1 | 46,00  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 19,1        | 179        | 3,5 | 46,10  | S062            | 71C/80A | 6             | 10000        | 4000           |
| 18,9        | 179        | 2,0 | 72,83  | S052            | 71B     | 4             | 6000         | 6000           |
| 18,7        | 180        | 2,0 | 47,14  | S053            | 71C/80A | 6             | 6000         | 6000           |
| 18,7        | 177        | 3,4 | 73,63  | S063            | 71B     | 4             | 10000        | 4000           |
| 18,7        | 171        | 2,6 | 150,85 | S063            | 71A     | 2             | 10000        | 4000           |
| 18,6        | 184        | 2,0 | 47,20  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 18,6        | 179        | 2,0 | 74,20  | S053            | 71B     | 4             | 6000         | 6000           |
| 18,2        | 188        | 3,4 | 48,30  | S062            | 71C/80A | 6             | 10000        | 4000           |
| 17,9        | 187        | 3,4 | 49,13  | S063            | 71C/80A | 6             | 10000        | 4000           |
| 17,7        | 188        | 1,9 | 78,14  | S053            | 71B     | 4             | 6000         | 6000           |
| 16,9        | 196        | 3,1 | 81,43  | S063            | 71B     | 4             | 10000        | 4000           |
| 16,8        | 203        | 1,8 | 52,25  | S052            | 71C/80A | 6             | 6000         | 6000           |
| 16,4        | 208        | 3,0 | 53,53  | S062            | 71C/80A | 6             | 10000        | 4000           |
| 16,0        | 214        | 2,9 | 55,00  | S062            | 71C/80A | 6             | 10000        | 4000           |
| 15,9        | 211        | 3,0 | 55,29  | S063            | 71C/80A | 6             | 10000        | 4000           |
| 15,7        | 204        | 1,3 | 177,55 | S053            | 63C/71A | 2             | 6000         | 6000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,37 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|-------|------|--------------|----------------|
| 15,4        | 207        | 2,2 | 182,53 | S063            | 71A     |       | 2    | 10000        | 4000           |
| 15,3        | 210        | 3,6 | 184,88 | S083            | 71A     |       | 2    | 18000        | 7200           |
| 15,2        | 225        | 1,6 | 57,86  | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 15,2        | 220        | 1,7 | 57,79  | S053            | 71C/80A |       | 6    | 6000         | 6000           |
| 15,2        | 210        | 2,1 | 185,05 | S063            | 71A     |       | 2    | 10000        | 4000           |
| 15,0        | 224        | 2,8 | 58,72  | S063            | 71C/80A |       | 6    | 10000        | 4000           |
| 14,8        | 231        | 1,6 | 59,42  | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 14,4        | 231        | 1,5 | 95,84  | S053            | 71B     |       | 4    | 6000         | 6000           |
| 14,1        | 228        | 1,2 | 198,45 | S053            | 63C/71A |       | 2    | 6000         | 6000           |
| 13,9        | 231        | 3,2 | 203,11 | S083            | 71A     |       | 2    | 18000        | 7200           |
| 13,8        | 243        | 1,5 | 63,74  | S053            | 71C/80A |       | 6    | 6000         | 6000           |
| 13,8        | 240        | 2,5 | 99,89  | S063            | 71B     |       | 4    | 10000        | 4000           |
| 13,7        | 233        | 3,2 | 205,34 | S083            | 71A     |       | 2    | 18000        | 7200           |
| 13,4        | 251        | 2,5 | 65,85  | S063            | 71C/80A |       | 6    | 10000        | 4000           |
| 13,0        | 263        | 2,4 | 67,47  | S062            | 71C/80A |       | 6    | 10000        | 4000           |
| 12,9        | 260        | 2,4 | 68,25  | S063            | 71C/80A |       | 6    | 10000        | 4000           |
| 12,9        | 248        | 1,8 | 217,79 | S063            | 71A     |       | 2    | 10000        | 4000           |
| 12,8        | 250        | 1,0 | 217,64 | S053            | 63C/71A |       | 2    | 6000         | 6000           |
| 12,7        | 265        | 4,0 | 74,18  | S083            | 80A     |       | 6    | 18000        | 7200           |
| 12,5        | 257        | 2,9 | 226,04 | S083            | 71A     |       | 2    | 18000        | 7200           |
| 12,1        | 284        | 1,3 | 72,83  | S052            | 71C/80A |       | 6    | 6000         | 6000           |
| 12,0        | 281        | 2,2 | 73,63  | S063            | 71C/80A |       | 6    | 10000        | 4000           |
| 11,9        | 283        | 1,3 | 74,20  | S053            | 71C/80A |       | 6    | 6000         | 6000           |
| 11,8        | 282        | 3,5 | 117,17 | S083            | 71B     |       | 4    | 18000        | 7200           |
| 11,7        | 283        | 1,2 | 117,48 | S053            | 71B     |       | 4    | 6000         | 6000           |
| 11,5        | 292        | 3,6 | 81,71  | S083            | 80A     |       | 6    | 18000        | 7200           |
| 11,3        | 298        | 1,2 | 78,14  | S053            | 71C/80A |       | 6    | 6000         | 6000           |
| 11,3        | 285        | 2,6 | 250,50 | S083            | 71A     |       | 2    | 18000        | 7200           |
| 10,9        | 304        | 2,0 | 126,43 | S063            | 71B     |       | 4    | 10000        | 4000           |
| 10,8        | 310        | 2,0 | 81,43  | S063            | 71C/80A |       | 6    | 10000        | 4000           |
| 10,7        | 310        | 3,2 | 128,73 | S083            | 71B     |       | 4    | 18000        | 7200           |
| 10,6        | 304        | 1,5 | 267,16 | S063            | 71A     |       | 2    | 10000        | 4000           |
| 10,6        | 302        | 2,5 | 266,13 | S083            | 71A     |       | 2    | 18000        | 7200           |
| 10,3        | 327        | 3,2 | 91,49  | S083            | 80A     |       | 6    | 18000        | 7200           |
| 10,3        | 312        | 3,9 | 274,20 | S103            | 71A     |       | 2    | 22000        | 9000           |
| 10,1        | 328        | 3,0 | 136,34 | S083            | 71B     |       | 4    | 18000        | 7200           |
| 10,0        | 331        | 1,1 | 137,45 | S053            | 71B     |       | 4    | 6000         | 6000           |
| 10,0        | 319        | 3,8 | 280,89 | S103            | 71A     |       | 2    | 22000        | 9000           |
| 9,6         | 332        | 2,3 | 292,36 | S083            | 71A     |       | 2    | 18000        | 7200           |
| 9,6         | 332        | 3,6 | 292,36 | S103            | 71A     |       | 2    | 22000        | 9000           |
| 9,3         | 359        | 2,9 | 100,62 | S083            | 80A     |       | 6    | 18000        | 7200           |
| 9,2         | 365        | 1,0 | 95,84  | S053            | 71C/80A |       | 6    | 6000         | 6000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,37 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|---------------|--------------|----------------|
| 9,1         | 363        | 1,7 | 150,85 | S063            | 71B     | 4             | 10000        | 4000           |
| 8,9         | 359        | 2,1 | 315,73 | S083            | 71A     | 2             | 18000        | 7200           |
| 8,8         | 381        | 1,7 | 99,89  | S063            | 71C/80A | 6             | 10000        | 4000           |
| 8,8         | 365        | 3,3 | 320,79 | S103            | 71A     | 2             | 22000        | 9000           |
| 8,7         | 382        | 2,6 | 158,76 | S083            | 71B     | 4             | 18000        | 7200           |
| 8,2         | 393        | 3,1 | 345,60 | S103            | 71A     | 2             | 22000        | 9000           |
| 8,0         | 421        | 4,0 | 110,55 | S103            | 71C     | 6             | 22000        | 9000           |
| 7,9         | 418        | 3,8 | 173,78 | S103            | 71B     | 4             | 22000        | 9000           |
| 7,8         | 410        | 1,8 | 360,58 | S083            | 71A     | 2             | 18000        | 7200           |
| 7,6         | 439        | 1,4 | 182,53 | S063            | 71B     | 4             | 10000        | 4000           |
| 7,5         | 445        | 1,3 | 185,05 | S063            | 71B     | 4             | 10000        | 4000           |
| 7,5         | 447        | 2,4 | 117,17 | S083            | 71C/80A | 6             | 18000        | 7200           |
| 7,5         | 445        | 2,2 | 184,88 | S083            | 71B     | 4             | 18000        | 7200           |
| 7,3         | 462        | 3,6 | 121,29 | S103            | 71C/80A | 6             | 22000        | 9000           |
| 7,3         | 454        | 3,5 | 188,51 | S103            | 71B     | 4             | 22000        | 9000           |
| 7,1         | 449        | 2,7 | 394,69 | S103            | 71A     | 2             | 22000        | 9000           |
| 7,0         | 482        | 1,3 | 126,43 | S063            | 71C/80A | 6             | 10000        | 4000           |
| 6,8         | 491        | 2,1 | 128,73 | S083            | 71C/80A | 6             | 18000        | 7200           |
| 6,8         | 489        | 2,0 | 203,11 | S083            | 71B     | 4             | 18000        | 7200           |
| 6,8         | 491        | 3,4 | 128,73 | S103            | 71C/80A | 6             | 22000        | 9000           |
| 6,8         | 489        | 3,3 | 203,11 | S103            | 71B     | 4             | 22000        | 9000           |
| 6,7         | 494        | 2,0 | 205,34 | S083            | 71B     | 4             | 18000        | 7200           |
| 6,5         | 520        | 2,0 | 136,34 | S083            | 71C/80A | 6             | 18000        | 7200           |
| 6,3         | 524        | 1,1 | 217,79 | S063            | 71B     | 4             | 10000        | 4000           |
| 6,2         | 538        | 3,1 | 141,24 | S103            | 71C/80A | 6             | 22000        | 9000           |
| 6,2         | 536        | 3,0 | 222,85 | S103            | 71B     | 4             | 22000        | 9000           |
| 6,1         | 544        | 1,8 | 226,04 | S083            | 71B     | 4             | 18000        | 7200           |
| 6,1         | 541        | 3,0 | 224,76 | S103            | 71B     | 4             | 22000        | 9000           |
| 5,8         | 575        | 1,1 | 150,85 | S063            | 71C/80A | 6             | 10000        | 4000           |
| 5,5         | 605        | 1,7 | 158,76 | S083            | 71C/80A | 6             | 18000        | 7200           |
| 5,5         | 603        | 1,7 | 250,50 | S083            | 71B     | 4             | 18000        | 7200           |
| 5,2         | 643        | 0,9 | 267,16 | S063            | 71B     | 4             | 10000        | 4000           |
| 5,2         | 641        | 1,6 | 266,13 | S083            | 71B     | 4             | 18000        | 7200           |
| 5,1         | 660        | 1,0 | 185,05 | S063            | 80A     | 6             | 10000        | 4000           |
| 5,1         | 662        | 2,5 | 173,78 | S103            | 71C/80A | 6             | 22000        | 9000           |
| 5,0         | 660        | 2,4 | 274,20 | S103            | 71B     | 4             | 22000        | 9000           |
| 4,9         | 676        | 2,4 | 280,89 | S103            | 71B     | 4             | 22000        | 9000           |
| 4,8         | 696        | 0,9 | 182,53 | S063            | 71C/80A | 6             | 10000        | 4000           |
| 4,8         | 705        | 1,5 | 184,88 | S083            | 71C/80A | 6             | 18000        | 7200           |
| 4,7         | 704        | 1,4 | 292,36 | S083            | 71B     | 4             | 18000        | 7200           |
| 4,7         | 704        | 2,3 | 292,36 | S103            | 71B     | 4             | 22000        | 9000           |
| 4,7         | 719        | 2,3 | 188,51 | S103            | 71C/80A | 6             | 22000        | 9000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,37 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|-------|------|--------------|----------------|
| 4,4         | 760        | 1,3 | 315,73 | S083            | 71B     |       | 4    | 18000        | 7200           |
| 4,3         | 774        | 1,4 | 203,11 | S083            | 71C/80A |       | 6    | 18000        | 7200           |
| 4,3         | 783        | 1,3 | 205,34 | S083            | 71C/80A |       | 6    | 18000        | 7200           |
| 4,3         | 774        | 2,2 | 203,11 | S103            | 71C/80A |       | 6    | 22000        | 9000           |
| 4,3         | 772        | 2,1 | 320,79 | S103            | 71B     |       | 4    | 22000        | 9000           |
| 4,0         | 832        | 1,9 | 345,60 | S103            | 71B     |       | 4    | 22000        | 9000           |
| 3,9         | 862        | 1,2 | 226,04 | S083            | 71C/80A |       | 6    | 18000        | 7200           |
| 3,9         | 850        | 2,0 | 222,85 | S103            | 71C/80A |       | 6    | 22000        | 9000           |
| 3,9         | 857        | 2,0 | 224,76 | S103            | 71C/80A |       | 6    | 22000        | 9000           |
| 3,9         | 853        | 3,7 | 238,93 | S123            | 80A     |       | 6    | 30000        | 11200          |
| 3,8         | 868        | 1,2 | 360,58 | S083            | 71B     |       | 4    | 18000        | 7200           |
| 3,7         | 912        | 3,5 | 255,54 | S123            | 80A     |       | 6    | 30000        | 11200          |
| 3,5         | 955        | 1,1 | 250,50 | S083            | 71C/80A |       | 6    | 18000        | 7200           |
| 3,5         | 950        | 1,7 | 394,69 | S103            | 71B     |       | 4    | 22000        | 9000           |
| 3,4         | 1000       | 3,2 | 280,10 | S123            | 80A     |       | 6    | 30000        | 11200          |
| 3,3         | 1015       | 1,0 | 266,13 | S083            | 71C/80A |       | 6    | 18000        | 7200           |
| 3,2         | 1045       | 1,6 | 274,20 | S103            | 71C/80A |       | 6    | 22000        | 9000           |
| 3,1         | 1071       | 1,6 | 280,89 | S103            | 71C/80A |       | 6    | 22000        | 9000           |
| 3,1         | 1075       | 2,9 | 301,16 | S123            | 80A     |       | 6    | 30000        | 11200          |
| 3,0         | 1115       | 0,9 | 292,36 | S083            | 71C/80A |       | 6    | 18000        | 7200           |
| 3,0         | 1127       | 0,9 | 315,73 | S083            | 80A     |       | 6    | 18000        | 7200           |
| 3,0         | 1115       | 1,5 | 292,36 | S103            | 71C/80A |       | 6    | 22000        | 9000           |
| 2,7         | 1223       | 1,4 | 320,79 | S103            | 71C/80A |       | 6    | 22000        | 9000           |
| 2,7         | 1227       | 2,6 | 343,93 | S123            | 80A     |       | 6    | 30000        | 11200          |
| 2,5         | 1317       | 1,3 | 345,60 | S103            | 71C/80A |       | 6    | 22000        | 9000           |
| 2,2         | 1505       | 1,1 | 394,69 | S103            | 71C/80A |       | 6    | 22000        | 9000           |

## 0,55 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------|-------|------|--------------|----------------|
| 107,8       | 47         | 3,8 | 8,63  | S052            | 80B     |       | 6    | 4719         | 4719           |
| 86,3        | 56         | 4,0 | 32,55 | S052            | 71B     |       | 2    | 5046         | 5046           |
| 85,2        | 57         | 3,9 | 33,00 | S052            | 71B     |       | 2    | 5066         | 5066           |
| 83,5        | 61         | 3,3 | 11,14 | S052            | 80B     |       | 6    | 5079         | 5079           |
| 82,4        | 59         | 3,8 | 34,09 | S052            | 71B     |       | 2    | 5113         | 5113           |
| 77,5        | 66         | 3,2 | 12,00 | S052            | 80B     |       | 6    | 5187         | 5187           |
| 76,9        | 63         | 3,9 | 36,55 | S052            | 71B     |       | 2    | 5215         | 5215           |
| 73,5        | 69         | 3,5 | 18,63 | S052            | 71C/80A |       | 4    | 5267         | 5267           |
| 72,5        | 67         | 3,7 | 38,75 | S052            | 71B     |       | 2    | 5302         | 5302           |
| 70,4        | 69         | 3,8 | 39,90 | S052            | 71B     |       | 2    | 5346         | 5346           |
| 69,4        | 73         | 3,3 | 19,73 | S052            | 71C/80A |       | 4    | 5352         | 5352           |
| 68,1        | 75         | 2,9 | 13,66 | S052            | 80B     |       | 6    | 5377         | 5377           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,55 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------|-------|------|--------------|----------------|
| 65,9        | 74         | 3,6 | 42,63 | S052            | 71B     |       | 2    | 5445         | 5445           |
| 65,1        | 77         | 3,4 | 21,04 | S052            | 71C/80A |       | 4    | 5448         | 5448           |
| 63,6        | 79         | 3,3 | 21,53 | S052            | 71C/80A |       | 4    | 5482         | 5482           |
| 61,1        | 80         | 3,3 | 46,00 | S052            | 71B     |       | 2    | 5561         | 5561           |
| 60,9        | 84         | 3,0 | 15,27 | S052            | 80B     |       | 6    | 5544         | 5544           |
| 59,6        | 80         | 3,3 | 47,14 | S053            | 71B     |       | 2    | 5608         | 5608           |
| 59,5        | 82         | 3,2 | 47,20 | S052            | 71B     |       | 2    | 5600         | 5600           |
| 57,1        | 89         | 2,8 | 16,29 | S052            | 80B     |       | 6    | 5641         | 5641           |
| 56,9        | 89         | 2,9 | 24,07 | S052            | 71C/80A |       | 4    | 5651         | 5651           |
| 54,4        | 93         | 3,1 | 25,20 | S052            | 71C/80A |       | 4    | 5721         | 5721           |
| 53,8        | 90         | 2,9 | 52,25 | S052            | 71B     |       | 2    | 5756         | 5756           |
| 53,1        | 95         | 3,1 | 25,79 | S052            | 71C/80A |       | 4    | 5756         | 5756           |
| 49,9        | 102        | 2,5 | 18,63 | S052            | 80B     |       | 6    | 5846         | 5846           |
| 49,3        | 102        | 2,8 | 27,81 | S052            | 71C/80A |       | 4    | 5872         | 5872           |
| 48,6        | 100        | 2,6 | 57,86 | S052            | 71B     |       | 2    | 5915         | 5915           |
| 48,6        | 98         | 2,7 | 57,79 | S053            | 71B     |       | 2    | 5925         | 5925           |
| 47,3        | 103        | 2,6 | 59,42 | S052            | 71B     |       | 2    | 5956         | 5956           |
| 47,1        | 108        | 2,3 | 19,73 | S052            | 80B     |       | 6    | 5933         | 5933           |
| 45,7        | 110        | 2,6 | 30,00 | S052            | 71C/80A |       | 4    | 5989         | 5989           |
| 44,2        | 115        | 2,4 | 21,04 | S052            | 80B     |       | 6    | 6000         | 6000           |
| 44,1        | 108        | 2,4 | 63,74 | S053            | 71B     |       | 2    | 6000         | 6000           |
| 43,2        | 118        | 2,3 | 21,53 | S052            | 80B     |       | 6    | 6000         | 6000           |
| 42,1        | 120        | 2,5 | 32,55 | S052            | 71C/80A |       | 4    | 6000         | 6000           |
| 41,7        | 117        | 3,9 | 67,47 | S062            | 71B     |       | 2    | 10000        | 4000           |
| 41,5        | 121        | 2,5 | 33,00 | S052            | 71C/80A |       | 4    | 6000         | 6000           |
| 41,2        | 116        | 3,9 | 68,25 | S063            | 71B     |       | 2    | 10000        | 4000           |
| 40,2        | 125        | 2,4 | 34,09 | S052            | 71C/80A |       | 4    | 6000         | 6000           |
| 40,1        | 127        | 3,9 | 23,18 | S062            | 80B     |       | 6    | 10000        | 4000           |
| 39,2        | 130        | 3,8 | 23,75 | S062            | 80B     |       | 6    | 10000        | 4000           |
| 38,6        | 132        | 2,1 | 24,07 | S052            | 80B     |       | 6    | 6000         | 6000           |
| 38,6        | 126        | 2,1 | 72,83 | S052            | 71B     |       | 2    | 6000         | 6000           |
| 38,2        | 125        | 3,6 | 73,63 | S063            | 71B     |       | 2    | 10000        | 4000           |
| 37,9        | 126        | 2,1 | 74,20 | S053            | 71B     |       | 2    | 6000         | 6000           |
| 37,5        | 135        | 2,5 | 36,55 | S052            | 71C/80A |       | 4    | 6000         | 6000           |
| 37,5        | 132        | 2,7 | 36,50 | S053            | 71C/80A |       | 4    | 6000         | 6000           |
| 37,0        | 138        | 3,7 | 25,14 | S062            | 80B     |       | 6    | 10000        | 4000           |
| 36,9        | 138        | 2,2 | 25,20 | S052            | 80B     |       | 6    | 6000         | 6000           |
| 36,1        | 141        | 2,2 | 25,79 | S052            | 80B     |       | 6    | 6000         | 6000           |
| 36,0        | 132        | 2,0 | 78,14 | S053            | 71B     |       | 2    | 6000         | 6000           |
| 35,4        | 143        | 2,3 | 38,75 | S052            | 71C/80A |       | 4    | 6000         | 6000           |
| 34,5        | 138        | 3,3 | 81,43 | S063            | 71B     |       | 2    | 10000        | 4000           |
| 34,3        | 147        | 2,4 | 39,90 | S052            | 71C/80A |       | 4    | 6000         | 6000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,55 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|---------------|--------------|----------------|
| 33,6        | 151        | 3,3 | 27,66  | S062            | 80B     | 6             | 10000        | 4000           |
| 33,4        | 152        | 2,0 | 27,81  | S052            | 80B     | 6             | 6000         | 6000           |
| 32,1        | 157        | 2,2 | 42,63  | S052            | 71C/80A | 4             | 6000         | 6000           |
| 31,4        | 161        | 3,7 | 43,64  | S062            | 71C/80A | 4             | 10000        | 4000           |
| 31,0        | 164        | 1,9 | 30,00  | S052            | 80B     | 6             | 6000         | 6000           |
| 31,0        | 164        | 3,2 | 30,00  | S062            | 80B     | 6             | 10000        | 4000           |
| 29,8        | 169        | 2,1 | 46,00  | S052            | 71C/80A | 4             | 6000         | 6000           |
| 29,7        | 170        | 3,5 | 46,10  | S062            | 71C/80A | 4             | 10000        | 4000           |
| 29,3        | 163        | 1,6 | 95,84  | S053            | 71B     | 2             | 6000         | 6000           |
| 29,1        | 170        | 2,1 | 47,14  | S053            | 71C/80A | 4             | 6000         | 6000           |
| 29,0        | 174        | 2,0 | 47,20  | S052            | 71C/80A | 4             | 6000         | 6000           |
| 28,6        | 178        | 1,8 | 32,55  | S052            | 80B     | 6             | 6000         | 6000           |
| 28,4        | 178        | 3,4 | 48,30  | S062            | 71C/80A | 4             | 10000        | 4000           |
| 28,2        | 181        | 1,7 | 33,00  | S052            | 80B     | 6             | 6000         | 6000           |
| 28,1        | 169        | 2,7 | 99,89  | S063            | 71B     | 2             | 10000        | 4000           |
| 27,9        | 177        | 3,4 | 49,13  | S063            | 71C/80A | 4             | 10000        | 4000           |
| 27,7        | 180        | 3,5 | 33,57  | S063            | 80B     | 6             | 10000        | 4000           |
| 27,4        | 186        | 3,1 | 33,93  | S062            | 80B     | 6             | 10000        | 4000           |
| 27,3        | 187        | 1,7 | 34,09  | S052            | 80B     | 6             | 6000         | 6000           |
| 26,2        | 192        | 1,8 | 52,25  | S052            | 71C/80A | 4             | 6000         | 6000           |
| 25,6        | 197        | 3,0 | 53,53  | S062            | 71C/80A | 4             | 10000        | 4000           |
| 25,5        | 196        | 1,9 | 36,50  | S053            | 80B     | 6             | 6000         | 6000           |
| 25,4        | 200        | 1,7 | 36,55  | S052            | 80B     | 6             | 6000         | 6000           |
| 25,4        | 200        | 3,1 | 36,57  | S062            | 80B     | 6             | 10000        | 4000           |
| 24,9        | 202        | 3,0 | 55,00  | S062            | 71C/80A | 4             | 10000        | 4000           |
| 24,8        | 199        | 3,0 | 55,29  | S063            | 71C/80A | 4             | 10000        | 4000           |
| 24,6        | 203        | 3,1 | 37,77  | S063            | 80B     | 6             | 10000        | 4000           |
| 24,0        | 212        | 1,6 | 38,75  | S052            | 80B     | 6             | 6000         | 6000           |
| 24,0        | 199        | 3,8 | 117,17 | S083            | 71B     | 2             | 18000        | 7200           |
| 23,9        | 199        | 1,3 | 117,48 | S053            | 71B     | 2             | 6000         | 6000           |
| 23,7        | 213        | 1,6 | 57,86  | S052            | 71C/80A | 4             | 6000         | 6000           |
| 23,7        | 208        | 1,7 | 57,79  | S053            | 71C/80A | 4             | 6000         | 6000           |
| 23,6        | 216        | 2,9 | 39,38  | S062            | 80B     | 6             | 10000        | 4000           |
| 23,3        | 218        | 1,7 | 39,90  | S052            | 80B     | 6             | 6000         | 6000           |
| 23,3        | 212        | 2,8 | 58,72  | S063            | 71C/80A | 4             | 10000        | 4000           |
| 23,2        | 215        | 2,9 | 40,05  | S063            | 80B     | 6             | 10000        | 4000           |
| 23,1        | 219        | 1,6 | 59,42  | S052            | 71C/80A | 4             | 6000         | 6000           |
| 22,2        | 214        | 2,1 | 126,43 | S063            | 71B     | 2             | 10000        | 4000           |
| 21,8        | 233        | 1,6 | 42,63  | S052            | 80B     | 6             | 6000         | 6000           |
| 21,8        | 218        | 3,4 | 128,73 | S083            | 71B     | 2             | 18000        | 7200           |
| 21,5        | 230        | 1,5 | 63,74  | S053            | 71C/80A | 4             | 6000         | 6000           |
| 21,3        | 239        | 2,6 | 43,64  | S062            | 80B     | 6             | 10000        | 4000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,55 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|---------------|--------------|----------------|
| 20,8        | 237        | 2,5 | 65,85  | S063            | 71C/80A | 4             | 10000        | 4000           |
| 20,6        | 231        | 3,2 | 136,34 | S083            | 71B     | 2             | 18000        | 7200           |
| 20,4        | 233        | 1,1 | 137,45 | S053            | 71B     | 2             | 6000         | 6000           |
| 20,3        | 248        | 2,4 | 67,47  | S062            | 71C/80A | 4             | 10000        | 4000           |
| 20,2        | 252        | 1,5 | 46,00  | S052            | 80B     | 6             | 6000         | 6000           |
| 20,2        | 252        | 2,5 | 46,10  | S062            | 80B     | 6             | 10000        | 4000           |
| 20,1        | 246        | 2,4 | 68,25  | S063            | 71C/80A | 4             | 10000        | 4000           |
| 19,7        | 258        | 1,4 | 47,20  | S052            | 80B     | 6             | 6000         | 6000           |
| 19,7        | 253        | 1,5 | 47,14  | S053            | 80B     | 6             | 6000         | 6000           |
| 19,3        | 264        | 2,4 | 48,30  | S062            | 80B     | 6             | 10000        | 4000           |
| 18,9        | 263        | 2,4 | 49,13  | S063            | 80B     | 6             | 10000        | 4000           |
| 18,9        | 262        | 3,8 | 74,18  | S083            | 80A     | 4             | 18000        | 7200           |
| 18,8        | 268        | 1,3 | 72,83  | S052            | 71C/80A | 4             | 6000         | 6000           |
| 18,6        | 265        | 2,3 | 73,63  | S063            | 71C/80A | 4             | 10000        | 4000           |
| 18,6        | 256        | 1,8 | 150,85 | S063            | 71B     | 2             | 10000        | 4000           |
| 18,5        | 267        | 1,3 | 74,20  | S053            | 71C/80A | 4             | 6000         | 6000           |
| 18,5        | 275        | 3,8 | 50,25  | S082            | 80B     | 6             | 18000        | 7200           |
| 17,8        | 286        | 1,3 | 52,25  | S052            | 80B     | 6             | 6000         | 6000           |
| 17,7        | 269        | 2,8 | 158,76 | S083            | 71B     | 2             | 18000        | 7200           |
| 17,5        | 282        | 1,2 | 78,14  | S053            | 71C/80A | 4             | 6000         | 6000           |
| 17,4        | 293        | 2,1 | 53,53  | S062            | 80B     | 6             | 10000        | 4000           |
| 17,1        | 297        | 3,5 | 54,27  | S082            | 80B     | 6             | 18000        | 7200           |
| 17,1        | 288        | 3,5 | 81,71  | S083            | 80A     | 4             | 18000        | 7200           |
| 16,9        | 301        | 2,1 | 55,00  | S062            | 80B     | 6             | 10000        | 4000           |
| 16,8        | 296        | 2,1 | 55,29  | S063            | 80B     | 6             | 10000        | 4000           |
| 16,8        | 293        | 2,0 | 81,43  | S063            | 71C/80A | 4             | 10000        | 4000           |
| 16,1        | 317        | 1,2 | 57,86  | S052            | 80B     | 6             | 6000         | 6000           |
| 16,1        | 310        | 1,2 | 57,79  | S053            | 80B     | 6             | 6000         | 6000           |
| 15,8        | 315        | 2,0 | 58,72  | S063            | 80B     | 6             | 10000        | 4000           |
| 15,7        | 325        | 1,1 | 59,42  | S052            | 80B     | 6             | 6000         | 6000           |
| 15,4        | 309        | 1,5 | 182,53 | S063            | 71B     | 2             | 10000        | 4000           |
| 15,3        | 323        | 3,1 | 91,49  | S083            | 80A     | 4             | 18000        | 7200           |
| 15,2        | 314        | 1,4 | 185,05 | S063            | 71B     | 2             | 10000        | 4000           |
| 15,2        | 313        | 2,4 | 184,88 | S083            | 71B     | 2             | 18000        | 7200           |
| 15,0        | 339        | 3,1 | 61,98  | S082            | 80B     | 6             | 18000        | 7200           |
| 14,9        | 320        | 3,8 | 188,51 | S103            | 71B     | 2             | 22000        | 9000           |
| 14,6        | 342        | 1,1 | 63,74  | S053            | 80B     | 6             | 6000         | 6000           |
| 14,3        | 345        | 1,0 | 95,84  | S053            | 71C/80A | 4             | 6000         | 6000           |
| 14,1        | 353        | 1,8 | 65,85  | S063            | 80B     | 6             | 10000        | 4000           |
| 13,9        | 355        | 2,8 | 100,62 | S083            | 80A     | 4             | 18000        | 7200           |
| 13,8        | 369        | 1,7 | 67,47  | S062            | 80B     | 6             | 10000        | 4000           |
| 13,8        | 362        | 2,9 | 67,52  | S083            | 80B     | 6             | 18000        | 7200           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,55 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|---------------|--------------|----------------|
| 13,8        | 344        | 2,2 | 203,11 | S083            | 71B     | 2             | 18000        | 7200           |
| 13,8        | 344        | 3,5 | 203,11 | S103            | 71B     | 2             | 22000        | 9000           |
| 13,7        | 360        | 1,7 | 99,89  | S063            | 71C/80A | 4             | 10000        | 4000           |
| 13,7        | 348        | 2,2 | 205,34 | S083            | 71B     | 2             | 18000        | 7200           |
| 13,6        | 366        | 1,7 | 68,25  | S063            | 80B     | 6             | 10000        | 4000           |
| 12,9        | 369        | 1,2 | 217,79 | S063            | 71B     | 2             | 10000        | 4000           |
| 12,8        | 399        | 0,9 | 72,83  | S052            | 80B     | 6             | 6000         | 6000           |
| 12,6        | 395        | 1,6 | 73,63  | S063            | 80B     | 6             | 10000        | 4000           |
| 12,6        | 378        | 3,2 | 222,85 | S103            | 71B     | 2             | 22000        | 9000           |
| 12,5        | 398        | 0,9 | 74,20  | S053            | 80B     | 6             | 6000         | 6000           |
| 12,5        | 398        | 2,6 | 74,18  | S083            | 80B     | 6             | 18000        | 7200           |
| 12,5        | 381        | 3,1 | 224,76 | S103            | 71B     | 2             | 22000        | 9000           |
| 12,4        | 383        | 2,0 | 226,04 | S083            | 71B     | 2             | 18000        | 7200           |
| 11,7        | 422        | 2,4 | 117,17 | S083            | 71C/80A | 4             | 18000        | 7200           |
| 11,4        | 437        | 1,4 | 81,43  | S063            | 80B     | 6             | 10000        | 4000           |
| 11,4        | 438        | 2,4 | 81,71  | S083            | 80B     | 6             | 18000        | 7200           |
| 11,4        | 436        | 3,8 | 81,39  | S103            | 80B     | 6             | 22000        | 9000           |
| 11,3        | 437        | 3,7 | 121,29 | S103            | 71C/80A | 4             | 22000        | 9000           |
| 11,2        | 425        | 1,8 | 250,50 | S083            | 71B     | 2             | 18000        | 7200           |
| 10,8        | 456        | 1,3 | 126,43 | S063            | 71C/80A | 4             | 10000        | 4000           |
| 10,6        | 464        | 2,2 | 128,73 | S083            | 71C/80A | 4             | 18000        | 7200           |
| 10,6        | 451        | 1,7 | 266,13 | S083            | 71B     | 2             | 18000        | 7200           |
| 10,6        | 464        | 3,4 | 128,73 | S103            | 71C/80A | 4             | 22000        | 9000           |
| 10,4        | 481        | 3,5 | 89,77  | S103            | 80B     | 6             | 22000        | 9000           |
| 10,2        | 491        | 2,1 | 91,49  | S083            | 80B     | 6             | 18000        | 7200           |
| 10,2        | 465        | 2,6 | 274,20 | S103            | 71B     | 2             | 22000        | 9000           |
| 10,0        | 491        | 2,0 | 136,34 | S083            | 71C/80A | 4             | 18000        | 7200           |
| 10,0        | 476        | 2,5 | 280,89 | S103            | 71B     | 2             | 22000        | 9000           |
| 9,7         | 509        | 3,1 | 141,24 | S103            | 71C/80A | 4             | 22000        | 9000           |
| 9,6         | 496        | 1,5 | 292,36 | S083            | 71B     | 2             | 18000        | 7200           |
| 9,6         | 496        | 2,4 | 292,36 | S103            | 71B     | 2             | 22000        | 9000           |
| 9,3         | 536        | 1,2 | 99,89  | S063            | 80B     | 6             | 10000        | 4000           |
| 9,3         | 537        | 3,1 | 100,15 | S103            | 80B     | 6             | 22000        | 9000           |
| 9,2         | 540        | 1,9 | 100,62 | S083            | 80B     | 6             | 18000        | 7200           |
| 9,1         | 544        | 1,1 | 150,85 | S063            | 71C/80A | 4             | 10000        | 4000           |
| 8,9         | 535        | 1,4 | 315,73 | S083            | 71B     | 2             | 18000        | 7200           |
| 8,8         | 544        | 2,2 | 320,79 | S103            | 71B     | 2             | 22000        | 9000           |
| 8,6         | 572        | 1,7 | 158,76 | S083            | 71C/80A | 4             | 18000        | 7200           |
| 8,4         | 593        | 2,8 | 110,55 | S103            | 80B     | 6             | 22000        | 9000           |
| 8,1         | 586        | 2,0 | 345,60 | S103            | 71B     | 2             | 22000        | 9000           |
| 7,9         | 628        | 1,7 | 117,17 | S083            | 80B     | 6             | 18000        | 7200           |
| 7,9         | 626        | 2,6 | 173,78 | S103            | 71C/80A | 4             | 22000        | 9000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,55 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|-------|------|--------------|----------------|
| 7,8         | 611        | 1,2 | 360,58 | S083            | 71B     |       | 2    | 18000        | 7200           |
| 7,7         | 650        | 2,6 | 121,29 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 7,6         | 653        | 0,9 | 185,05 | S063            | 80A     |       | 4    | 10000        | 4000           |
| 7,5         | 658        | 0,9 | 182,53 | S063            | 71C/80A |       | 4    | 10000        | 4000           |
| 7,4         | 678        | 0,9 | 126,43 | S063            | 80B     |       | 6    | 10000        | 4000           |
| 7,4         | 666        | 1,5 | 184,88 | S083            | 71C/80A |       | 4    | 18000        | 7200           |
| 7,3         | 679        | 2,4 | 188,51 | S103            | 71C/80A |       | 4    | 22000        | 9000           |
| 7,2         | 690        | 1,5 | 128,73 | S083            | 80B     |       | 6    | 18000        | 7200           |
| 7,2         | 690        | 2,4 | 128,73 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 7,1         | 669        | 1,8 | 394,69 | S103            | 71B     |       | 2    | 22000        | 9000           |
| 6,8         | 731        | 1,4 | 136,34 | S083            | 80B     |       | 6    | 18000        | 7200           |
| 6,7         | 732        | 1,4 | 203,11 | S083            | 71C/80A |       | 4    | 18000        | 7200           |
| 6,7         | 740        | 1,4 | 205,34 | S083            | 71C/80A |       | 4    | 18000        | 7200           |
| 6,7         | 732        | 2,2 | 203,11 | S103            | 71C/80A |       | 4    | 22000        | 9000           |
| 6,6         | 757        | 2,2 | 141,24 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 6,5         | 760        | 3,9 | 215,60 | S123            | 80A     |       | 4    | 30000        | 11200          |
| 6,1         | 815        | 1,2 | 226,04 | S083            | 71C/80A |       | 4    | 18000        | 7200           |
| 6,1         | 803        | 2,0 | 222,85 | S103            | 71C/80A |       | 4    | 22000        | 9000           |
| 6,1         | 810        | 2,0 | 224,76 | S103            | 71C/80A |       | 4    | 22000        | 9000           |
| 6,1         | 812        | 3,9 | 151,43 | S123            | 80B     |       | 6    | 30000        | 11200          |
| 5,9         | 851        | 1,2 | 158,76 | S083            | 80B     |       | 6    | 18000        | 7200           |
| 5,9         | 843        | 3,6 | 238,93 | S123            | 80A     |       | 4    | 30000        | 11200          |
| 5,5         | 903        | 1,1 | 250,50 | S083            | 71C/80A |       | 4    | 18000        | 7200           |
| 5,5         | 901        | 3,3 | 255,54 | S123            | 80A     |       | 4    | 30000        | 11200          |
| 5,4         | 932        | 1,8 | 173,78 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 5,2         | 952        | 3,3 | 177,53 | S123            | 80B     |       | 6    | 30000        | 11200          |
| 5,1         | 959        | 1,0 | 266,13 | S083            | 71C/80A |       | 4    | 18000        | 7200           |
| 5,0         | 991        | 1,1 | 184,88 | S083            | 80B     |       | 6    | 18000        | 7200           |
| 5,0         | 988        | 1,6 | 274,20 | S103            | 71C/80A |       | 4    | 22000        | 9000           |
| 5,0         | 988        | 3,0 | 280,10 | S123            | 80A     |       | 4    | 30000        | 11200          |
| 4,9         | 1011       | 1,7 | 188,51 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 4,9         | 1012       | 1,6 | 280,89 | S103            | 71C/80A |       | 4    | 22000        | 9000           |
| 4,8         | 1043       | 3,0 | 194,59 | S123            | 80B     |       | 6    | 30000        | 11200          |
| 4,7         | 1054       | 0,9 | 292,36 | S083            | 71C/80A |       | 4    | 18000        | 7200           |
| 4,7         | 1054       | 1,5 | 292,36 | S103            | 71C/80A |       | 4    | 22000        | 9000           |
| 4,6         | 1089       | 1,0 | 203,11 | S083            | 80B     |       | 6    | 18000        | 7200           |
| 4,6         | 1089       | 1,5 | 203,11 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 4,6         | 1062       | 2,8 | 301,16 | S123            | 80A     |       | 4    | 30000        | 11200          |
| 4,5         | 1101       | 1,0 | 205,34 | S083            | 80B     |       | 6    | 18000        | 7200           |
| 4,3         | 1156       | 1,4 | 320,79 | S103            | 71C/80A |       | 4    | 22000        | 9000           |
| 4,3         | 1156       | 2,7 | 215,60 | S123            | 80B     |       | 6    | 30000        | 11200          |
| 4,2         | 1195       | 1,4 | 222,85 | S103            | 80B     |       | 6    | 22000        | 9000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,55 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|-------|------|--------------|----------------|
| 4,1         | 1205       | 1,4 | 224,76 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 4,1         | 1213       | 2,5 | 343,93 | S123            | 80A     |       | 4    | 30000        | 11200          |
| 4,0         | 1246       | 1,3 | 345,60 | S103            | 71C/80A |       | 4    | 22000        | 9000           |
| 3,9         | 1281       | 2,5 | 238,93 | S123            | 80B     |       | 6    | 30000        | 11200          |
| 3,6         | 1370       | 2,3 | 255,54 | S123            | 80B     |       | 6    | 30000        | 11200          |
| 3,5         | 1422       | 1,1 | 394,69 | S103            | 71C/80A |       | 4    | 22000        | 9000           |
| 3,4         | 1470       | 1,1 | 274,20 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 3,3         | 1506       | 1,1 | 280,89 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 3,3         | 1502       | 2,1 | 280,10 | S123            | 80B     |       | 6    | 30000        | 11200          |
| 3,2         | 1568       | 1,1 | 292,36 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 3,1         | 1615       | 2,0 | 301,16 | S123            | 80B     |       | 6    | 30000        | 11200          |
| 2,9         | 1720       | 1,0 | 320,79 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 2,7         | 1853       | 0,9 | 345,60 | S103            | 80B     |       | 6    | 22000        | 9000           |
| 2,7         | 1844       | 1,7 | 343,93 | S123            | 80B     |       | 6    | 30000        | 11200          |

## 0,75 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------|-------|------|--------------|----------------|
| 141,9       | 47         | 3,9 | 19,73 | S052            | 71C/80A |       | 2    | 4289         | 4289           |
| 133,1       | 50         | 3,9 | 21,04 | S052            | 71C/80A |       | 2    | 4369         | 4369           |
| 130,1       | 51         | 3,8 | 21,53 | S052            | 71C/80A |       | 2    | 4398         | 4398           |
| 125,7       | 55         | 3,5 | 11,14 | S052            | 80B     |       | 4    | 4430         | 4430           |
| 116,7       | 59         | 3,4 | 12,00 | S052            | 80B     |       | 4    | 4523         | 4523           |
| 116,3       | 57         | 3,4 | 24,07 | S052            | 71C/80A |       | 2    | 4538         | 4538           |
| 111,1       | 60         | 3,6 | 25,20 | S052            | 71C/80A |       | 2    | 4597         | 4597           |
| 108,6       | 61         | 3,6 | 25,79 | S052            | 71C/80A |       | 2    | 4627         | 4627           |
| 106,7       | 65         | 2,7 | 8,63  | S052            | 80C/90S |       | 6    | 4633         | 4633           |
| 102,5       | 67         | 3,1 | 13,66 | S052            | 80B     |       | 4    | 4688         | 4688           |
| 100,7       | 66         | 3,3 | 27,81 | S052            | 71C/80A |       | 2    | 4725         | 4725           |
| 93,3        | 71         | 3,1 | 30,00 | S052            | 71C/80A |       | 2    | 4824         | 4824           |
| 91,7        | 75         | 3,2 | 15,27 | S052            | 80B     |       | 4    | 4833         | 4833           |
| 86,0        | 80         | 3,0 | 16,29 | S052            | 80B     |       | 4    | 4916         | 4916           |
| 86,0        | 77         | 2,9 | 32,55 | S052            | 71C/80A |       | 2    | 4932         | 4932           |
| 84,8        | 78         | 2,9 | 33,00 | S052            | 71C/80A |       | 2    | 4950         | 4950           |
| 82,6        | 84         | 2,4 | 11,14 | S052            | 80C/90S |       | 6    | 4964         | 4964           |
| 82,1        | 81         | 2,8 | 34,09 | S052            | 71C/80A |       | 2    | 4993         | 4993           |
| 76,7        | 91         | 2,3 | 12,00 | S052            | 80C/90S |       | 6    | 5062         | 5062           |
| 76,7        | 85         | 3,1 | 36,50 | S053            | 71C/80A |       | 2    | 5095         | 5095           |
| 76,6        | 87         | 2,9 | 36,55 | S052            | 71C/80A |       | 2    | 5086         | 5086           |
| 75,1        | 92         | 2,6 | 18,63 | S052            | 80B     |       | 4    | 5094         | 5094           |
| 72,3        | 92         | 2,7 | 38,75 | S052            | 71C/80A |       | 2    | 5165         | 5165           |
| 71,0        | 97         | 2,5 | 19,73 | S052            | 80B     |       | 4    | 5170         | 5170           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,75 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------|-------|------|--------------|----------------|
| 70,2        | 95         | 2,8 | 39,90 | S052            | 71C/80A |       | 2    | 5205         | 5205           |
| 67,4        | 103        | 2,1 | 13,66 | S052            | 80C/90S |       | 6    | 5233         | 5233           |
| 66,6        | 103        | 2,5 | 21,04 | S052            | 80B     |       | 4    | 5255         | 5255           |
| 65,7        | 101        | 2,6 | 42,63 | S052            | 71C/80A |       | 2    | 5294         | 5294           |
| 65,0        | 106        | 2,5 | 21,53 | S052            | 80B     |       | 4    | 5286         | 5286           |
| 60,9        | 109        | 2,4 | 46,00 | S052            | 71C/80A |       | 2    | 5397         | 5397           |
| 60,2        | 115        | 2,2 | 15,27 | S052            | 80C/90S |       | 6    | 5381         | 5381           |
| 59,4        | 109        | 2,4 | 47,14 | S053            | 71C/80A |       | 2    | 5444         | 5444           |
| 59,3        | 112        | 2,3 | 47,20 | S052            | 71C/80A |       | 2    | 5432         | 5432           |
| 58,2        | 118        | 2,2 | 24,07 | S052            | 80B     |       | 4    | 5435         | 5435           |
| 58,0        | 114        | 3,9 | 48,30 | S062            | 71C/80A |       | 2    | 9811         | 3924           |
| 57,7        | 120        | 3,9 | 15,94 | S062            | 80C/90S |       | 6    | 9788         | 3915           |
| 57,0        | 114        | 3,9 | 49,13 | S063            | 71C/80A |       | 2    | 9873         | 3949           |
| 56,9        | 122        | 3,9 | 16,16 | S062            | 80C/90S |       | 6    | 9827         | 3931           |
| 56,5        | 123        | 2,0 | 16,29 | S052            | 80C/90S |       | 6    | 5467         | 5467           |
| 55,7        | 123        | 3,9 | 25,14 | S062            | 80B     |       | 4    | 9895         | 3958           |
| 55,6        | 124        | 2,3 | 25,20 | S052            | 80B     |       | 4    | 5496         | 5496           |
| 54,3        | 127        | 2,3 | 25,79 | S052            | 80B     |       | 4    | 5527         | 5527           |
| 53,6        | 124        | 2,1 | 52,25 | S052            | 71C/80A |       | 2    | 5570         | 5570           |
| 52,3        | 127        | 3,5 | 53,53 | S062            | 71C/80A |       | 2    | 10000        | 4000           |
| 50,9        | 130        | 3,5 | 55,00 | S062            | 71C/80A |       | 2    | 10000        | 4000           |
| 50,6        | 136        | 3,5 | 27,66 | S062            | 80B     |       | 4    | 10000        | 4000           |
| 50,6        | 128        | 3,5 | 55,29 | S063            | 71C/80A |       | 2    | 10000        | 4000           |
| 50,3        | 137        | 2,1 | 27,81 | S052            | 80B     |       | 4    | 5627         | 5627           |
| 49,4        | 141        | 1,8 | 18,63 | S052            | 80C/90S |       | 6    | 5644         | 5644           |
| 48,5        | 134        | 2,0 | 57,79 | S053            | 71C/80A |       | 2    | 5723         | 5723           |
| 48,4        | 137        | 1,9 | 57,86 | S052            | 71C/80A |       | 2    | 5708         | 5708           |
| 47,7        | 146        | 3,2 | 19,29 | S062            | 80C/90S |       | 6    | 10000        | 4000           |
| 47,7        | 136        | 3,3 | 58,72 | S063            | 71C/80A |       | 2    | 10000        | 4000           |
| 47,1        | 141        | 1,9 | 59,42 | S052            | 71C/80A |       | 2    | 5744         | 5744           |
| 47,1        | 148        | 3,3 | 19,55 | S062            | 80C/90S |       | 6    | 10000        | 4000           |
| 46,7        | 147        | 2,0 | 30,00 | S052            | 80B     |       | 4    | 5727         | 5727           |
| 46,7        | 147        | 3,4 | 30,00 | S062            | 80B     |       | 4    | 10000        | 4000           |
| 46,6        | 149        | 1,7 | 19,73 | S052            | 80C/90S |       | 6    | 5719         | 5719           |
| 43,9        | 148        | 1,8 | 63,74 | S053            | 71C/80A |       | 2    | 5857         | 5857           |
| 43,7        | 159        | 1,7 | 21,04 | S052            | 80C/90S |       | 6    | 5803         | 5803           |
| 43,0        | 160        | 1,9 | 32,55 | S052            | 80B     |       | 4    | 5834         | 5834           |
| 42,7        | 163        | 1,7 | 21,53 | S052            | 80C/90S |       | 6    | 5833         | 5833           |
| 42,5        | 153        | 2,9 | 65,85 | S063            | 71C/80A |       | 2    | 10000        | 4000           |
| 42,4        | 162        | 1,9 | 33,00 | S052            | 80B     |       | 4    | 5852         | 5852           |
| 41,7        | 161        | 3,7 | 33,57 | S063            | 80B     |       | 4    | 10000        | 4000           |
| 41,5        | 160        | 2,8 | 67,47 | S062            | 71C/80A |       | 2    | 10000        | 4000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,75 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size               | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|--------------------|---------------|--------------|----------------|
| 41,3        | 167        | 3,2 | 33,93  | S062            | 80B                | 4             | 10000        | 4000           |
| 41,1        | 167        | 1,8 | 34,09  | S052            | 80B                | 4             | 5894         | 5894           |
| 41,0        | 158        | 2,8 | 68,25  | S063            | 71C/80A            | 2             | 10000        | 4000           |
| 39,7        | 175        | 2,8 | 23,18  | S062            | 80C/90S            | 6             | 10000        | 4000           |
| 38,7        | 179        | 2,8 | 23,75  | S062            | 80C/90S            | 6             | 10000        | 4000           |
| 38,4        | 173        | 1,5 | 72,83  | S052            | 71C/80A            | 2             | 6000         | 6000           |
| 38,4        | 176        | 2,0 | 36,50  | S053            | 80B                | 4             | 6000         | 6000           |
| 38,3        | 179        | 1,8 | 36,55  | S052            | 80B                | 4             | 5983         | 5983           |
| 38,3        | 180        | 3,3 | 36,57  | S062            | 80B                | 4             | 10000        | 4000           |
| 38,2        | 182        | 1,5 | 24,07  | S052            | 80C/90S            | 6             | 5976         | 5976           |
| 38,0        | 171        | 2,6 | 73,63  | S063            | 71C/80A            | 2             | 10000        | 4000           |
| 37,7        | 172        | 1,5 | 74,20  | S053            | 71C/80A            | 2             | 6000         | 6000           |
| 37,1        | 182        | 3,3 | 37,77  | S063            | 80B                | 4             | 10000        | 4000           |
| 36,6        | 190        | 2,7 | 25,14  | S062            | 80C/90S            | 6             | 10000        | 4000           |
| 36,5        | 190        | 1,6 | 25,20  | S052            | 80C/90S            | 6             | 6000         | 6000           |
| 36,1        | 190        | 1,7 | 38,75  | S052            | 80B                | 4             | 6000         | 6000           |
| 35,8        | 181        | 1,4 | 78,14  | S053            | 71C/80A            | 2             | 6000         | 6000           |
| 35,7        | 195        | 1,6 | 25,79  | S052            | 80C/90S            | 6             | 6000         | 6000           |
| 35,6        | 193        | 3,1 | 39,38  | S062            | 80B                | 4             | 10000        | 4000           |
| 35,1        | 196        | 1,8 | 39,90  | S052            | 80B                | 4             | 6000         | 6000           |
| 35,0        | 193        | 3,1 | 40,05  | S063            | 80B                | 4             | 10000        | 4000           |
| 34,4        | 189        | 2,4 | 81,43  | S063            | 71C/80A            | 2             | 10000        | 4000           |
| 34,4        | 189        | 4,0 | 81,71  | S083            | 80A <sup>(1)</sup> | 2             | 18000        | 6781           |
| 33,3        | 209        | 2,4 | 27,66  | S062            | 80C/90S            | 6             | 10000        | 4000           |
| 33,1        | 210        | 1,5 | 27,81  | S052            | 80C/90S            | 6             | 6000         | 6000           |
| 32,8        | 209        | 1,7 | 42,63  | S052            | 80B                | 4             | 6000         | 6000           |
| 32,1        | 214        | 2,8 | 43,64  | S062            | 80B                | 4             | 10000        | 4000           |
| 30,7        | 226        | 1,3 | 30,00  | S052            | 80C/90S            | 6             | 6000         | 6000           |
| 30,7        | 226        | 2,3 | 30,00  | S062            | 80C/90S            | 6             | 10000        | 4000           |
| 30,7        | 212        | 3,5 | 91,49  | S083            | 80A                | 2             | 18000        | 7025           |
| 30,4        | 226        | 1,5 | 46,00  | S052            | 80B                | 4             | 6000         | 6000           |
| 30,4        | 226        | 2,7 | 46,10  | S062            | 80B                | 4             | 10000        | 4000           |
| 29,7        | 232        | 1,5 | 47,20  | S052            | 80B                | 4             | 6000         | 6000           |
| 29,7        | 227        | 1,5 | 47,14  | S053            | 80B                | 4             | 6000         | 6000           |
| 29,2        | 222        | 1,2 | 95,84  | S053            | 71C/80A            | 2             | 6000         | 6000           |
| 29,0        | 237        | 2,5 | 48,30  | S062            | 80B                | 4             | 10000        | 4000           |
| 28,5        | 236        | 2,5 | 49,13  | S063            | 80B                | 4             | 10000        | 4000           |
| 28,3        | 246        | 1,3 | 32,55  | S052            | 80C/90S            | 6             | 6000         | 6000           |
| 28,0        | 232        | 1,9 | 99,89  | S063            | 71C/80A            | 2             | 10000        | 4000           |
| 27,9        | 249        | 1,3 | 33,00  | S052            | 80C/90S            | 6             | 6000         | 6000           |
| 27,9        | 233        | 3,2 | 100,62 | S083            | 80A                | 2             | 18000        | 7200           |
| 27,4        | 248        | 2,5 | 33,57  | S063            | 80C/90S            | 6             | 10000        | 4000           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 0,75 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 27,1        | 256        | 2,2 | 33,93  | S062            | 80C/90S       | 6    | 10000        | 4000           |
| 27,0        | 257        | 1,2 | 34,09  | S052            | 80C/90S       | 6    | 6000         | 6000           |
| 26,8        | 257        | 1,4 | 52,25  | S052            | 80B           | 4    | 6000         | 6000           |
| 26,4        | 264        | 4,0 | 34,91  | S082            | 80C/90S       | 6    | 18000        | 7200           |
| 26,2        | 263        | 2,3 | 53,53  | S062            | 80B           | 4    | 10000        | 4000           |
| 25,9        | 268        | 3,9 | 35,50  | S082            | 80C/90S       | 6    | 18000        | 7200           |
| 25,8        | 267        | 3,8 | 54,27  | S082            | 80B           | 4    | 18000        | 7200           |
| 25,5        | 270        | 2,2 | 55,00  | S062            | 80B           | 4    | 10000        | 4000           |
| 25,3        | 266        | 2,3 | 55,29  | S063            | 80B           | 4    | 10000        | 4000           |
| 25,2        | 276        | 1,3 | 36,55  | S052            | 80C/90S       | 6    | 6000         | 6000           |
| 25,2        | 270        | 1,4 | 36,50  | S053            | 80C/90S       | 6    | 6000         | 6000           |
| 25,2        | 276        | 2,3 | 36,57  | S062            | 80C/90S       | 6    | 10000        | 4000           |
| 24,4        | 279        | 2,3 | 37,77  | S063            | 80C/90S       | 6    | 10000        | 4000           |
| 24,2        | 284        | 1,2 | 57,86  | S052            | 80B           | 4    | 6000         | 6000           |
| 24,2        | 278        | 1,3 | 57,79  | S053            | 80B           | 4    | 6000         | 6000           |
| 23,9        | 272        | 2,8 | 117,17 | S083            | 71C/80A       | 2    | 18000        | 7200           |
| 23,8        | 282        | 2,1 | 58,72  | S063            | 80B           | 4    | 10000        | 4000           |
| 23,7        | 293        | 1,2 | 38,75  | S052            | 80C/90S       | 6    | 6000         | 6000           |
| 23,6        | 292        | 1,2 | 59,42  | S052            | 80B           | 4    | 6000         | 6000           |
| 23,4        | 297        | 2,1 | 39,38  | S062            | 80C/90S       | 6    | 10000        | 4000           |
| 23,1        | 301        | 1,2 | 39,90  | S052            | 80C/90S       | 6    | 6000         | 6000           |
| 23,0        | 296        | 2,1 | 40,05  | S063            | 80C/90S       | 6    | 10000        | 4000           |
| 23,0        | 302        | 3,5 | 40,05  | S082            | 80C/90S       | 6    | 18000        | 7200           |
| 22,6        | 304        | 3,3 | 61,98  | S082            | 80B           | 4    | 18000        | 7200           |
| 22,1        | 293        | 1,5 | 126,43 | S063            | 71C/80A       | 2    | 10000        | 4000           |
| 22,0        | 307        | 1,1 | 63,74  | S053            | 80B           | 4    | 6000         | 6000           |
| 21,8        | 299        | 2,5 | 128,73 | S083            | 71C/80A       | 2    | 18000        | 7200           |
| 21,6        | 322        | 1,1 | 42,63  | S052            | 80C/90S       | 6    | 6000         | 6000           |
| 21,4        | 325        | 3,2 | 43,05  | S082            | 80C/90S       | 6    | 18000        | 7200           |
| 21,3        | 317        | 1,9 | 65,85  | S063            | 80B           | 4    | 10000        | 4000           |
| 21,1        | 329        | 1,9 | 43,64  | S062            | 80C/90S       | 6    | 10000        | 4000           |
| 20,8        | 331        | 1,8 | 67,47  | S062            | 80B           | 4    | 10000        | 4000           |
| 20,7        | 325        | 3,1 | 67,52  | S083            | 80B           | 4    | 18000        | 7200           |
| 20,5        | 328        | 1,8 | 68,25  | S063            | 80B           | 4    | 10000        | 4000           |
| 20,5        | 316        | 2,4 | 136,34 | S083            | 71C/80A       | 2    | 18000        | 7200           |
| 20,0        | 347        | 1,1 | 46,00  | S052            | 80C/90S       | 6    | 6000         | 6000           |
| 20,0        | 348        | 1,8 | 46,10  | S062            | 80C/90S       | 6    | 10000        | 4000           |
| 19,8        | 328        | 3,7 | 141,24 | S103            | 71C/80A       | 2    | 22000        | 9000           |
| 19,5        | 356        | 1,0 | 47,20  | S052            | 80C/90S       | 6    | 6000         | 6000           |
| 19,5        | 348        | 1,1 | 47,14  | S053            | 80C/90S       | 6    | 6000         | 6000           |
| 19,2        | 358        | 1,0 | 72,83  | S052            | 80B           | 4    | 6000         | 6000           |
| 19,0        | 365        | 1,7 | 48,30  | S062            | 80C/90S       | 6    | 10000        | 4000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,75 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|---------------|--------------|----------------|
| 19,0        | 354        | 1,7 | 73,63  | S063            | 80B     | 4             | 10000        | 4000           |
| 18,9        | 357        | 1,0 | 74,20  | S053            | 80B     | 4             | 6000         | 6000           |
| 18,9        | 357        | 2,8 | 74,18  | S083            | 80B     | 4             | 18000        | 7200           |
| 18,7        | 363        | 1,7 | 49,13  | S063            | 80C/90S | 6             | 10000        | 4000           |
| 18,6        | 350        | 1,3 | 150,85 | S063            | 71C/80A | 2             | 10000        | 4000           |
| 18,3        | 379        | 2,8 | 50,25  | S082            | 80C/90S | 6             | 18000        | 7200           |
| 18,3        | 379        | 3,9 | 50,25  | S102            | 80C/90S | 6             | 22000        | 9000           |
| 17,9        | 376        | 0,9 | 78,14  | S053            | 80B     | 4             | 6000         | 6000           |
| 17,6        | 394        | 0,9 | 52,25  | S052            | 80C/90S | 6             | 6000         | 6000           |
| 17,6        | 368        | 2,0 | 158,76 | S083            | 71C/80A | 2             | 18000        | 7200           |
| 17,2        | 404        | 1,6 | 53,53  | S062            | 80C/90S | 6             | 10000        | 4000           |
| 17,2        | 392        | 1,5 | 81,43  | S063            | 80B     | 4             | 10000        | 4000           |
| 17,1        | 393        | 2,5 | 81,71  | S083            | 80B     | 4             | 18000        | 7200           |
| 17,0        | 410        | 2,6 | 54,27  | S082            | 80C/90S | 6             | 18000        | 7200           |
| 16,7        | 415        | 1,5 | 55,00  | S062            | 80C/90S | 6             | 10000        | 4000           |
| 16,7        | 416        | 3,3 | 55,14  | S102            | 80C/90S | 6             | 22000        | 9000           |
| 16,6        | 409        | 1,5 | 55,29  | S063            | 80C/90S | 6             | 10000        | 4000           |
| 16,1        | 403        | 3,0 | 173,78 | S103            | 71C/80A | 2             | 22000        | 9000           |
| 15,7        | 434        | 1,5 | 58,72  | S063            | 80C/90S | 6             | 10000        | 4000           |
| 15,6        | 432        | 3,7 | 89,77  | S103            | 80B     | 4             | 22000        | 9000           |
| 15,5        | 448        | 3,7 | 59,40  | S102            | 80C/90S | 6             | 22000        | 9000           |
| 15,3        | 424        | 1,1 | 182,53 | S063            | 71C/80A | 2             | 10000        | 4000           |
| 15,3        | 440        | 2,3 | 91,49  | S083            | 80B     | 4             | 18000        | 7200           |
| 15,1        | 429        | 1,0 | 185,05 | S063            | 71C/80A | 2             | 10000        | 4000           |
| 15,1        | 429        | 1,7 | 184,88 | S083            | 71C/80A | 2             | 18000        | 7200           |
| 14,9        | 437        | 2,7 | 188,51 | S103            | 71C/80A | 2             | 22000        | 9000           |
| 14,8        | 468        | 2,2 | 61,98  | S082            | 80C/90S | 6             | 18000        | 7200           |
| 14,0        | 487        | 1,3 | 65,85  | S063            | 80C/90S | 6             | 10000        | 4000           |
| 14,0        | 480        | 1,2 | 99,89  | S063            | 80B     | 4             | 10000        | 4000           |
| 14,0        | 482        | 3,3 | 100,15 | S103            | 80B     | 4             | 22000        | 9000           |
| 13,9        | 484        | 2,1 | 100,62 | S083            | 80B     | 4             | 18000        | 7200           |
| 13,8        | 471        | 1,6 | 203,11 | S083            | 71C/80A | 2             | 18000        | 7200           |
| 13,8        | 471        | 2,5 | 203,11 | S103            | 71C/80A | 2             | 22000        | 9000           |
| 13,6        | 509        | 1,2 | 67,47  | S062            | 80C/90S | 6             | 10000        | 4000           |
| 13,6        | 476        | 1,6 | 205,34 | S083            | 71C/80A | 2             | 18000        | 7200           |
| 13,6        | 499        | 2,1 | 67,52  | S083            | 80C/90S | 6             | 18000        | 7200           |
| 13,6        | 512        | 3,3 | 67,84  | S102            | 80C/90S | 6             | 22000        | 9000           |
| 13,5        | 504        | 1,2 | 68,25  | S063            | 80C/90S | 6             | 10000        | 4000           |
| 12,7        | 532        | 3,0 | 110,55 | S103            | 80B     | 4             | 22000        | 9000           |
| 12,6        | 517        | 2,3 | 222,85 | S103            | 71C/80A | 2             | 22000        | 9000           |
| 12,5        | 544        | 1,2 | 73,63  | S063            | 80C/90S | 6             | 10000        | 4000           |
| 12,5        | 522        | 2,3 | 224,76 | S103            | 71C/80A | 2             | 22000        | 9000           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,75 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size    | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------|---------------|--------------|----------------|
| 12,4        | 548        | 1,9 | 74,18  | S083            | 80C/90S | 6             | 18000        | 7200           |
| 12,4        | 524        | 1,4 | 226,04 | S083            | 71C/80A | 2             | 18000        | 7200           |
| 12,4        | 548        | 3,1 | 74,18  | S103            | 80C/90S | 6             | 22000        | 9000           |
| 11,9        | 564        | 1,8 | 117,17 | S083            | 80B     | 4             | 18000        | 7200           |
| 11,5        | 583        | 2,7 | 121,29 | S103            | 80B     | 4             | 22000        | 9000           |
| 11,3        | 602        | 1,0 | 81,43  | S063            | 80C/90S | 6             | 10000        | 4000           |
| 11,3        | 604        | 1,7 | 81,71  | S083            | 80C/90S | 6             | 18000        | 7200           |
| 11,3        | 602        | 2,8 | 81,39  | S103            | 80C/90S | 6             | 22000        | 9000           |
| 11,2        | 581        | 1,3 | 250,50 | S083            | 71C/80A | 2             | 18000        | 7200           |
| 11,1        | 608        | 1,0 | 126,43 | S063            | 80B     | 4             | 10000        | 4000           |
| 11,0        | 591        | 3,8 | 255,54 | S123            | 80A     | 2             | 30000        | 11200          |
| 10,9        | 619        | 1,6 | 128,73 | S083            | 80B     | 4             | 18000        | 7200           |
| 10,9        | 619        | 2,6 | 128,73 | S103            | 80B     | 4             | 22000        | 9000           |
| 10,5        | 618        | 1,2 | 266,13 | S083            | 71C/80A | 2             | 18000        | 7200           |
| 10,3        | 656        | 1,5 | 136,34 | S083            | 80B     | 4             | 18000        | 7200           |
| 10,2        | 663        | 2,5 | 89,77  | S103            | 80C/90S | 6             | 22000        | 9000           |
| 10,2        | 636        | 1,9 | 274,20 | S103            | 71C/80A | 2             | 22000        | 9000           |
| 10,1        | 676        | 1,6 | 91,49  | S083            | 80C/90S | 6             | 18000        | 7200           |
| 10,0        | 652        | 1,8 | 280,89 | S103            | 71C/80A | 2             | 22000        | 9000           |
| 10,0        | 648        | 3,5 | 280,10 | S123            | 80A     | 2             | 30000        | 11200          |
| 9,9         | 679        | 2,4 | 141,24 | S103            | 80B     | 4             | 22000        | 9000           |
| 9,6         | 678        | 1,1 | 292,36 | S083            | 71C/80A | 2             | 18000        | 7200           |
| 9,6         | 678        | 1,8 | 292,36 | S103            | 71C/80A | 2             | 22000        | 9000           |
| 9,3         | 696        | 3,2 | 301,16 | S123            | 80A     | 2             | 30000        | 11200          |
| 9,2         | 740        | 2,3 | 100,15 | S103            | 80C/90S | 6             | 22000        | 9000           |
| 9,1         | 744        | 1,4 | 100,62 | S083            | 80C/90S | 6             | 18000        | 7200           |
| 8,9         | 733        | 1,0 | 315,73 | S083            | 71C/80A | 2             | 18000        | 7200           |
| 8,8         | 764        | 1,3 | 158,76 | S083            | 80B     | 4             | 18000        | 7200           |
| 8,7         | 744        | 1,6 | 320,79 | S103            | 71C/80A | 2             | 22000        | 9000           |
| 8,3         | 817        | 2,1 | 110,55 | S103            | 80C/90S | 6             | 22000        | 9000           |
| 8,2         | 832        | 3,8 | 112,52 | S123            | 80C/90S | 6             | 30000        | 11200          |
| 8,2         | 795        | 2,8 | 343,93 | S123            | 80A     | 2             | 30000        | 11200          |
| 8,1         | 802        | 1,5 | 345,60 | S103            | 71C/80A | 2             | 22000        | 9000           |
| 8,1         | 836        | 1,9 | 173,78 | S103            | 80B     | 4             | 22000        | 9000           |
| 7,9         | 866        | 1,2 | 117,17 | S083            | 80C/90S | 6             | 18000        | 7200           |
| 7,9         | 854        | 3,5 | 177,53 | S123            | 80B     | 4             | 30000        | 11200          |
| 7,6         | 889        | 1,1 | 184,88 | S083            | 80B     | 4             | 18000        | 7200           |
| 7,6         | 897        | 1,9 | 121,29 | S103            | 80C/90S | 6             | 22000        | 9000           |
| 7,5         | 912        | 3,5 | 123,33 | S123            | 80C/90S | 6             | 30000        | 11200          |
| 7,4         | 907        | 1,8 | 188,51 | S103            | 80B     | 4             | 22000        | 9000           |
| 7,2         | 936        | 3,2 | 194,59 | S123            | 80B     | 4             | 30000        | 11200          |
| 7,1         | 951        | 1,1 | 128,73 | S083            | 80C/90S | 6             | 18000        | 7200           |

## 5.1 S GEARED MOTORS (50Hz)

## 0,75 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 7,1         | 951        | 1,8 | 128,73 | S103            | 80C/90S       | 6    | 22000        | 9000           |
| 7,1         | 916        | 1,3 | 394,69 | S103            | 71C/80A       | 2    | 22000        | 9000           |
| 7,1         | 961        | 3,3 | 130,04 | S123            | 80C/90S       | 6    | 30000        | 11200          |
| 6,9         | 977        | 1,0 | 203,11 | S083            | 80B           | 4    | 18000        | 7200           |
| 6,9         | 977        | 1,6 | 203,11 | S103            | 80B           | 4    | 22000        | 9000           |
| 6,9         | 989        | 3,2 | 133,78 | S123            | 80C/90S       | 6    | 30000        | 11200          |
| 6,8         | 987        | 1,0 | 205,34 | S083            | 80B           | 4    | 18000        | 7200           |
| 6,7         | 1008       | 1,0 | 136,34 | S083            | 80C/90S       | 6    | 18000        | 7200           |
| 6,5         | 1044       | 1,6 | 141,24 | S103            | 80C/90S       | 6    | 22000        | 9000           |
| 6,5         | 1037       | 2,9 | 215,60 | S123            | 80B           | 4    | 30000        | 11200          |
| 6,3         | 1072       | 1,5 | 222,85 | S103            | 80B           | 4    | 22000        | 9000           |
| 6,2         | 1087       | 0,9 | 226,04 | S083            | 80B           | 4    | 18000        | 7200           |
| 6,2         | 1081       | 1,5 | 224,76 | S103            | 80B           | 4    | 22000        | 9000           |
| 6,1         | 1119       | 2,8 | 151,43 | S123            | 80C/90S       | 6    | 30000        | 11200          |
| 5,9         | 1149       | 0,9 | 158,76 | S083            | 90S           | 6    | 18000        | 7200           |
| 5,9         | 1149       | 2,6 | 238,93 | S123            | 80B           | 4    | 30000        | 11200          |
| 5,5         | 1229       | 2,4 | 255,54 | S123            | 80B           | 4    | 30000        | 11200          |
| 5,3         | 1284       | 1,3 | 173,78 | S103            | 80C/90S       | 6    | 22000        | 9000           |
| 5,2         | 1312       | 2,4 | 177,53 | S123            | 80C/90S       | 6    | 30000        | 11200          |
| 5,1         | 1319       | 1,2 | 274,20 | S103            | 80B           | 4    | 22000        | 9000           |
| 5,0         | 1351       | 1,2 | 280,89 | S103            | 80B           | 4    | 22000        | 9000           |
| 5,0         | 1347       | 2,2 | 280,10 | S123            | 80B           | 4    | 30000        | 11200          |
| 4,9         | 1393       | 1,2 | 188,51 | S103            | 80C/90S       | 6    | 22000        | 9000           |
| 4,8         | 1406       | 1,1 | 292,36 | S103            | 80B           | 4    | 22000        | 9000           |
| 4,7         | 1438       | 2,2 | 194,59 | S123            | 80C/90S       | 6    | 30000        | 11200          |
| 4,6         | 1448       | 2,1 | 301,16 | S123            | 80B           | 4    | 30000        | 11200          |
| 4,5         | 1501       | 1,1 | 203,11 | S103            | 80C/90S       | 6    | 22000        | 9000           |
| 4,4         | 1543       | 1,0 | 320,79 | S103            | 80B           | 4    | 22000        | 9000           |
| 4,3         | 1594       | 2,0 | 215,60 | S123            | 80C/90S       | 6    | 30000        | 11200          |
| 4,1         | 1662       | 1,0 | 345,60 | S103            | 80B           | 4    | 22000        | 9000           |
| 4,1         | 1647       | 1,0 | 222,85 | S103            | 80C/90S       | 6    | 22000        | 9000           |
| 4,1         | 1661       | 1,0 | 224,76 | S103            | 80C/90S       | 6    | 22000        | 9000           |
| 4,1         | 1654       | 1,8 | 343,93 | S123            | 80B           | 4    | 30000        | 11200          |
| 3,9         | 1766       | 1,8 | 238,93 | S123            | 80C/90S       | 6    | 30000        | 11200          |
| 3,6         | 1889       | 1,7 | 255,54 | S123            | 80C/90S       | 6    | 30000        | 11200          |
| 3,3         | 2070       | 1,5 | 280,10 | S123            | 80C/90S       | 6    | 30000        | 11200          |
| 3,1         | 2226       | 1,4 | 301,16 | S123            | 80C/90S       | 6    | 30000        | 11200          |
| 2,7         | 2542       | 1,2 | 343,93 | S123            | 80C/90S       | 6    | 30000        | 11200          |

## 5.1 S GEARED MOTORS (50Hz)

## 0,92 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size               | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|--------------------|---------------|--------------|----------------|
| 162,3       | 52         | 3,3 | 8,63  | S052            | 80C <sup>(1)</sup> | 4             | 4061         | 4061           |
| 125,7       | 67         | 2,8 | 11,14 | S052            | 80C <sup>(1)</sup> | 4             | 4358         | 4358           |
| 116,7       | 72         | 2,8 | 12,00 | S052            | 80C <sup>(1)</sup> | 4             | 4445         | 4445           |
| 102,5       | 82         | 2,6 | 13,66 | S052            | 80C <sup>(1)</sup> | 4             | 4599         | 4599           |
| 91,7        | 92         | 2,6 | 15,27 | S052            | 80C <sup>(1)</sup> | 4             | 4734         | 4734           |
| 86,0        | 98         | 2,4 | 16,29 | S052            | 80C <sup>(1)</sup> | 4             | 4811         | 4811           |
| 75,1        | 112        | 2,1 | 18,63 | S052            | 80C <sup>(1)</sup> | 4             | 4973         | 4973           |
| 72,6        | 116        | 3,9 | 19,29 | S062            | 80C <sup>(1)</sup> | 4             | 9046         | 3618           |
| 71,6        | 118        | 3,9 | 19,55 | S062            | 80C <sup>(1)</sup> | 4             | 9080         | 3632           |
| 71,0        | 119        | 2,0 | 19,73 | S052            | 80C <sup>(1)</sup> | 4             | 5042         | 5042           |
| 66,6        | 127        | 2,1 | 21,04 | S052            | 80C <sup>(1)</sup> | 4             | 5119         | 5119           |
| 65,0        | 130        | 2,0 | 21,53 | S052            | 80C <sup>(1)</sup> | 4             | 5147         | 5147           |
| 60,4        | 140        | 3,4 | 23,18 | S062            | 80C <sup>(1)</sup> | 4             | 9509         | 3804           |
| 58,9        | 143        | 3,3 | 23,75 | S062            | 80C <sup>(1)</sup> | 4             | 9571         | 3829           |
| 58,2        | 145        | 1,8 | 24,07 | S052            | 80C <sup>(1)</sup> | 4             | 5279         | 5279           |
| 55,7        | 151        | 3,2 | 25,14 | S062            | 80C <sup>(1)</sup> | 4             | 9717         | 3887           |
| 55,6        | 152        | 1,9 | 25,20 | S052            | 80C <sup>(1)</sup> | 4             | 5333         | 5333           |
| 54,3        | 155        | 1,9 | 25,79 | S052            | 80C <sup>(1)</sup> | 4             | 5360         | 5360           |
| 50,6        | 167        | 2,9 | 27,66 | S062            | 80C <sup>(1)</sup> | 4             | 9962         | 3985           |
| 50,3        | 168        | 1,7 | 27,81 | S052            | 80C <sup>(1)</sup> | 4             | 5447         | 5447           |
| 46,7        | 181        | 1,6 | 30,00 | S052            | 80C <sup>(1)</sup> | 4             | 5533         | 5533           |
| 46,7        | 181        | 2,8 | 30,00 | S062            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 43,0        | 196        | 1,5 | 32,55 | S052            | 80C <sup>(1)</sup> | 4             | 5624         | 5624           |
| 42,4        | 199        | 1,5 | 33,00 | S052            | 80C <sup>(1)</sup> | 4             | 5638         | 5638           |
| 41,7        | 198        | 3,0 | 33,57 | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 41,3        | 204        | 2,6 | 33,93 | S062            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 41,1        | 205        | 1,5 | 34,09 | S052            | 80C <sup>(1)</sup> | 4             | 5674         | 5674           |
| 38,4        | 215        | 1,6 | 36,50 | S053            | 80C <sup>(1)</sup> | 4             | 5772         | 5772           |
| 38,3        | 220        | 1,5 | 36,55 | S052            | 80C <sup>(1)</sup> | 4             | 5747         | 5747           |
| 38,3        | 220        | 2,7 | 36,57 | S062            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 37,1        | 223        | 2,7 | 37,77 | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 36,1        | 233        | 1,4 | 38,75 | S052            | 80C <sup>(1)</sup> | 4             | 5807         | 5807           |
| 35,6        | 237        | 2,5 | 39,38 | S062            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 35,1        | 240        | 1,5 | 39,90 | S052            | 80C <sup>(1)</sup> | 4             | 5836         | 5836           |
| 35,0        | 236        | 2,5 | 40,05 | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 32,8        | 257        | 1,4 | 42,63 | S052            | 80C <sup>(1)</sup> | 4             | 5900         | 5900           |
| 32,5        | 259        | 3,9 | 43,05 | S082            | 80C <sup>(1)</sup> | 4             | 18000        | 6845           |
| 32,1        | 263        | 2,3 | 43,64 | S062            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 30,4        | 277        | 1,3 | 46,00 | S052            | 80C <sup>(1)</sup> | 4             | 5970         | 5970           |
| 30,4        | 278        | 2,2 | 46,10 | S062            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 29,7        | 284        | 1,2 | 47,20 | S052            | 80C <sup>(1)</sup> | 4             | 5993         | 5993           |
| 29,7        | 278        | 1,3 | 47,14 | S053            | 80C <sup>(1)</sup> | 4             | 6000         | 6000           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 0,92 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size               | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|--------------------|---------------|--------------|----------------|
| 29,0        | 291        | 2,1 | 48,30  | S062            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 28,5        | 290        | 2,1 | 49,13  | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 27,9        | 303        | 3,3 | 50,25  | S082            | 80C <sup>(1)</sup> | 4             | 18000        | 7175           |
| 26,8        | 315        | 1,1 | 52,25  | S052            | 80C <sup>(1)</sup> | 4             | 6000         | 6000           |
| 26,2        | 322        | 1,9 | 53,53  | S062            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 25,8        | 327        | 3,1 | 54,27  | S082            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |
| 25,5        | 331        | 1,8 | 55,00  | S062            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 25,4        | 332        | 3,9 | 55,14  | S102            | 80C <sup>(1)</sup> | 4             | 22000        | 9000           |
| 25,3        | 326        | 1,8 | 55,29  | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 24,2        | 349        | 1,0 | 57,86  | S052            | 80C <sup>(1)</sup> | 4             | 6000         | 6000           |
| 24,2        | 341        | 1,0 | 57,79  | S053            | 80C <sup>(1)</sup> | 4             | 6000         | 6000           |
| 23,8        | 346        | 1,7 | 58,72  | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 23,6        | 358        | 1,0 | 59,42  | S052            | 80C <sup>(1)</sup> | 4             | 6000         | 6000           |
| 22,6        | 373        | 2,7 | 61,98  | S082            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |
| 22,0        | 376        | 0,9 | 63,74  | S053            | 80C <sup>(1)</sup> | 4             | 6000         | 6000           |
| 21,3        | 388        | 1,5 | 65,85  | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 20,8        | 406        | 1,5 | 67,47  | S062            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 20,7        | 398        | 2,5 | 67,52  | S083            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |
| 20,6        | 409        | 3,9 | 67,84  | S102            | 80C <sup>(1)</sup> | 4             | 22000        | 9000           |
| 20,5        | 403        | 1,5 | 68,25  | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 19,0        | 434        | 1,4 | 73,63  | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 18,9        | 438        | 2,3 | 74,18  | S083            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |
| 18,9        | 438        | 3,7 | 74,18  | S103            | 80C <sup>(1)</sup> | 4             | 22000        | 9000           |
| 17,2        | 480        | 1,2 | 81,43  | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 17,2        | 480        | 3,3 | 81,39  | S103            | 80C <sup>(1)</sup> | 4             | 22000        | 9000           |
| 17,1        | 482        | 2,1 | 81,71  | S083            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |
| 15,6        | 530        | 3,0 | 89,77  | S103            | 80C <sup>(1)</sup> | 4             | 22000        | 9000           |
| 15,3        | 540        | 1,9 | 91,49  | S083            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |
| 14,0        | 589        | 1,0 | 99,89  | S063            | 80C <sup>(1)</sup> | 4             | 10000        | 4000           |
| 14,0        | 591        | 2,7 | 100,15 | S103            | 80C <sup>(1)</sup> | 4             | 22000        | 9000           |
| 13,9        | 594        | 1,7 | 100,62 | S083            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |
| 12,7        | 652        | 2,5 | 110,55 | S103            | 80C <sup>(1)</sup> | 4             | 22000        | 9000           |
| 11,9        | 691        | 1,4 | 117,17 | S083            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |
| 11,5        | 716        | 2,2 | 121,29 | S103            | 80C <sup>(1)</sup> | 4             | 22000        | 9000           |
| 10,9        | 759        | 1,3 | 128,73 | S083            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |
| 10,9        | 759        | 2,1 | 128,73 | S103            | 80C <sup>(1)</sup> | 4             | 22000        | 9000           |
| 10,8        | 767        | 3,9 | 130,04 | S123            | 80C <sup>(1)</sup> | 4             | 30000        | 11200          |
| 10,5        | 789        | 3,8 | 133,78 | S123            | 80C <sup>(1)</sup> | 4             | 30000        | 11200          |
| 10,3        | 804        | 1,2 | 136,34 | S083            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |
| 9,9         | 833        | 1,9 | 141,24 | S103            | 80C <sup>(1)</sup> | 4             | 22000        | 9000           |
| 9,2         | 893        | 3,4 | 151,43 | S123            | 80C <sup>(1)</sup> | 4             | 30000        | 11200          |
| 8,8         | 937        | 1,1 | 158,76 | S083            | 80C <sup>(1)</sup> | 4             | 18000        | 7200           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 0,92 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size               | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|--------------------|-------|------|--------------|----------------|
| 8,1         | 1025       | 1,6 | 173,78 | S103            | 80C <sup>(1)</sup> |       | 4    | 22000        | 9000           |
| 7,9         | 1047       | 2,9 | 177,53 | S123            | 80C <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 7,6         | 1091       | 0,9 | 184,88 | S083            | 80C <sup>(1)</sup> |       | 4    | 18000        | 7200           |
| 7,4         | 1112       | 1,4 | 188,51 | S103            | 80C <sup>(1)</sup> |       | 4    | 22000        | 9000           |
| 7,2         | 1148       | 2,6 | 194,59 | S123            | 80C <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 6,9         | 1198       | 1,3 | 203,11 | S103            | 80C <sup>(1)</sup> |       | 4    | 22000        | 9000           |
| 6,5         | 1272       | 2,4 | 215,60 | S123            | 80C <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 6,3         | 1315       | 1,2 | 222,85 | S103            | 80C <sup>(1)</sup> |       | 4    | 22000        | 9000           |
| 6,2         | 1326       | 1,2 | 224,76 | S103            | 80C <sup>(1)</sup> |       | 4    | 22000        | 9000           |
| 5,9         | 1410       | 2,1 | 238,93 | S123            | 80C <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 5,5         | 1508       | 2,0 | 255,54 | S123            | 80C <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 5,1         | 1618       | 1,0 | 274,20 | S103            | 80C <sup>(1)</sup> |       | 4    | 22000        | 9000           |
| 5,0         | 1657       | 1,0 | 280,89 | S103            | 80C <sup>(1)</sup> |       | 4    | 22000        | 9000           |
| 5,0         | 1652       | 1,8 | 280,10 | S123            | 80C <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 4,8         | 1725       | 0,9 | 292,36 | S103            | 80C <sup>(1)</sup> |       | 4    | 22000        | 9000           |
| 4,6         | 1777       | 1,7 | 301,16 | S123            | 80C <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 4,1         | 2029       | 1,5 | 343,93 | S123            | 80C <sup>(1)</sup> |       | 4    | 30000        | 11200          |

## 1,10 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size      | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|-----------|-------|------|--------------|----------------|
| 254,9       | 38         | 3,7 | 11,14 | S052            | 80B       |       | 2    | 3537         | 3537           |
| 236,7       | 41         | 3,6 | 12,00 | S052            | 80B       |       | 2    | 3614         | 3614           |
| 208,0       | 47         | 3,4 | 13,66 | S052            | 80B       |       | 2    | 3749         | 3749           |
| 185,3       | 53         | 3,4 | 15,27 | S052            | 80B       |       | 2    | 3871         | 3871           |
| 174,4       | 56         | 3,2 | 16,29 | S052            | 80B       |       | 2    | 3937         | 3937           |
| 163,5       | 62         | 2,8 | 8,63  | S052            | 80D/90S   |       | 4    | 3994         | 3994           |
| 152,4       | 64         | 2,8 | 18,63 | S052            | 80B       |       | 2    | 4083         | 4083           |
| 144,0       | 68         | 2,7 | 19,73 | S052            | 80B       |       | 2    | 4146         | 4146           |
| 135,0       | 72         | 2,7 | 21,04 | S052            | 80B       |       | 2    | 4218         | 4218           |
| 131,9       | 74         | 2,6 | 21,53 | S052            | 80B       |       | 2    | 4243         | 4243           |
| 126,6       | 80         | 2,4 | 11,14 | S052            | 80D/90S   |       | 4    | 4273         | 4273           |
| 117,6       | 83         | 2,4 | 24,07 | S052            | 80B       |       | 2    | 4372         | 4372           |
| 117,5       | 86         | 2,3 | 12,00 | S052            | 80D/90S   |       | 4    | 4355         | 4355           |
| 116,3       | 88         | 4,0 | 8,00  | S062            | 90L       |       | 6    | 7819         | 3128           |
| 112,3       | 87         | 2,5 | 25,20 | S052            | 80B       |       | 2    | 4423         | 4423           |
| 109,8       | 89         | 2,5 | 25,79 | S052            | 80B       |       | 2    | 4449         | 4449           |
| 107,8       | 94         | 1,9 | 8,63  | S052            | 90L/100LR |       | 6    | 4445         | 4445           |
| 104,2       | 98         | 3,5 | 8,92  | S062            | 90L/100LR |       | 6    | 8062         | 3225           |
| 103,2       | 98         | 2,2 | 13,66 | S052            | 80D/90S   |       | 4    | 4498         | 4498           |
| 102,7       | 95         | 3,8 | 27,66 | S062            | 80B       |       | 2    | 8124         | 3250           |
| 101,8       | 96         | 2,3 | 27,81 | S052            | 80B       |       | 2    | 4534         | 4534           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 1,10 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size      | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|-----------|---------------|--------------|----------------|
| 97,4        | 105        | 3,6 | 9,55  | S062            | 90L/100LR | 6             | 8215         | 3286           |
| 94,7        | 103        | 2,1 | 30,00 | S052            | 80B       | 2             | 4615         | 4615           |
| 94,7        | 103        | 3,6 | 30,00 | S062            | 80B       | 2             | 8310         | 3324           |
| 91,7        | 110        | 2,2 | 15,27 | S052            | 80D/90S   | 4             | 4629         | 4629           |
| 87,8        | 115        | 3,9 | 15,94 | S062            | 80D/90S   | 4             | 8458         | 3383           |
| 87,4        | 117        | 3,2 | 10,65 | S062            | 90L/100LR | 6             | 8464         | 3385           |
| 87,3        | 112        | 2,0 | 32,55 | S052            | 80B       | 2             | 4707         | 4707           |
| 87,2        | 116        | 3,9 | 16,16 | S062            | 80D/90S   | 4             | 8474         | 3390           |
| 86,1        | 113        | 2,0 | 33,00 | S052            | 80B       | 2             | 4722         | 4722           |
| 86,0        | 117        | 2,0 | 16,29 | S052            | 80D/90S   | 4             | 4700         | 4700           |
| 84,6        | 113        | 4,0 | 33,57 | S063            | 80B       | 2             | 8587         | 3435           |
| 83,5        | 122        | 1,6 | 11,14 | S052            | 90L/100LR | 6             | 4725         | 4725           |
| 83,4        | 117        | 3,5 | 33,93 | S062            | 80B       | 2             | 8604         | 3442           |
| 83,3        | 117        | 1,9 | 34,09 | S052            | 80B       | 2             | 4759         | 4759           |
| 79,4        | 128        | 3,2 | 11,71 | S062            | 90L/100LR | 6             | 8684         | 3473           |
| 77,5        | 131        | 1,6 | 12,00 | S052            | 90L/100LR | 6             | 4805         | 4805           |
| 77,5        | 123        | 2,1 | 36,50 | S053            | 80B       | 2             | 4854         | 4854           |
| 77,4        | 126        | 2,0 | 36,55 | S052            | 80B       | 2             | 4840         | 4840           |
| 77,4        | 126        | 3,6 | 36,57 | S062            | 80B       | 2             | 8781         | 3513           |
| 75,2        | 127        | 3,6 | 37,77 | S063            | 80B       | 2             | 8867         | 3547           |
| 75,1        | 134        | 1,8 | 18,63 | S052            | 80D/90S   | 4             | 4846         | 4846           |
| 73,3        | 133        | 1,9 | 38,75 | S052            | 80B       | 2             | 4901         | 4901           |
| 72,6        | 139        | 3,2 | 19,29 | S062            | 80D/90S   | 4             | 8902         | 3561           |
| 72,1        | 135        | 3,3 | 39,38 | S062            | 80B       | 2             | 8948         | 3579           |
| 71,6        | 141        | 3,3 | 19,55 | S062            | 80D/90S   | 4             | 8934         | 3574           |
| 71,2        | 137        | 1,9 | 39,90 | S052            | 80B       | 2             | 4933         | 4933           |
| 71,2        | 143        | 3,1 | 13,06 | S062            | 90L/100LR | 6             | 8938         | 3575           |
| 71,0        | 142        | 1,7 | 19,73 | S052            | 80D/90S   | 4             | 4907         | 4907           |
| 70,7        | 135        | 3,3 | 40,05 | S063            | 80B       | 2             | 9015         | 3606           |
| 69,6        | 146        | 3,0 | 13,36 | S062            | 90L/100LR | 6             | 8991         | 3596           |
| 68,1        | 150        | 1,5 | 13,66 | S052            | 90L/100LR | 6             | 4942         | 4942           |
| 66,6        | 152        | 1,7 | 21,04 | S052            | 80D/90S   | 4             | 4975         | 4975           |
| 66,4        | 147        | 1,8 | 42,63 | S052            | 80B       | 2             | 5009         | 5009           |
| 65,1        | 150        | 3,0 | 43,64 | S062            | 80B       | 2             | 9194         | 3677           |
| 65,0        | 155        | 1,7 | 21,53 | S052            | 80D/90S   | 4             | 4999         | 4999           |
| 61,7        | 158        | 1,7 | 46,00 | S052            | 80B       | 2             | 5087         | 5087           |
| 61,4        | 159        | 2,8 | 46,10 | S062            | 80B       | 2             | 9334         | 3734           |
| 60,9        | 167        | 1,5 | 15,27 | S052            | 90L/100LR | 6             | 5058         | 5058           |
| 60,4        | 167        | 2,8 | 23,18 | S062            | 80D/90S   | 4             | 9336         | 3734           |
| 60,2        | 162        | 1,6 | 47,20 | S052            | 80B       | 2             | 5114         | 5114           |
| 60,0        | 159        | 1,7 | 47,14 | S053            | 80B       | 2             | 5136         | 5136           |
| 58,9        | 171        | 2,7 | 23,75 | S062            | 80D/90S   | 4             | 9394         | 3758           |

## 5.1 S GEARED MOTORS (50Hz)

## 1,10 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size      | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|-----------|---------------|--------------|----------------|
| 58,8        | 166        | 2,7 | 48,30 | S062            | 80B       | 2             | 9438         | 3775           |
| 58,4        | 175        | 2,7 | 15,94 | S062            | 90L/100LR | 6             | 9407         | 3763           |
| 58,2        | 173        | 1,5 | 24,07 | S052            | 80D/90S   | 4             | 5114         | 5114           |
| 57,8        | 165        | 2,7 | 49,13 | S063            | 80B       | 2             | 9501         | 3801           |
| 57,5        | 177        | 2,7 | 16,16 | S062            | 90L/100LR | 6             | 9440         | 3776           |
| 57,1        | 178        | 1,4 | 16,29 | S052            | 90L/100LR | 6             | 5123         | 5123           |
| 55,7        | 181        | 2,7 | 25,14 | S062            | 80D/90S   | 4             | 9529         | 3812           |
| 55,6        | 182        | 1,6 | 25,20 | S052            | 80D/90S   | 4             | 5160         | 5160           |
| 54,3        | 186        | 1,6 | 25,79 | S052            | 80D/90S   | 4             | 5183         | 5183           |
| 54,2        | 180        | 1,5 | 52,25 | S052            | 80B       | 2             | 5224         | 5224           |
| 52,9        | 184        | 2,4 | 53,53 | S062            | 80B       | 2             | 9695         | 3878           |
| 51,5        | 189        | 2,4 | 55,00 | S062            | 80B       | 2             | 9760         | 3904           |
| 51,2        | 186        | 2,4 | 55,29 | S063            | 80B       | 2             | 9798         | 3919           |
| 50,6        | 199        | 2,4 | 27,66 | S062            | 80D/90S   | 4             | 9756         | 3902           |
| 50,3        | 200        | 1,4 | 27,81 | S052            | 80D/90S   | 4             | 5257         | 5257           |
| 49,9        | 204        | 1,2 | 18,63 | S052            | 90L/100LR | 6             | 5253         | 5253           |
| 49,0        | 195        | 1,3 | 57,79 | S053            | 80B       | 2             | 5349         | 5349           |
| 48,9        | 199        | 1,3 | 57,86 | S052            | 80B       | 2             | 5326         | 5326           |
| 48,9        | 208        | 3,9 | 19,03 | S082            | 90L/100LR | 6             | 18000        | 6001           |
| 48,2        | 211        | 2,2 | 19,29 | S062            | 90L/100LR | 6             | 9857         | 3943           |
| 48,2        | 198        | 2,3 | 58,72 | S063            | 80B       | 2             | 9945         | 3978           |
| 47,8        | 204        | 1,3 | 59,42 | S052            | 80B       | 2             | 5348         | 5348           |
| 47,6        | 214        | 2,3 | 19,55 | S062            | 90L/100LR | 6             | 9890         | 3956           |
| 47,1        | 216        | 1,2 | 19,73 | S052            | 90L/100LR | 6             | 5306         | 5306           |
| 46,7        | 216        | 1,3 | 30,00 | S052            | 80D/90S   | 4             | 5328         | 5328           |
| 46,7        | 216        | 2,3 | 30,00 | S062            | 80D/90S   | 4             | 9948         | 3979           |
| 46,2        | 221        | 3,7 | 20,14 | S082            | 90L/100LR | 6             | 18000        | 6107           |
| 45,7        | 213        | 3,5 | 61,98 | S082            | 80B       | 2             | 18000        | 6137           |
| 44,4        | 215        | 1,2 | 63,74 | S053            | 80B       | 2             | 5445         | 5445           |
| 44,2        | 230        | 1,2 | 21,04 | S052            | 90L/100LR | 6             | 5363         | 5363           |
| 43,2        | 236        | 1,2 | 21,53 | S052            | 90L/100LR | 6             | 5383         | 5383           |
| 43,0        | 234        | 1,3 | 32,55 | S052            | 80D/90S   | 4             | 5401         | 5401           |
| 43,0        | 222        | 2,0 | 65,85 | S063            | 80B       | 2             | 10000        | 4000           |
| 42,4        | 238        | 1,3 | 33,00 | S052            | 80D/90S   | 4             | 5413         | 5413           |
| 42,1        | 227        | 3,3 | 67,52 | S083            | 80B       | 2             | 18000        | 6299           |
| 42,0        | 242        | 3,5 | 22,13 | S082            | 90L/100LR | 6             | 18000        | 6285           |
| 41,9        | 232        | 1,9 | 67,47 | S062            | 80B       | 2             | 10000        | 4000           |
| 41,7        | 237        | 2,5 | 33,57 | S063            | 80D/90S   | 4             | 10000        | 4000           |
| 41,5        | 230        | 2,0 | 68,25 | S063            | 80B       | 2             | 10000        | 4000           |
| 41,3        | 244        | 2,2 | 33,93 | S062            | 80D/90S   | 4             | 10000        | 4000           |
| 41,1        | 246        | 1,2 | 34,09 | S052            | 80D/90S   | 4             | 5440         | 5440           |
| 40,1        | 254        | 1,9 | 23,18 | S062            | 90L/100LR | 6             | 10000        | 4000           |

## 5.1 S GEARED MOTORS (50Hz)

## 1,10 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size      | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|--------------------|------|--------------|----------------|
| 40,1        | 251        | 4,0 | 34,91 | S082            | 90S <sup>(1)</sup> | 4    | 18000        | 6378           |
| 39,4        | 256        | 3,9 | 35,50 | S082            | 80D/90S            | 4    | 18000        | 6411           |
| 39,2        | 260        | 1,9 | 23,75 | S062            | 90L/100LR          | 6    | 10000        | 4000           |
| 39,0        | 250        | 1,1 | 72,83 | S052            | 80B                | 2    | 5535         | 5535           |
| 38,8        | 263        | 3,2 | 24,00 | S082            | 90L/100LR          | 6    | 18000        | 6443           |
| 38,6        | 264        | 1,0 | 24,07 | S052            | 90L/100LR          | 6    | 5475         | 5475           |
| 38,4        | 257        | 1,4 | 36,50 | S053            | 80D/90S            | 4    | 5528         | 5528           |
| 38,4        | 248        | 1,8 | 73,63 | S063            | 80B                | 2    | 10000        | 4000           |
| 38,3        | 263        | 1,3 | 36,55 | S052            | 80D/90S            | 4    | 5497         | 5497           |
| 38,3        | 263        | 2,3 | 36,57 | S062            | 80D/90S            | 4    | 10000        | 4000           |
| 38,1        | 250        | 1,1 | 74,20 | S053            | 80B                | 2    | 5585         | 5585           |
| 38,1        | 250        | 3,0 | 74,18 | S083            | 80B                | 2    | 18000        | 6490           |
| 37,1        | 266        | 2,3 | 37,77 | S063            | 80D/90S            | 4    | 10000        | 4000           |
| 37,0        | 275        | 1,8 | 25,14 | S062            | 90L/100LR          | 6    | 10000        | 4000           |
| 36,9        | 276        | 1,1 | 25,20 | S052            | 90L/100LR          | 6    | 5510         | 5510           |
| 36,3        | 262        | 1,0 | 78,14 | S053            | 80B                | 2    | 5626         | 5626           |
| 36,1        | 282        | 1,1 | 25,79 | S052            | 90L/100LR          | 6    | 5527         | 5527           |
| 36,1        | 279        | 1,2 | 38,75 | S052            | 80D/90S            | 4    | 5542         | 5542           |
| 35,7        | 285        | 2,9 | 26,05 | S082            | 90L/100LR          | 6    | 18000        | 6605           |
| 35,6        | 284        | 2,1 | 39,38 | S062            | 80D/90S            | 4    | 10000        | 4000           |
| 35,1        | 287        | 1,2 | 39,90 | S052            | 80D/90S            | 4    | 5563         | 5563           |
| 35,0        | 283        | 2,1 | 40,05 | S063            | 80D/90S            | 4    | 10000        | 4000           |
| 35,0        | 289        | 3,5 | 40,05 | S082            | 80D/90S            | 4    | 18000        | 6650           |
| 34,8        | 274        | 1,6 | 81,43 | S063            | 80B                | 2    | 10000        | 4000           |
| 34,6        | 275        | 2,7 | 81,71 | S083            | 80B                | 2    | 18000        | 6684           |
| 34,1        | 299        | 3,2 | 27,29 | S082            | 90L/100LR          | 6    | 18000        | 6699           |
| 33,6        | 303        | 1,7 | 27,66 | S062            | 90L/100LR          | 6    | 10000        | 4000           |
| 33,4        | 305        | 1,0 | 27,81 | S052            | 90L/100LR          | 6    | 5579         | 5579           |
| 32,8        | 307        | 1,1 | 42,63 | S052            | 80D/90S            | 4    | 5608         | 5608           |
| 32,5        | 310        | 3,2 | 43,05 | S082            | 80D/90S            | 4    | 18000        | 6797           |
| 32,4        | 314        | 3,0 | 28,67 | S082            | 90L/100LR          | 6    | 18000        | 6800           |
| 32,1        | 314        | 1,9 | 43,64 | S062            | 80D/90S            | 4    | 10000        | 4000           |
| 31,5        | 302        | 4,0 | 89,77 | S103            | 80B                | 2    | 22000        | 8490           |
| 31,4        | 324        | 2,9 | 29,60 | S082            | 90L/100LR          | 6    | 18000        | 6865           |
| 31,0        | 329        | 0,9 | 30,00 | S052            | 90L                | 6    | 5626         | 5626           |
| 31,0        | 329        | 1,6 | 30,00 | S062            | 90L/100LR          | 6    | 10000        | 4000           |
| 30,9        | 308        | 2,4 | 91,49 | S083            | 80B                | 2    | 18000        | 6917           |
| 30,4        | 331        | 1,1 | 46,00 | S052            | 80D/90S            | 4    | 5655         | 5655           |
| 30,4        | 332        | 1,8 | 46,10 | S062            | 80D/90S            | 4    | 10000        | 4000           |
| 29,7        | 340        | 1,0 | 47,20 | S052            | 80D/90S            | 4    | 5670         | 5670           |
| 29,7        | 333        | 1,1 | 47,14 | S053            | 80D/90S            | 4    | 5710         | 5710           |
| 29,3        | 348        | 3,0 | 31,78 | S082            | 90L/100LR          | 6    | 18000        | 7012           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 1,10 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 29,2        | 349        | 0,9 | 32,55  | S052            | 100LR         | 6    | 5659         | 5659           |
| 29,0        | 348        | 1,7 | 48,30  | S062            | 80D/90S       | 4    | 10000        | 4000           |
| 28,5        | 347        | 1,7 | 49,13  | S063            | 80D/90S       | 4    | 10000        | 4000           |
| 28,3        | 336        | 1,3 | 99,89  | S063            | 80B           | 2    | 10000        | 4000           |
| 28,3        | 337        | 3,6 | 100,15 | S103            | 80B           | 2    | 22000        | 8785           |
| 28,1        | 339        | 2,2 | 100,62 | S083            | 80B           | 2    | 18000        | 7118           |
| 27,9        | 362        | 2,8 | 50,25  | S082            | 80D/90S       | 4    | 18000        | 7120           |
| 27,9        | 362        | 3,9 | 50,25  | S102            | 80D/90S       | 4    | 22000        | 8809           |
| 27,7        | 360        | 1,8 | 33,57  | S063            | 90L           | 6    | 10000        | 4000           |
| 27,4        | 372        | 1,5 | 33,93  | S062            | 90L/100LR     | 6    | 10000        | 4000           |
| 26,8        | 376        | 0,9 | 52,25  | S052            | 80D/90S       | 4    | 5719         | 5719           |
| 26,6        | 382        | 2,7 | 34,91  | S082            | 90L/100LR     | 6    | 18000        | 7200           |
| 26,6        | 382        | 3,8 | 34,91  | S102            | 90L/100LR     | 6    | 22000        | 8929           |
| 26,2        | 386        | 1,6 | 53,53  | S062            | 80D/90S       | 4    | 10000        | 4000           |
| 26,2        | 389        | 2,7 | 35,50  | S082            | 90L/100LR     | 6    | 18000        | 7200           |
| 25,8        | 391        | 2,6 | 54,27  | S082            | 80D/90S       | 4    | 18000        | 7200           |
| 25,6        | 372        | 3,2 | 110,55 | S103            | 80B           | 2    | 22000        | 9000           |
| 25,5        | 391        | 0,9 | 36,50  | S053            | 90L           | 6    | 5764         | 5764           |
| 25,5        | 396        | 1,5 | 55,00  | S062            | 80D/90S       | 4    | 10000        | 4000           |
| 25,4        | 401        | 1,6 | 36,57  | S062            | 90L/100LR     | 6    | 10000        | 4000           |
| 25,4        | 397        | 3,3 | 55,14  | S102            | 80D/90S       | 4    | 22000        | 9000           |
| 25,3        | 390        | 1,5 | 55,29  | S063            | 80D/90S       | 4    | 10000        | 4000           |
| 24,6        | 405        | 1,6 | 37,77  | S063            | 90L           | 6    | 10000        | 4000           |
| 24,3        | 420        | 3,8 | 38,30  | S102            | 90L/100LR     | 6    | 22000        | 9000           |
| 24,2        | 395        | 1,9 | 117,17 | S083            | 80B           | 2    | 18000        | 7200           |
| 23,8        | 414        | 1,4 | 58,72  | S063            | 80D/90S       | 4    | 10000        | 4000           |
| 23,6        | 431        | 1,5 | 39,38  | S062            | 90L/100LR     | 6    | 10000        | 4000           |
| 23,6        | 428        | 3,7 | 59,40  | S102            | 80D/90S       | 4    | 22000        | 9000           |
| 23,3        | 408        | 2,9 | 121,29 | S103            | 80B           | 2    | 22000        | 9000           |
| 23,2        | 430        | 1,5 | 40,05  | S063            | 90L           | 6    | 10000        | 4000           |
| 23,2        | 439        | 2,4 | 40,05  | S082            | 90L/100LR     | 6    | 18000        | 7200           |
| 22,6        | 446        | 2,2 | 61,98  | S082            | 80D/90S       | 4    | 18000        | 7200           |
| 22,4        | 426        | 1,1 | 126,43 | S063            | 80B           | 2    | 10000        | 4000           |
| 22,0        | 433        | 1,7 | 128,73 | S083            | 80B           | 2    | 18000        | 7200           |
| 22,0        | 433        | 2,8 | 128,73 | S103            | 80B           | 2    | 22000        | 9000           |
| 21,9        | 466        | 3,2 | 42,53  | S102            | 90L/100LR     | 6    | 22000        | 9000           |
| 21,6        | 472        | 2,2 | 43,05  | S082            | 90L/100LR     | 6    | 18000        | 7200           |
| 21,3        | 478        | 1,3 | 43,64  | S062            | 90L/100LR     | 6    | 10000        | 4000           |
| 21,3        | 464        | 1,3 | 65,85  | S063            | 80D/90S       | 4    | 10000        | 4000           |
| 21,1        | 482        | 2,8 | 44,00  | S102            | 90L/100LR     | 6    | 22000        | 9000           |
| 20,8        | 486        | 1,2 | 67,47  | S062            | 80D/90S       | 4    | 10000        | 4000           |
| 20,8        | 459        | 1,6 | 136,34 | S083            | 80B           | 2    | 18000        | 7200           |

## 5.1 S GEARED MOTORS (50Hz)

## 1,10 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 20,7        | 476        | 2,1 | 67,52  | S083            | 80D/90S       | 4    | 18000        | 7200           |
| 20,6        | 489        | 3,3 | 67,84  | S102            | 80D/90S       | 4    | 22000        | 9000           |
| 20,5        | 481        | 1,2 | 68,25  | S063            | 80D/90S       | 4    | 10000        | 4000           |
| 20,2        | 505        | 1,2 | 46,10  | S062            | 90L           | 6    | 10000        | 4000           |
| 20,0        | 476        | 2,5 | 141,24 | S103            | 80B           | 2    | 22000        | 9000           |
| 19,7        | 516        | 3,3 | 47,13  | S102            | 90L/100LR     | 6    | 22000        | 9000           |
| 19,3        | 529        | 1,2 | 48,30  | S062            | 90L/100LR     | 6    | 10000        | 4000           |
| 19,0        | 519        | 1,2 | 73,63  | S063            | 80D/90S       | 4    | 10000        | 4000           |
| 18,9        | 527        | 1,2 | 49,13  | S063            | 90L           | 6    | 10000        | 4000           |
| 18,9        | 523        | 1,9 | 74,18  | S083            | 80D/90S       | 4    | 18000        | 7200           |
| 18,9        | 523        | 3,1 | 74,18  | S103            | 80D/90S       | 4    | 22000        | 9000           |
| 18,5        | 550        | 1,9 | 50,25  | S082            | 90L/100LR     | 6    | 18000        | 7200           |
| 18,5        | 550        | 2,7 | 50,25  | S102            | 90L/100LR     | 6    | 22000        | 9000           |
| 17,8        | 535        | 1,4 | 158,76 | S083            | 80B           | 2    | 18000        | 7200           |
| 17,4        | 586        | 1,1 | 53,53  | S062            | 90L/100LR     | 6    | 10000        | 4000           |
| 17,2        | 574        | 1,0 | 81,43  | S063            | 80D/90S       | 4    | 10000        | 4000           |
| 17,2        | 574        | 2,8 | 81,39  | S103            | 80D/90S       | 4    | 22000        | 9000           |
| 17,1        | 594        | 1,8 | 54,27  | S082            | 90L/100LR     | 6    | 18000        | 7200           |
| 17,1        | 576        | 1,7 | 81,71  | S083            | 80D/90S       | 4    | 18000        | 7200           |
| 16,9        | 602        | 1,0 | 55,00  | S062            | 90L           | 6    | 10000        | 4000           |
| 16,9        | 604        | 2,3 | 55,14  | S102            | 90L/100LR     | 6    | 22000        | 9000           |
| 16,8        | 593        | 1,1 | 55,29  | S063            | 90L           | 6    | 10000        | 4000           |
| 16,3        | 585        | 2,1 | 173,78 | S103            | 80B           | 2    | 22000        | 9000           |
| 15,9        | 598        | 3,8 | 177,53 | S123            | 80B           | 2    | 30000        | 11200          |
| 15,8        | 630        | 1,0 | 58,72  | S063            | 90L           | 6    | 10000        | 4000           |
| 15,7        | 651        | 2,6 | 59,40  | S102            | 90L/100LR     | 6    | 22000        | 9000           |
| 15,6        | 633        | 2,5 | 89,77  | S103            | 80D/90S       | 4    | 22000        | 9000           |
| 15,3        | 645        | 1,5 | 91,49  | S083            | 80D/90S       | 4    | 18000        | 7200           |
| 15,3        | 623        | 1,2 | 184,88 | S083            | 80B           | 2    | 18000        | 7200           |
| 15,0        | 679        | 1,5 | 61,98  | S082            | 90L/100LR     | 6    | 18000        | 7200           |
| 15,0        | 635        | 1,9 | 188,51 | S103            | 80B           | 2    | 22000        | 9000           |
| 14,5        | 655        | 3,4 | 194,59 | S123            | 80B           | 2    | 30000        | 11200          |
| 14,3        | 699        | 0,9 | 65,85  | S063            | 90L           | 6    | 10000        | 4000           |
| 14,0        | 706        | 2,3 | 100,15 | S103            | 80D/90S       | 4    | 22000        | 9000           |
| 13,9        | 710        | 1,4 | 100,62 | S083            | 80D/90S       | 4    | 18000        | 7200           |
| 13,9        | 684        | 1,1 | 203,11 | S083            | 80B           | 2    | 18000        | 7200           |
| 13,9        | 684        | 1,8 | 203,11 | S103            | 80B           | 2    | 22000        | 9000           |
| 13,8        | 691        | 1,1 | 205,34 | S083            | 80B           | 2    | 18000        | 7200           |
| 13,8        | 724        | 1,4 | 67,52  | S083            | 90L/100LR     | 6    | 18000        | 7200           |
| 13,7        | 743        | 2,3 | 67,84  | S102            | 90L/100LR     | 6    | 22000        | 9000           |
| 13,4        | 746        | 3,8 | 71,07  | S123            | 100LR         | 6    | 30000        | 11200          |
| 13,1        | 726        | 3,1 | 215,60 | S123            | 80B           | 2    | 30000        | 11200          |

## 5.1 S GEARED MOTORS (50Hz)

## 1,10 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size      | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|-----------|---------------|--------------|----------------|
| 12,7        | 780        | 2,1 | 110,55 | S103            | 80D/90S   | 4             | 22000        | 9000           |
| 12,7        | 750        | 1,6 | 222,85 | S103            | 80B       | 2             | 22000        | 9000           |
| 12,6        | 757        | 1,6 | 224,76 | S103            | 80B       | 2             | 22000        | 9000           |
| 12,5        | 796        | 1,3 | 74,18  | S083            | 90L/100LR | 6             | 18000        | 7200           |
| 12,5        | 796        | 2,1 | 74,18  | S103            | 90L/100LR | 6             | 22000        | 9000           |
| 12,4        | 794        | 3,8 | 112,52 | S123            | 80D/90S   | 4             | 30000        | 11200          |
| 12,1        | 824        | 3,8 | 78,46  | S123            | 100LR     | 6             | 30000        | 11200          |
| 11,9        | 826        | 1,2 | 117,17 | S083            | 80D/90S   | 4             | 18000        | 7200           |
| 11,8        | 805        | 2,8 | 238,93 | S123            | 80B       | 2             | 30000        | 11200          |
| 11,5        | 856        | 1,9 | 121,29 | S103            | 80D/90S   | 4             | 22000        | 9000           |
| 11,4        | 876        | 1,2 | 81,71  | S083            | 90L/100LR | 6             | 18000        | 7200           |
| 11,4        | 873        | 1,9 | 81,39  | S103            | 90L/100LR | 6             | 22000        | 9000           |
| 11,4        | 870        | 3,4 | 123,33 | S123            | 80D/90S   | 4             | 30000        | 11200          |
| 11,1        | 860        | 2,6 | 255,54 | S123            | 80B       | 2             | 30000        | 11200          |
| 10,9        | 908        | 1,1 | 128,73 | S083            | 80D/90S   | 4             | 18000        | 7200           |
| 10,9        | 908        | 1,8 | 128,73 | S103            | 80D/90S   | 4             | 22000        | 9000           |
| 10,9        | 916        | 3,4 | 87,27  | S123            | 100LR     | 6             | 30000        | 11200          |
| 10,8        | 917        | 3,3 | 130,04 | S123            | 80D/90S   | 4             | 30000        | 11200          |
| 10,5        | 944        | 3,2 | 133,78 | S123            | 80D/90S   | 4             | 30000        | 11200          |
| 10,4        | 963        | 1,7 | 89,77  | S103            | 90L/100LR | 6             | 22000        | 9000           |
| 10,3        | 962        | 1,0 | 136,34 | S083            | 80D/90S   | 4             | 18000        | 7200           |
| 10,3        | 923        | 1,3 | 274,20 | S103            | 80B       | 2             | 22000        | 9000           |
| 10,2        | 981        | 1,1 | 91,49  | S083            | 90L/100LR | 6             | 18000        | 7200           |
| 10,1        | 946        | 1,3 | 280,89 | S103            | 80B       | 2             | 22000        | 9000           |
| 10,1        | 943        | 2,4 | 280,10 | S123            | 80B       | 2             | 30000        | 11200          |
| 9,9         | 996        | 1,6 | 141,24 | S103            | 80D/90S   | 4             | 22000        | 9000           |
| 9,7         | 984        | 1,2 | 292,36 | S103            | 80B       | 2             | 22000        | 9000           |
| 9,4         | 1014       | 2,2 | 301,16 | S123            | 80B       | 2             | 30000        | 11200          |
| 9,3         | 1074       | 1,6 | 100,15 | S103            | 90L/100LR | 6             | 22000        | 9000           |
| 9,2         | 1079       | 1,0 | 100,62 | S083            | 90L/100LR | 6             | 18000        | 7200           |
| 9,2         | 1068       | 2,8 | 151,43 | S123            | 80D/90S   | 4             | 30000        | 11200          |
| 9,0         | 1096       | 0,9 | 158,76 | S083            | 90S       | 4             | 18000        | 7200           |
| 9,0         | 1112       | 2,8 | 105,91 | S123            | 100LR     | 6             | 30000        | 11200          |
| 8,8         | 1080       | 1,1 | 320,79 | S103            | 80B       | 2             | 22000        | 9000           |
| 8,4         | 1186       | 1,4 | 110,55 | S103            | 90L/100LR | 6             | 22000        | 9000           |
| 8,3         | 1207       | 2,6 | 112,52 | S123            | 90L/100LR | 6             | 30000        | 11200          |
| 8,2         | 1164       | 1,0 | 345,60 | S103            | 80B       | 2             | 22000        | 9000           |
| 8,2         | 1158       | 1,9 | 343,93 | S123            | 80B       | 2             | 30000        | 11200          |
| 8,1         | 1226       | 1,3 | 173,78 | S103            | 80D/90S   | 4             | 22000        | 9000           |
| 7,9         | 1252       | 2,4 | 177,53 | S123            | 80D/90S   | 4             | 30000        | 11200          |
| 7,7         | 1301       | 1,3 | 121,29 | S103            | 90L/100LR | 6             | 22000        | 9000           |
| 7,7         | 1296       | 3,9 | 123,44 | S143            | 100LR     | 6             | 35000        | 18500          |

## 5.1 S GEARED MOTORS (50Hz)

## 1,10 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size      | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|-----------|-------|------|--------------|----------------|
| 7,5         | 1323       | 2,4 | 123,33 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |
| 7,4         | 1330       | 1,2 | 188,51 | S103            | 80D/90S   |       | 4    | 22000        | 9000           |
| 7,2         | 1380       | 1,2 | 128,73 | S103            | 90L/100LR |       | 6    | 22000        | 9000           |
| 7,2         | 1395       | 2,3 | 130,04 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |
| 7,2         | 1372       | 2,2 | 194,59 | S123            | 80D/90S   |       | 4    | 30000        | 11200          |
| 7,0         | 1435       | 2,2 | 133,78 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |
| 6,9         | 1433       | 1,1 | 203,11 | S103            | 80D/90S   |       | 4    | 22000        | 9000           |
| 6,8         | 1466       | 3,5 | 139,64 | S143            | 100LR     |       | 6    | 35000        | 18500          |
| 6,6         | 1515       | 1,1 | 141,24 | S103            | 90L/100LR |       | 6    | 22000        | 9000           |
| 6,5         | 1521       | 2,0 | 215,60 | S123            | 80D/90S   |       | 4    | 30000        | 11200          |
| 6,4         | 1565       | 3,2 | 149,10 | S143            | 100LR     |       | 6    | 35000        | 18500          |
| 6,3         | 1572       | 1,0 | 222,85 | S103            | 80D/90S   |       | 4    | 22000        | 9000           |
| 6,2         | 1585       | 1,0 | 224,76 | S103            | 80D/90S   |       | 4    | 22000        | 9000           |
| 6,1         | 1624       | 1,9 | 151,43 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |
| 6,0         | 1653       | 2,4 | 157,49 | S143            | 100LR     |       | 6    | 35000        | 18500          |
| 5,9         | 1685       | 1,8 | 238,93 | S123            | 80D/90S   |       | 4    | 30000        | 11200          |
| 5,5         | 1802       | 1,7 | 255,54 | S123            | 80D/90S   |       | 4    | 30000        | 11200          |
| 5,5         | 1801       | 2,7 | 171,55 | S143            | 100LR     |       | 6    | 35000        | 18500          |
| 5,4         | 1864       | 0,9 | 173,78 | S103            | 90L/100LR |       | 6    | 22000        | 9000           |
| 5,4         | 1841       | 2,4 | 175,41 | S143            | 100LR     |       | 6    | 35000        | 18500          |
| 5,2         | 1904       | 1,7 | 177,53 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |
| 5,0         | 1976       | 1,5 | 280,10 | S123            | 80D/90S   |       | 4    | 30000        | 11200          |
| 4,8         | 2087       | 1,5 | 194,59 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |
| 4,8         | 2065       | 2,4 | 196,74 | S143            | 100LR     |       | 6    | 35000        | 18500          |
| 4,6         | 2124       | 1,4 | 301,16 | S123            | 80D/90S   |       | 4    | 30000        | 11200          |
| 4,3         | 2312       | 1,4 | 215,60 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |
| 4,3         | 2337       | 2,1 | 222,57 | S143            | 100LR     |       | 6    | 35000        | 18500          |
| 4,1         | 2426       | 1,2 | 343,93 | S123            | 80D/90S   |       | 4    | 30000        | 11200          |
| 4,0         | 2495       | 2,1 | 237,63 | S143            | 100LR     |       | 6    | 35000        | 18500          |
| 3,9         | 2562       | 1,2 | 238,93 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |
| 3,6         | 2740       | 1,1 | 255,54 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |
| 3,5         | 2870       | 1,8 | 273,41 | S143            | 100LR     |       | 6    | 35000        | 18500          |
| 3,3         | 3004       | 1,0 | 280,10 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |
| 3,1         | 3230       | 1,0 | 301,16 | S123            | 90L/100LR |       | 6    | 30000        | 11200          |

## 1,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size    | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------|-------|------|--------------|----------------|
| 325,8       | 41         | 3,1 | 8,63  | S052            | 80C/90S |       | 2    | 3230         | 3230           |
| 252,2       | 53         | 2,7 | 11,14 | S052            | 80C/90S |       | 2    | 3467         | 3467           |
| 234,2       | 57         | 2,6 | 12,00 | S052            | 80C/90S |       | 2    | 3537         | 3537           |
| 205,8       | 64         | 2,4 | 13,66 | S052            | 80C/90S |       | 2    | 3660         | 3660           |

## 5.1 S GEARED MOTORS (50Hz)

## 1,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size<br>Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------|------|--------------|----------------|
| 184,0       | 72         | 2,5 | 15,27 | S052            | 80C/90S       | 2    | 3767         | 3767           |
| 172,5       | 77         | 2,3 | 16,29 | S052            | 80C/90S       | 2    | 3829         | 3829           |
| 162,3       | 85         | 2,0 | 8,63  | S052            | 90L/90LA      | 4    | 3871         | 3871           |
| 156,9       | 88         | 3,8 | 8,92  | S062            | 90L/90LA      | 4    | 7030         | 2812           |
| 150,8       | 88         | 2,0 | 18,63 | S052            | 80C/90S       | 2    | 3959         | 3959           |
| 146,7       | 94         | 3,8 | 9,55  | S062            | 90L/90LA      | 4    | 7162         | 2865           |
| 145,7       | 91         | 3,7 | 19,29 | S062            | 80C/90S       | 2    | 7196         | 2878           |
| 143,7       | 92         | 3,7 | 19,55 | S062            | 80C/90S       | 2    | 7223         | 2889           |
| 142,4       | 93         | 1,9 | 19,73 | S052            | 80C/90S       | 2    | 4014         | 4014           |
| 133,6       | 99         | 2,0 | 21,04 | S052            | 80C/90S       | 2    | 4076         | 4076           |
| 131,5       | 105        | 3,4 | 10,65 | S062            | 90L/90LA      | 4    | 7378         | 2951           |
| 130,5       | 102        | 1,9 | 21,53 | S052            | 80C/90S       | 2    | 4098         | 4098           |
| 125,7       | 109        | 1,7 | 11,14 | S052            | 90L/90LA      | 4    | 4112         | 4112           |
| 121,2       | 109        | 3,2 | 23,18 | S062            | 80C/90S       | 2    | 7566         | 3026           |
| 119,6       | 115        | 3,4 | 11,71 | S062            | 90L/90LA      | 4    | 7568         | 3027           |
| 118,3       | 112        | 3,1 | 23,75 | S062            | 80C/90S       | 2    | 7615         | 3046           |
| 116,8       | 114        | 1,7 | 24,07 | S052            | 80C/90S       | 2    | 4204         | 4204           |
| 116,7       | 118        | 1,7 | 12,00 | S052            | 90L/90LA      | 4    | 4181         | 4181           |
| 116,3       | 119        | 2,9 | 8,00  | S062            | 100L/100LA    | 6    | 7617         | 3047           |
| 111,8       | 119        | 3,0 | 25,14 | S062            | 80C/90S       | 2    | 7732         | 3093           |
| 111,5       | 119        | 1,8 | 25,20 | S052            | 80C/90S       | 2    | 4247         | 4247           |
| 109,0       | 122        | 1,8 | 25,79 | S052            | 80C/90S       | 2    | 4269         | 4269           |
| 107,8       | 129        | 1,4 | 8,63  | S052            | 100L/100LA    | 6    | 4245         | 4245           |
| 107,2       | 128        | 3,3 | 13,06 | S062            | 90L/90LA      | 4    | 7788         | 3115           |
| 104,8       | 131        | 3,2 | 13,36 | S062            | 90L/90LA      | 4    | 7834         | 3134           |
| 104,2       | 133        | 2,6 | 8,92  | S062            | 100L/100LA    | 6    | 7837         | 3135           |
| 102,5       | 134        | 1,6 | 13,66 | S052            | 90L/90LA      | 4    | 4298         | 4298           |
| 101,6       | 131        | 2,8 | 27,66 | S062            | 80C/90S       | 2    | 7927         | 3171           |
| 101,0       | 131        | 1,7 | 27,81 | S052            | 80C/90S       | 2    | 4339         | 4339           |
| 97,4        | 143        | 2,7 | 9,55  | S062            | 100L/100LA    | 6    | 7974         | 3189           |
| 93,7        | 142        | 1,5 | 30,00 | S052            | 80C/90S       | 2    | 4408         | 4408           |
| 93,7        | 142        | 2,6 | 30,00 | S062            | 80C/90S       | 2    | 8095         | 3238           |
| 91,7        | 150        | 1,6 | 15,27 | S052            | 90L/90LA      | 4    | 4397         | 4397           |
| 87,8        | 157        | 2,9 | 15,94 | S062            | 90L/90LA      | 4    | 8194         | 3277           |
| 87,4        | 159        | 2,4 | 10,65 | S062            | 100L/100LA    | 6    | 8195         | 3278           |
| 86,6        | 159        | 2,8 | 16,16 | S062            | 90L/90LA      | 4    | 8222         | 3289           |
| 86,3        | 154        | 1,5 | 32,55 | S052            | 80C/90S       | 2    | 4481         | 4481           |
| 86,0        | 160        | 1,5 | 16,29 | S052            | 90L/90LA      | 4    | 4452         | 4452           |
| 85,2        | 156        | 1,4 | 33,00 | S052            | 80C/90S       | 2    | 4493         | 4493           |
| 83,7        | 155        | 2,9 | 33,57 | S063            | 80C/90S       | 2    | 8349         | 3340           |
| 83,5        | 166        | 1,2 | 11,14 | S052            | 100L/100LA    | 6    | 4467         | 4467           |
| 82,8        | 160        | 2,5 | 33,93 | S062            | 80C/90S       | 2    | 8350         | 3340           |

## 5.1 S GEARED MOTORS (50Hz)

## 1,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size      | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|--------------------|------|--------------|----------------|
| 82,4        | 161        | 1,4 | 34,09 | S052            | 80C/90S            | 2    | 4521         | 4521           |
| 79,4        | 175        | 2,3 | 11,71 | S062            | 100L/100LA         | 6    | 8388         | 3355           |
| 77,5        | 179        | 1,2 | 12,00 | S052            | 100L/100LA         | 6    | 4527         | 4527           |
| 77,0        | 169        | 1,6 | 36,50 | S053            | 80C/90S            | 2    | 4600         | 4600           |
| 76,9        | 173        | 1,4 | 36,55 | S052            | 80C/90S            | 2    | 4580         | 4580           |
| 76,8        | 173        | 2,6 | 36,57 | S062            | 80C/90S            | 2    | 8506         | 3402           |
| 75,1        | 183        | 1,3 | 18,63 | S052            | 90L/90LA           | 4    | 4562         | 4562           |
| 74,4        | 175        | 2,6 | 37,77 | S063            | 80C/90S            | 2    | 8597         | 3439           |
| 72,6        | 189        | 2,4 | 19,29 | S062            | 90L/90LA           | 4    | 8582         | 3433           |
| 72,5        | 183        | 1,4 | 38,75 | S052            | 80C/90S            | 2    | 4629         | 4629           |
| 71,6        | 192        | 2,4 | 19,55 | S062            | 90L/90LA           | 4    | 8609         | 3444           |
| 71,4        | 186        | 2,4 | 39,38 | S062            | 80C/90S            | 2    | 8659         | 3464           |
| 71,2        | 195        | 2,3 | 13,06 | S062            | 100L/100LA         | 6    | 8608         | 3443           |
| 71,0        | 194        | 1,2 | 19,73 | S052            | 90L/90LA           | 4    | 4607         | 4607           |
| 70,4        | 188        | 1,4 | 39,90 | S052            | 80C/90S            | 2    | 4652         | 4652           |
| 70,2        | 185        | 2,4 | 40,05 | S063            | 80C/90S            | 2    | 8719         | 3488           |
| 70,2        | 189        | 4,0 | 40,05 | S082            | 80C <sup>(1)</sup> | 2    | 18000        | 5322           |
| 69,6        | 199        | 2,2 | 13,36 | S062            | 100L/100LA         | 6    | 8654         | 3461           |
| 69,5        | 198        | 3,9 | 20,14 | S082            | 90L/90LA           | 4    | 18000        | 5331           |
| 68,1        | 204        | 1,1 | 13,66 | S052            | 100L/100LA         | 6    | 4626         | 4626           |
| 66,6        | 207        | 1,3 | 21,04 | S052            | 90L/90LA           | 4    | 4655         | 4655           |
| 66,2        | 210        | 3,8 | 14,04 | S082            | 100L/100LA         | 6    | 18000        | 5409           |
| 65,9        | 201        | 1,3 | 42,63 | S052            | 80C/90S            | 2    | 4704         | 4704           |
| 65,3        | 203        | 3,7 | 43,05 | S082            | 80C/90S            | 2    | 18000        | 5442           |
| 65,0        | 211        | 1,2 | 21,53 | S052            | 90L/90LA           | 4    | 4672         | 4672           |
| 64,4        | 206        | 2,2 | 43,64 | S062            | 80C/90S            | 2    | 8871         | 3548           |
| 63,3        | 217        | 3,7 | 22,13 | S082            | 90L/90LA           | 4    | 18000        | 5486           |
| 61,1        | 217        | 1,2 | 46,00 | S052            | 80C/90S            | 2    | 4761         | 4761           |
| 61,0        | 218        | 2,1 | 46,10 | S062            | 80C/90S            | 2    | 8983         | 3593           |
| 60,9        | 228        | 1,1 | 15,27 | S052            | 100L/100LA         | 6    | 4705         | 4705           |
| 60,4        | 228        | 2,1 | 23,18 | S062            | 90L/90LA           | 4    | 8951         | 3581           |
| 60,3        | 230        | 3,5 | 15,43 | S082            | 100L/100LA         | 6    | 18000        | 5566           |
| 59,6        | 218        | 1,2 | 47,14 | S053            | 80C/90S            | 2    | 4806         | 4806           |
| 59,5        | 223        | 1,2 | 47,20 | S052            | 80C/90S            | 2    | 4780         | 4780           |
| 59,1        | 235        | 3,4 | 15,73 | S082            | 100L/100LA         | 6    | 18000        | 5598           |
| 58,9        | 233        | 2,0 | 23,75 | S062            | 90L/90LA           | 4    | 9000         | 3600           |
| 58,4        | 238        | 2,0 | 15,94 | S062            | 100L/100LA         | 6    | 9005         | 3602           |
| 58,3        | 236        | 3,4 | 24,00 | S082            | 90L/90LA           | 4    | 18000        | 5624           |
| 58,2        | 236        | 1,1 | 24,07 | S052            | 90L/90LA           | 4    | 4748         | 4748           |
| 58,2        | 228        | 2,0 | 48,30 | S062            | 80C/90S            | 2    | 9078         | 3631           |
| 57,5        | 241        | 2,0 | 16,16 | S062            | 100L/100LA         | 6    | 9032         | 3613           |
| 57,2        | 227        | 2,0 | 49,13 | S063            | 80C/90S            | 2    | 9143         | 3657           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 1,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size       | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|------------|---------------|--------------|----------------|
| 57,1        | 243        | 1,0 | 16,29 | S052            | 100L/100LA | 6             | 4746         | 4746           |
| 55,9        | 237        | 3,2 | 50,25 | S082            | 80C/90S    | 2             | 18000        | 5704           |
| 55,7        | 247        | 1,9 | 25,14 | S062            | 90L/90LA   | 4             | 9112         | 3645           |
| 55,6        | 248        | 1,2 | 25,20 | S052            | 90L/90LA   | 4             | 4777         | 4777           |
| 54,3        | 253        | 1,1 | 25,79 | S052            | 90L/90LA   | 4             | 4791         | 4791           |
| 53,8        | 247        | 1,1 | 52,25 | S052            | 80C/90S    | 2             | 4849         | 4849           |
| 53,8        | 258        | 3,1 | 17,29 | S082            | 100L/100LA | 6             | 18000        | 5762           |
| 53,7        | 256        | 3,1 | 26,05 | S082            | 90L/90LA   | 4             | 18000        | 5765           |
| 52,5        | 253        | 1,8 | 53,53 | S062            | 80C/90S    | 2             | 9285         | 3714           |
| 51,8        | 256        | 2,9 | 54,27 | S082            | 80C/90S    | 2             | 18000        | 5839           |
| 51,3        | 268        | 3,4 | 27,29 | S082            | 90L/90LA   | 4             | 18000        | 5846           |
| 51,1        | 260        | 1,7 | 55,00 | S062            | 80C/90S    | 2             | 9338         | 3735           |
| 51,0        | 260        | 3,7 | 55,14 | S102            | 80C/90S    | 2             | 22000        | 7244           |
| 50,8        | 256        | 1,8 | 55,29 | S063            | 80C/90S    | 2             | 9383         | 3753           |
| 50,6        | 272        | 1,8 | 27,66 | S062            | 90L/90LA   | 4             | 9296         | 3719           |
| 50,3        | 273        | 1,1 | 27,81 | S052            | 90L/90LA   | 4             | 4834         | 4834           |
| 49,9        | 278        | 0,9 | 18,63 | S052            | 100L/100LA | 6             | 4822         | 4822           |
| 49,7        | 262        | 1,0 | 57,79 | S053            | 90S        | 2             | 4929         | 4929           |
| 48,9        | 284        | 2,8 | 19,03 | S082            | 100L/100LA | 6             | 18000        | 5930           |
| 48,8        | 282        | 3,2 | 28,67 | S082            | 90L/90LA   | 4             | 18000        | 5934           |
| 48,2        | 288        | 1,6 | 19,29 | S062            | 100L/100LA | 6             | 9371         | 3748           |
| 47,9        | 272        | 1,7 | 58,72 | S063            | 80C/90S    | 2             | 9503         | 3801           |
| 47,6        | 292        | 1,7 | 19,55 | S062            | 100L/100LA | 6             | 9396         | 3758           |
| 47,3        | 291        | 3,1 | 29,60 | S082            | 90L/90LA   | 4             | 18000        | 5991           |
| 46,7        | 295        | 1,0 | 30,00 | S052            | 90L/90LA   | 4             | 4871         | 4871           |
| 46,7        | 295        | 1,7 | 30,00 | S062            | 90L/90LA   | 4             | 9450         | 3780           |
| 46,2        | 301        | 2,7 | 20,14 | S082            | 100L/100LA | 6             | 18000        | 6031           |
| 45,3        | 293        | 2,6 | 61,98 | S082            | 80C/90S    | 2             | 18000        | 6077           |
| 44,1        | 312        | 3,2 | 31,78 | S082            | 90L/90LA   | 4             | 18000        | 6119           |
| 43,0        | 320        | 0,9 | 32,55 | S052            | 90L/90LA   | 4             | 4905         | 4905           |
| 42,7        | 305        | 1,5 | 65,85 | S063            | 80C/90S    | 2             | 9727         | 3891           |
| 42,4        | 324        | 0,9 | 33,00 | S052            | 90L/90LA   | 4             | 4910         | 4910           |
| 42,0        | 330        | 2,5 | 22,13 | S082            | 100L/100LA | 6             | 18000        | 6202           |
| 41,7        | 330        | 0,9 | 34,09 | S052            | 90L        | 4             | 4917         | 4917           |
| 41,7        | 319        | 1,4 | 67,47 | S062            | 80C/90S    | 2             | 9731         | 3893           |
| 41,7        | 323        | 1,9 | 33,57 | S063            | 90L/90LA   | 4             | 9699         | 3880           |
| 41,6        | 312        | 2,4 | 67,52 | S083            | 80C/90S    | 2             | 18000        | 6241           |
| 41,4        | 320        | 3,7 | 67,84 | S102            | 80C/90S    | 2             | 22000        | 7726           |
| 41,3        | 333        | 1,6 | 33,93 | S062            | 90L/90LA   | 4             | 9675         | 3870           |
| 41,2        | 316        | 1,4 | 68,25 | S063            | 80C/90S    | 2             | 9795         | 3918           |
| 40,1        | 346        | 1,4 | 23,18 | S062            | 100L/100LA | 6             | 9702         | 3881           |
| 40,1        | 343        | 2,9 | 34,91 | S082            | 90L/90LA   | 4             | 18000        | 6293           |

## 5.1 S GEARED MOTORS (50Hz)

## 1,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size       | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------------|------|--------------|----------------|
| 39,4        | 349        | 2,9 | 35,50  | S082            | 90L/90LA            | 4    | 18000        | 6324           |
| 39,2        | 355        | 1,4 | 23,75  | S062            | 100L/100LA          | 6    | 9744         | 3898           |
| 38,8        | 358        | 2,3 | 24,00  | S082            | 100L/100LA          | 6    | 18000        | 6353           |
| 38,4        | 351        | 1,0 | 36,50  | S053            | 90L/90LA            | 4    | 4984         | 4984           |
| 38,3        | 359        | 0,9 | 36,55  | S052            | 90L/90LA            | 4    | 4941         | 4941           |
| 38,3        | 359        | 1,7 | 36,57  | S062            | 90L/90LA            | 4    | 9806         | 3922           |
| 38,2        | 340        | 1,3 | 73,63  | S063            | 80C/90S             | 2    | 9937         | 3975           |
| 37,9        | 343        | 2,2 | 74,18  | S083            | 80C/90S             | 2    | 18000        | 6418           |
| 37,9        | 343        | 3,5 | 74,18  | S103            | 80C/90S             | 2    | 22000        | 7948           |
| 37,1        | 363        | 1,7 | 37,77  | S063            | 90L/90LA            | 4    | 9909         | 3964           |
| 37,0        | 376        | 1,3 | 25,14  | S062            | 100L/100LA          | 6    | 9840         | 3936           |
| 36,6        | 376        | 4,0 | 38,30  | S102            | 90LA <sup>(1)</sup> | 4    | 22000        | 8020           |
| 35,7        | 389        | 2,2 | 26,05  | S082            | 100L/100LA          | 6    | 18000        | 6508           |
| 35,6        | 386        | 0,9 | 39,90  | S052            | 90L                 | 4    | 4954         | 4954           |
| 35,6        | 387        | 1,6 | 39,38  | S062            | 90L/90LA            | 4    | 9929         | 3972           |
| 35,0        | 385        | 1,6 | 40,05  | S063            | 90L/90LA            | 4    | 10000        | 4000           |
| 35,0        | 393        | 2,5 | 40,05  | S082            | 90L/90LA            | 4    | 18000        | 6552           |
| 34,5        | 377        | 1,2 | 81,43  | S063            | 80C/90S             | 2    | 10000        | 4000           |
| 34,5        | 376        | 3,2 | 81,39  | S103            | 80C/90S             | 2    | 22000        | 8178           |
| 34,4        | 378        | 2,0 | 81,71  | S083            | 80C/90S             | 2    | 18000        | 6604           |
| 34,1        | 408        | 2,3 | 27,29  | S082            | 100L/100LA          | 6    | 18000        | 6597           |
| 33,6        | 413        | 1,2 | 27,66  | S062            | 100L/100LA          | 6    | 9993         | 3997           |
| 32,9        | 418        | 3,4 | 42,53  | S102            | 90L/90LA            | 4    | 22000        | 8281           |
| 32,5        | 423        | 2,4 | 43,05  | S082            | 90L/90LA            | 4    | 18000        | 6691           |
| 32,4        | 428        | 2,2 | 28,67  | S082            | 100L/100LA          | 6    | 18000        | 6692           |
| 32,1        | 429        | 1,4 | 43,64  | S062            | 90L/90LA            | 4    | 10000        | 4000           |
| 31,8        | 432        | 3,0 | 44,00  | S102            | 90L/90LA            | 4    | 22000        | 8368           |
| 31,4        | 442        | 2,1 | 29,60  | S082            | 100L/100LA          | 6    | 18000        | 6754           |
| 31,3        | 415        | 2,9 | 89,77  | S103            | 80C/90S             | 2    | 22000        | 8427           |
| 31,1        | 446        | 3,5 | 29,87  | S102            | 100L/100LA          | 6    | 22000        | 8420           |
| 31,0        | 448        | 1,2 | 30,00  | S062            | 100L/100LA          | 6    | 10000        | 4000           |
| 30,7        | 423        | 1,8 | 91,49  | S083            | 80C/90S             | 2    | 18000        | 6826           |
| 30,4        | 453        | 1,3 | 46,10  | S062            | 90L/90LA            | 4    | 10000        | 4000           |
| 29,7        | 463        | 3,5 | 47,13  | S102            | 90L/90LA            | 4    | 22000        | 8544           |
| 29,3        | 475        | 2,2 | 31,78  | S082            | 100L/100LA          | 6    | 18000        | 6894           |
| 29,0        | 474        | 1,3 | 48,30  | S062            | 90L/90LA            | 4    | 10000        | 4000           |
| 28,7        | 484        | 3,3 | 32,40  | S102            | 100L/100LA          | 6    | 22000        | 8630           |
| 28,5        | 473        | 1,3 | 49,13  | S063            | 90L/90LA            | 4    | 10000        | 4000           |
| 28,1        | 463        | 2,6 | 100,15 | S103            | 80C/90S             | 2    | 22000        | 8713           |
| 27,9        | 494        | 2,0 | 50,25  | S082            | 90L/90LA            | 4    | 18000        | 6996           |
| 27,9        | 465        | 1,6 | 100,62 | S083            | 80C/90S             | 2    | 18000        | 7017           |
| 27,9        | 494        | 2,8 | 50,25  | S102            | 90L/90LA            | 4    | 22000        | 8711           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 1,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 27,4        | 507        | 1,1 | 33,93  | S062            | 100L/100LA    | 6    | 10000        | 4000           |
| 26,6        | 521        | 2,0 | 34,91  | S082            | 100L/100LA    | 6    | 18000        | 7081           |
| 26,6        | 521        | 2,8 | 34,91  | S102            | 100L/100LA    | 6    | 22000        | 8826           |
| 26,2        | 526        | 1,1 | 53,53  | S062            | 90L/90LA      | 4    | 10000        | 4000           |
| 26,2        | 530        | 2,0 | 35,50  | S082            | 100L/100LA    | 6    | 18000        | 7115           |
| 25,8        | 533        | 1,9 | 54,27  | S082            | 90L/90LA      | 4    | 18000        | 7151           |
| 25,5        | 540        | 1,1 | 55,00  | S062            | 90L/90LA      | 4    | 10000        | 4000           |
| 25,4        | 546        | 1,2 | 36,57  | S062            | 100L/100LA    | 6    | 10000        | 4000           |
| 25,4        | 542        | 2,4 | 55,14  | S102            | 90L/90LA      | 4    | 22000        | 8958           |
| 25,4        | 511        | 2,3 | 110,55 | S103            | 80C/90S       | 2    | 22000        | 8977           |
| 25,3        | 532        | 1,1 | 55,29  | S063            | 90L/90LA      | 4    | 10000        | 4000           |
| 24,3        | 572        | 2,8 | 38,30  | S102            | 100L/100LA    | 6    | 22000        | 9000           |
| 24,0        | 542        | 1,4 | 117,17 | S083            | 80C/90S       | 2    | 18000        | 7200           |
| 23,8        | 565        | 1,1 | 58,72  | S063            | 90L/90LA      | 4    | 10000        | 4000           |
| 23,6        | 588        | 1,1 | 39,38  | S062            | 100L/100LA    | 6    | 10000        | 4000           |
| 23,6        | 583        | 2,7 | 59,40  | S102            | 90L/90LA      | 4    | 22000        | 9000           |
| 23,2        | 598        | 1,8 | 40,05  | S082            | 100L/100LA    | 6    | 18000        | 7200           |
| 23,2        | 561        | 2,1 | 121,29 | S103            | 80C/90S       | 2    | 22000        | 9000           |
| 22,8        | 570        | 3,9 | 123,33 | S123            | 80C/90S       | 2    | 30000        | 11200          |
| 22,6        | 609        | 1,6 | 61,98  | S082            | 90L/90LA      | 4    | 18000        | 7200           |
| 21,9        | 635        | 2,3 | 42,53  | S102            | 100L/100LA    | 6    | 22000        | 9000           |
| 21,8        | 595        | 1,3 | 128,73 | S083            | 80C/90S       | 2    | 18000        | 7200           |
| 21,8        | 595        | 2,0 | 128,73 | S103            | 80C/90S       | 2    | 22000        | 9000           |
| 21,6        | 643        | 1,6 | 43,05  | S082            | 100L/100LA    | 6    | 18000        | 7200           |
| 21,6        | 601        | 3,7 | 130,04 | S123            | 80C/90S       | 2    | 30000        | 11200          |
| 21,3        | 652        | 1,0 | 43,64  | S062            | 100L/100LA    | 6    | 10000        | 4000           |
| 21,3        | 633        | 0,9 | 65,85  | S063            | 90L/90LA      | 4    | 10000        | 4000           |
| 21,1        | 657        | 2,1 | 44,00  | S102            | 100L/100LA    | 6    | 22000        | 9000           |
| 21,0        | 619        | 3,6 | 133,78 | S123            | 80C/90S       | 2    | 30000        | 11200          |
| 20,8        | 663        | 0,9 | 67,47  | S062            | 90L/90LA      | 4    | 10000        | 4000           |
| 20,8        | 667        | 3,8 | 44,63  | S122            | 100L/100LA    | 6    | 30000        | 11200          |
| 20,7        | 649        | 1,5 | 67,52  | S083            | 90L/90LA      | 4    | 18000        | 7200           |
| 20,6        | 630        | 1,2 | 136,34 | S083            | 80C/90S       | 2    | 18000        | 7200           |
| 20,6        | 666        | 2,4 | 67,84  | S102            | 90L/90LA      | 4    | 22000        | 9000           |
| 20,5        | 656        | 0,9 | 68,25  | S063            | 90L/90LA      | 4    | 10000        | 4000           |
| 19,9        | 653        | 1,8 | 141,24 | S103            | 80C/90S       | 2    | 22000        | 9000           |
| 19,7        | 704        | 2,4 | 47,13  | S102            | 100L/100LA    | 6    | 22000        | 9000           |
| 19,0        | 732        | 3,4 | 49,04  | S122            | 100L/100LA    | 6    | 30000        | 11200          |
| 18,9        | 713        | 1,4 | 74,18  | S083            | 90L/90LA      | 4    | 18000        | 7200           |
| 18,9        | 713        | 2,2 | 74,18  | S103            | 90L/90LA      | 4    | 22000        | 9000           |
| 18,6        | 700        | 3,2 | 151,43 | S123            | 80C/90S       | 2    | 30000        | 11200          |
| 18,5        | 750        | 1,4 | 50,25  | S082            | 100L/100LA    | 6    | 18000        | 7200           |

## 5.1 S GEARED MOTORS (50Hz)

## 1,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------------|------|--------------|----------------|
| 18,5        | 750        | 2,0 | 50,25  | S102            | 100L/100LA | 6    | 22000        | 9000           |
| 17,7        | 734        | 1,0 | 158,76 | S083            | 80C/90S    | 2    | 18000        | 7200           |
| 17,3        | 803        | 3,4 | 53,75  | S122            | 100L/100LA | 6    | 30000        | 11200          |
| 17,2        | 783        | 2,0 | 81,39  | S103            | 90L/90LA   | 4    | 22000        | 9000           |
| 17,1        | 810        | 1,3 | 54,27  | S082            | 100L/100LA | 6    | 18000        | 7200           |
| 17,1        | 786        | 1,3 | 81,71  | S083            | 90L/90LA   | 4    | 18000        | 7200           |
| 16,9        | 823        | 1,7 | 55,14  | S102            | 100L/100LA | 6    | 22000        | 9000           |
| 16,2        | 804        | 1,5 | 173,78 | S103            | 80C/90S    | 2    | 22000        | 9000           |
| 15,8        | 821        | 2,7 | 177,53 | S123            | 80C/90S    | 2    | 30000        | 11200          |
| 15,7        | 887        | 1,9 | 59,40  | S102            | 100L/100LA | 6    | 22000        | 9000           |
| 15,6        | 863        | 1,9 | 89,77  | S103            | 90L/90LA   | 4    | 22000        | 9000           |
| 15,3        | 880        | 1,1 | 91,49  | S083            | 90L/90LA   | 4    | 18000        | 7200           |
| 15,0        | 926        | 1,1 | 61,98  | S082            | 100L/100LA | 6    | 18000        | 7200           |
| 14,9        | 872        | 1,4 | 188,51 | S103            | 80C/90S    | 2    | 22000        | 9000           |
| 14,4        | 900        | 2,5 | 194,59 | S123            | 80C/90S    | 2    | 30000        | 11200          |
| 14,3        | 948        | 3,0 | 64,84  | S123            | 100L/100LA | 6    | 30000        | 11200          |
| 14,1        | 986        | 3,2 | 66,00  | S122            | 100L/100LA | 6    | 30000        | 11200          |
| 14,0        | 963        | 1,7 | 100,15 | S103            | 90L/90LA   | 4    | 22000        | 9000           |
| 13,9        | 968        | 1,0 | 100,62 | S083            | 90L/90LA   | 4    | 18000        | 7200           |
| 13,8        | 987        | 1,1 | 67,52  | S083            | 100L/100LA | 6    | 18000        | 7200           |
| 13,8        | 939        | 1,3 | 203,11 | S103            | 80C/90S    | 2    | 22000        | 9000           |
| 13,7        | 1013       | 1,7 | 67,84  | S102            | 100L/100LA | 6    | 22000        | 9000           |
| 13,1        | 1039       | 2,7 | 71,07  | S123            | 100L/100LA | 6    | 30000        | 11200          |
| 13,0        | 997        | 2,3 | 215,60 | S123            | 80C/90S    | 2    | 30000        | 11200          |
| 12,7        | 1063       | 1,5 | 110,55 | S103            | 90L/90LA   | 4    | 22000        | 9000           |
| 12,6        | 1031       | 1,2 | 222,85 | S103            | 80C/90S    | 2    | 22000        | 9000           |
| 12,5        | 1085       | 1,0 | 74,18  | S083            | 100L/100LA | 6    | 18000        | 7200           |
| 12,5        | 1085       | 1,5 | 74,18  | S103            | 100L/100LA | 6    | 22000        | 9000           |
| 12,5        | 1039       | 1,2 | 224,76 | S103            | 80C/90S    | 2    | 22000        | 9000           |
| 12,4        | 1082       | 2,8 | 112,52 | S123            | 90L/90LA   | 4    | 30000        | 11200          |
| 12,2        | 1103       | 0,9 | 117,17 | S083            | 90L        | 4    | 18000        | 7200           |
| 11,9        | 1147       | 2,7 | 78,46  | S123            | 100L/100LA | 6    | 30000        | 11200          |
| 11,8        | 1105       | 2,0 | 238,93 | S123            | 80C/90S    | 2    | 30000        | 11200          |
| 11,7        | 1162       | 3,8 | 79,45  | S143            | 100L/100LA | 6    | 35000        | 18500          |
| 11,5        | 1167       | 1,4 | 121,29 | S103            | 90L/90LA   | 4    | 22000        | 9000           |
| 11,4        | 1190       | 1,4 | 81,39  | S103            | 100L/100LA | 6    | 22000        | 9000           |
| 11,4        | 1186       | 2,5 | 123,33 | S123            | 90L/90LA   | 4    | 30000        | 11200          |
| 11,0        | 1182       | 1,9 | 255,54 | S123            | 80C/90S    | 2    | 30000        | 11200          |
| 10,9        | 1238       | 1,3 | 128,73 | S103            | 90L/90LA   | 4    | 22000        | 9000           |
| 10,8        | 1251       | 2,4 | 130,04 | S123            | 90L/90LA   | 4    | 30000        | 11200          |
| 10,7        | 1276       | 2,5 | 87,27  | S123            | 100L/100LA | 6    | 30000        | 11200          |
| 10,5        | 1287       | 2,3 | 133,78 | S123            | 90L/90LA   | 4    | 30000        | 11200          |

## 5.1 S GEARED MOTORS (50Hz)

## 1,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 10,4        | 1313       | 1,3 | 89,77  | S103            | 100L/100LA    | 6    | 22000        | 9000           |
| 10,0        | 1295       | 1,7 | 280,10 | S123            | 80C/90S       | 2    | 30000        | 11200          |
| 9,9         | 1358       | 1,2 | 141,24 | S103            | 90L/90LA      | 4    | 22000        | 9000           |
| 9,4         | 1445       | 3,2 | 98,81  | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 9,3         | 1465       | 1,1 | 100,15 | S103            | 100L/100LA    | 6    | 22000        | 9000           |
| 9,3         | 1393       | 1,6 | 301,16 | S123            | 80C/90S       | 2    | 30000        | 11200          |
| 9,2         | 1457       | 2,1 | 151,43 | S123            | 90L/90LA      | 4    | 30000        | 11200          |
| 8,8         | 1549       | 2,0 | 105,91 | S123            | 100L/100LA    | 6    | 30000        | 11200          |
| 8,5         | 1609       | 3,1 | 110,05 | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 8,4         | 1617       | 1,0 | 110,55 | S103            | 100L/100LA    | 6    | 22000        | 9000           |
| 8,3         | 1645       | 1,9 | 112,52 | S123            | 100L/100LA    | 6    | 30000        | 11200          |
| 8,2         | 1590       | 1,4 | 343,93 | S123            | 80C/90S       | 2    | 30000        | 11200          |
| 8,1         | 1671       | 1,0 | 173,78 | S103            | 90L/90LA      | 4    | 22000        | 9000           |
| 7,9         | 1708       | 1,8 | 177,53 | S123            | 90L/90LA      | 4    | 30000        | 11200          |
| 7,7         | 1774       | 0,9 | 121,29 | S103            | 100L/100LA    | 6    | 22000        | 9000           |
| 7,6         | 1775       | 0,9 | 188,51 | S103            | 90L           | 4    | 22000        | 9000           |
| 7,5         | 1804       | 1,7 | 123,33 | S123            | 100L/100LA    | 6    | 30000        | 11200          |
| 7,5         | 1805       | 2,8 | 123,44 | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 7,3         | 1862       | 0,9 | 128,73 | S103            | 100L          | 6    | 22000        | 9000           |
| 7,2         | 1902       | 1,7 | 130,04 | S123            | 100L/100LA    | 6    | 30000        | 11200          |
| 7,2         | 1872       | 1,6 | 194,59 | S123            | 90L/90LA      | 4    | 30000        | 11200          |
| 7,0         | 1956       | 1,6 | 133,78 | S123            | 100L/100LA    | 6    | 30000        | 11200          |
| 6,7         | 2042       | 2,5 | 139,64 | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 6,5         | 2074       | 1,4 | 215,60 | S123            | 90L/90LA      | 4    | 30000        | 11200          |
| 6,2         | 2180       | 2,3 | 149,10 | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 6,1         | 2215       | 1,4 | 151,43 | S123            | 100L/100LA    | 6    | 30000        | 11200          |
| 5,9         | 2298       | 1,3 | 238,93 | S123            | 90L/90LA      | 4    | 30000        | 11200          |
| 5,9         | 2303       | 1,7 | 157,49 | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 5,5         | 2458       | 1,2 | 255,54 | S123            | 90L/90LA      | 4    | 30000        | 11200          |
| 5,4         | 2509       | 2,0 | 171,55 | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 5,3         | 2565       | 1,7 | 175,41 | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 5,2         | 2596       | 1,2 | 177,53 | S123            | 100L/100LA    | 6    | 30000        | 11200          |
| 5,0         | 2694       | 1,1 | 280,10 | S123            | 90L/90LA      | 4    | 30000        | 11200          |
| 4,8         | 2846       | 1,1 | 194,59 | S123            | 100L/100LA    | 6    | 30000        | 11200          |
| 4,7         | 2877       | 1,7 | 196,74 | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 4,6         | 2897       | 1,0 | 301,16 | S123            | 90L/90LA      | 4    | 30000        | 11200          |
| 4,3         | 3153       | 1,0 | 215,60 | S123            | 100L/100LA    | 6    | 30000        | 11200          |
| 4,2         | 3255       | 1,5 | 222,57 | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 4,1         | 3308       | 0,9 | 343,93 | S123            | 90L/90LA      | 4    | 30000        | 11200          |
| 3,9         | 3494       | 0,9 | 238,93 | S123            | 100L/100LA    | 6    | 30000        | 11200          |
| 3,9         | 3475       | 1,5 | 237,63 | S143            | 100L/100LA    | 6    | 35000        | 18500          |
| 3,4         | 3998       | 1,3 | 273,41 | S143            | 100L/100LA    | 6    | 35000        | 18500          |

## 5.1 S GEARED MOTORS (50Hz)

## 1,85 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------------|---------------|--------------|----------------|
| 175,0       | 97         | 3,4 | 8,00  | S062            | 90LB <sup>(1)</sup> | 4             | 6703         | 2681           |
| 162,3       | 104        | 1,6 | 8,63  | S052            | 90LB <sup>(1)</sup> | 4             | 3756         | 3756           |
| 156,9       | 108        | 3,1 | 8,92  | S062            | 90LB <sup>(1)</sup> | 4             | 6900         | 2760           |
| 146,7       | 116        | 3,1 | 9,55  | S062            | 90LB <sup>(1)</sup> | 4             | 7023         | 2809           |
| 131,5       | 129        | 2,8 | 10,65 | S062            | 90LB <sup>(1)</sup> | 4             | 7223         | 2889           |
| 125,7       | 135        | 1,4 | 11,14 | S052            | 90LB <sup>(1)</sup> | 4             | 3963         | 3963           |
| 119,6       | 142        | 2,7 | 11,71 | S062            | 90LB <sup>(1)</sup> | 4             | 7398         | 2959           |
| 116,7       | 145        | 1,4 | 12,00 | S052            | 90LB <sup>(1)</sup> | 4             | 4021         | 4021           |
| 116,3       | 147        | 2,4 | 8,00  | S062            | 100LB               | 6             | 7441         | 2976           |
| 107,8       | 159        | 1,1 | 8,63  | S052            | 100LB               | 6             | 4071         | 4071           |
| 107,2       | 158        | 2,7 | 13,06 | S062            | 90LB <sup>(1)</sup> | 4             | 7599         | 3039           |
| 104,8       | 162        | 2,6 | 13,36 | S062            | 90LB <sup>(1)</sup> | 4             | 7640         | 3056           |
| 104,2       | 164        | 2,1 | 8,92  | S062            | 100LB               | 6             | 7640         | 3056           |
| 102,5       | 165        | 1,3 | 13,66 | S052            | 90LB <sup>(1)</sup> | 4             | 4116         | 4116           |
| 97,4        | 176        | 2,1 | 9,55  | S062            | 100LB               | 6             | 7763         | 3105           |
| 93,5        | 183        | 3,7 | 9,94  | S082            | 100LB               | 6             | 16905        | 4830           |
| 91,7        | 185        | 1,3 | 15,27 | S052            | 90LB <sup>(1)</sup> | 4             | 4193         | 4193           |
| 87,8        | 193        | 2,3 | 15,94 | S062            | 90LB <sup>(1)</sup> | 4             | 7962         | 3185           |
| 87,4        | 196        | 1,9 | 10,65 | S062            | 100LB               | 6             | 7960         | 3184           |
| 86,6        | 196        | 2,3 | 16,16 | S062            | 90LB <sup>(1)</sup> | 4             | 7987         | 3195           |
| 86,0        | 197        | 1,2 | 16,29 | S052            | 90LB <sup>(1)</sup> | 4             | 4235         | 4235           |
| 83,5        | 205        | 1,0 | 11,14 | S052            | 100LB               | 6             | 4241         | 4241           |
| 80,9        | 210        | 3,7 | 17,29 | S082            | 90LB <sup>(1)</sup> | 4             | 17673        | 5049           |
| 80,1        | 214        | 3,4 | 11,61 | S082            | 100LB               | 6             | 17721        | 5063           |
| 79,4        | 216        | 1,9 | 11,71 | S062            | 100LB               | 6             | 8129         | 3252           |
| 77,5        | 221        | 1,0 | 12,00 | S052            | 100LB               | 6             | 4284         | 4284           |
| 75,1        | 226        | 1,1 | 18,63 | S052            | 90LB <sup>(1)</sup> | 4             | 4314         | 4314           |
| 73,6        | 231        | 3,3 | 19,03 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 5198           |
| 72,9        | 235        | 3,4 | 12,75 | S082            | 100LB               | 6             | 18000        | 5209           |
| 72,6        | 234        | 1,9 | 19,29 | S062            | 90LB <sup>(1)</sup> | 4             | 8302         | 3321           |
| 71,6        | 237        | 1,9 | 19,55 | S062            | 90LB <sup>(1)</sup> | 4             | 8325         | 3330           |
| 71,2        | 241        | 1,8 | 13,06 | S062            | 100LB               | 6             | 8320         | 3328           |
| 71,0        | 239        | 1,0 | 19,73 | S052            | 90LB <sup>(1)</sup> | 4             | 4344         | 4344           |
| 69,6        | 246        | 1,8 | 13,36 | S062            | 100LB               | 6             | 8359         | 3343           |
| 69,5        | 244        | 3,2 | 20,14 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 5287           |
| 66,6        | 255        | 1,0 | 21,04 | S052            | 90LB <sup>(1)</sup> | 4             | 4375         | 4375           |
| 66,2        | 259        | 3,1 | 14,04 | S082            | 100LB               | 6             | 18000        | 5363           |
| 65,0        | 261        | 1,0 | 21,53 | S052            | 90LB <sup>(1)</sup> | 4             | 4385         | 4385           |
| 63,3        | 268        | 3,0 | 22,13 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 5439           |
| 60,4        | 281        | 1,7 | 23,18 | S062            | 90LB <sup>(1)</sup> | 4             | 8615         | 3446           |
| 60,3        | 284        | 2,8 | 15,43 | S082            | 100LB               | 6             | 18000        | 5515           |
| 59,1        | 290        | 2,8 | 15,73 | S082            | 100LB               | 6             | 18000        | 5547           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 1,85 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------------|---------------|--------------|----------------|
| 58,9        | 288        | 1,6 | 23,75 | S062            | 90LB <sup>(1)</sup> | 4             | 8655         | 3462           |
| 58,4        | 294        | 1,6 | 15,94 | S062            | 100LB               | 6             | 8653         | 3461           |
| 58,3        | 291        | 2,8 | 24,00 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 5572           |
| 57,5        | 298        | 1,6 | 16,16 | S062            | 100LB               | 6             | 8675         | 3470           |
| 55,7        | 305        | 1,6 | 25,14 | S062            | 90LB <sup>(1)</sup> | 4             | 8747         | 3499           |
| 55,6        | 305        | 0,9 | 25,20 | S052            | 90LB <sup>(1)</sup> | 4             | 4442         | 4442           |
| 54,3        | 312        | 0,9 | 25,79 | S052            | 90LB <sup>(1)</sup> | 4             | 4448         | 4448           |
| 53,8        | 319        | 2,5 | 17,29 | S082            | 100LB               | 6             | 18000        | 5705           |
| 53,7        | 316        | 2,5 | 26,05 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 5709           |
| 51,3        | 331        | 2,7 | 27,29 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 5788           |
| 50,6        | 335        | 1,4 | 27,66 | S062            | 90LB <sup>(1)</sup> | 4             | 8895         | 3558           |
| 48,9        | 351        | 2,3 | 19,03 | S082            | 100LB               | 6             | 18000        | 5868           |
| 48,8        | 347        | 2,6 | 28,67 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 5872           |
| 48,2        | 355        | 1,3 | 19,29 | S062            | 100LB               | 6             | 8945         | 3578           |
| 47,6        | 360        | 1,3 | 19,55 | S062            | 100LB               | 6             | 8964         | 3586           |
| 47,3        | 359        | 2,5 | 29,60 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 5927           |
| 46,7        | 363        | 1,4 | 30,00 | S062            | 90LB <sup>(1)</sup> | 4             | 9014         | 3606           |
| 46,2        | 371        | 2,2 | 20,14 | S082            | 100LB               | 6             | 18000        | 5965           |
| 44,7        | 384        | 3,8 | 20,83 | S102            | 100LB               | 6             | 22000        | 7485           |
| 44,1        | 385        | 2,6 | 31,78 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 6051           |
| 43,2        | 393        | 3,8 | 32,40 | S102            | 90LB <sup>(1)</sup> | 4             | 22000        | 7562           |
| 42,0        | 408        | 2,1 | 22,13 | S082            | 100LB               | 6             | 18000        | 6130           |
| 42,0        | 408        | 3,6 | 22,13 | S102            | 100LB               | 6             | 22000        | 7623           |
| 41,7        | 398        | 1,5 | 33,57 | S063            | 90LB <sup>(1)</sup> | 4             | 9222         | 3689           |
| 41,3        | 411        | 1,3 | 33,93 | S062            | 90LB <sup>(1)</sup> | 4             | 9182         | 3673           |
| 40,1        | 427        | 1,2 | 23,18 | S062            | 100LB               | 6             | 9191         | 3676           |
| 40,1        | 423        | 2,4 | 34,91 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 6217           |
| 40,1        | 423        | 3,3 | 34,91 | S102            | 90LB <sup>(1)</sup> | 4             | 22000        | 7736           |
| 39,4        | 430        | 2,3 | 35,50 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 6247           |
| 39,2        | 437        | 1,1 | 23,75 | S062            | 100LB               | 6             | 9220         | 3688           |
| 38,8        | 442        | 1,9 | 24,00 | S082            | 100LB               | 6             | 18000        | 6275           |
| 38,3        | 443        | 1,4 | 36,57 | S062            | 90LB <sup>(1)</sup> | 4             | 9274         | 3710           |
| 38,3        | 447        | 3,5 | 24,28 | S102            | 100LB               | 6             | 22000        | 7840           |
| 37,1        | 448        | 1,3 | 37,77 | S063            | 90LB <sup>(1)</sup> | 4             | 9372         | 3749           |
| 37,0        | 463        | 1,1 | 25,14 | S062            | 100LB               | 6             | 9285         | 3714           |
| 36,6        | 464        | 3,2 | 38,30 | S102            | 90LB <sup>(1)</sup> | 4             | 22000        | 7955           |
| 35,7        | 480        | 1,8 | 26,05 | S082            | 100LB               | 6             | 18000        | 6423           |
| 35,6        | 477        | 1,3 | 39,38 | S062            | 90LB <sup>(1)</sup> | 4             | 9357         | 3743           |
| 35,3        | 485        | 3,2 | 26,33 | S102            | 100LB               | 6             | 22000        | 8034           |
| 35,0        | 475        | 1,3 | 40,05 | S063            | 90LB <sup>(1)</sup> | 4             | 9439         | 3776           |
| 35,0        | 485        | 2,1 | 40,05 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 6466           |
| 34,1        | 503        | 1,9 | 27,29 | S082            | 100LB               | 6             | 18000        | 6508           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 1,85 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------------|---------------|--------------|----------------|
| 33,6        | 509        | 1,0 | 27,66 | S062            | 100LB               | 6             | 9382         | 3753           |
| 32,9        | 515        | 2,7 | 42,53 | S102            | 90LB <sup>(1)</sup> | 4             | 22000        | 8209           |
| 32,5        | 522        | 1,9 | 43,05 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 6599           |
| 32,4        | 528        | 1,8 | 28,67 | S082            | 100LB               | 6             | 18000        | 6599           |
| 32,1        | 529        | 1,1 | 43,64 | S062            | 90LB <sup>(1)</sup> | 4             | 9457         | 3783           |
| 31,8        | 533        | 2,4 | 44,00 | S102            | 90LB <sup>(1)</sup> | 4             | 22000        | 8293           |
| 31,4        | 545        | 1,7 | 29,60 | S082            | 100LB               | 6             | 18000        | 6657           |
| 31,1        | 550        | 2,9 | 29,87 | S102            | 100LB               | 6             | 22000        | 8342           |
| 31,0        | 553        | 1,0 | 30,00 | S062            | 100LB               | 6             | 9451         | 3780           |
| 30,4        | 558        | 1,1 | 46,10 | S062            | 90LB <sup>(1)</sup> | 4             | 9502         | 3801           |
| 29,7        | 571        | 2,8 | 47,13 | S102            | 90LB <sup>(1)</sup> | 4             | 22000        | 8464           |
| 29,3        | 585        | 1,8 | 31,78 | S082            | 100LB               | 6             | 18000        | 6790           |
| 29,0        | 585        | 1,0 | 48,30 | S062            | 90LB <sup>(1)</sup> | 4             | 9535         | 3814           |
| 28,7        | 597        | 2,6 | 32,40 | S102            | 100LB               | 6             | 22000        | 8546           |
| 28,5        | 583        | 1,0 | 49,13 | S063            | 90LB <sup>(1)</sup> | 4             | 9625         | 3850           |
| 27,9        | 609        | 1,6 | 50,25 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 6888           |
| 27,9        | 609        | 2,3 | 50,25 | S102            | 90LB <sup>(1)</sup> | 4             | 22000        | 8626           |
| 27,4        | 625        | 0,9 | 33,93 | S062            | 100LB               | 6             | 9529         | 3812           |
| 26,6        | 643        | 1,6 | 34,91 | S082            | 100LB               | 6             | 18000        | 6967           |
| 26,6        | 643        | 2,3 | 34,91 | S102            | 100LB               | 6             | 22000        | 8736           |
| 26,2        | 648        | 0,9 | 53,53 | S062            | 90LB <sup>(1)</sup> | 4             | 9591         | 3836           |
| 26,2        | 654        | 1,6 | 35,50 | S082            | 100LB               | 6             | 18000        | 6999           |
| 26,0        | 651        | 4,0 | 53,75 | S122            | 90LB <sup>(1)</sup> | 4             | 30000        | 11200          |
| 25,8        | 657        | 1,5 | 54,27 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 7034           |
| 25,5        | 666        | 0,9 | 55,00 | S062            | 90LB <sup>(1)</sup> | 4             | 9601         | 3840           |
| 25,4        | 674        | 0,9 | 36,57 | S062            | 100LB               | 6             | 9559         | 3824           |
| 25,4        | 668        | 1,9 | 55,14 | S102            | 90LB <sup>(1)</sup> | 4             | 22000        | 8864           |
| 25,3        | 656        | 0,9 | 55,29 | S063            | 90LB <sup>(1)</sup> | 4             | 9691         | 3876           |
| 24,3        | 706        | 2,2 | 38,30 | S102            | 100LB               | 6             | 22000        | 8976           |
| 23,6        | 720        | 2,2 | 59,40 | S102            | 90LB <sup>(1)</sup> | 4             | 22000        | 9000           |
| 23,2        | 738        | 1,4 | 40,05 | S082            | 100LB               | 6             | 18000        | 7200           |
| 22,6        | 751        | 1,3 | 61,98 | S082            | 90LB <sup>(1)</sup> | 4             | 18000        | 7200           |
| 21,9        | 783        | 1,9 | 42,53 | S102            | 100LB               | 6             | 22000        | 9000           |
| 21,6        | 793        | 1,3 | 43,05 | S082            | 100LB               | 6             | 18000        | 7200           |
| 21,3        | 803        | 3,9 | 43,60 | S122            | 100LB               | 6             | 30000        | 11200          |
| 21,2        | 800        | 3,8 | 66,00 | S122            | 90LB <sup>(1)</sup> | 4             | 30000        | 11200          |
| 21,1        | 810        | 1,7 | 44,00 | S102            | 100LB               | 6             | 22000        | 9000           |
| 20,8        | 822        | 3,1 | 44,63 | S122            | 100LB               | 6             | 30000        | 11200          |
| 20,7        | 801        | 1,2 | 67,52 | S083            | 90LB <sup>(1)</sup> | 4             | 18000        | 7200           |
| 20,6        | 822        | 1,9 | 67,84 | S102            | 90LB <sup>(1)</sup> | 4             | 22000        | 9000           |
| 19,7        | 868        | 1,9 | 47,13 | S102            | 100LB               | 6             | 22000        | 9000           |
| 19,0        | 903        | 2,8 | 49,04 | S122            | 100LB               | 6             | 30000        | 11200          |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 1,85 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size                | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------------|---------------|--------------|----------------|
| 18,9        | 880        | 1,1 | 74,18  | S083            | 90LB <sup>(1)</sup> | 4             | 18000        | 7200           |
| 18,9        | 880        | 1,8 | 74,18  | S103            | 90LB <sup>(1)</sup> | 4             | 22000        | 9000           |
| 18,5        | 926        | 1,1 | 50,25  | S082            | 100LB               | 6             | 18000        | 7200           |
| 18,5        | 926        | 1,6 | 50,25  | S102            | 100LB               | 6             | 22000        | 9000           |
| 17,3        | 990        | 2,8 | 53,75  | S122            | 100LB               | 6             | 30000        | 11200          |
| 17,2        | 966        | 1,7 | 81,39  | S103            | 90LB <sup>(1)</sup> | 4             | 22000        | 9000           |
| 17,1        | 1000       | 1,1 | 54,27  | S082            | 100LB               | 6             | 18000        | 7200           |
| 17,1        | 969        | 1,0 | 81,71  | S083            | 90LB <sup>(1)</sup> | 4             | 18000        | 7200           |
| 16,9        | 1016       | 1,3 | 55,14  | S102            | 100LB               | 6             | 22000        | 9000           |
| 15,7        | 1094       | 1,5 | 59,40  | S102            | 100LB               | 6             | 22000        | 9000           |
| 15,6        | 1065       | 1,5 | 89,77  | S103            | 90LB <sup>(1)</sup> | 4             | 22000        | 9000           |
| 15,3        | 1085       | 0,9 | 91,49  | S083            | 90LB <sup>(1)</sup> | 4             | 18000        | 7200           |
| 15,0        | 1142       | 0,9 | 61,98  | S082            | 100LB               | 6             | 18000        | 7200           |
| 14,3        | 1169       | 2,4 | 64,84  | S123            | 100LB               | 6             | 30000        | 11200          |
| 14,1        | 1216       | 2,6 | 66,00  | S122            | 100LB               | 6             | 30000        | 11200          |
| 14,0        | 1188       | 1,3 | 100,15 | S103            | 90LB <sup>(1)</sup> | 4             | 22000        | 9000           |
| 13,7        | 1250       | 1,3 | 67,84  | S102            | 100LB               | 6             | 22000        | 9000           |
| 13,1        | 1282       | 2,2 | 71,07  | S123            | 100LB               | 6             | 30000        | 11200          |
| 12,7        | 1311       | 1,2 | 110,55 | S103            | 90LB <sup>(1)</sup> | 4             | 22000        | 9000           |
| 12,5        | 1338       | 1,3 | 74,18  | S103            | 100LB               | 6             | 22000        | 9000           |
| 12,4        | 1335       | 2,2 | 112,52 | S123            | 90LB <sup>(1)</sup> | 4             | 30000        | 11200          |
| 11,9        | 1415       | 2,2 | 78,46  | S123            | 100LB               | 6             | 30000        | 11200          |
| 11,7        | 1433       | 3,1 | 79,45  | S143            | 100LB               | 6             | 35000        | 18500          |
| 11,5        | 1439       | 1,1 | 121,29 | S103            | 90LB <sup>(1)</sup> | 4             | 22000        | 9000           |
| 11,4        | 1468       | 1,1 | 81,39  | S103            | 100LB               | 6             | 22000        | 9000           |
| 11,4        | 1463       | 2,1 | 123,33 | S123            | 90LB <sup>(1)</sup> | 4             | 30000        | 11200          |
| 10,9        | 1527       | 1,0 | 128,73 | S103            | 90LB <sup>(1)</sup> | 4             | 22000        | 9000           |
| 10,8        | 1543       | 1,9 | 130,04 | S123            | 90LB <sup>(1)</sup> | 4             | 30000        | 11200          |
| 10,7        | 1574       | 2,0 | 87,27  | S123            | 100LB               | 6             | 30000        | 11200          |
| 10,5        | 1587       | 1,9 | 133,78 | S123            | 90LB <sup>(1)</sup> | 4             | 30000        | 11200          |
| 10,4        | 1619       | 1,0 | 89,77  | S103            | 100LB               | 6             | 22000        | 9000           |
| 9,9         | 1675       | 1,0 | 141,24 | S103            | 90LB <sup>(1)</sup> | 4             | 22000        | 9000           |
| 9,4         | 1782       | 2,6 | 98,81  | S143            | 100LB               | 6             | 35000        | 18500          |
| 9,3         | 1806       | 0,9 | 100,15 | S103            | 100LB               | 6             | 22000        | 9000           |
| 9,2         | 1796       | 1,7 | 151,43 | S123            | 90LB <sup>(1)</sup> | 4             | 30000        | 11200          |
| 8,8         | 1910       | 1,6 | 105,91 | S123            | 100LB               | 6             | 30000        | 11200          |
| 8,5         | 1985       | 2,5 | 110,05 | S143            | 100LB               | 6             | 35000        | 18500          |
| 8,3         | 2029       | 1,6 | 112,52 | S123            | 100LB               | 6             | 30000        | 11200          |
| 7,9         | 2106       | 1,4 | 177,53 | S123            | 90LB <sup>(1)</sup> | 4             | 30000        | 11200          |
| 7,5         | 2224       | 1,4 | 123,33 | S123            | 100LB               | 6             | 30000        | 11200          |
| 7,5         | 2226       | 2,2 | 123,44 | S143            | 100LB               | 6             | 35000        | 18500          |
| 7,2         | 2345       | 1,3 | 130,04 | S123            | 100LB               | 6             | 30000        | 11200          |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 1,85 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size                | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------------|-------|------|--------------|----------------|
| 7,2         | 2308       | 1,3 | 194,59 | S123            | 90LB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 7,0         | 2413       | 1,3 | 133,78 | S123            | 100LB               |       | 6    | 30000        | 11200          |
| 6,7         | 2519       | 2,0 | 139,64 | S143            | 100LB               |       | 6    | 35000        | 18500          |
| 6,5         | 2558       | 1,2 | 215,60 | S123            | 90LB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 6,2         | 2689       | 1,9 | 149,10 | S143            | 100LB               |       | 6    | 35000        | 18500          |
| 6,1         | 2731       | 1,2 | 151,43 | S123            | 100LB               |       | 6    | 30000        | 11200          |
| 5,9         | 2834       | 1,1 | 238,93 | S123            | 90LB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 5,9         | 2840       | 1,4 | 157,49 | S143            | 100LB               |       | 6    | 35000        | 18500          |
| 5,5         | 3031       | 1,0 | 255,54 | S123            | 90LB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 5,4         | 3094       | 1,6 | 171,55 | S143            | 100LB               |       | 6    | 35000        | 18500          |
| 5,3         | 3164       | 1,4 | 175,41 | S143            | 100LB               |       | 6    | 35000        | 18500          |
| 5,2         | 3202       | 1,0 | 177,53 | S123            | 100LB               |       | 6    | 30000        | 11200          |
| 5,0         | 3323       | 0,9 | 280,10 | S123            | 90LB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 4,7         | 3548       | 1,4 | 196,74 | S143            | 100LB               |       | 6    | 35000        | 18500          |
| 4,2         | 4014       | 1,2 | 222,57 | S143            | 100LB               |       | 6    | 35000        | 18500          |
| 3,9         | 4286       | 1,2 | 237,63 | S143            | 100LB               |       | 6    | 35000        | 18500          |
| 3,4         | 4931       | 1,0 | 273,41 | S143            | 100LB               |       | 6    | 35000        | 18500          |

## 2,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size        | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|-------------|-------|------|--------------|----------------|
| 331,6       | 59         | 2,2 | 8,63  | S052            | 90L         |       | 2    | 3106         | 3106           |
| 270,5       | 72         | 3,8 | 10,65 | S062            | 90L         |       | 2    | 5881         | 2353           |
| 256,7       | 76         | 1,9 | 11,14 | S052            | 90L         |       | 2    | 3310         | 3310           |
| 244,3       | 80         | 3,7 | 11,71 | S062            | 90L         |       | 2    | 6050         | 2420           |
| 238,3       | 82         | 1,8 | 12,00 | S052            | 90L         |       | 2    | 3369         | 3369           |
| 219,0       | 89         | 3,5 | 13,06 | S062            | 90L         |       | 2    | 6232         | 2493           |
| 214,1       | 91         | 3,5 | 13,36 | S062            | 90L         |       | 2    | 6270         | 2508           |
| 209,4       | 93         | 1,7 | 13,66 | S052            | 90L         |       | 2    | 3471         | 3471           |
| 187,3       | 104        | 1,7 | 15,27 | S052            | 90L         |       | 2    | 3558         | 3558           |
| 180,7       | 108        | 3,1 | 15,94 | S062            | 90L         |       | 2    | 6557         | 2623           |
| 177,5       | 114        | 2,9 | 8,00  | S062            | 100LA/112MR |       | 4    | 6563         | 2625           |
| 176,9       | 110        | 3,1 | 16,16 | S062            | 90L         |       | 2    | 6593         | 2637           |
| 175,6       | 111        | 1,6 | 16,29 | S052            | 90L         |       | 2    | 3607         | 3607           |
| 164,6       | 123        | 1,4 | 8,63  | S052            | 100LA/112MR |       | 4    | 3631         | 3631           |
| 159,2       | 127        | 2,6 | 8,92  | S062            | 100LA/112MR |       | 4    | 6747         | 2699           |
| 153,5       | 127        | 1,4 | 18,63 | S052            | 90L         |       | 2    | 3708         | 3708           |
| 148,8       | 136        | 2,7 | 9,55  | S062            | 100LA/112MR |       | 4    | 6861         | 2744           |
| 148,3       | 131        | 2,6 | 19,29 | S062            | 90L         |       | 2    | 6896         | 2758           |
| 146,3       | 133        | 2,6 | 19,55 | S062            | 90L         |       | 2    | 6920         | 2768           |
| 145,0       | 134        | 1,3 | 19,73 | S052            | 90L         |       | 2    | 3749         | 3749           |
| 136,0       | 143        | 1,4 | 21,04 | S052            | 90L         |       | 2    | 3794         | 3794           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 2,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size<br>Motor      | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|--------------------|------|--------------|----------------|
| 133,4       | 151        | 2,4 | 10,65 | S062            | 100LA/112MR        | 4    | 7045         | 2818           |
| 132,8       | 147        | 1,3 | 21,53 | S052            | 90L                | 2    | 3810         | 3810           |
| 129,3       | 151        | 4,0 | 22,13 | S082            | 90L <sup>(1)</sup> | 2    | 15239        | 4354           |
| 127,5       | 158        | 1,2 | 11,14 | S052            | 100LA/112MR        | 4    | 3806         | 3806           |
| 126,7       | 161        | 3,6 | 7,34  | S082            | 112M/112MA         | 6    | 15309        | 4374           |
| 123,4       | 158        | 2,2 | 23,18 | S062            | 90L                | 2    | 7212         | 2885           |
| 121,3       | 166        | 2,3 | 11,71 | S062            | 100LA/112MR        | 4    | 7204         | 2882           |
| 120,4       | 162        | 2,2 | 23,75 | S062            | 90L                | 2    | 7253         | 2901           |
| 119,2       | 163        | 3,7 | 24,00 | S082            | 90L                | 2    | 15625        | 4464           |
| 118,8       | 164        | 1,2 | 24,07 | S052            | 90L                | 2    | 3884         | 3884           |
| 118,3       | 170        | 1,2 | 12,00 | S052            | 100LA/112MR        | 4    | 3852         | 3852           |
| 116,3       | 175        | 2,0 | 8,00  | S062            | 112M/112MA         | 6    | 7264         | 2906           |
| 115,3       | 177        | 3,6 | 8,06  | S082            | 112M/112MA         | 6    | 15756        | 4502           |
| 113,8       | 171        | 2,1 | 25,14 | S062            | 90L                | 2    | 7350         | 2940           |
| 113,5       | 171        | 1,3 | 25,20 | S052            | 90L                | 2    | 3914         | 3914           |
| 110,9       | 175        | 1,2 | 25,79 | S052            | 90L                | 2    | 3928         | 3928           |
| 109,8       | 177        | 3,4 | 26,05 | S082            | 90L                | 2    | 16022        | 4578           |
| 108,7       | 185        | 2,3 | 13,06 | S062            | 100LA/112MR        | 4    | 7386         | 2954           |
| 107,8       | 189        | 0,9 | 8,63  | S052            | 112M/112MA         | 6    | 3896         | 3896           |
| 106,3       | 190        | 2,2 | 13,36 | S062            | 100LA/112MR        | 4    | 7423         | 2969           |
| 104,8       | 186        | 3,6 | 27,29 | S082            | 90L                | 2    | 16251        | 4643           |
| 104,2       | 195        | 1,8 | 8,92  | S062            | 112M/112MA         | 6    | 7443         | 2977           |
| 104,0       | 194        | 1,1 | 13,66 | S052            | 100LA/112MR        | 4    | 3927         | 3927           |
| 103,4       | 188        | 1,9 | 27,66 | S062            | 90L                | 2    | 7511         | 3005           |
| 102,8       | 189        | 1,1 | 27,81 | S052            | 90L                | 2    | 3973         | 3973           |
| 101,1       | 199        | 3,8 | 14,04 | S082            | 100LA/112MR        | 4    | 16407        | 4688           |
| 99,7        | 195        | 3,5 | 28,67 | S082            | 90L                | 2    | 16498        | 4714           |
| 97,4        | 209        | 1,8 | 9,55  | S062            | 112M/112MA         | 6    | 7552         | 3021           |
| 96,6        | 201        | 3,4 | 29,60 | S082            | 90L                | 2    | 16658        | 4759           |
| 95,3        | 204        | 1,1 | 30,00 | S052            | 90L                | 2    | 4015         | 4015           |
| 95,3        | 204        | 1,8 | 30,00 | S062            | 90L                | 2    | 7647         | 3059           |
| 93,5        | 218        | 3,1 | 9,94  | S082            | 112M/112MA         | 6    | 16791        | 4797           |
| 93,0        | 217        | 1,1 | 15,27 | S052            | 100LA/112MR        | 4    | 3984         | 3984           |
| 92,0        | 219        | 3,5 | 15,43 | S082            | 100LA/112MR        | 4    | 16880        | 4823           |
| 90,3        | 223        | 3,4 | 15,73 | S082            | 100LA/112MR        | 4    | 16977        | 4851           |
| 90,0        | 216        | 3,5 | 31,78 | S082            | 90L                | 2    | 17019        | 4863           |
| 89,1        | 226        | 2,0 | 15,94 | S062            | 100LA/112MR        | 4    | 7708         | 3083           |
| 87,9        | 222        | 1,0 | 32,55 | S052            | 90L                | 2    | 4056         | 4056           |
| 87,9        | 230        | 2,0 | 16,16 | S062            | 100LA/112MR        | 4    | 7730         | 3092           |
| 87,4        | 233        | 1,6 | 10,65 | S062            | 112M/112MA         | 6    | 7725         | 3090           |
| 87,2        | 231        | 1,0 | 16,29 | S052            | 100LA/112MR        | 4    | 4012         | 4012           |
| 86,7        | 225        | 1,0 | 33,00 | S052            | 90L                | 2    | 4062         | 4062           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 2,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size        | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|-------------|-------|------|--------------|----------------|
| 85,2        | 224        | 2,0 | 33,57 | S063            | 90L         |       | 2    | 7861         | 3144           |
| 84,3        | 231        | 1,8 | 33,93 | S062            | 90L         |       | 2    | 7848         | 3139           |
| 82,1        | 246        | 3,1 | 17,29 | S082            | 100LA/112MR |       | 4    | 17469        | 4991           |
| 81,9        | 238        | 3,2 | 34,91 | S082            | 90L         |       | 2    | 17508        | 5002           |
| 80,6        | 242        | 3,1 | 35,50 | S082            | 90L         |       | 2    | 17597        | 5028           |
| 80,1        | 254        | 2,9 | 11,61 | S082            | 112M/112MA  |       | 6    | 17588        | 5025           |
| 79,4        | 256        | 1,6 | 11,71 | S062            | 112M/112MA  |       | 6    | 7871         | 3148           |
| 78,8        | 247        | 1,0 | 36,55 | S052            | 90L         |       | 2    | 4103         | 4103           |
| 78,4        | 243        | 1,1 | 36,50 | S053            | 90L         |       | 2    | 4135         | 4135           |
| 78,2        | 249        | 1,8 | 36,57 | S062            | 90L         |       | 2    | 7968         | 3187           |
| 76,2        | 265        | 0,9 | 18,63 | S052            | 100LA/112MR |       | 4    | 4062         | 4062           |
| 75,7        | 252        | 1,8 | 37,77 | S063            | 90L         |       | 2    | 8052         | 3221           |
| 74,6        | 270        | 2,8 | 19,03 | S082            | 100LA/112MR |       | 4    | 17973        | 5135           |
| 73,6        | 274        | 1,6 | 19,29 | S062            | 100LA/112MR |       | 4    | 8001         | 3200           |
| 72,9        | 279        | 2,8 | 12,75 | S082            | 112M/112MA  |       | 6    | 18000        | 5167           |
| 72,9        | 279        | 3,8 | 12,75 | S102            | 112M/112MA  |       | 6    | 22000        | 6400           |
| 72,6        | 278        | 1,7 | 19,55 | S062            | 100LA/112MR |       | 4    | 8021         | 3208           |
| 72,6        | 268        | 1,7 | 39,38 | S062            | 90L         |       | 2    | 8082         | 3233           |
| 71,4        | 267        | 1,7 | 40,05 | S063            | 90L         |       | 2    | 8144         | 3258           |
| 71,4        | 273        | 2,8 | 40,05 | S082            | 90L         |       | 2    | 18000        | 5212           |
| 71,2        | 286        | 1,5 | 13,06 | S062            | 112M/112MA  |       | 6    | 8031         | 3213           |
| 70,5        | 286        | 2,7 | 20,14 | S082            | 100LA/112MR |       | 4    | 18000        | 5222           |
| 69,6        | 293        | 1,5 | 13,36 | S062            | 112M/112MA  |       | 6    | 8064         | 3225           |
| 67,3        | 289        | 3,6 | 42,53 | S102            | 90L         |       | 2    | 22000        | 6572           |
| 66,4        | 293        | 2,6 | 43,05 | S082            | 90L         |       | 2    | 18000        | 5325           |
| 66,2        | 308        | 2,6 | 14,04 | S082            | 112M/112MA  |       | 6    | 18000        | 5317           |
| 65,5        | 297        | 1,5 | 43,64 | S062            | 90L         |       | 2    | 8236         | 3294           |
| 65,0        | 299        | 3,3 | 44,00 | S102            | 90L         |       | 2    | 22000        | 6641           |
| 64,2        | 314        | 2,5 | 22,13 | S082            | 100LA/112MR |       | 4    | 18000        | 5369           |
| 62,0        | 314        | 1,4 | 46,10 | S062            | 90L         |       | 2    | 8314         | 3326           |
| 61,3        | 329        | 1,4 | 23,18 | S062            | 100LA/112MR |       | 4    | 8259         | 3304           |
| 60,7        | 321        | 3,7 | 47,13 | S102            | 90L         |       | 2    | 22000        | 6783           |
| 60,3        | 338        | 2,4 | 15,43 | S082            | 112M/112MA  |       | 6    | 18000        | 5465           |
| 60,3        | 338        | 3,9 | 15,43 | S102            | 112MA       |       | 6    | 22000        | 6786           |
| 59,8        | 337        | 1,4 | 23,75 | S062            | 100LA/112MR |       | 4    | 8291         | 3316           |
| 59,2        | 329        | 1,4 | 48,30 | S062            | 90L         |       | 2    | 8379         | 3352           |
| 59,2        | 341        | 2,3 | 24,00 | S082            | 100LA/112MR |       | 4    | 18000        | 5498           |
| 59,1        | 344        | 2,3 | 15,73 | S082            | 112M/112MA  |       | 6    | 18000        | 5495           |
| 58,4        | 349        | 1,4 | 15,94 | S062            | 112M/112MA  |       | 6    | 8301         | 3320           |
| 58,2        | 327        | 1,4 | 49,13 | S063            | 90L         |       | 2    | 8447         | 3379           |
| 57,5        | 354        | 1,3 | 16,16 | S062            | 112M/112MA  |       | 6    | 8318         | 3327           |
| 56,9        | 342        | 2,2 | 50,25 | S082            | 90L         |       | 2    | 18000        | 5572           |

## 5.1 S GEARED MOTORS (50Hz)

## 2,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size        | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|-------------|-------|------|--------------|----------------|
| 56,9        | 342        | 3,1 | 50,25 | S102            | 90L         |       | 2    | 22000        | 6917           |
| 56,5        | 357        | 1,3 | 25,14 | S062            | 100LA/112MR |       | 4    | 8364         | 3346           |
| 54,5        | 370        | 2,2 | 26,05 | S082            | 100LA/112MR |       | 4    | 18000        | 5630           |
| 54,0        | 377        | 3,6 | 17,21 | S102            | 112M/112MA  |       | 6    | 22000        | 7016           |
| 53,8        | 379        | 2,1 | 17,29 | S082            | 112M/112MA  |       | 6    | 18000        | 5649           |
| 53,4        | 364        | 1,2 | 53,53 | S062            | 90L         |       | 2    | 8515         | 3406           |
| 52,7        | 369        | 2,0 | 54,27 | S082            | 90L         |       | 2    | 18000        | 5698           |
| 52,0        | 374        | 1,2 | 55,00 | S062            | 90L         |       | 2    | 8549         | 3419           |
| 52,0        | 388        | 2,3 | 27,29 | S082            | 100LA/112MR |       | 4    | 18000        | 5706           |
| 51,9        | 375        | 2,6 | 55,14 | S102            | 90L         |       | 2    | 22000        | 7116           |
| 51,7        | 368        | 1,2 | 55,29 | S063            | 90L         |       | 2    | 8605         | 3442           |
| 51,3        | 393        | 1,2 | 27,66 | S062            | 100LA/112MR |       | 4    | 8477         | 3391           |
| 49,5        | 407        | 2,2 | 28,67 | S082            | 100LA/112MR |       | 4    | 18000        | 5787           |
| 48,9        | 417        | 1,9 | 19,03 | S082            | 112M/112MA  |       | 6    | 18000        | 5805           |
| 48,9        | 416        | 3,5 | 19,00 | S102            | 112M/112MA  |       | 6    | 22000        | 7228           |
| 48,7        | 391        | 1,2 | 58,72 | S063            | 90L         |       | 2    | 8679         | 3472           |
| 48,2        | 422        | 1,1 | 19,29 | S062            | 112M/112MA  |       | 6    | 8519         | 3407           |
| 48,1        | 404        | 3,0 | 59,40 | S102            | 90L         |       | 2    | 22000        | 7278           |
| 48,0        | 420        | 2,1 | 29,60 | S082            | 100LA/112MR |       | 4    | 18000        | 5840           |
| 47,6        | 428        | 1,1 | 19,55 | S062            | 112M/112MA  |       | 6    | 8532         | 3413           |
| 47,5        | 424        | 3,5 | 29,87 | S102            | 100LA/112MR |       | 4    | 22000        | 7295           |
| 47,3        | 426        | 1,2 | 30,00 | S062            | 100LA/112MR |       | 4    | 8564         | 3426           |
| 46,2        | 441        | 1,8 | 20,14 | S082            | 112M/112MA  |       | 6    | 18000        | 5900           |
| 46,1        | 422        | 1,8 | 61,98 | S082            | 90L         |       | 2    | 18000        | 5919           |
| 44,7        | 451        | 2,2 | 31,78 | S082            | 100LA/112MR |       | 4    | 18000        | 5959           |
| 44,7        | 456        | 3,2 | 20,83 | S102            | 112M/112MA  |       | 6    | 22000        | 7431           |
| 43,8        | 460        | 3,3 | 32,40 | S102            | 100LA/112MR |       | 4    | 22000        | 7476           |
| 43,4        | 439        | 1,0 | 65,85 | S063            | 90L         |       | 2    | 8808         | 3523           |
| 42,4        | 450        | 1,7 | 67,52 | S083            | 90L         |       | 2    | 18000        | 6074           |
| 42,2        | 462        | 2,6 | 67,84 | S102            | 90L         |       | 2    | 22000        | 7575           |
| 42,0        | 485        | 1,7 | 22,13 | S082            | 112M/112MA  |       | 6    | 18000        | 6058           |
| 42,0        | 485        | 3,0 | 22,13 | S102            | 112M/112MA  |       | 6    | 22000        | 7566           |
| 41,9        | 482        | 1,1 | 33,93 | S062            | 100LA/112MR |       | 4    | 8677         | 3471           |
| 40,7        | 496        | 2,0 | 34,91 | S082            | 100LA/112MR |       | 4    | 18000        | 6118           |
| 40,7        | 496        | 2,8 | 34,91 | S102            | 100LA/112MR |       | 4    | 22000        | 7644           |
| 40,1        | 508        | 1,0 | 23,18 | S062            | 112M/112MA  |       | 6    | 8679         | 3471           |
| 40,0        | 504        | 2,0 | 35,50 | S082            | 100LA/112MR |       | 4    | 18000        | 6147           |
| 39,2        | 520        | 0,9 | 23,75 | S062            | 112M/112MA  |       | 6    | 8695         | 3478           |
| 38,8        | 519        | 1,2 | 36,57 | S062            | 100LA/112MR |       | 4    | 8734         | 3493           |
| 38,8        | 526        | 1,6 | 24,00 | S082            | 112M/112MA  |       | 6    | 18000        | 6196           |
| 38,6        | 494        | 1,5 | 74,18 | S083            | 90L         |       | 2    | 18000        | 6237           |
| 38,6        | 494        | 2,4 | 74,18 | S103            | 90L         |       | 2    | 22000        | 7788           |

## 5.1 S GEARED MOTORS (50Hz)

## 2,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size<br>Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 38,3        | 532        | 3,0 | 24,28  | S102            | 112M/112MA    | 6    | 22000        | 7777           |
| 37,1        | 544        | 2,8 | 38,30  | S102            | 100LA/112MR   | 4    | 22000        | 7857           |
| 37,0        | 551        | 0,9 | 25,14  | S062            | 112M/112MA    | 6    | 8729         | 3492           |
| 36,1        | 559        | 1,1 | 39,38  | S062            | 100LA/112MR   | 4    | 8778         | 3511           |
| 35,7        | 571        | 1,5 | 26,05  | S082            | 112M/112MA    | 6    | 18000        | 6337           |
| 35,5        | 569        | 1,8 | 40,05  | S082            | 100LA/112MR   | 4    | 18000        | 6355           |
| 35,3        | 577        | 2,7 | 26,33  | S102            | 112M/112MA    | 6    | 22000        | 7966           |
| 35,1        | 542        | 2,2 | 81,39  | S103            | 90L           | 2    | 22000        | 8006           |
| 35,0        | 544        | 1,4 | 81,71  | S083            | 90L           | 2    | 18000        | 6407           |
| 34,1        | 598        | 1,6 | 27,29  | S082            | 112M/112MA    | 6    | 18000        | 6418           |
| 33,4        | 604        | 2,3 | 42,53  | S102            | 100LA/112MR   | 4    | 22000        | 8103           |
| 33,0        | 612        | 1,6 | 43,05  | S082            | 100LA/112MR   | 4    | 18000        | 6481           |
| 32,5        | 620        | 1,0 | 43,64  | S062            | 100LA/112MR   | 4    | 8819         | 3528           |
| 32,4        | 628        | 1,5 | 28,67  | S082            | 112M/112MA    | 6    | 18000        | 6505           |
| 32,3        | 625        | 2,1 | 44,00  | S102            | 100LA/112MR   | 4    | 22000        | 8184           |
| 31,9        | 598        | 2,0 | 89,77  | S103            | 90L           | 2    | 22000        | 8241           |
| 31,8        | 634        | 3,8 | 44,63  | S122            | 100LA/112MR   | 4    | 30000        | 11200          |
| 31,4        | 648        | 1,5 | 29,60  | S082            | 112M/112MA    | 6    | 18000        | 6561           |
| 31,3        | 610        | 1,2 | 91,49  | S083            | 90L           | 2    | 18000        | 6609           |
| 31,1        | 654        | 2,4 | 29,87  | S102            | 112M/112MA    | 6    | 22000        | 8265           |
| 30,1        | 669        | 2,4 | 47,13  | S102            | 100LA/112MR   | 4    | 22000        | 8349           |
| 29,3        | 696        | 1,5 | 31,78  | S082            | 112M/112MA    | 6    | 18000        | 6686           |
| 29,0        | 697        | 3,4 | 49,04  | S122            | 100LA/112MR   | 4    | 30000        | 11200          |
| 28,7        | 710        | 2,2 | 32,40  | S102            | 112M/112MA    | 6    | 22000        | 8462           |
| 28,6        | 667        | 1,8 | 100,15 | S103            | 90L           | 2    | 22000        | 8509           |
| 28,4        | 671        | 1,1 | 100,62 | S083            | 90L           | 2    | 18000        | 6781           |
| 28,3        | 714        | 1,4 | 50,25  | S082            | 100LA/112MR   | 4    | 18000        | 6755           |
| 28,3        | 714        | 2,0 | 50,25  | S102            | 100LA/112MR   | 4    | 22000        | 8506           |
| 26,6        | 765        | 1,4 | 34,91  | S082            | 112M/112MA    | 6    | 18000        | 6853           |
| 26,6        | 765        | 1,9 | 34,91  | S102            | 112M/112MA    | 6    | 22000        | 8645           |
| 26,4        | 763        | 3,4 | 53,75  | S122            | 100LA/112MR   | 4    | 30000        | 11200          |
| 26,2        | 778        | 1,4 | 35,50  | S082            | 112M/112MA    | 6    | 18000        | 6883           |
| 26,2        | 771        | 1,3 | 54,27  | S082            | 100LA/112MR   | 4    | 18000        | 6892           |
| 25,9        | 737        | 1,6 | 110,55 | S103            | 90L           | 2    | 22000        | 8756           |
| 25,8        | 783        | 1,7 | 55,14  | S102            | 100LA/112MR   | 4    | 22000        | 8735           |
| 25,4        | 750        | 3,0 | 112,52 | S123            | 90L           | 2    | 30000        | 11200          |
| 24,3        | 839        | 1,9 | 38,30  | S102            | 112M/112MA    | 6    | 22000        | 8877           |
| 23,9        | 844        | 1,9 | 59,40  | S102            | 100LA/112MR   | 4    | 22000        | 8922           |
| 23,6        | 808        | 1,5 | 121,29 | S103            | 90L           | 2    | 22000        | 8992           |
| 23,2        | 877        | 1,2 | 40,05  | S082            | 112M/112MA    | 6    | 18000        | 7098           |
| 23,2        | 822        | 2,7 | 123,33 | S123            | 90L           | 2    | 30000        | 11200          |
| 22,9        | 880        | 1,1 | 61,98  | S082            | 100LA/112MR   | 4    | 18000        | 7130           |

## 5.1 S GEARED MOTORS (50Hz)

## 2,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size<br>Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 22,6        | 900        | 3,5 | 41,07  | S122            | 112M/112MA    | 6    | 30000        | 11200          |
| 22,2        | 858        | 1,4 | 128,73 | S103            | 90L           | 2    | 22000        | 9000           |
| 22,0        | 867        | 2,6 | 130,04 | S123            | 90L           | 2    | 30000        | 11200          |
| 21,9        | 931        | 1,6 | 42,53  | S102            | 112M/112MA    | 6    | 22000        | 9000           |
| 21,9        | 902        | 3,0 | 64,84  | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 21,6        | 943        | 1,1 | 43,05  | S082            | 112M/112MA    | 6    | 18000        | 7200           |
| 21,5        | 937        | 3,2 | 66,00  | S122            | 100LA/112MR   | 4    | 30000        | 11200          |
| 21,4        | 891        | 2,5 | 133,78 | S123            | 90L           | 2    | 30000        | 11200          |
| 21,3        | 955        | 3,3 | 43,60  | S122            | 112M/112MA    | 6    | 30000        | 11200          |
| 21,1        | 964        | 1,4 | 44,00  | S102            | 112M/112MA    | 6    | 22000        | 9000           |
| 21,0        | 939        | 1,1 | 67,52  | S083            | 100LA/112MR   | 4    | 18000        | 7200           |
| 20,9        | 964        | 1,7 | 67,84  | S102            | 100LA/112MR   | 4    | 22000        | 9000           |
| 20,8        | 978        | 2,6 | 44,63  | S122            | 112M/112MA    | 6    | 30000        | 11200          |
| 20,2        | 941        | 1,3 | 141,24 | S103            | 90L           | 2    | 22000        | 9000           |
| 20,0        | 988        | 2,7 | 71,07  | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 19,7        | 1032       | 1,6 | 47,13  | S102            | 112M/112MA    | 6    | 22000        | 9000           |
| 19,1        | 1032       | 1,0 | 74,18  | S083            | 100LA/112MR   | 4    | 18000        | 7200           |
| 19,1        | 1032       | 1,6 | 74,18  | S103            | 100LA/112MR   | 4    | 22000        | 9000           |
| 19,0        | 1074       | 2,3 | 49,04  | S122            | 112M/112MA    | 6    | 30000        | 11200          |
| 18,9        | 1009       | 2,2 | 151,43 | S123            | 90L           | 2    | 30000        | 11200          |
| 18,5        | 1101       | 1,0 | 50,25  | S082            | 112M/112MA    | 6    | 18000        | 7200           |
| 18,5        | 1101       | 1,3 | 50,25  | S102            | 112M/112MA    | 6    | 22000        | 9000           |
| 18,1        | 1091       | 2,7 | 78,46  | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 17,9        | 1105       | 0,9 | 81,71  | S083            | 112MR         | 4    | 18000        | 7200           |
| 17,9        | 1105       | 3,8 | 79,45  | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 17,7        | 1152       | 0,9 | 54,27  | S082            | 112M          | 6    | 18000        | 7200           |
| 17,4        | 1132       | 1,4 | 81,39  | S103            | 100LA/112MR   | 4    | 22000        | 9000           |
| 17,3        | 1177       | 2,3 | 53,75  | S122            | 112M/112MA    | 6    | 30000        | 11200          |
| 16,9        | 1208       | 1,1 | 55,14  | S102            | 112M/112MA    | 6    | 22000        | 9000           |
| 16,5        | 1158       | 1,0 | 173,78 | S103            | 90L           | 2    | 22000        | 9000           |
| 16,3        | 1214       | 2,5 | 87,27  | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 16,1        | 1183       | 1,9 | 177,53 | S123            | 90L           | 2    | 30000        | 11200          |
| 15,8        | 1248       | 1,3 | 89,77  | S103            | 100LA/112MR   | 4    | 22000        | 9000           |
| 15,7        | 1301       | 1,3 | 59,40  | S102            | 112M/112MA    | 6    | 22000        | 9000           |
| 14,7        | 1297       | 1,7 | 194,59 | S123            | 90L           | 2    | 30000        | 11200          |
| 14,4        | 1387       | 3,6 | 64,68  | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 14,4        | 1374       | 3,2 | 98,81  | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 14,3        | 1391       | 2,0 | 64,84  | S123            | 112M/112MA    | 6    | 30000        | 11200          |
| 14,2        | 1393       | 1,1 | 100,15 | S103            | 100LA/112MR   | 4    | 22000        | 9000           |
| 14,1        | 1446       | 2,2 | 66,00  | S122            | 112M/112MA    | 6    | 30000        | 11200          |
| 13,7        | 1486       | 1,1 | 67,84  | S102            | 112M/112MA    | 6    | 22000        | 9000           |
| 13,5        | 1481       | 3,5 | 69,06  | S143            | 112M/112MA    | 6    | 35000        | 18500          |

## 5.1 S GEARED MOTORS (50Hz)

## 2,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size<br>Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 13,4        | 1473       | 2,0 | 105,91 | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 13,3        | 1437       | 1,6 | 215,60 | S123            | 90L           | 2    | 30000        | 11200          |
| 13,1        | 1524       | 1,9 | 71,07  | S123            | 112M/112MA    | 6    | 30000        | 11200          |
| 12,9        | 1531       | 3,1 | 110,05 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 12,8        | 1537       | 1,0 | 110,55 | S103            | 100LA/112MR   | 4    | 22000        | 9000           |
| 12,6        | 1565       | 1,9 | 112,52 | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 12,5        | 1591       | 1,1 | 74,18  | S103            | 112M/112MA    | 6    | 22000        | 9000           |
| 12,0        | 1592       | 1,4 | 238,93 | S123            | 90L           | 2    | 30000        | 11200          |
| 11,9        | 1683       | 1,9 | 78,46  | S123            | 112M/112MA    | 6    | 30000        | 11200          |
| 11,7        | 1687       | 0,9 | 121,29 | S103            | 100LA/112MR   | 4    | 22000        | 9000           |
| 11,7        | 1704       | 2,6 | 79,45  | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 11,5        | 1715       | 1,7 | 123,33 | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 11,5        | 1717       | 2,8 | 123,44 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 11,4        | 1746       | 1,0 | 81,39  | S103            | 112M/112MA    | 6    | 22000        | 9000           |
| 11,2        | 1765       | 0,9 | 128,73 | S103            | 100LA/112MR   | 4    | 22000        | 9000           |
| 11,2        | 1703       | 1,3 | 255,54 | S123            | 90L           | 2    | 30000        | 11200          |
| 10,9        | 1809       | 1,7 | 130,04 | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 10,7        | 1865       | 0,9 | 89,77  | S103            | 112M          | 6    | 22000        | 9000           |
| 10,7        | 1872       | 1,7 | 87,27  | S123            | 112M/112MA    | 6    | 30000        | 11200          |
| 10,6        | 1861       | 1,6 | 133,78 | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 10,2        | 1866       | 1,2 | 280,10 | S123            | 90L           | 2    | 30000        | 11200          |
| 10,2        | 1942       | 2,5 | 139,64 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 9,5         | 2007       | 1,1 | 301,16 | S123            | 90L           | 2    | 30000        | 11200          |
| 9,5         | 2074       | 2,3 | 149,10 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 9,4         | 2106       | 1,4 | 151,43 | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 9,4         | 2119       | 2,2 | 98,81  | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 9,0         | 2190       | 1,7 | 157,49 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 8,8         | 2272       | 1,4 | 105,91 | S123            | 112M/112MA    | 6    | 30000        | 11200          |
| 8,5         | 2360       | 2,1 | 110,05 | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 8,3         | 2413       | 1,3 | 112,52 | S123            | 112M/112MA    | 6    | 30000        | 11200          |
| 8,3         | 2386       | 2,0 | 171,55 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 8,1         | 2440       | 1,7 | 175,41 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 8,0         | 2469       | 1,2 | 177,53 | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 7,5         | 2645       | 1,2 | 123,33 | S123            | 112M/112MA    | 6    | 30000        | 11200          |
| 7,5         | 2648       | 1,9 | 123,44 | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 7,3         | 2706       | 1,1 | 194,59 | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 7,2         | 2789       | 1,1 | 130,04 | S123            | 112M/112MA    | 6    | 30000        | 11200          |
| 7,2         | 2736       | 1,7 | 196,74 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 7,0         | 2869       | 1,1 | 133,78 | S123            | 112M/112MA    | 6    | 30000        | 11200          |
| 6,7         | 2995       | 1,7 | 139,64 | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 6,6         | 2999       | 1,0 | 215,60 | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 6,4         | 3095       | 1,5 | 222,57 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |

## 5.1 S GEARED MOTORS (50Hz)

## 2,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 6,2         | 3198       | 1,6 | 149,10 | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 6,1         | 3248       | 1,0 | 151,43 | S123            | 112M/112MA    | 6    | 30000        | 11200          |
| 6,0         | 3305       | 1,5 | 237,63 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 5,9         | 3323       | 0,9 | 238,93 | S123            | 100LA/112MR   | 4    | 30000        | 11200          |
| 5,9         | 3378       | 1,2 | 157,49 | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 5,4         | 3679       | 1,3 | 171,55 | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 5,3         | 3762       | 1,2 | 175,41 | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 5,2         | 3803       | 1,3 | 273,41 | S143            | 100LA/112MR   | 4    | 35000        | 18500          |
| 4,7         | 4220       | 1,2 | 196,74 | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 4,2         | 4774       | 1,0 | 222,57 | S143            | 112M/112MA    | 6    | 35000        | 18500          |
| 3,9         | 5097       | 1,0 | 237,63 | S143            | 112M/112MA    | 6    | 35000        | 18500          |

## 3,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size        | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|------|--------------|----------------|
| 358,8       | 74         | 3,3 | 8,00  | S062            | 100L/100LA           | 2    | 5305         | 2122           |
| 332,8       | 80         | 1,6 | 8,63  | S052            | 100L/100LA           | 2    | 2979         | 2979           |
| 321,7       | 83         | 3,0 | 8,92  | S062            | 100L/100LA           | 2    | 5462         | 2185           |
| 300,7       | 88         | 3,1 | 9,55  | S062            | 100L/100LA           | 2    | 5561         | 2224           |
| 269,6       | 98         | 2,7 | 10,65 | S062            | 100L/100LA           | 2    | 5721         | 2288           |
| 257,6       | 103        | 1,4 | 11,14 | S052            | 100L/100LA           | 2    | 3148         | 3148           |
| 245,1       | 108        | 2,7 | 11,71 | S062            | 100L/100LA           | 2    | 5861         | 2344           |
| 239,2       | 111        | 1,4 | 12,00 | S052            | 100L/100LA           | 2    | 3194         | 3194           |
| 219,8       | 121        | 2,6 | 13,06 | S062            | 100L/100LA           | 2    | 6022         | 2409           |
| 214,9       | 124        | 2,6 | 13,36 | S062            | 100L/100LA           | 2    | 6055         | 2422           |
| 210,2       | 126        | 1,2 | 13,66 | S052            | 100L/100LA           | 2    | 3273         | 3273           |
| 193,5       | 142        | 3,9 | 7,34  | S082            | 100LB/112MS          | 4    | 13306        | 3802           |
| 187,9       | 141        | 1,3 | 15,27 | S052            | 100L/100LA           | 2    | 3337         | 3337           |
| 182,5       | 145        | 4,0 | 15,73 | S082            | 100LA <sup>(1)</sup> | 2    | 13563        | 3875           |
| 180,1       | 147        | 2,3 | 15,94 | S062            | 100L/100LA           | 2    | 6314         | 2526           |
| 177,6       | 149        | 2,3 | 16,16 | S062            | 100L/100LA           | 2    | 6335         | 2534           |
| 177,5       | 155        | 2,1 | 8,00  | S062            | 100LB/112MS          | 4    | 6301         | 2520           |
| 176,2       | 151        | 1,2 | 16,29 | S052            | 100L/100LA           | 2    | 3371         | 3371           |
| 176,1       | 156        | 3,8 | 8,06  | S082            | 100LB/112MS          | 4    | 13694        | 3912           |
| 165,9       | 160        | 3,6 | 17,29 | S082            | 100L/100LA           | 2    | 13963        | 3989           |
| 164,6       | 167        | 1,0 | 8,63  | S052            | 100LB/112MS          | 4    | 3372         | 3372           |
| 159,2       | 173        | 1,9 | 8,92  | S062            | 100LB/112MS          | 4    | 6455         | 2582           |
| 154,0       | 172        | 1,0 | 18,63 | S052            | 100L/100LA           | 2    | 3438         | 3438           |
| 150,8       | 176        | 3,3 | 19,03 | S082            | 100L/100LA           | 2    | 14374        | 4107           |
| 148,8       | 185        | 1,9 | 9,55  | S062            | 100LB/112MS          | 4    | 6548         | 2619           |
| 148,8       | 178        | 1,9 | 19,29 | S062            | 100L/100LA           | 2    | 6589         | 2635           |
| 146,8       | 181        | 1,9 | 19,55 | S062            | 100L/100LA           | 2    | 6608         | 2643           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 3,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size    | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|------------------|------|--------------|----------------|
| 142,8       | 193        | 3,4 | 9,94  | S082            | 100LB/112MS      | 4    | 14592        | 4169           |
| 142,5       | 186        | 3,1 | 20,14 | S082            | 100L/100LA       | 2    | 14623        | 4178           |
| 136,4       | 195        | 1,0 | 21,04 | S052            | 100L/100LA       | 2    | 3490         | 3490           |
| 133,4       | 206        | 1,7 | 10,65 | S062            | 100LB/112MS      | 4    | 6696         | 2678           |
| 129,7       | 205        | 2,9 | 22,13 | S082            | 100L/100LA       | 2    | 15043        | 4298           |
| 126,7       | 219        | 2,6 | 7,34  | S082            | 112MB/132S/132SA | 6    | 15117        | 4319           |
| 123,8       | 214        | 1,6 | 23,18 | S062            | 100L/100LA       | 2    | 6843         | 2737           |
| 122,4       | 225        | 3,1 | 11,61 | S082            | 100LB/112MS      | 4    | 15283        | 4367           |
| 121,3       | 227        | 1,7 | 11,71 | S062            | 100LB/112MS      | 4    | 6821         | 2728           |
| 120,8       | 220        | 1,6 | 23,75 | S062            | 100L/100LA       | 2    | 6876         | 2750           |
| 119,6       | 222        | 2,7 | 24,00 | S082            | 100L/100LA       | 2    | 15414        | 4404           |
| 116,3       | 239        | 1,5 | 8,00  | S062            | 112MB            | 6    | 6860         | 2744           |
| 115,3       | 241        | 2,6 | 8,06  | S082            | 112MB/132S/132SA | 6    | 15545        | 4441           |
| 115,3       | 241        | 3,7 | 8,06  | S102            | 112MB/132S/132SA | 6    | 19255        | 5501           |
| 114,1       | 233        | 1,5 | 25,14 | S062            | 100L/100LA       | 2    | 6951         | 2781           |
| 111,4       | 247        | 3,0 | 12,75 | S082            | 100LB/112MS      | 4    | 15715        | 4490           |
| 110,2       | 241        | 2,5 | 26,05 | S082            | 100L/100LA       | 2    | 15794        | 4512           |
| 108,7       | 253        | 1,7 | 13,06 | S062            | 100LB/112MS      | 4    | 6958         | 2783           |
| 106,3       | 259        | 1,6 | 13,36 | S062            | 100LB/112MS      | 4    | 6985         | 2794           |
| 105,2       | 252        | 2,7 | 27,29 | S082            | 100L/100LA       | 2    | 16012        | 4575           |
| 105,1       | 264        | 3,6 | 8,85  | S102            | 112MB/132S/132SA | 6    | 19812        | 5661           |
| 104,2       | 266        | 1,3 | 8,92  | S062            | 112MB            | 6    | 6992         | 2797           |
| 103,8       | 256        | 1,4 | 27,66 | S062            | 100L/100LA       | 2    | 7073         | 2829           |
| 101,1       | 272        | 2,8 | 14,04 | S082            | 100LB/112MS      | 4    | 16168        | 4620           |
| 100,1       | 265        | 2,5 | 28,67 | S082            | 100L/100LA       | 2    | 16248        | 4642           |
| 97,4        | 285        | 1,3 | 9,55  | S062            | 112MB            | 6    | 7070         | 2828           |
| 97,0        | 274        | 2,5 | 29,60 | S082            | 100L/100LA       | 2    | 16400        | 4686           |
| 95,7        | 277        | 1,4 | 30,00 | S062            | 100L/100LA       | 2    | 7172         | 2869           |
| 93,5        | 297        | 2,3 | 9,94  | S082            | 112MB/132S/132SA | 6    | 16531        | 4723           |
| 92,0        | 299        | 2,6 | 15,43 | S082            | 100LB/112MS      | 4    | 16618        | 4748           |
| 90,3        | 305        | 2,5 | 15,73 | S082            | 100LB/112MS      | 4    | 16710        | 4774           |
| 90,3        | 294        | 2,6 | 31,78 | S082            | 100L/100LA       | 2    | 16744        | 4784           |
| 89,1        | 309        | 1,5 | 15,94 | S062            | 100LB/112MS      | 4    | 7186         | 2875           |
| 88,6        | 300        | 3,8 | 32,40 | S102            | 100L/100LA       | 2    | 20912        | 5975           |
| 87,9        | 313        | 1,4 | 16,16 | S062            | 100LB/112MS      | 4    | 7201         | 2880           |
| 87,4        | 318        | 1,2 | 10,65 | S062            | 112MB            | 6    | 7187         | 2875           |
| 85,4        | 325        | 3,1 | 10,88 | S102            | 112MB/132S/132SA | 6    | 21106        | 6030           |
| 84,6        | 314        | 1,3 | 33,93 | S062            | 100L/100LA       | 2    | 7312         | 2925           |
| 82,5        | 333        | 3,9 | 17,21 | S102            | 100LB/112MS      | 4    | 21340        | 6097           |
| 82,2        | 323        | 2,3 | 34,91 | S082            | 100L/100LA       | 2    | 17207        | 4916           |
| 82,2        | 323        | 3,3 | 34,91 | S102            | 100L/100LA       | 2    | 21392        | 6112           |
| 82,1        | 335        | 2,3 | 17,29 | S082            | 100LB/112MS      | 4    | 17175        | 4907           |

## 5.1 S GEARED MOTORS (50Hz)

## 3,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size        | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|------|--------------|----------------|
| 80,8        | 328        | 2,3 | 35,50 | S082            | 100L/100LA           | 2    | 17291        | 4940           |
| 80,1        | 347        | 2,1 | 11,61 | S082            | 112MB/132S/132SA     | 6    | 17284        | 4938           |
| 79,4        | 350        | 1,2 | 11,71 | S062            | 112MB                | 6    | 7280         | 2912           |
| 78,5        | 338        | 1,3 | 36,57 | S062            | 100L/100LA           | 2    | 7390         | 2956           |
| 74,9        | 354        | 3,2 | 38,30 | S102            | 100L/100LA           | 2    | 22000        | 6286           |
| 74,7        | 368        | 3,8 | 19,00 | S102            | 100LB/112MS          | 4    | 21986        | 6282           |
| 74,6        | 369        | 2,1 | 19,03 | S082            | 100LB/112MS          | 4    | 17650        | 5043           |
| 73,6        | 374        | 1,2 | 19,29 | S062            | 100LB/112MS          | 4    | 7369         | 2948           |
| 72,9        | 364        | 1,2 | 39,38 | S062            | 100L/100LA           | 2    | 7461         | 2985           |
| 72,9        | 381        | 2,1 | 12,75 | S082            | 112MB/132S/132SA     | 6    | 17752        | 5072           |
| 72,9        | 381        | 2,8 | 12,75 | S102            | 112MB/132S/132SA     | 6    | 22000        | 6325           |
| 72,6        | 379        | 1,2 | 19,55 | S062            | 100LB/112MS          | 4    | 7381         | 2952           |
| 71,7        | 370        | 2,0 | 40,05 | S082            | 100L/100LA           | 2    | 17898        | 5114           |
| 71,2        | 390        | 1,1 | 13,06 | S062            | 112MB                | 6    | 7372         | 2949           |
| 70,5        | 390        | 2,0 | 20,14 | S082            | 100LB/112MS          | 4    | 17936        | 5125           |
| 69,6        | 399        | 1,1 | 13,36 | S062            | 112MB                | 6    | 7389         | 2956           |
| 68,2        | 403        | 3,5 | 20,83 | S102            | 100LB/112MS          | 4    | 22000        | 6457           |
| 67,5        | 393        | 2,7 | 42,53 | S102            | 100L/100LA           | 2    | 22000        | 6487           |
| 66,7        | 398        | 1,9 | 43,05 | S082            | 100L/100LA           | 2    | 18000        | 5220           |
| 66,5        | 418        | 3,0 | 13,99 | S102            | 112MB/132S/132SA     | 6    | 22000        | 6503           |
| 66,2        | 419        | 1,9 | 14,04 | S082            | 112MB/132S/132SA     | 6    | 18000        | 5212           |
| 65,8        | 404        | 1,1 | 43,64 | S062            | 100L/100LA           | 2    | 7549         | 3019           |
| 65,2        | 407        | 2,4 | 44,00 | S102            | 100L/100LA           | 2    | 22000        | 6554           |
| 64,2        | 429        | 1,9 | 22,13 | S082            | 100LB/112MS          | 4    | 18000        | 5261           |
| 64,2        | 429        | 3,3 | 22,13 | S102            | 100LB/112MS          | 4    | 22000        | 6575           |
| 61,3        | 449        | 1,0 | 23,18 | S062            | 100LB/112MS          | 4    | 7500         | 3000           |
| 60,9        | 436        | 2,8 | 47,13 | S102            | 100L/100LA           | 2    | 22000        | 6690           |
| 60,3        | 461        | 1,8 | 15,43 | S082            | 112MB/132S/132SA     | 6    | 18000        | 5350           |
| 60,3        | 461        | 2,8 | 15,43 | S102            | 112MB/132S/132SA     | 6    | 22000        | 6695           |
| 59,8        | 460        | 1,0 | 23,75 | S062            | 100LB/112MS          | 4    | 7514         | 3005           |
| 59,4        | 447        | 1,0 | 48,30 | S062            | 100L/100LA           | 2    | 7620         | 3048           |
| 59,2        | 465        | 1,7 | 24,00 | S082            | 100LB/112MS          | 4    | 18000        | 5381           |
| 59,1        | 470        | 1,7 | 15,73 | S082            | 112MB/132S/132SA     | 6    | 18000        | 5378           |
| 58,5        | 470        | 3,2 | 24,28 | S102            | 100LB/112MS          | 4    | 22000        | 6758           |
| 58,5        | 454        | 4,0 | 49,04 | S122            | 100LA <sup>(1)</sup> | 2    | 30000        | 9674           |
| 58,4        | 476        | 1,0 | 15,94 | S062            | 112MB                | 6    | 7496         | 2998           |
| 57,5        | 483        | 1,0 | 16,16 | S062            | 112MB                | 6    | 7502         | 3001           |
| 57,1        | 465        | 1,6 | 50,25 | S082            | 100L/100LA           | 2    | 18000        | 5450           |
| 57,1        | 465        | 2,3 | 50,25 | S102            | 100L/100LA           | 2    | 22000        | 6818           |
| 56,5        | 487        | 1,0 | 25,14 | S062            | 100LB/112MS          | 4    | 7541         | 3016           |
| 54,5        | 505        | 1,6 | 26,05 | S082            | 100LB/112MS          | 4    | 18000        | 5504           |
| 54,0        | 514        | 2,7 | 17,21 | S102            | 112MB/132S/132SA     | 6    | 22000        | 6914           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 3,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size    | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|------------------|------|--------------|----------------|
| 53,9        | 510        | 2,9 | 26,33 | S102            | 100LB/112MS      | 4    | 22000        | 6922           |
| 53,8        | 517        | 1,6 | 17,29 | S082            | 112MB/132S/132SA | 6    | 18000        | 5519           |
| 53,4        | 497        | 3,9 | 53,75 | S122            | 100L/100LA       | 2    | 30000        | 9940           |
| 52,9        | 502        | 1,5 | 54,27 | S082            | 100L/100LA       | 2    | 18000        | 5566           |
| 52,1        | 510        | 1,9 | 55,14 | S102            | 100L/100LA       | 2    | 22000        | 7007           |
| 52,0        | 529        | 1,7 | 27,29 | S082            | 100LB/112MS      | 4    | 18000        | 5573           |
| 51,7        | 532        | 0,9 | 27,66 | S062            | 100LB/112MS      | 4    | 7570         | 3028           |
| 49,5        | 555        | 1,6 | 28,67 | S082            | 100LB/112MS      | 4    | 18000        | 5648           |
| 48,9        | 568        | 1,4 | 19,03 | S082            | 112MB/132S/132SA | 6    | 18000        | 5663           |
| 48,9        | 568        | 2,6 | 19,00 | S102            | 112MB/132S/132SA | 6    | 22000        | 7116           |
| 48,3        | 549        | 2,2 | 59,40 | S102            | 100L/100LA       | 2    | 22000        | 7162           |
| 48,0        | 573        | 1,6 | 29,60 | S082            | 100LB/112MS      | 4    | 18000        | 5697           |
| 47,5        | 579        | 2,6 | 29,87 | S102            | 100LB/112MS      | 4    | 22000        | 7181           |
| 46,3        | 573        | 1,3 | 61,98 | S082            | 100L/100LA       | 2    | 18000        | 5770           |
| 46,2        | 602        | 1,3 | 20,14 | S082            | 112MB/132S/132SA | 6    | 18000        | 5749           |
| 44,7        | 615        | 1,6 | 31,78 | S082            | 100LB/112MS      | 4    | 18000        | 5805           |
| 44,7        | 622        | 2,4 | 20,83 | S102            | 112MB/132S/132SA | 6    | 22000        | 7308           |
| 44,3        | 587        | 3,4 | 64,84 | S123            | 100L/100LA       | 2    | 30000        | 10511          |
| 43,8        | 628        | 2,4 | 32,40 | S102            | 100LB/112MS      | 4    | 22000        | 7352           |
| 43,5        | 610        | 3,7 | 66,00 | S122            | 100L/100LA       | 2    | 30000        | 10551          |
| 43,2        | 644        | 3,9 | 22,24 | S142            | 132S/132SA       | 6    | 35000        | 18500          |
| 42,5        | 611        | 1,2 | 67,52 | S083            | 100L/100LA       | 2    | 18000        | 5915           |
| 42,3        | 627        | 1,9 | 67,84 | S102            | 100L/100LA       | 2    | 22000        | 7443           |
| 42,0        | 661        | 1,3 | 22,13 | S082            | 112MB/132S/132SA | 6    | 18000        | 5892           |
| 42,0        | 661        | 2,2 | 22,13 | S102            | 112MB/132S/132SA | 6    | 22000        | 7435           |
| 40,7        | 676        | 1,5 | 34,91 | S082            | 100LB/112MS      | 4    | 18000        | 5949           |
| 40,7        | 676        | 2,1 | 34,91 | S102            | 100LB/112MS      | 4    | 22000        | 7510           |
| 40,4        | 644        | 3,1 | 71,07 | S123            | 100L/100LA       | 2    | 30000        | 10793          |
| 40,0        | 688        | 1,5 | 35,50 | S082            | 100LB/112MS      | 4    | 18000        | 5975           |
| 38,8        | 717        | 1,2 | 24,00 | S082            | 112MB/132S/132SA | 6    | 18000        | 6017           |
| 38,7        | 672        | 1,1 | 74,18 | S083            | 100L/100LA       | 2    | 18000        | 6063           |
| 38,7        | 672        | 1,8 | 74,18 | S103            | 100L/100LA       | 2    | 22000        | 7647           |
| 38,3        | 725        | 2,2 | 24,28 | S102            | 112MB/132S/132SA | 6    | 22000        | 7634           |
| 38,0        | 731        | 3,0 | 25,26 | S142            | 132S/132SA       | 6    | 35000        | 18500          |
| 37,1        | 742        | 2,0 | 38,30 | S102            | 100LB/112MS      | 4    | 22000        | 7711           |
| 36,6        | 710        | 3,2 | 78,46 | S123            | 100L/100LA       | 2    | 30000        | 11102          |
| 35,7        | 778        | 1,1 | 26,05 | S082            | 112MB/132S/132SA | 6    | 18000        | 6143           |
| 35,5        | 776        | 1,3 | 40,05 | S082            | 100LB/112MS      | 4    | 18000        | 6161           |
| 35,3        | 787        | 2,0 | 26,33 | S102            | 112MB/132S/132SA | 6    | 22000        | 7811           |
| 35,3        | 737        | 1,6 | 81,39 | S103            | 100L/100LA       | 2    | 22000        | 7852           |
| 35,1        | 740        | 1,0 | 81,71 | S083            | 100L/100LA       | 2    | 18000        | 6216           |
| 34,6        | 795        | 3,8 | 41,07 | S122            | 100LB/112MS      | 4    | 30000        | 11200          |

## 5.1 S GEARED MOTORS (50Hz)

## 3,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size    | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------------------|------|--------------|----------------|
| 34,1        | 815        | 1,2 | 27,29  | S082            | 112MB/132S/132SA | 6    | 18000        | 6214           |
| 33,9        | 820        | 3,0 | 28,33  | S142            | 132S/132SA       | 6    | 35000        | 18500          |
| 33,4        | 824        | 1,7 | 42,53  | S102            | 100LB/112MS      | 4    | 22000        | 7940           |
| 33,0        | 834        | 1,2 | 43,05  | S082            | 100LB/112MS      | 4    | 18000        | 6273           |
| 32,9        | 790        | 2,8 | 87,27  | S123            | 100L/100LA       | 2    | 30000        | 11200          |
| 32,6        | 844        | 3,6 | 43,60  | S122            | 100LB/112MS      | 4    | 30000        | 11200          |
| 32,5        | 854        | 3,7 | 28,60  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 32,4        | 856        | 1,1 | 28,67  | S082            | 112MB/132S/132SA | 6    | 18000        | 6290           |
| 32,3        | 852        | 1,5 | 44,00  | S102            | 100LB/112MS      | 4    | 22000        | 8016           |
| 32,0        | 813        | 1,5 | 89,77  | S103            | 100L/100LA       | 2    | 22000        | 8072           |
| 31,8        | 864        | 2,8 | 44,63  | S122            | 100LB/112MS      | 4    | 30000        | 11200          |
| 31,4        | 884        | 1,1 | 29,60  | S082            | 112MB/132S/132SA | 6    | 18000        | 6339           |
| 31,1        | 892        | 1,8 | 29,87  | S102            | 112MB/132S/132SA | 6    | 22000        | 8089           |
| 30,5        | 911        | 3,5 | 30,51  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 30,1        | 913        | 1,8 | 47,13  | S102            | 100LB/112MS      | 4    | 22000        | 8169           |
| 30,0        | 927        | 3,0 | 32,05  | S142            | 132S/132SA       | 6    | 35000        | 18500          |
| 29,3        | 949        | 1,1 | 31,78  | S082            | 112MB/132S/132SA | 6    | 18000        | 6448           |
| 29,0        | 950        | 2,5 | 49,04  | S122            | 100LB/112MS      | 4    | 30000        | 11200          |
| 28,7        | 968        | 1,6 | 32,40  | S102            | 112MB/132S/132SA | 6    | 22000        | 8271           |
| 28,7        | 907        | 1,3 | 100,15 | S103            | 100L/100LA       | 2    | 22000        | 8321           |
| 28,4        | 978        | 3,2 | 32,76  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 28,3        | 973        | 1,0 | 50,25  | S082            | 100LB/112MS      | 4    | 18000        | 6511           |
| 28,3        | 973        | 1,4 | 50,25  | S102            | 100LB/112MS      | 4    | 22000        | 8313           |
| 28,1        | 990        | 3,0 | 34,22  | S142            | 132S/132SA       | 6    | 35000        | 18500          |
| 27,8        | 999        | 3,2 | 33,44  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 27,1        | 959        | 2,3 | 105,91 | S123            | 100L/100LA       | 2    | 30000        | 11200          |
| 26,6        | 1043       | 1,0 | 34,91  | S082            | 112MB/132S/132SA | 6    | 18000        | 6592           |
| 26,6        | 1043       | 1,4 | 34,91  | S102            | 112MB/132S/132SA | 6    | 22000        | 8439           |
| 26,4        | 1051       | 3,0 | 35,20  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 26,4        | 1041       | 2,5 | 53,75  | S122            | 100LB/112MS      | 4    | 30000        | 11200          |
| 26,2        | 1060       | 1,0 | 35,50  | S082            | 112MB            | 6    | 18000        | 6617           |
| 26,2        | 1051       | 1,0 | 54,27  | S082            | 100LB/112MS      | 4    | 18000        | 6629           |
| 26,0        | 1001       | 1,2 | 110,55 | S103            | 100L/100LA       | 2    | 22000        | 8549           |
| 25,8        | 1068       | 1,2 | 55,14  | S102            | 100LB/112MS      | 4    | 22000        | 8524           |
| 25,5        | 1019       | 2,2 | 112,52 | S123            | 100L/100LA       | 2    | 30000        | 11200          |
| 24,3        | 1144       | 1,4 | 38,30  | S102            | 112MB/132S/132SA | 6    | 22000        | 8651           |
| 23,9        | 1151       | 1,4 | 59,40  | S102            | 100LB/112MS      | 4    | 22000        | 8695           |
| 23,7        | 1098       | 1,1 | 121,29 | S103            | 100L/100LA       | 2    | 22000        | 8766           |
| 23,3        | 1117       | 2,0 | 123,33 | S123            | 100L/100LA       | 2    | 30000        | 11200          |
| 22,6        | 1227       | 2,6 | 41,07  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 22,3        | 1166       | 1,0 | 128,73 | S103            | 100L/100LA       | 2    | 22000        | 8906           |
| 22,1        | 1178       | 1,9 | 130,04 | S123            | 100L/100LA       | 2    | 30000        | 11200          |

## 5.1 S GEARED MOTORS (50Hz)

## 3,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size    | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------------------|------|--------------|----------------|
| 22,0        | 1227       | 3,9 | 64,68  | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 21,9        | 1270       | 1,2 | 42,53  | S102            | 112MB/132S/132SA | 6    | 22000        | 8891           |
| 21,9        | 1230       | 2,2 | 64,84  | S123            | 100LB/112MS      | 4    | 30000        | 11200          |
| 21,5        | 1278       | 2,3 | 66,00  | S122            | 100LB/112MS      | 4    | 30000        | 11200          |
| 21,5        | 1211       | 1,9 | 133,78 | S123            | 100L/100LA       | 2    | 30000        | 11200          |
| 21,3        | 1302       | 2,4 | 43,60  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 21,1        | 1314       | 1,0 | 44,00  | S102            | 112MB            | 6    | 22000        | 8969           |
| 20,9        | 1314       | 1,2 | 67,84  | S102            | 100LB/112MS      | 4    | 22000        | 9000           |
| 20,8        | 1333       | 1,9 | 44,63  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 20,6        | 1310       | 3,7 | 69,06  | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 20,3        | 1339       | 3,1 | 45,77  | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 20,0        | 1348       | 2,0 | 71,07  | S123            | 100LB/112MS      | 4    | 30000        | 11200          |
| 19,7        | 1408       | 1,2 | 47,13  | S102            | 112MB/132S/132SA | 6    | 22000        | 9000           |
| 19,1        | 1407       | 1,1 | 74,18  | S103            | 100LB/112MS      | 4    | 22000        | 9000           |
| 19,0        | 1465       | 1,7 | 49,04  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 19,0        | 1371       | 1,6 | 151,43 | S123            | 100L/100LA       | 2    | 30000        | 11200          |
| 18,5        | 1501       | 1,0 | 50,25  | S102            | 112MB            | 6    | 22000        | 9000           |
| 18,2        | 1491       | 3,1 | 50,97  | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 18,1        | 1488       | 2,0 | 78,46  | S123            | 100LB/112MS      | 4    | 30000        | 11200          |
| 17,9        | 1507       | 2,8 | 79,45  | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 17,4        | 1544       | 1,0 | 81,39  | S103            | 100LB/112MS      | 4    | 22000        | 9000           |
| 17,3        | 1606       | 1,7 | 53,75  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 16,3        | 1655       | 1,8 | 87,27  | S123            | 100LB/112MS      | 4    | 30000        | 11200          |
| 16,3        | 1672       | 3,0 | 57,17  | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 16,2        | 1608       | 1,4 | 177,53 | S123            | 100L/100LA       | 2    | 30000        | 11200          |
| 15,8        | 1702       | 0,9 | 89,77  | S103            | 100LB/112MS      | 4    | 22000        | 9000           |
| 15,7        | 1774       | 0,9 | 59,40  | S102            | 112MB            | 6    | 22000        | 9000           |
| 14,7        | 1762       | 1,3 | 194,59 | S123            | 100L/100LA       | 2    | 30000        | 11200          |
| 14,4        | 1892       | 2,7 | 64,68  | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 14,4        | 1874       | 2,4 | 98,81  | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 14,3        | 1896       | 1,5 | 64,84  | S123            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 14,1        | 1971       | 1,6 | 66,00  | S122            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 13,5        | 2020       | 2,5 | 69,06  | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 13,4        | 2009       | 1,5 | 105,91 | S123            | 100LB/112MS      | 4    | 30000        | 11200          |
| 13,3        | 1952       | 1,2 | 215,60 | S123            | 100L/100LA       | 2    | 30000        | 11200          |
| 13,1        | 2079       | 1,4 | 71,07  | S123            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 13,0        | 2086       | 3,9 | 73,63  | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 12,9        | 2087       | 2,3 | 110,05 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 12,6        | 2134       | 1,4 | 112,52 | S123            | 100LB/112MS      | 4    | 30000        | 11200          |
| 12,0        | 2164       | 1,0 | 238,93 | S123            | 100L/100LA       | 2    | 30000        | 11200          |
| 11,9        | 2295       | 1,4 | 78,46  | S123            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 11,7        | 2324       | 1,9 | 79,45  | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |

## 5.1 S GEARED MOTORS (50Hz)

## 3,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size    | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------------------|------|--------------|----------------|
| 11,5        | 2339       | 1,3 | 123,33 | S123            | 100LB/112MS      | 4    | 30000        | 11200          |
| 11,5        | 2341       | 2,0 | 123,44 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 11,0        | 2470       | 3,0 | 87,16  | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 10,9        | 2466       | 1,2 | 130,04 | S123            | 100LB/112MS      | 4    | 30000        | 11200          |
| 10,7        | 2552       | 1,2 | 87,27  | S123            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 10,6        | 2537       | 1,2 | 133,78 | S123            | 100LB/112MS      | 4    | 30000        | 11200          |
| 10,2        | 2648       | 1,8 | 139,64 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 9,9         | 2756       | 3,0 | 97,27  | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 9,5         | 2828       | 1,7 | 149,10 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 9,4         | 2872       | 1,0 | 151,43 | S123            | 100LB/112MS      | 4    | 30000        | 11200          |
| 9,4         | 2890       | 1,6 | 98,81  | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 9,0         | 2987       | 1,3 | 157,49 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 8,8         | 3098       | 1,0 | 105,91 | S123            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 8,6         | 3164       | 3,0 | 111,67 | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 8,5         | 3219       | 1,5 | 110,05 | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 8,3         | 3291       | 1,0 | 112,52 | S123            | 112MB/132S/132SA | 6    | 30000        | 11200          |
| 8,3         | 3253       | 1,4 | 171,55 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 8,2         | 3297       | 0,9 | 177,53 | S123            | 112MS            | 4    | 30000        | 11200          |
| 8,1         | 3327       | 1,3 | 175,41 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 7,8         | 3494       | 0,9 | 123,33 | S123            | 132S/132SA       | 6    | 30000        | 11200          |
| 7,8         | 3473       | 2,9 | 122,57 | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 7,5         | 3610       | 1,4 | 123,44 | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 7,2         | 3731       | 1,3 | 196,74 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 6,9         | 3944       | 2,4 | 139,21 | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 6,7         | 4084       | 1,2 | 139,64 | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 6,4         | 4221       | 1,1 | 222,57 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 6,2         | 4361       | 1,2 | 149,10 | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 6,2         | 4364       | 1,7 | 154,02 | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 6,0         | 4507       | 1,1 | 237,63 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 6,0         | 4534       | 1,9 | 160,02 | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 5,4         | 5017       | 1,0 | 171,55 | S143            | 112MB/132S/132SA | 6    | 35000        | 18500          |
| 5,4         | 5010       | 1,7 | 176,81 | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 5,2         | 5185       | 0,9 | 273,41 | S143            | 100LB/112MS      | 4    | 35000        | 18500          |
| 4,9         | 5499       | 1,7 | 194,06 | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 4,4         | 6245       | 1,6 | 220,42 | S153            | 132S/132SA       | 6    | 40000        | 19400          |
| 3,8         | 7179       | 1,2 | 253,36 | S153            | 132S/132SA       | 6    | 40000        | 19400          |

## 4,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i    | Gear<br>reducer | Motor<br>Size    | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|------|-----------------|------------------|------|--------------|----------------|
| 358,8       | 99         | 2,5 | 8,00 | S062            | 100LB/112M/112MA | 2    | 5149         | 2059           |
| 332,8       | 106        | 1,2 | 8,63 | S052            | 100LB/112M/112MA | 2    | 2825         | 2825           |

## 5.1 S GEARED MOTORS (50Hz)

## 4,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                 | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|-------|------|--------------|----------------|
| 321,7       | 110        | 2,2 | 8,92  | S062            | 100LB/112M/112MA     |       | 2    | 5288         | 2115           |
| 300,7       | 118        | 2,3 | 9,55  | S062            | 100LB/112M/112MA     |       | 2    | 5374         | 2150           |
| 288,6       | 123        | 4,0 | 9,94  | S082            | 100LB <sup>(1)</sup> |       | 2    | 11667        | 3333           |
| 269,6       | 131        | 2,1 | 10,65 | S062            | 100LB/112M/112MA     |       | 2    | 5513         | 2205           |
| 257,6       | 137        | 1,0 | 11,14 | S052            | 100LB/112M/112MA     |       | 2    | 2948         | 2948           |
| 247,3       | 143        | 3,7 | 11,61 | S082            | 100LB/112M/112MA     |       | 2    | 12231        | 3495           |
| 245,1       | 144        | 2,0 | 11,71 | S062            | 100LB/112M/112MA     |       | 2    | 5632         | 2253           |
| 239,2       | 148        | 1,0 | 12,00 | S052            | 100LB/112M/112MA     |       | 2    | 2980         | 2980           |
| 225,1       | 157        | 3,6 | 12,75 | S082            | 100LB/112M/112MA     |       | 2    | 12585        | 3596           |
| 219,8       | 161        | 2,0 | 13,06 | S062            | 100LB/112M/112MA     |       | 2    | 5767         | 2307           |
| 214,9       | 165        | 1,9 | 13,36 | S062            | 100LB/112M/112MA     |       | 2    | 5794         | 2318           |
| 204,4       | 173        | 3,3 | 14,04 | S082            | 100LB/112M/112MA     |       | 2    | 12958        | 3702           |
| 196,2       | 187        | 2,9 | 7,34  | S082            | 112M/112MA           |       | 4    | 13095        | 3741           |
| 186,0       | 190        | 3,0 | 15,43 | S082            | 100LB/112M/112MA     |       | 2    | 13328        | 3808           |
| 182,5       | 194        | 3,0 | 15,73 | S082            | 100LB/112M/112MA     |       | 2    | 13404        | 3830           |
| 180,1       | 197        | 1,7 | 15,94 | S062            | 100LB/112M/112MA     |       | 2    | 6003         | 2401           |
| 180,0       | 204        | 1,6 | 8,00  | S062            | 112M/112MA           |       | 4    | 5958         | 2383           |
| 178,6       | 205        | 2,9 | 8,06  | S082            | 112M/112MA           |       | 4    | 13467        | 3848           |
| 177,6       | 199        | 1,7 | 16,16 | S062            | 100LB/112M/112MA     |       | 2    | 6019         | 2408           |
| 165,9       | 213        | 2,7 | 17,29 | S082            | 100LB/112M/112MA     |       | 2    | 13788        | 3939           |
| 162,8       | 225        | 4,0 | 8,85  | S102            | 112MA <sup>(1)</sup> |       | 4    | 17159        | 4903           |
| 161,4       | 227        | 1,5 | 8,92  | S062            | 112M/112MA           |       | 4    | 6075         | 2430           |
| 150,9       | 243        | 1,5 | 9,55  | S062            | 112M/112MA           |       | 4    | 6144         | 2458           |
| 150,8       | 235        | 2,5 | 19,03 | S082            | 100LB/112M/112MA     |       | 2    | 14182        | 4052           |
| 148,8       | 238        | 1,4 | 19,29 | S062            | 100LB/112M/112MA     |       | 2    | 6212         | 2485           |
| 146,8       | 241        | 1,4 | 19,55 | S062            | 100LB/112M/112MA     |       | 2    | 6226         | 2490           |
| 144,8       | 253        | 2,6 | 9,94  | S082            | 112M/112MA           |       | 4    | 14323        | 4092           |
| 142,5       | 248        | 2,3 | 20,14 | S082            | 100LB/112M/112MA     |       | 2    | 14419        | 4120           |
| 135,3       | 271        | 1,3 | 10,65 | S062            | 112M/112MA           |       | 4    | 6248         | 2499           |
| 132,3       | 277        | 3,4 | 10,88 | S102            | 112M/112MA           |       | 4    | 18281        | 5223           |
| 130,8       | 283        | 2,0 | 7,34  | S082            | 132MA                |       | 6    | 14742        | 4212           |
| 129,7       | 273        | 2,2 | 22,13 | S082            | 100LB/112M/112MA     |       | 2    | 14819        | 4234           |
| 129,7       | 273        | 3,8 | 22,13 | S102            | 100LB/112M/112MA     |       | 2    | 18416        | 5262           |
| 124,1       | 296        | 2,4 | 11,61 | S082            | 112M/112MA           |       | 4    | 14977        | 4279           |
| 123,8       | 286        | 1,2 | 23,18 | S062            | 100LB/112M/112MA     |       | 2    | 6391         | 2556           |
| 123,0       | 298        | 1,3 | 11,71 | S062            | 112M/112MA           |       | 4    | 6330         | 2532           |
| 120,8       | 293        | 1,2 | 23,75 | S062            | 100LB/112M/112MA     |       | 2    | 6412         | 2565           |
| 119,6       | 296        | 2,0 | 24,00 | S082            | 100LB/112M/112MA     |       | 2    | 15171        | 4334           |
| 119,1       | 311        | 2,0 | 8,06  | S082            | 132MA                |       | 6    | 15144        | 4327           |
| 119,1       | 311        | 2,9 | 8,06  | S102            | 132MA                |       | 6    | 18865        | 5390           |
| 118,2       | 299        | 3,8 | 24,28 | S102            | 100LB/112M/112MA     |       | 2    | 18942        | 5412           |
| 114,1       | 310        | 1,2 | 25,14 | S062            | 100LB/112M/112MA     |       | 2    | 6460         | 2584           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 4,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size<br>Motor    | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|------------------|------|--------------|----------------|
| 112,9       | 325        | 2,3 | 12,75 | S082            | 112M/112MA       | 4    | 15384        | 4395           |
| 112,9       | 325        | 3,1 | 12,75 | S102            | 112M/112MA       | 4    | 19176        | 5479           |
| 110,3       | 333        | 1,3 | 13,06 | S062            | 112M/112MA       | 4    | 6414         | 2566           |
| 110,2       | 321        | 1,9 | 26,05 | S082            | 100LB/112M/112MA | 2    | 15530        | 4437           |
| 109,0       | 325        | 3,5 | 26,33 | S102            | 100LB/112M/112MA | 2    | 19413        | 5546           |
| 108,5       | 341        | 2,8 | 8,85  | S102            | 132MA            | 6    | 19398        | 5542           |
| 107,8       | 340        | 1,2 | 13,36 | S062            | 112M/112MA       | 4    | 6430         | 2572           |
| 105,2       | 336        | 2,0 | 27,29 | S082            | 100LB/112M/112MA | 2    | 15736        | 4496           |
| 103,8       | 341        | 1,1 | 27,66 | S062            | 100LB/112M/112MA | 2    | 6533         | 2613           |
| 102,9       | 356        | 3,4 | 13,99 | S102            | 112M/112MA       | 4    | 19716        | 5633           |
| 102,5       | 358        | 2,1 | 14,04 | S082            | 112M/112MA       | 4    | 15808        | 4517           |
| 100,1       | 354        | 1,9 | 28,67 | S082            | 100LB/112M/112MA | 2    | 15958        | 4559           |
| 97,0        | 365        | 1,8 | 29,60 | S082            | 100LB/112M/112MA | 2    | 16101        | 4600           |
| 96,5        | 384        | 1,8 | 9,94  | S082            | 132MA            | 6    | 16064        | 4590           |
| 96,1        | 368        | 3,1 | 29,87 | S102            | 100LB/112M/112MA | 2    | 20159        | 5760           |
| 95,7        | 370        | 1,0 | 30,00 | S062            | 100LB/112M/112MA | 2    | 6586         | 2634           |
| 93,3        | 393        | 2,0 | 15,43 | S082            | 112M/112MA       | 4    | 16228        | 4637           |
| 93,3        | 393        | 3,2 | 15,43 | S102            | 112M/112MA       | 4    | 20299        | 5800           |
| 91,6        | 400        | 1,9 | 15,73 | S082            | 112M/112MA       | 4    | 16313        | 4661           |
| 90,4        | 406        | 1,1 | 15,94 | S062            | 112M/112MA       | 4    | 6528         | 2611           |
| 90,3        | 392        | 1,9 | 31,78 | S082            | 100LB/112M/112MA | 2    | 16422        | 4692           |
| 89,1        | 412        | 1,1 | 16,16 | S062            | 112M/112MA       | 4    | 6534         | 2614           |
| 88,6        | 400        | 2,8 | 32,40 | S102            | 100LB/112M/112MA | 2    | 20653        | 5901           |
| 88,2        | 420        | 2,4 | 10,88 | S102            | 132MA            | 6    | 20631        | 5894           |
| 83,7        | 438        | 3,0 | 17,21 | S102            | 112M/112MA       | 4    | 20965        | 5990           |
| 83,3        | 440        | 1,7 | 17,29 | S082            | 112M/112MA       | 4    | 16744        | 4784           |
| 82,7        | 448        | 1,6 | 11,61 | S082            | 132MA            | 6    | 16760        | 4789           |
| 82,2        | 430        | 1,7 | 34,91 | S082            | 100LB/112M/112MA | 2    | 16854        | 4815           |
| 82,2        | 430        | 2,4 | 34,91 | S102            | 100LB/112M/112MA | 2    | 21113        | 6032           |
| 80,8        | 438        | 1,7 | 35,50 | S082            | 100LB/112M/112MA | 2    | 16931        | 4837           |
| 79,3        | 446        | 1,0 | 36,57 | S062            | 112M/112MA       | 2    | 6673         | 2669           |
| 75,8        | 484        | 2,9 | 19,00 | S102            | 112M/112MA       | 4    | 21579        | 6166           |
| 75,7        | 485        | 1,6 | 19,03 | S082            | 112M/112MA       | 4    | 17182        | 4909           |
| 75,3        | 492        | 1,6 | 12,75 | S082            | 132MA            | 6    | 17189        | 4911           |
| 75,3        | 492        | 2,1 | 12,75 | S102            | 132MA            | 6    | 21608        | 6174           |
| 74,9        | 472        | 2,4 | 38,30 | S102            | 100LB/112M/112MA | 2    | 21696        | 6199           |
| 74,7        | 491        | 0,9 | 19,29 | S062            | 112M/112MA       | 4    | 6579         | 2632           |
| 73,7        | 498        | 0,9 | 19,55 | S062            | 112M/112MA       | 4    | 6580         | 2632           |
| 71,7        | 494        | 1,5 | 40,05 | S082            | 100LB/112M/112MA | 2    | 17493        | 4998           |
| 71,5        | 513        | 1,5 | 20,14 | S082            | 112M/112MA       | 4    | 17444        | 4984           |
| 69,1        | 530        | 2,6 | 20,83 | S102            | 112M/112MA       | 4    | 22000        | 6332           |
| 68,6        | 540        | 2,3 | 13,99 | S102            | 132MA            | 6    | 22000        | 6342           |

## 5.1 S GEARED MOTORS (50Hz)

## 4,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size<br>Motor    | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|------------------|------|--------------|----------------|
| 68,4        | 542        | 1,5 | 14,04 | S082            | 132MA            | 6    | 17635        | 5039           |
| 67,5        | 524        | 2,0 | 42,53 | S102            | 100LB/112M/112MA | 2    | 22000        | 6390           |
| 67,3        | 551        | 3,4 | 14,27 | S142            | 132MA            | 6    | 35000        | 18500          |
| 66,7        | 531        | 1,4 | 43,05 | S082            | 100LB/112M/112MA | 2    | 17833        | 5095           |
| 65,2        | 543        | 1,8 | 44,00 | S102            | 100LB/112M/112MA | 2    | 22000        | 6453           |
| 65,1        | 563        | 1,4 | 22,13 | S082            | 112M/112MA       | 4    | 17881        | 5109           |
| 65,1        | 563        | 2,5 | 22,13 | S102            | 112M/112MA       | 4    | 22000        | 6443           |
| 64,3        | 550        | 3,3 | 44,63 | S122            | 100LB/112M/112MA | 2    | 30000        | 9258           |
| 62,2        | 595        | 1,4 | 15,43 | S082            | 132MA            | 6    | 18000        | 5163           |
| 62,2        | 595        | 2,2 | 15,43 | S102            | 132MA            | 6    | 22000        | 6522           |
| 61,0        | 607        | 1,3 | 15,73 | S082            | 132MA            | 6    | 18000        | 5189           |
| 60,9        | 581        | 2,1 | 47,13 | S102            | 100LB/112M/112MA | 2    | 22000        | 6582           |
| 60,0        | 611        | 1,3 | 24,00 | S082            | 112M/112MA       | 4    | 18000        | 5217           |
| 60,0        | 618        | 3,3 | 16,01 | S142            | 132MA            | 6    | 35000        | 18500          |
| 59,3        | 618        | 2,4 | 24,28 | S102            | 112M/112MA       | 4    | 22000        | 6615           |
| 58,5        | 605        | 3,0 | 49,04 | S122            | 100LB/112M/112MA | 2    | 30000        | 9511           |
| 57,1        | 620        | 1,2 | 50,25 | S082            | 100LB/112M/112MA | 2    | 18000        | 5304           |
| 57,1        | 620        | 1,7 | 50,25 | S102            | 100LB/112M/112MA | 2    | 22000        | 6703           |
| 55,8        | 664        | 2,1 | 17,21 | S102            | 132MA            | 6    | 22000        | 6727           |
| 55,5        | 667        | 1,2 | 17,29 | S082            | 132MA            | 6    | 18000        | 5315           |
| 55,3        | 663        | 1,2 | 26,05 | S082            | 112M/112MA       | 4    | 18000        | 5327           |
| 54,7        | 671        | 2,2 | 26,33 | S102            | 112M/112MA       | 4    | 22000        | 6769           |
| 53,4        | 663        | 2,9 | 53,75 | S122            | 100LB/112M/112MA | 2    | 30000        | 9760           |
| 53,0        | 699        | 3,3 | 18,11 | S142            | 132MA            | 6    | 35000        | 18500          |
| 52,9        | 669        | 1,1 | 54,27 | S082            | 100LB/112M/112MA | 2    | 18000        | 5409           |
| 52,8        | 695        | 1,3 | 27,29 | S082            | 112M/112MA       | 4    | 18000        | 5389           |
| 52,1        | 680        | 1,4 | 55,14 | S102            | 100LB/112M/112MA | 2    | 22000        | 6881           |
| 50,5        | 734        | 1,1 | 19,03 | S082            | 132MA            | 6    | 18000        | 5443           |
| 50,5        | 733        | 2,0 | 19,00 | S102            | 132MA            | 6    | 22000        | 6915           |
| 50,2        | 730        | 1,2 | 28,67 | S082            | 112M/112MA       | 4    | 18000        | 5456           |
| 49,7        | 746        | 3,3 | 19,33 | S142            | 132MA            | 6    | 35000        | 18500          |
| 48,6        | 754        | 1,2 | 29,60 | S082            | 112M/112MA       | 4    | 18000        | 5498           |
| 48,3        | 732        | 1,6 | 59,40 | S102            | 100LB/112M/112MA | 2    | 22000        | 7026           |
| 48,2        | 761        | 2,0 | 29,87 | S102            | 112M/112MA       | 4    | 22000        | 7011           |
| 47,7        | 777        | 1,0 | 20,14 | S082            | 132MA            | 6    | 18000        | 5519           |
| 47,3        | 749        | 1,0 | 61,98 | S082            | 112M             | 2    | 18000        | 5562           |
| 47,2        | 777        | 3,9 | 30,51 | S122            | 112M/112MA       | 4    | 30000        | 10072          |
| 46,1        | 804        | 1,8 | 20,83 | S102            | 132MA            | 6    | 22000        | 7092           |
| 45,3        | 809        | 1,2 | 31,78 | S082            | 112M/112MA       | 4    | 18000        | 5593           |
| 45,2        | 820        | 3,6 | 21,25 | S122            | 132MA            | 6    | 30000        | 10184          |
| 44,4        | 825        | 1,8 | 32,40 | S102            | 112M/112MA       | 4    | 22000        | 7169           |
| 44,3        | 783        | 2,6 | 64,84 | S123            | 100LB/112M/112MA | 2    | 30000        | 10299          |

## 5.1 S GEARED MOTORS (50Hz)

## 4,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size    | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|------------------|------|--------------|----------------|
| 44,0        | 834        | 3,6 | 32,76 | S122            | 112M/112MA       | 4    | 30000        | 10269          |
| 43,5        | 814        | 2,8 | 66,00 | S122            | 100LB/112M/112MA | 2    | 30000        | 10331          |
| 43,4        | 854        | 1,0 | 22,13 | S082            | 132MA            | 6    | 18000        | 5644           |
| 43,4        | 854        | 1,7 | 22,13 | S102            | 132MA            | 6    | 22000        | 7210           |
| 43,2        | 858        | 3,0 | 22,24 | S142            | 132MA            | 6    | 35000        | 18500          |
| 43,1        | 852        | 3,5 | 33,44 | S122            | 112M/112MA       | 4    | 30000        | 10327          |
| 42,9        | 863        | 3,4 | 22,37 | S122            | 132MA            | 6    | 30000        | 10326          |
| 42,3        | 836        | 1,4 | 67,84 | S102            | 100LB/112M/112MA | 2    | 22000        | 7288           |
| 41,3        | 889        | 1,1 | 34,91 | S082            | 112M/112MA       | 4    | 18000        | 5719           |
| 41,3        | 889        | 1,6 | 34,91 | S102            | 112M/112MA       | 4    | 22000        | 7316           |
| 41,2        | 899        | 3,4 | 23,29 | S122            | 132MA            | 6    | 30000        | 10439          |
| 40,9        | 896        | 3,3 | 35,20 | S122            | 112M/112MA       | 4    | 30000        | 10470          |
| 40,6        | 904        | 1,1 | 35,50 | S082            | 112M/112MA       | 4    | 18000        | 5741           |
| 40,4        | 858        | 2,4 | 71,07 | S123            | 100LB/112M/112MA | 2    | 30000        | 10561          |
| 40,0        | 926        | 0,9 | 24,00 | S082            | 132MA            | 6    | 18000        | 5751           |
| 39,5        | 937        | 1,7 | 24,28 | S102            | 132MA            | 6    | 22000        | 7392           |
| 38,7        | 896        | 1,3 | 74,18 | S103            | 100LB/112M/112MA | 2    | 22000        | 7481           |
| 38,0        | 975        | 2,3 | 25,26 | S142            | 132MA            | 6    | 35000        | 18500          |
| 37,6        | 975        | 1,5 | 38,30 | S102            | 112M/112MA       | 4    | 22000        | 7499           |
| 36,7        | 1009       | 3,1 | 26,15 | S122            | 132MA            | 6    | 30000        | 10765          |
| 36,6        | 947        | 2,4 | 78,46 | S123            | 100LB/112M/112MA | 2    | 30000        | 10845          |
| 36,5        | 1016       | 1,6 | 26,33 | S102            | 132MA            | 6    | 22000        | 7553           |
| 36,0        | 1020       | 1,0 | 40,05 | S082            | 112M/112MA       | 4    | 18000        | 5900           |
| 35,5        | 1042       | 0,9 | 27,29 | S082            | 132MA            | 6    | 18000        | 5905           |
| 35,3        | 983        | 1,2 | 81,39 | S103            | 100LB/112M/112MA | 2    | 22000        | 7670           |
| 35,1        | 1046       | 2,9 | 41,07 | S122            | 112M/112MA       | 4    | 30000        | 10905          |
| 33,9        | 1083       | 1,3 | 42,53 | S102            | 112M/112MA       | 4    | 22000        | 7708           |
| 33,9        | 1093       | 2,3 | 28,33 | S142            | 132MA            | 6    | 35000        | 18500          |
| 33,6        | 1103       | 2,9 | 28,60 | S122            | 132MA            | 6    | 30000        | 11018          |
| 33,4        | 1096       | 0,9 | 43,05 | S082            | 112M/112MA       | 4    | 18000        | 5994           |
| 33,0        | 1110       | 2,7 | 43,60 | S122            | 112M/112MA       | 4    | 30000        | 11075          |
| 32,9        | 1054       | 2,1 | 87,27 | S123            | 100LB/112M/112MA | 2    | 30000        | 11154          |
| 32,7        | 1121       | 1,2 | 44,00 | S102            | 112M/112MA       | 4    | 22000        | 7777           |
| 32,3        | 1137       | 2,1 | 44,63 | S122            | 112M/112MA       | 4    | 30000        | 11142          |
| 32,1        | 1152       | 1,4 | 29,87 | S102            | 132MA            | 6    | 22000        | 7805           |
| 32,0        | 1084       | 1,1 | 89,77 | S103            | 100LB/112M/112MA | 2    | 22000        | 7871           |
| 31,5        | 1177       | 2,7 | 30,51 | S122            | 132MA            | 6    | 30000        | 11200          |
| 31,5        | 1141       | 3,5 | 45,77 | S143            | 112M/112MA       | 4    | 35000        | 18500          |
| 30,6        | 1200       | 1,3 | 47,13 | S102            | 112M/112MA       | 4    | 22000        | 7915           |
| 30,0        | 1237       | 2,3 | 32,05 | S142            | 132MA            | 6    | 35000        | 18500          |
| 29,6        | 1250       | 1,3 | 32,40 | S102            | 132MA            | 6    | 22000        | 7968           |
| 29,4        | 1249       | 1,9 | 49,04 | S122            | 112M/112MA       | 4    | 30000        | 11200          |

## 5.1 S GEARED MOTORS (50Hz)

## 4,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size Motor       | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------------------|------|--------------|----------------|
| 29,3        | 1264       | 2,5 | 32,76  | S122            | 132MA            | 6    | 30000        | 11200          |
| 29,0        | 1197       | 1,0 | 100,15 | S103            | 112M/112MA       | 2    | 22000        | 8075           |
| 28,7        | 1280       | 1,1 | 50,25  | S102            | 112M/112MA       | 4    | 22000        | 8044           |
| 28,7        | 1290       | 2,4 | 33,44  | S122            | 132MA            | 6    | 30000        | 11200          |
| 28,3        | 1271       | 3,5 | 50,97  | S143            | 112M/112MA       | 4    | 35000        | 18500          |
| 28,1        | 1320       | 2,3 | 34,22  | S142            | 132MA            | 6    | 35000        | 18500          |
| 27,5        | 1347       | 1,1 | 34,91  | S102            | 132MA            | 6    | 22000        | 8118           |
| 27,3        | 1358       | 2,3 | 35,20  | S122            | 132MA            | 6    | 30000        | 11200          |
| 27,1        | 1279       | 1,8 | 105,91 | S123            | 100LB/112M/112MA | 2    | 30000        | 11200          |
| 26,8        | 1369       | 1,9 | 53,75  | S122            | 112M/112MA       | 4    | 30000        | 11200          |
| 26,1        | 1404       | 0,9 | 55,14  | S102            | 112M/112MA       | 4    | 22000        | 8232           |
| 25,5        | 1358       | 1,7 | 112,52 | S123            | 100LB/112M/112MA | 2    | 30000        | 11200          |
| 25,2        | 1426       | 3,3 | 57,17  | S143            | 112M/112MA       | 4    | 35000        | 18500          |
| 25,1        | 1478       | 1,1 | 38,30  | S102            | 132MA            | 6    | 22000        | 8304           |
| 24,4        | 1519       | 3,1 | 39,38  | S142            | 132MA            | 6    | 35000        | 18500          |
| 24,2        | 1513       | 1,1 | 59,40  | S102            | 112M/112MA       | 4    | 22000        | 8382           |
| 23,4        | 1584       | 2,0 | 41,07  | S122            | 132MA            | 6    | 30000        | 11200          |
| 23,3        | 1489       | 1,5 | 123,33 | S123            | 100LB/112M/112MA | 2    | 30000        | 11200          |
| 22,8        | 1624       | 0,9 | 42,53  | S102            | 132MA            | 6    | 22000        | 8493           |
| 22,3        | 1613       | 3,0 | 64,68  | S143            | 112M/112MA       | 4    | 35000        | 18500          |
| 22,2        | 1617       | 1,7 | 64,84  | S123            | 112M/112MA       | 4    | 30000        | 11200          |
| 22,1        | 1570       | 1,4 | 130,04 | S123            | 100LB/112M/112MA | 2    | 30000        | 11200          |
| 22,0        | 1682       | 1,9 | 43,60  | S122            | 132MA            | 6    | 30000        | 11200          |
| 21,8        | 1681       | 1,8 | 66,00  | S122            | 112M/112MA       | 4    | 30000        | 11200          |
| 21,5        | 1722       | 1,5 | 44,63  | S122            | 132MA            | 6    | 30000        | 11200          |
| 21,5        | 1615       | 1,4 | 133,78 | S123            | 100LB/112M/112MA | 2    | 30000        | 11200          |
| 21,2        | 1728       | 0,9 | 67,84  | S102            | 112M/112MA       | 4    | 22000        | 8649           |
| 21,0        | 1729       | 2,4 | 45,77  | S143            | 132MA            | 6    | 35000        | 18500          |
| 20,9        | 1722       | 2,8 | 69,06  | S143            | 112M/112MA       | 4    | 35000        | 18500          |
| 20,4        | 1818       | 0,9 | 47,13  | S102            | 132MA            | 6    | 22000        | 8717           |
| 20,3        | 1772       | 1,5 | 71,07  | S123            | 112M/112MA       | 4    | 30000        | 11200          |
| 19,6        | 1892       | 1,3 | 49,04  | S122            | 132MA            | 6    | 30000        | 11200          |
| 19,0        | 1828       | 1,2 | 151,43 | S123            | 100LB/112M/112MA | 2    | 30000        | 11200          |
| 18,8        | 1926       | 2,4 | 50,97  | S143            | 132MA            | 6    | 35000        | 18500          |
| 18,4        | 1957       | 1,5 | 78,46  | S123            | 112M/112MA       | 4    | 30000        | 11200          |
| 18,1        | 1981       | 2,1 | 79,45  | S143            | 112M/112MA       | 4    | 35000        | 18500          |
| 17,9        | 2074       | 1,3 | 53,75  | S122            | 132MA            | 6    | 30000        | 11200          |
| 16,8        | 2160       | 2,3 | 57,17  | S143            | 132MA            | 6    | 35000        | 18500          |
| 16,5        | 2176       | 1,4 | 87,27  | S123            | 112M/112MA       | 4    | 30000        | 11200          |
| 16,2        | 2143       | 1,0 | 177,53 | S123            | 100LB/112M/112MA | 2    | 30000        | 11200          |
| 15,0        | 2420       | 3,8 | 64,05  | S153            | 132MA            | 6    | 40000        | 19400          |
| 14,8        | 2450       | 1,2 | 64,84  | S123            | 132MA            | 6    | 30000        | 11200          |

## 5.1 S GEARED MOTORS (50Hz)

## 4,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 14,8        | 2443       | 2,1 | 64,68  | S143            | 132MA         | 6    | 35000        | 18500          |
| 14,6        | 2464       | 1,8 | 98,81  | S143            | 112M/112MA    | 4    | 35000        | 18500          |
| 14,5        | 2546       | 1,2 | 66,00  | S122            | 132MA         | 6    | 30000        | 11200          |
| 13,9        | 2609       | 2,0 | 69,06  | S143            | 132MA         | 6    | 35000        | 18500          |
| 13,6        | 2641       | 1,1 | 105,91 | S123            | 112M/112MA    | 4    | 30000        | 11200          |
| 13,5        | 2685       | 1,1 | 71,07  | S123            | 132MA         | 6    | 30000        | 11200          |
| 13,1        | 2744       | 1,7 | 110,05 | S143            | 112M/112MA    | 4    | 35000        | 18500          |
| 13,0        | 2781       | 2,9 | 73,63  | S153            | 132MA         | 6    | 40000        | 19400          |
| 12,8        | 2806       | 1,1 | 112,52 | S123            | 112M/112MA    | 4    | 30000        | 11200          |
| 12,2        | 2964       | 1,1 | 78,46  | S123            | 132MA         | 6    | 30000        | 11200          |
| 12,1        | 3002       | 1,5 | 79,45  | S143            | 132MA         | 6    | 35000        | 18500          |
| 11,7        | 3075       | 1,0 | 123,33 | S123            | 112M/112MA    | 4    | 30000        | 11200          |
| 11,7        | 3078       | 1,5 | 123,44 | S143            | 112M/112MA    | 4    | 35000        | 18500          |
| 11,1        | 3243       | 0,9 | 130,04 | S123            | 112M/112MA    | 4    | 30000        | 11200          |
| 11,0        | 3297       | 1,0 | 87,27  | S123            | 132MA         | 6    | 30000        | 11200          |
| 11,0        | 3293       | 2,3 | 87,16  | S153            | 132MA         | 6    | 40000        | 19400          |
| 10,8        | 3313       | 0,9 | 133,78 | S123            | 112M          | 4    | 30000        | 11200          |
| 10,3        | 3482       | 1,4 | 139,64 | S143            | 112M/112MA    | 4    | 35000        | 18500          |
| 9,9         | 3675       | 2,3 | 97,27  | S153            | 132MA         | 6    | 40000        | 19400          |
| 9,7         | 3733       | 1,2 | 98,81  | S143            | 132MA         | 6    | 35000        | 18500          |
| 9,7         | 3718       | 1,3 | 149,10 | S143            | 112M/112MA    | 4    | 35000        | 18500          |
| 9,1         | 3927       | 1,0 | 157,49 | S143            | 112M/112MA    | 4    | 35000        | 18500          |
| 8,7         | 4158       | 1,2 | 110,05 | S143            | 132MA         | 6    | 35000        | 18500          |
| 8,6         | 4219       | 2,3 | 111,67 | S153            | 132MA         | 6    | 40000        | 19400          |
| 8,4         | 4278       | 1,1 | 171,55 | S143            | 112M/112MA    | 4    | 35000        | 18500          |
| 8,2         | 4374       | 1,0 | 175,41 | S143            | 112M/112MA    | 4    | 35000        | 18500          |
| 7,8         | 4663       | 1,1 | 123,44 | S143            | 132MA         | 6    | 35000        | 18500          |
| 7,8         | 4630       | 2,2 | 122,57 | S153            | 132MA         | 6    | 40000        | 19400          |
| 7,3         | 4906       | 1,0 | 196,74 | S143            | 112M/112MA    | 4    | 35000        | 18500          |
| 6,9         | 5276       | 1,0 | 139,64 | S143            | 132MA         | 6    | 35000        | 18500          |
| 6,9         | 5259       | 1,8 | 139,21 | S153            | 132MA         | 6    | 40000        | 19400          |
| 6,5         | 5575       | 0,9 | 149,10 | S143            | 132MA         | 6    | 35000        | 18500          |
| 6,2         | 5819       | 1,3 | 154,02 | S153            | 132MA         | 6    | 40000        | 19400          |
| 6,0         | 6045       | 1,4 | 160,02 | S153            | 132MA         | 6    | 40000        | 19400          |
| 5,4         | 6680       | 1,3 | 176,81 | S153            | 132MA         | 6    | 40000        | 19400          |
| 4,9         | 7331       | 1,3 | 194,06 | S153            | 132MA         | 6    | 40000        | 19400          |
| 4,4         | 8327       | 1,2 | 220,42 | S153            | 132MA         | 6    | 40000        | 19400          |
| 3,8         | 9571       | 0,9 | 253,36 | S153            | 132MA         | 6    | 40000        | 19400          |

## 5.1 S GEARED MOTORS (50Hz)

## 4,80 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                 | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|---------------|--------------|----------------|
| 194,9       | 226        | 2,4 | 7,34  | S082            | 112MB <sup>(1)</sup> | 4             | 12999        | 3714           |
| 178,8       | 246        | 1,3 | 8,00  | S062            | 112MB <sup>(1)</sup> | 4             | 5706         | 2282           |
| 177,4       | 248        | 2,4 | 8,06  | S082            | 112MB <sup>(1)</sup> | 4             | 13359        | 3817           |
| 177,4       | 248        | 3,4 | 8,06  | S102            | 112MB <sup>(1)</sup> | 4             | 16604        | 4744           |
| 161,6       | 272        | 3,3 | 8,85  | S102            | 112MB <sup>(1)</sup> | 4             | 17078        | 4879           |
| 160,3       | 275        | 1,2 | 8,92  | S062            | 112MB <sup>(1)</sup> | 4             | 5792         | 2317           |
| 149,8       | 294        | 1,2 | 9,55  | S062            | 112MB <sup>(1)</sup> | 4             | 5840         | 2336           |
| 143,8       | 306        | 2,1 | 9,94  | S082            | 112MB <sup>(1)</sup> | 4             | 14184        | 4053           |
| 134,3       | 328        | 1,1 | 10,65 | S062            | 112MB <sup>(1)</sup> | 4             | 5908         | 2363           |
| 131,4       | 335        | 2,8 | 10,88 | S102            | 112MB <sup>(1)</sup> | 4             | 18175        | 5193           |
| 123,2       | 357        | 2,0 | 11,61 | S082            | 112MB <sup>(1)</sup> | 4             | 14811        | 4232           |
| 122,1       | 360        | 1,1 | 11,71 | S062            | 112MB <sup>(1)</sup> | 4             | 5955         | 2382           |
| 112,2       | 392        | 1,9 | 12,75 | S082            | 112MB <sup>(1)</sup> | 4             | 15199        | 4343           |
| 112,2       | 392        | 2,5 | 12,75 | S102            | 112MB <sup>(1)</sup> | 4             | 19046        | 5442           |
| 109,5       | 402        | 1,0 | 13,06 | S062            | 112MB <sup>(1)</sup> | 4             | 5994         | 2398           |
| 107,1       | 411        | 1,0 | 13,36 | S062            | 112MB <sup>(1)</sup> | 4             | 6000         | 2400           |
| 102,2       | 431        | 2,8 | 13,99 | S102            | 112MB <sup>(1)</sup> | 4             | 19571        | 5592           |
| 101,8       | 432        | 1,8 | 14,04 | S082            | 112MB <sup>(1)</sup> | 4             | 15603        | 4458           |
| 92,7        | 475        | 1,6 | 15,43 | S082            | 112MB <sup>(1)</sup> | 4             | 15999        | 4571           |
| 92,7        | 475        | 2,6 | 15,43 | S102            | 112MB <sup>(1)</sup> | 4             | 20136        | 5753           |
| 90,9        | 484        | 1,6 | 15,73 | S082            | 112MB <sup>(1)</sup> | 4             | 16080        | 4594           |
| 89,7        | 490        | 0,9 | 15,94 | S062            | 112MB <sup>(1)</sup> | 4             | 6013         | 2405           |
| 88,5        | 497        | 0,9 | 16,16 | S062            | 112MB <sup>(1)</sup> | 4             | 6012         | 2405           |
| 83,1        | 530        | 2,5 | 17,21 | S102            | 112MB <sup>(1)</sup> | 4             | 20779        | 5937           |
| 82,7        | 532        | 1,4 | 17,29 | S082            | 112MB <sup>(1)</sup> | 4             | 16485        | 4710           |
| 75,3        | 585        | 2,4 | 19,00 | S102            | 112MB <sup>(1)</sup> | 4             | 21370        | 6106           |
| 75,2        | 586        | 1,3 | 19,03 | S082            | 112MB <sup>(1)</sup> | 4             | 16894        | 4827           |
| 71,0        | 620        | 1,2 | 20,14 | S082            | 112MB <sup>(1)</sup> | 4             | 17137        | 4896           |
| 68,7        | 641        | 2,2 | 20,83 | S102            | 112MB <sup>(1)</sup> | 4             | 21929        | 6265           |
| 64,6        | 681        | 1,2 | 22,13 | S082            | 112MB <sup>(1)</sup> | 4             | 17540        | 5012           |
| 64,6        | 681        | 2,1 | 22,13 | S102            | 112MB <sup>(1)</sup> | 4             | 22000        | 6371           |
| 59,6        | 739        | 1,1 | 24,00 | S082            | 112MB <sup>(1)</sup> | 4             | 17889        | 5111           |
| 58,9        | 747        | 2,0 | 24,28 | S102            | 112MB <sup>(1)</sup> | 4             | 22000        | 6536           |
| 54,9        | 802        | 1,0 | 26,05 | S082            | 112MB <sup>(1)</sup> | 4             | 18000        | 5211           |
| 54,7        | 805        | 3,7 | 26,15 | S122            | 112MB <sup>(1)</sup> | 4             | 30000        | 9525           |
| 54,3        | 810        | 1,9 | 26,33 | S102            | 112MB <sup>(1)</sup> | 4             | 22000        | 6682           |
| 52,4        | 840        | 1,1 | 27,29 | S082            | 112MB <sup>(1)</sup> | 4             | 18000        | 5267           |
| 50,0        | 880        | 3,4 | 28,60 | S122            | 112MB <sup>(1)</sup> | 4             | 30000        | 9755           |
| 49,9        | 882        | 1,0 | 28,67 | S082            | 112MB <sup>(1)</sup> | 4             | 18000        | 5327           |
| 48,3        | 911        | 1,0 | 29,60 | S082            | 112MB <sup>(1)</sup> | 4             | 18000        | 5365           |
| 47,9        | 919        | 1,6 | 29,87 | S102            | 112MB <sup>(1)</sup> | 4             | 22000        | 6911           |
| 46,9        | 939        | 3,2 | 30,51 | S122            | 112MB <sup>(1)</sup> | 4             | 30000        | 9922           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 4,80 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size                 | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|----------------------|-------|------|--------------|----------------|
| 45,0        | 978        | 1,0 | 31,78  | S082            | 112MB <sup>(1)</sup> |       | 4    | 18000        | 5450           |
| 44,1        | 997        | 1,5 | 32,40  | S102            | 112MB <sup>(1)</sup> |       | 4    | 22000        | 7059           |
| 43,7        | 1008       | 3,0 | 32,76  | S122            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 10106          |
| 42,8        | 1029       | 2,9 | 33,44  | S122            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 10161          |
| 41,0        | 1074       | 0,9 | 34,91  | S082            | 112MB <sup>(1)</sup> |       | 4    | 18000        | 5560           |
| 41,0        | 1074       | 1,3 | 34,91  | S102            | 112MB <sup>(1)</sup> |       | 4    | 22000        | 7197           |
| 40,6        | 1083       | 2,8 | 35,20  | S122            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 10294          |
| 40,3        | 1092       | 0,9 | 35,50  | S082            | 112MB <sup>(1)</sup> |       | 4    | 18000        | 5579           |
| 37,3        | 1179       | 1,3 | 38,30  | S102            | 112MB <sup>(1)</sup> |       | 4    | 22000        | 7368           |
| 34,8        | 1264       | 2,4 | 41,07  | S122            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 10697          |
| 33,6        | 1309       | 1,1 | 42,53  | S102            | 112MB <sup>(1)</sup> |       | 4    | 22000        | 7561           |
| 32,8        | 1342       | 2,2 | 43,60  | S122            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 10853          |
| 32,5        | 1354       | 1,0 | 44,00  | S102            | 112MB <sup>(1)</sup> |       | 4    | 22000        | 7623           |
| 32,0        | 1373       | 1,7 | 44,63  | S122            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 10914          |
| 31,2        | 1379       | 2,9 | 45,77  | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 30,3        | 1450       | 1,1 | 47,13  | S102            | 112MB <sup>(1)</sup> |       | 4    | 22000        | 7750           |
| 29,2        | 1509       | 1,6 | 49,04  | S122            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 11159          |
| 28,5        | 1546       | 0,9 | 50,25  | S102            | 112MB <sup>(1)</sup> |       | 4    | 22000        | 7867           |
| 28,1        | 1536       | 2,9 | 50,97  | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 26,6        | 1654       | 1,6 | 53,75  | S122            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 25,0        | 1723       | 2,7 | 57,17  | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 22,1        | 1954       | 1,4 | 64,84  | S123            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 22,1        | 1949       | 2,4 | 64,68  | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 21,7        | 2031       | 1,5 | 66,00  | S122            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 20,7        | 2081       | 2,3 | 69,06  | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 20,1        | 2142       | 1,3 | 71,07  | S123            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 18,2        | 2364       | 1,3 | 78,46  | S123            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 18,0        | 2394       | 1,8 | 79,45  | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 16,4        | 2630       | 1,1 | 87,27  | S123            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 14,5        | 2977       | 1,5 | 98,81  | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 13,5        | 3191       | 0,9 | 105,91 | S123            | 112MB <sup>(1)</sup> |       | 4    | 30000        | 11200          |
| 13,0        | 3316       | 1,4 | 110,05 | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 11,6        | 3720       | 1,3 | 123,44 | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 10,2        | 4208       | 1,2 | 139,64 | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 9,6         | 4493       | 1,1 | 149,10 | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |
| 8,3         | 5169       | 0,9 | 171,55 | S143            | 112MB <sup>(1)</sup> |       | 4    | 35000        | 18500          |

## 5,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i    | Gear<br>reducer | Size                 | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|------|-----------------|----------------------|-------|------|--------------|----------------|
| 396,5       | 123        | 3,4 | 7,34 | S082            | 112MB/132SA/132S     |       | 2    | 10466        | 2990           |
| 363,8       | 134        | 1,9 | 8,00 | S062            | 112MB <sup>(1)</sup> |       | 2    | 4900         | 1960           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 5,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size        | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|------|--------------|----------------|
| 360,9       | 135        | 3,3 | 8,06  | S082            | 112MB/132SA/132S     | 2    | 10769        | 3077           |
| 326,2       | 149        | 1,7 | 8,92  | S062            | 112MB <sup>(1)</sup> | 2    | 5013         | 2005           |
| 304,9       | 160        | 1,7 | 9,55  | S062            | 112MB <sup>(1)</sup> | 2    | 5081         | 2032           |
| 292,6       | 166        | 2,9 | 9,94  | S082            | 112MB/132SA/132S     | 2    | 11469        | 3277           |
| 273,4       | 178        | 1,5 | 10,65 | S062            | 112MB <sup>(1)</sup> | 2    | 5187         | 2075           |
| 267,4       | 182        | 3,9 | 10,88 | S102            | 112MB/132SA/132S     | 2    | 14591        | 4169           |
| 250,7       | 194        | 2,7 | 11,61 | S082            | 112MB/132SA/132S     | 2    | 12006        | 3430           |
| 248,5       | 196        | 1,5 | 11,71 | S062            | 112MB <sup>(1)</sup> | 2    | 5276         | 2111           |
| 228,2       | 213        | 2,6 | 12,75 | S082            | 112MB/132SA/132S     | 2    | 12342        | 3526           |
| 228,2       | 213        | 3,5 | 12,75 | S102            | 112MB/132SA/132S     | 2    | 15318        | 4377           |
| 222,9       | 218        | 1,4 | 13,06 | S062            | 112MB <sup>(1)</sup> | 2    | 5372         | 2149           |
| 217,9       | 223        | 1,4 | 13,36 | S062            | 112MB <sup>(1)</sup> | 2    | 5391         | 2156           |
| 208,0       | 234        | 3,8 | 13,99 | S102            | 112MB/132SA/132S     | 2    | 15758        | 4502           |
| 207,2       | 235        | 2,4 | 14,04 | S082            | 112MB/132SA/132S     | 2    | 12693        | 3627           |
| 197,6       | 255        | 2,2 | 7,34  | S082            | 132MS/132S           | 4    | 12840        | 3668           |
| 188,6       | 258        | 2,2 | 15,43 | S082            | 112MB/132SA/132S     | 2    | 13042        | 3726           |
| 188,6       | 258        | 3,6 | 15,43 | S102            | 112MB/132SA/132S     | 2    | 16232        | 4638           |
| 185,1       | 263        | 2,2 | 15,73 | S082            | 112MB/132SA/132S     | 2    | 13113        | 3747           |
| 182,6       | 266        | 1,3 | 15,94 | S062            | 112MB <sup>(1)</sup> | 2    | 5526         | 2210           |
| 180,0       | 270        | 1,2 | 16,16 | S062            | 112MB <sup>(1)</sup> | 2    | 5536         | 2214           |
| 179,8       | 280        | 2,1 | 8,06  | S082            | 132MS/132S           | 4    | 13188        | 3768           |
| 179,8       | 280        | 3,0 | 8,06  | S102            | 132MS/132S           | 4    | 16442        | 4698           |
| 169,1       | 288        | 3,4 | 17,21 | S102            | 112MB/132SA/132S     | 2    | 16776        | 4793           |
| 168,3       | 289        | 2,0 | 17,29 | S082            | 112MB/132SA/132S     | 2    | 13472        | 3849           |
| 163,9       | 308        | 2,9 | 8,85  | S102            | 132MS/132S           | 4    | 16905        | 4830           |
| 153,2       | 318        | 3,3 | 19,00 | S102            | 112MB/132SA/132S     | 2    | 17280        | 4937           |
| 152,9       | 318        | 1,8 | 19,03 | S082            | 112MB/132SA/132S     | 2    | 13839        | 3954           |
| 150,9       | 322        | 1,0 | 19,29 | S062            | 112MB <sup>(1)</sup> | 2    | 5640         | 2256           |
| 148,8       | 327        | 1,1 | 19,55 | S062            | 112MB <sup>(1)</sup> | 2    | 5647         | 2259           |
| 145,8       | 346        | 1,9 | 9,94  | S082            | 132MS/132S           | 4    | 13984        | 3995           |
| 144,5       | 337        | 1,7 | 20,14 | S082            | 112MB/132SA/132S     | 2    | 14059        | 4017           |
| 139,7       | 348        | 3,0 | 20,83 | S102            | 112MB/132SA/132S     | 2    | 17758        | 5074           |
| 133,2       | 379        | 2,5 | 10,88 | S102            | 132MS/132S           | 4    | 17975        | 5136           |
| 131,5       | 370        | 1,6 | 22,13 | S082            | 112MB/132SA/132S     | 2    | 14428        | 4122           |
| 131,5       | 370        | 2,8 | 22,13 | S102            | 112MB/132SA/132S     | 2    | 18077        | 5165           |
| 131,2       | 388        | 3,8 | 7,32  | S142            | 132MB                | 6    | 35000        | 18500          |
| 130,8       | 389        | 1,5 | 7,34  | S082            | 132MB                | 6    | 14393        | 4112           |
| 124,9       | 404        | 1,7 | 11,61 | S082            | 132MS/132S           | 4    | 14585        | 4167           |
| 121,3       | 401        | 1,5 | 24,00 | S082            | 112MB/132SA/132S     | 2    | 14751        | 4215           |
| 119,9       | 406        | 2,8 | 24,28 | S102            | 112MB/132SA/132S     | 2    | 18576        | 5307           |
| 119,1       | 428        | 1,5 | 8,06  | S082            | 132MB                | 6    | 14761        | 4217           |
| 119,1       | 428        | 2,1 | 8,06  | S102            | 132MB                | 6    | 18562        | 5304           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 5,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size<br>Motor        | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|------|--------------|----------------|
| 117,0       | 435        | 3,8 | 8,21  | S142            | 132MB                | 6    | 35000        | 18500          |
| 113,7       | 443        | 1,7 | 12,75 | S082            | 132MS/132S           | 4    | 14956        | 4273           |
| 113,7       | 443        | 2,3 | 12,75 | S102            | 132MS/132S           | 4    | 18822        | 5378           |
| 111,7       | 436        | 1,4 | 26,05 | S082            | 112MB/132SA/132S     | 2    | 15079        | 4308           |
| 110,5       | 440        | 2,6 | 26,33 | S102            | 112MB/132SA/132S     | 2    | 19020        | 5434           |
| 108,5       | 469        | 2,0 | 8,85  | S102            | 132MB                | 6    | 19066        | 5447           |
| 106,6       | 456        | 1,5 | 27,29 | S082            | 112MB/132SA/132S     | 2    | 15266        | 4362           |
| 103,6       | 486        | 2,5 | 13,99 | S102            | 132MS/132S           | 4    | 19331        | 5523           |
| 103,4       | 493        | 3,8 | 9,29  | S142            | 132MB                | 6    | 35000        | 18500          |
| 103,2       | 488        | 1,6 | 14,04 | S082            | 132MS/132S           | 4    | 15340        | 4383           |
| 101,6       | 496        | 3,6 | 14,27 | S142            | 132MS/132S           | 4    | 35000        | 18500          |
| 101,5       | 479        | 1,4 | 28,67 | S082            | 112MB/132SA/132S     | 2    | 15466        | 4419           |
| 98,3        | 495        | 1,4 | 29,60 | S082            | 112MB/132SA/132S     | 2    | 15595        | 4456           |
| 97,4        | 499        | 2,3 | 29,87 | S102            | 112MB/132SA/132S     | 2    | 19723        | 5635           |
| 96,8        | 526        | 3,8 | 9,91  | S142            | 132MB                | 6    | 35000        | 18500          |
| 96,5        | 528        | 1,3 | 9,94  | S082            | 132MB                | 6    | 15591        | 4455           |
| 94,0        | 537        | 1,4 | 15,43 | S082            | 132MS/132S           | 4    | 15716        | 4490           |
| 94,0        | 537        | 2,3 | 15,43 | S102            | 132MS/132S           | 4    | 19878        | 5679           |
| 92,2        | 547        | 1,4 | 15,73 | S082            | 132MS/132S           | 4    | 15792        | 4512           |
| 91,6        | 531        | 1,4 | 31,78 | S082            | 112MB/132SA/132S     | 2    | 15883        | 4538           |
| 90,6        | 557        | 3,5 | 16,01 | S142            | 132MS/132S           | 4    | 35000        | 18500          |
| 89,8        | 542        | 2,1 | 32,40 | S102            | 112MB/132SA/132S     | 2    | 20185        | 5767           |
| 88,2        | 577        | 1,7 | 10,88 | S102            | 132MB                | 6    | 20222        | 5778           |
| 84,2        | 599        | 2,2 | 17,21 | S102            | 132MS/132S           | 4    | 20499        | 5857           |
| 84,2        | 605        | 3,6 | 11,41 | S142            | 132MB                | 6    | 35000        | 18500          |
| 83,8        | 601        | 1,3 | 17,29 | S082            | 132MS/132S           | 4    | 16174        | 4621           |
| 83,4        | 584        | 1,3 | 34,91 | S082            | 112MB/132SA/132S     | 2    | 16267        | 4648           |
| 83,4        | 584        | 1,8 | 34,91 | S102            | 112MB/132SA/132S     | 2    | 20614        | 5890           |
| 82,7        | 616        | 1,2 | 11,61 | S082            | 132MB                | 6    | 16208        | 4631           |
| 82,7        | 589        | 3,8 | 35,20 | S122            | 112MB/132SA/132S     | 2    | 29516        | 8433           |
| 82,0        | 594        | 1,3 | 35,50 | S082            | 112MB <sup>(1)</sup> | 2    | 16335        | 4667           |
| 80,1        | 630        | 3,5 | 18,11 | S142            | 132MS/132S           | 4    | 35000        | 18500          |
| 76,3        | 661        | 2,1 | 19,00 | S102            | 132MS/132S           | 4    | 21068        | 6020           |
| 76,2        | 662        | 1,2 | 19,03 | S082            | 132MS/132S           | 4    | 16557        | 4731           |
| 76,0        | 640        | 1,8 | 38,30 | S102            | 112MB/132SA/132S     | 2    | 21155        | 6044           |
| 75,3        | 676        | 1,2 | 12,75 | S082            | 132MB                | 6    | 16583        | 4738           |
| 75,3        | 676        | 1,6 | 12,75 | S102            | 132MB                | 6    | 21129        | 6037           |
| 75,0        | 672        | 3,5 | 19,33 | S142            | 132MS/132S           | 4    | 35000        | 18500          |
| 74,9        | 680        | 3,0 | 12,81 | S142            | 132MB                | 6    | 35000        | 18500          |
| 72,7        | 670        | 1,1 | 40,05 | S082            | 112MB <sup>(1)</sup> | 2    | 16828        | 4808           |
| 72,0        | 700        | 1,1 | 20,14 | S082            | 132MS/132S           | 4    | 16784        | 4796           |
| 70,9        | 687        | 3,3 | 41,07 | S122            | 112MB/132SA/132S     | 2    | 30000        | 8800           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 5,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size<br>Motor        | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|------|--------------|----------------|
| 69,6        | 724        | 1,9 | 20,83 | S102            | 132MS/132S           | 4    | 21605        | 6173           |
| 68,6        | 742        | 1,7 | 13,99 | S102            | 132MB                | 6    | 21670        | 6191           |
| 68,4        | 745        | 1,1 | 14,04 | S082            | 132MB                | 6    | 16967        | 4848           |
| 68,4        | 711        | 1,5 | 42,53 | S102            | 112MB/132SA/132S     | 2    | 21773        | 6221           |
| 68,2        | 739        | 3,8 | 21,25 | S122            | 132MS/132S           | 4    | 30000        | 8863           |
| 67,6        | 720        | 1,0 | 43,05 | S082            | 112MB/132SA/132S     | 2    | 17122        | 4892           |
| 67,3        | 757        | 2,5 | 14,27 | S142            | 132MB                | 6    | 35000        | 18500          |
| 66,7        | 729        | 3,1 | 43,60 | S122            | 112MB/132SA/132S     | 2    | 30000        | 8945           |
| 66,1        | 736        | 1,3 | 44,00 | S102            | 112MB <sup>(1)</sup> | 2    | 21976        | 6279           |
| 65,5        | 769        | 1,0 | 22,13 | S082            | 132MS/132S           | 4    | 17159        | 4903           |
| 65,5        | 769        | 1,8 | 22,13 | S102            | 132MS/132S           | 4    | 21960        | 6274           |
| 65,2        | 746        | 2,4 | 44,63 | S122            | 112MB/132SA/132S     | 2    | 30000        | 9001           |
| 65,2        | 774        | 3,1 | 22,24 | S142            | 132MS/132S           | 4    | 35000        | 18500          |
| 64,8        | 778        | 3,6 | 22,37 | S122            | 132MS/132S           | 4    | 30000        | 8986           |
| 62,3        | 810        | 3,6 | 23,29 | S122            | 132MS/132S           | 4    | 30000        | 9083           |
| 62,2        | 818        | 1,0 | 15,43 | S082            | 132MB                | 6    | 17338        | 4954           |
| 62,2        | 818        | 1,6 | 15,43 | S102            | 132MB                | 6    | 22000        | 6356           |
| 61,7        | 788        | 1,5 | 47,13 | S102            | 112MB/132SA/132S     | 2    | 22000        | 6396           |
| 61,0        | 834        | 1,0 | 15,73 | S082            | 132MB                | 6    | 17412        | 4975           |
| 60,4        | 835        | 1,0 | 24,00 | S082            | 132MS/132S           | 4    | 17481        | 4994           |
| 60,0        | 849        | 2,4 | 16,01 | S142            | 132MB                | 6    | 35000        | 18500          |
| 59,7        | 844        | 1,8 | 24,28 | S102            | 132MS/132S           | 4    | 22000        | 6432           |
| 59,3        | 820        | 2,2 | 49,04 | S122            | 112MB/132SA/132S     | 2    | 30000        | 9231           |
| 57,9        | 840        | 1,2 | 50,25 | S102            | 112MB <sup>(1)</sup> | 2    | 22000        | 6507           |
| 57,4        | 878        | 2,4 | 25,26 | S142            | 132MS/132S           | 4    | 35000        | 18500          |
| 55,8        | 913        | 1,5 | 17,21 | S102            | 132MB                | 6    | 22000        | 6542           |
| 55,4        | 910        | 3,3 | 26,15 | S122            | 132MS/132S           | 4    | 30000        | 9364           |
| 55,1        | 916        | 1,6 | 26,33 | S102            | 132MS/132S           | 4    | 22000        | 6571           |
| 54,1        | 899        | 2,2 | 53,75 | S122            | 112MB/132SA/132S     | 2    | 30000        | 9457           |
| 53,1        | 949        | 0,9 | 27,29 | S082            | 132MS/132S           | 4    | 17980        | 5137           |
| 53,0        | 961        | 2,4 | 18,11 | S142            | 132MB                | 6    | 35000        | 18500          |
| 52,8        | 922        | 1,1 | 55,14 | S102            | 112MB <sup>(1)</sup> | 2    | 22000        | 6668           |
| 51,2        | 985        | 2,4 | 28,33 | S142            | 132MS/132S           | 4    | 35000        | 18500          |
| 50,7        | 995        | 3,0 | 28,60 | S122            | 132MS/132S           | 4    | 30000        | 9582           |
| 50,6        | 997        | 0,9 | 28,67 | S082            | 132MS/132S           | 4    | 18000        | 5191           |
| 50,5        | 1008       | 1,5 | 19,00 | S102            | 132MB                | 6    | 22000        | 6711           |
| 49,7        | 1026       | 2,4 | 19,33 | S142            | 132MB                | 6    | 35000        | 18500          |
| 49,0        | 993        | 1,2 | 59,40 | S102            | 112MB <sup>(1)</sup> | 2    | 22000        | 6798           |
| 48,5        | 1039       | 1,4 | 29,87 | S102            | 132MS/132S           | 4    | 22000        | 6787           |
| 47,5        | 1061       | 2,8 | 30,51 | S122            | 132MS/132S           | 4    | 30000        | 9740           |
| 46,1        | 1105       | 1,3 | 20,83 | S102            | 132MB                | 6    | 22000        | 6869           |
| 45,6        | 1105       | 0,9 | 31,78 | S082            | 132MS/132S           | 4    | 18000        | 5301           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 5,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size        | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|----------------------|------|--------------|----------------|
| 45,2        | 1127       | 2,6 | 21,25  | S122            | 132MB                | 6    | 30000        | 9852           |
| 45,2        | 1115       | 2,4 | 32,05  | S142            | 132MS/132S           | 4    | 35000        | 18500          |
| 44,9        | 1062       | 1,9 | 64,84  | S123            | 112MB/132SA/132S     | 2    | 30000        | 9947           |
| 44,8        | 1127       | 1,3 | 32,40  | S102            | 132MS/132S           | 4    | 22000        | 6928           |
| 44,3        | 1139       | 2,6 | 32,76  | S122            | 132MS/132S           | 4    | 30000        | 9913           |
| 44,1        | 1104       | 2,0 | 66,00  | S122            | 112MB/132SA/132S     | 2    | 30000        | 9966           |
| 43,4        | 1174       | 1,3 | 22,13  | S102            | 132MB                | 6    | 22000        | 6972           |
| 43,4        | 1163       | 2,6 | 33,44  | S122            | 132MS/132S           | 4    | 30000        | 9964           |
| 43,2        | 1180       | 2,2 | 22,24  | S142            | 132MB                | 6    | 35000        | 18500          |
| 42,9        | 1134       | 1,1 | 67,84  | S102            | 112MB <sup>(1)</sup> | 2    | 22000        | 7031           |
| 42,9        | 1187       | 2,5 | 22,37  | S122            | 132MB                | 6    | 30000        | 9976           |
| 42,4        | 1190       | 2,4 | 34,22  | S142            | 132MS/132S           | 4    | 35000        | 18500          |
| 41,5        | 1214       | 1,2 | 34,91  | S102            | 132MS/132S           | 4    | 22000        | 7056           |
| 41,2        | 1236       | 2,5 | 23,29  | S122            | 132MB                | 6    | 30000        | 10075          |
| 41,2        | 1224       | 2,5 | 35,20  | S122            | 132MS/132S           | 4    | 30000        | 10089          |
| 40,9        | 1164       | 1,7 | 71,07  | S123            | 112MB/132SA/132S     | 2    | 30000        | 10177          |
| 39,5        | 1288       | 1,2 | 24,28  | S102            | 132MB                | 6    | 22000        | 7132           |
| 38,0        | 1340       | 1,7 | 25,26  | S142            | 132MB                | 6    | 35000        | 18500          |
| 37,9        | 1332       | 1,1 | 38,30  | S102            | 132MS/132S           | 4    | 22000        | 7216           |
| 37,1        | 1285       | 1,8 | 78,46  | S123            | 112MB/132SA/132S     | 2    | 30000        | 10426          |
| 36,8        | 1369       | 3,2 | 39,38  | S142            | 132MS/132S           | 4    | 35000        | 18500          |
| 36,7        | 1387       | 2,3 | 26,15  | S122            | 132MB                | 6    | 30000        | 10355          |
| 36,5        | 1397       | 1,1 | 26,33  | S102            | 132MB                | 6    | 22000        | 7271           |
| 35,3        | 1428       | 2,1 | 41,07  | S122            | 132MS/132S           | 4    | 30000        | 10464          |
| 34,1        | 1479       | 0,9 | 42,53  | S102            | 132MS/132S           | 4    | 22000        | 7395           |
| 33,9        | 1503       | 1,7 | 28,33  | S142            | 132MB                | 6    | 35000        | 18500          |
| 33,6        | 1517       | 2,1 | 28,60  | S122            | 132MB                | 6    | 30000        | 10570          |
| 33,3        | 1516       | 2,0 | 43,60  | S122            | 132MS/132S           | 4    | 30000        | 10608          |
| 33,3        | 1429       | 1,6 | 87,27  | S123            | 112MB/132SA/132S     | 2    | 30000        | 10692          |
| 32,5        | 1552       | 1,5 | 44,63  | S122            | 132MS/132S           | 4    | 30000        | 10664          |
| 32,1        | 1585       | 1,0 | 29,87  | S102            | 132MB                | 6    | 22000        | 7484           |
| 31,7        | 1558       | 2,6 | 45,77  | S143            | 132MS/132S           | 4    | 35000        | 18500          |
| 31,5        | 1619       | 1,9 | 30,51  | S122            | 132MB                | 6    | 30000        | 10724          |
| 30,8        | 1639       | 1,0 | 47,13  | S102            | 132MS/132S           | 4    | 22000        | 7570           |
| 30,0        | 1700       | 1,7 | 32,05  | S142            | 132MB                | 6    | 35000        | 18500          |
| 29,6        | 1719       | 0,9 | 32,40  | S102            | 132MB                | 6    | 22000        | 7620           |
| 29,6        | 1705       | 1,4 | 49,04  | S122            | 132MS/132S           | 4    | 30000        | 10888          |
| 29,3        | 1738       | 1,8 | 32,76  | S122            | 132MB                | 6    | 30000        | 10890          |
| 28,7        | 1774       | 1,8 | 33,44  | S122            | 132MB                | 6    | 30000        | 10939          |
| 28,4        | 1736       | 2,6 | 50,97  | S143            | 132MS/132S           | 4    | 35000        | 18500          |
| 28,1        | 1815       | 1,7 | 34,22  | S142            | 132MB                | 6    | 35000        | 18500          |
| 27,5        | 1734       | 1,3 | 105,91 | S123            | 112MB/132SA/132S     | 2    | 30000        | 11169          |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 5,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size<br>Motor    | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------------------|------|--------------|----------------|
| 27,3        | 1867       | 1,7 | 35,20  | S122            | 132MB            | 6    | 30000        | 11057          |
| 27,0        | 1869       | 1,4 | 53,75  | S122            | 132MS/132S       | 4    | 30000        | 11102          |
| 25,9        | 1842       | 1,2 | 112,52 | S123            | 112MB/132SA/132S | 2    | 30000        | 11200          |
| 25,4        | 1947       | 2,4 | 57,17  | S143            | 132MS/132S       | 4    | 35000        | 18500          |
| 24,4        | 2089       | 2,2 | 39,38  | S142            | 132MB            | 6    | 35000        | 18500          |
| 23,9        | 2083       | 3,2 | 40,10  | S153            | 132MB            | 6    | 40000        | 19400          |
| 23,6        | 2019       | 1,1 | 123,33 | S123            | 112MB/132SA/132S | 2    | 30000        | 11200          |
| 23,4        | 2179       | 1,4 | 41,07  | S122            | 132MB            | 6    | 30000        | 11200          |
| 22,4        | 2208       | 1,2 | 64,84  | S123            | 132MS/132S       | 4    | 30000        | 11200          |
| 22,4        | 2129       | 1,1 | 130,04 | S123            | 112MB/132SA/132S | 2    | 30000        | 11200          |
| 22,4        | 2202       | 2,2 | 64,68  | S143            | 132MS/132S       | 4    | 35000        | 18500          |
| 22,0        | 2313       | 1,4 | 43,60  | S122            | 132MB            | 6    | 30000        | 11200          |
| 22,0        | 2295       | 1,3 | 66,00  | S122            | 132MS/132S       | 4    | 30000        | 11200          |
| 21,8        | 2190       | 1,0 | 133,78 | S123            | 112MB/132SA/132S | 2    | 30000        | 11200          |
| 21,5        | 2368       | 1,1 | 44,63  | S122            | 132MB            | 6    | 30000        | 11200          |
| 21,4        | 2325       | 3,2 | 44,76  | S153            | 132MB            | 6    | 40000        | 19400          |
| 21,0        | 2377       | 1,8 | 45,77  | S143            | 132MB            | 6    | 35000        | 18500          |
| 21,0        | 2351       | 2,1 | 69,06  | S143            | 132MS/132S       | 4    | 35000        | 18500          |
| 20,4        | 2420       | 1,1 | 71,07  | S123            | 132MS/132S       | 4    | 30000        | 11200          |
| 19,7        | 2507       | 3,1 | 73,63  | S153            | 132MS/132S       | 4    | 40000        | 19400          |
| 19,6        | 2602       | 1,0 | 49,04  | S122            | 132MB            | 6    | 30000        | 11200          |
| 18,8        | 2648       | 1,8 | 50,97  | S143            | 132MB            | 6    | 35000        | 18500          |
| 18,7        | 2669       | 3,1 | 51,38  | S153            | 132MB            | 6    | 40000        | 19400          |
| 18,5        | 2672       | 1,1 | 78,46  | S123            | 132MS/132S       | 4    | 30000        | 11200          |
| 18,2        | 2705       | 1,6 | 79,45  | S143            | 132MS/132S       | 4    | 35000        | 18500          |
| 17,9        | 2851       | 1,0 | 53,75  | S122            | 132MB            | 6    | 30000        | 11200          |
| 17,0        | 2929       | 3,0 | 56,39  | S153            | 132MB            | 6    | 40000        | 19400          |
| 16,8        | 2970       | 1,7 | 57,17  | S143            | 132MB            | 6    | 35000        | 18500          |
| 16,6        | 2971       | 1,0 | 87,27  | S123            | 132MS/132S       | 4    | 30000        | 11200          |
| 16,6        | 2968       | 2,4 | 87,16  | S153            | 132MS/132S       | 4    | 40000        | 19400          |
| 15,0        | 3327       | 2,8 | 64,05  | S153            | 132MB            | 6    | 40000        | 19400          |
| 14,9        | 3312       | 2,4 | 97,27  | S153            | 132MS/132S       | 4    | 40000        | 19400          |
| 14,8        | 3360       | 1,5 | 64,68  | S143            | 132MB            | 6    | 35000        | 18500          |
| 14,7        | 3465       | 0,9 | 66,00  | S122            | 132MB            | 6    | 30000        | 11200          |
| 14,7        | 3365       | 1,3 | 98,81  | S143            | 132MS/132S       | 4    | 35000        | 18500          |
| 13,9        | 3587       | 1,4 | 69,06  | S143            | 132MB            | 6    | 35000        | 18500          |
| 13,2        | 3747       | 1,3 | 110,05 | S143            | 132MS/132S       | 4    | 35000        | 18500          |
| 13,0        | 3824       | 2,1 | 73,63  | S153            | 132MB            | 6    | 40000        | 19400          |
| 13,0        | 3802       | 2,4 | 111,67 | S153            | 132MS/132S       | 4    | 40000        | 19400          |
| 12,1        | 4127       | 1,1 | 79,45  | S143            | 132MB            | 6    | 35000        | 18500          |
| 11,8        | 4173       | 2,3 | 122,57 | S153            | 132MS/132S       | 4    | 40000        | 19400          |
| 11,7        | 4203       | 1,1 | 123,44 | S143            | 132MS/132S       | 4    | 35000        | 18500          |

## 5.1 S GEARED MOTORS (50Hz)

## 5,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size       | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------------|-------|------|--------------|----------------|
| 11,0        | 4527       | 1,6 | 87,16  | S153            | 132MB      |       | 6    | 40000        | 19400          |
| 10,4        | 4755       | 1,0 | 139,64 | S143            | 132MS/132S |       | 4    | 35000        | 18500          |
| 10,4        | 4740       | 1,9 | 139,21 | S153            | 132MS/132S |       | 4    | 40000        | 19400          |
| 9,9         | 5053       | 1,6 | 97,27  | S153            | 132MB      |       | 6    | 40000        | 19400          |
| 9,7         | 5133       | 0,9 | 98,81  | S143            | 132MB      |       | 6    | 35000        | 18500          |
| 9,7         | 5077       | 0,9 | 149,10 | S143            | 132MS/132S |       | 4    | 35000        | 18500          |
| 9,4         | 5244       | 1,4 | 154,02 | S153            | 132MS/132S |       | 4    | 40000        | 19400          |
| 9,1         | 5449       | 1,5 | 160,02 | S153            | 132MS/132S |       | 4    | 40000        | 19400          |
| 8,6         | 5801       | 1,6 | 111,67 | S153            | 132MB      |       | 6    | 40000        | 19400          |
| 8,2         | 6021       | 1,4 | 176,81 | S153            | 132MS/132S |       | 4    | 40000        | 19400          |
| 7,8         | 6367       | 1,6 | 122,57 | S153            | 132MB      |       | 6    | 40000        | 19400          |
| 7,5         | 6608       | 1,4 | 194,06 | S153            | 132MS/132S |       | 4    | 40000        | 19400          |
| 6,9         | 7231       | 1,3 | 139,21 | S153            | 132MB      |       | 6    | 40000        | 19400          |
| 6,6         | 7505       | 1,2 | 220,42 | S153            | 132MS/132S |       | 4    | 40000        | 19400          |
| 6,2         | 8000       | 0,9 | 154,02 | S153            | 132MB      |       | 6    | 40000        | 19400          |
| 6,0         | 8312       | 1,0 | 160,02 | S153            | 132MB      |       | 6    | 40000        | 19400          |
| 5,7         | 8627       | 1,0 | 253,36 | S153            | 132MS/132S |       | 4    | 40000        | 19400          |
| 5,4         | 9185       | 0,9 | 176,81 | S153            | 132MB      |       | 6    | 40000        | 19400          |
| 4,9         | 10081      | 0,9 | 194,06 | S153            | 132MB      |       | 6    | 40000        | 19400          |

## 7,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size       | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|------------|-------|------|--------------|----------------|
| 396,5       | 167        | 2,5 | 7,34  | S082            | 132M/132SB |       | 2    | 10319        | 2948           |
| 360,9       | 184        | 2,4 | 8,06  | S082            | 132M/132SB |       | 2    | 10608        | 3031           |
| 360,9       | 184        | 3,5 | 8,06  | S102            | 132M/132SB |       | 2    | 13166        | 3762           |
| 328,9       | 202        | 3,3 | 8,85  | S102            | 132M/132SB |       | 2    | 13544        | 3870           |
| 292,6       | 227        | 2,2 | 9,94  | S082            | 132M/132SB |       | 2    | 11270        | 3220           |
| 267,4       | 248        | 2,9 | 10,88 | S102            | 132M/132SB |       | 2    | 14420        | 4120           |
| 250,7       | 265        | 2,0 | 11,61 | S082            | 132M/132SB |       | 2    | 11774        | 3364           |
| 228,2       | 291        | 1,9 | 12,75 | S082            | 132M/132SB |       | 2    | 12087        | 3453           |
| 228,2       | 291        | 2,6 | 12,75 | S102            | 132M/132SB |       | 2    | 15117        | 4319           |
| 208,0       | 319        | 2,8 | 13,99 | S102            | 132M/132SB |       | 2    | 15537        | 4439           |
| 207,2       | 320        | 1,8 | 14,04 | S082            | 132M/132SB |       | 2    | 12413        | 3547           |
| 197,6       | 348        | 1,6 | 7,34  | S082            | 132MA/132M |       | 4    | 12535        | 3581           |
| 188,6       | 352        | 1,6 | 15,43 | S082            | 132M/132SB |       | 2    | 12733        | 3638           |
| 188,6       | 352        | 2,7 | 15,43 | S102            | 132M/132SB |       | 2    | 15989        | 4568           |
| 185,1       | 359        | 1,6 | 15,73 | S082            | 132M/132SB |       | 2    | 12799        | 3657           |
| 179,8       | 382        | 1,6 | 8,06  | S082            | 132MA/132M |       | 4    | 12853        | 3672           |
| 179,8       | 382        | 2,2 | 8,06  | S102            | 132MA/132M |       | 4    | 16177        | 4622           |
| 169,1       | 392        | 2,5 | 17,21 | S102            | 132M/132SB |       | 2    | 16505        | 4716           |
| 168,3       | 394        | 1,5 | 17,29 | S082            | 132M/132SB |       | 2    | 13127        | 3751           |

## 5.1 S GEARED MOTORS (50Hz)

## 7,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------|------|--------------|----------------|
| 163,9       | 420        | 2,1 | 8,85  | S102            | 132MA/132M    | 4    | 16615        | 4747           |
| 153,2       | 433        | 2,4 | 19,00 | S102            | 132M/132SB    | 2    | 16980        | 4851           |
| 152,9       | 434        | 1,3 | 19,03 | S082            | 132M/132SB    | 2    | 13459        | 3845           |
| 145,8       | 472        | 1,4 | 9,94  | S082            | 132MA/132M    | 4    | 13571        | 3877           |
| 144,5       | 459        | 1,3 | 20,14 | S082            | 132M/132SB    | 2    | 13657        | 3902           |
| 139,7       | 475        | 2,2 | 20,83 | S102            | 132M/132SB    | 2    | 17429        | 4980           |
| 133,2       | 516        | 1,8 | 10,88 | S102            | 132MA/132M    | 4    | 17617        | 5034           |
| 132,6       | 524        | 3,8 | 7,32  | S142            | 160M          | 6    | 35000        | 18500          |
| 131,5       | 504        | 1,2 | 22,13 | S082            | 132M/132SB    | 2    | 13986        | 3996           |
| 131,5       | 504        | 2,1 | 22,13 | S102            | 132M/132SB    | 2    | 17728        | 5065           |
| 127,1       | 541        | 3,8 | 11,41 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 124,9       | 550        | 1,3 | 11,61 | S082            | 132MA/132M    | 4    | 14103        | 4029           |
| 121,3       | 547        | 1,1 | 24,00 | S082            | 132M/132SB    | 2    | 14272        | 4078           |
| 120,3       | 577        | 1,5 | 8,06  | S102            | 160M          | 6    | 18107        | 5174           |
| 119,9       | 554        | 2,0 | 24,28 | S102            | 132M/132SB    | 2    | 18192        | 5198           |
| 118,2       | 588        | 3,8 | 8,21  | S142            | 160M          | 6    | 35000        | 18500          |
| 114,4       | 607        | 2,6 | 8,48  | S122            | 160M          | 6    | 26221        | 7492           |
| 113,7       | 605        | 1,2 | 12,75 | S082            | 132MA/132M    | 4    | 14426        | 4122           |
| 113,7       | 605        | 1,7 | 12,75 | S102            | 132MA/132M    | 4    | 18404        | 5258           |
| 113,2       | 608        | 3,1 | 12,81 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 111,7       | 594        | 1,0 | 26,05 | S082            | 132M/132SB    | 2    | 14558        | 4159           |
| 111,3       | 596        | 3,8 | 26,15 | S122            | 132M/132SB    | 2    | 26522        | 7578           |
| 110,5       | 600        | 1,9 | 26,33 | S102            | 132M/132SB    | 2    | 18605        | 5316           |
| 109,6       | 633        | 1,5 | 8,85  | S102            | 160M          | 6    | 18571        | 5306           |
| 106,6       | 622        | 1,1 | 27,29 | S082            | 132M/132SB    | 2    | 14721        | 4206           |
| 104,5       | 665        | 3,8 | 9,29  | S142            | 160M          | 6    | 35000        | 18500          |
| 104,3       | 666        | 2,7 | 9,30  | S122            | 160M          | 6    | 26877        | 7679           |
| 103,6       | 663        | 1,8 | 13,99 | S102            | 132MA/132M    | 4    | 18872        | 5392           |
| 103,2       | 666        | 1,1 | 14,04 | S082            | 132MA/132M    | 4    | 14757        | 4216           |
| 101,7       | 652        | 3,5 | 28,60 | S122            | 132M/132SB    | 2    | 27173        | 7764           |
| 101,6       | 677        | 2,6 | 14,27 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 101,5       | 654        | 1,0 | 28,67 | S082            | 132M/132SB    | 2    | 14893        | 4255           |
| 98,3        | 675        | 1,0 | 29,60 | S082            | 132M/132SB    | 2    | 15004        | 4287           |
| 97,8        | 710        | 3,8 | 9,91  | S142            | 160M          | 6    | 35000        | 18500          |
| 97,4        | 681        | 1,7 | 29,87 | S102            | 132M/132SB    | 2    | 19251        | 5500           |
| 95,4        | 696        | 3,2 | 30,51 | S122            | 132M/132SB    | 2    | 27647        | 7899           |
| 94,7        | 733        | 2,4 | 10,24 | S122            | 160M          | 6    | 27572        | 7878           |
| 94,0        | 732        | 1,1 | 15,43 | S082            | 132MA/132M    | 4    | 15075        | 4307           |
| 94,0        | 732        | 1,7 | 15,43 | S102            | 132MA/132M    | 4    | 19371        | 5535           |
| 92,2        | 746        | 1,0 | 15,73 | S082            | 132MA/132M    | 4    | 15139        | 4325           |
| 91,6        | 725        | 1,0 | 31,78 | S082            | 132M/132SB    | 2    | 15248        | 4357           |
| 90,6        | 759        | 2,6 | 16,01 | S142            | 132MA/132M    | 4    | 35000        | 18500          |

## 5.1 S GEARED MOTORS (50Hz)

## 7,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------|------|--------------|----------------|
| 89,8        | 739        | 1,5 | 32,40 | S102            | 132M/132SB    | 2    | 19674        | 5621           |
| 89,1        | 779        | 1,3 | 10,88 | S102            | 160M          | 6    | 19624        | 5607           |
| 88,8        | 747        | 3,0 | 32,76 | S122            | 132M/132SB    | 2    | 28171        | 8049           |
| 87,0        | 763        | 3,0 | 33,44 | S122            | 132M/132SB    | 2    | 28325        | 8093           |
| 85,0        | 817        | 2,4 | 11,42 | S122            | 160M          | 6    | 28363        | 8104           |
| 85,0        | 817        | 3,6 | 11,41 | S142            | 160M          | 6    | 35000        | 18500          |
| 84,2        | 816        | 1,6 | 17,21 | S102            | 132MA/132M    | 4    | 19934        | 5695           |
| 83,8        | 820        | 0,9 | 17,29 | S082            | 132MA/132M    | 4    | 15456        | 4416           |
| 83,4        | 796        | 1,3 | 34,91 | S102            | 132M/132SB    | 2    | 20063        | 5732           |
| 82,7        | 803        | 2,8 | 35,20 | S122            | 132M/132SB    | 2    | 28705        | 8201           |
| 80,1        | 859        | 2,6 | 18,11 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 77,8        | 892        | 3,9 | 12,46 | S152            | 160M          | 6    | 40000        | 19400          |
| 76,8        | 904        | 2,6 | 12,63 | S122            | 160M          | 6    | 29098        | 8314           |
| 76,3        | 901        | 1,6 | 19,00 | S102            | 132MA/132M    | 4    | 20445        | 5841           |
| 76,1        | 913        | 1,2 | 12,75 | S102            | 160M          | 6    | 20437        | 5839           |
| 76,0        | 873        | 1,3 | 38,30 | S102            | 132M/132SB    | 2    | 20550        | 5871           |
| 75,7        | 917        | 3,0 | 12,81 | S142            | 160M          | 6    | 35000        | 18500          |
| 75,0        | 917        | 2,6 | 19,33 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 70,9        | 936        | 2,4 | 41,07 | S122            | 132M/132SB    | 2    | 29855        | 8530           |
| 70,1        | 991        | 2,5 | 13,84 | S122            | 160M          | 6    | 29769        | 8505           |
| 69,7        | 996        | 3,9 | 13,91 | S152            | 160M          | 6    | 40000        | 19400          |
| 69,6        | 988        | 1,4 | 20,83 | S102            | 132MA/132M    | 4    | 20921        | 5977           |
| 69,3        | 1002       | 1,3 | 13,99 | S102            | 160M          | 6    | 20916        | 5976           |
| 68,4        | 970        | 1,1 | 42,53 | S102            | 132M/132SB    | 2    | 21101        | 6029           |
| 68,2        | 1008       | 2,8 | 21,25 | S122            | 132MA/132M    | 4    | 30000        | 8572           |
| 68,0        | 1022       | 2,5 | 14,27 | S142            | 160M          | 6    | 35000        | 18500          |
| 66,7        | 994        | 2,3 | 43,60 | S122            | 132M/132SB    | 2    | 30000        | 8658           |
| 65,5        | 1049       | 1,3 | 22,13 | S102            | 132MA/132M    | 4    | 21234        | 6067           |
| 65,2        | 1018       | 1,8 | 44,63 | S122            | 132M/132SB    | 2    | 30000        | 8708           |
| 65,2        | 1055       | 2,3 | 22,24 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 64,8        | 1061       | 2,6 | 22,37 | S122            | 132MA/132M    | 4    | 30000        | 8680           |
| 62,3        | 1105       | 2,6 | 23,29 | S122            | 132MA/132M    | 4    | 30000        | 8765           |
| 61,7        | 1075       | 1,1 | 47,13 | S102            | 132M/132SB    | 2    | 21644        | 6184           |
| 60,7        | 1143       | 3,9 | 15,97 | S152            | 160M          | 6    | 40000        | 19400          |
| 60,6        | 1146       | 2,4 | 16,01 | S142            | 160M          | 6    | 35000        | 18500          |
| 59,7        | 1151       | 1,3 | 24,28 | S102            | 132MA/132M    | 4    | 21714        | 6204           |
| 59,3        | 1118       | 1,6 | 49,04 | S122            | 132M/132SB    | 2    | 30000        | 8909           |
| 57,4        | 1198       | 1,8 | 25,26 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 57,1        | 1217       | 2,2 | 16,99 | S122            | 160M          | 6    | 30000        | 8932           |
| 56,4        | 1232       | 1,1 | 17,21 | S102            | 160M          | 6    | 21982        | 6281           |
| 55,4        | 1240       | 2,4 | 26,15 | S122            | 132MA/132M    | 4    | 30000        | 9006           |
| 55,3        | 1255       | 3,9 | 17,53 | S152            | 160M          | 6    | 40000        | 19400          |

## 5.1 S GEARED MOTORS (50Hz)

## 7,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------|------|--------------|----------------|
| 55,1        | 1249       | 1,2 | 26,33 | S102            | 132MA/132M    | 4    | 22000        | 6324           |
| 54,1        | 1226       | 1,6 | 53,75 | S122            | 132M/132SB    | 2    | 30000        | 9103           |
| 53,6        | 1296       | 2,4 | 18,11 | S142            | 160M          | 6    | 35000        | 18500          |
| 51,2        | 1344       | 1,8 | 28,33 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 50,7        | 1356       | 2,2 | 28,60 | S122            | 132MA/132M    | 4    | 30000        | 9190           |
| 50,2        | 1384       | 2,4 | 19,33 | S142            | 160M          | 6    | 35000        | 18500          |
| 48,7        | 1425       | 3,9 | 19,91 | S152            | 160M          | 6    | 40000        | 19400          |
| 48,5        | 1416       | 1,1 | 29,87 | S102            | 132MA/132M    | 4    | 22000        | 6507           |
| 47,5        | 1447       | 2,1 | 30,51 | S122            | 132MA/132M    | 4    | 30000        | 9322           |
| 45,6        | 1521       | 1,9 | 21,25 | S122            | 160M          | 6    | 30000        | 9387           |
| 45,2        | 1520       | 1,8 | 32,05 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 44,9        | 1448       | 1,4 | 64,84 | S123            | 132M/132SB    | 2    | 30000        | 9529           |
| 44,8        | 1536       | 1,0 | 32,40 | S102            | 132MA/132M    | 4    | 22000        | 6624           |
| 44,3        | 1553       | 1,9 | 32,76 | S122            | 132MA/132M    | 4    | 30000        | 9465           |
| 44,1        | 1505       | 1,5 | 66,00 | S122            | 132M/132SB    | 2    | 30000        | 9532           |
| 43,6        | 1593       | 2,2 | 22,24 | S142            | 160M          | 6    | 35000        | 18500          |
| 43,4        | 1601       | 1,8 | 22,37 | S122            | 160M          | 6    | 30000        | 9489           |
| 43,4        | 1586       | 1,9 | 33,44 | S122            | 132MA/132M    | 4    | 30000        | 9507           |
| 42,4        | 1623       | 1,8 | 34,22 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 42,4        | 1638       | 3,9 | 22,88 | S152            | 160M          | 6    | 40000        | 19400          |
| 41,6        | 1668       | 1,8 | 23,29 | S122            | 160M          | 6    | 30000        | 9568           |
| 41,2        | 1669       | 1,8 | 35,20 | S122            | 132MA/132M    | 4    | 30000        | 9608           |
| 40,9        | 1587       | 1,3 | 71,07 | S123            | 132M/132SB    | 2    | 30000        | 9719           |
| 38,4        | 1809       | 1,7 | 25,26 | S142            | 160M          | 6    | 35000        | 18500          |
| 37,1        | 1872       | 1,7 | 26,15 | S122            | 160M          | 6    | 30000        | 9790           |
| 37,1        | 1752       | 1,3 | 78,46 | S123            | 132M/132SB    | 2    | 30000        | 9920           |
| 36,8        | 1867       | 2,4 | 39,38 | S142            | 132MA/132M    | 4    | 35000        | 18500          |
| 36,2        | 1862       | 3,4 | 40,10 | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 35,8        | 1941       | 3,3 | 27,11 | S152            | 160M          | 6    | 40000        | 19400          |
| 35,3        | 1947       | 1,5 | 41,07 | S122            | 132MA/132M    | 4    | 30000        | 9902           |
| 34,2        | 2029       | 1,7 | 28,33 | S142            | 160M          | 6    | 35000        | 18500          |
| 33,9        | 2048       | 1,5 | 28,60 | S122            | 160M          | 6    | 30000        | 9954           |
| 33,3        | 2067       | 1,5 | 43,60 | S122            | 132MA/132M    | 4    | 30000        | 10012          |
| 33,3        | 1948       | 1,2 | 87,27 | S123            | 132M/132SB    | 2    | 30000        | 10130          |
| 32,6        | 2130       | 3,3 | 29,75 | S152            | 160M          | 6    | 40000        | 19400          |
| 32,5        | 2116       | 1,1 | 44,63 | S122            | 132MA/132M    | 4    | 30000        | 10053          |
| 32,4        | 2078       | 3,4 | 44,76 | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 31,8        | 2185       | 1,4 | 30,51 | S122            | 160M          | 6    | 30000        | 10069          |
| 31,7        | 2125       | 1,9 | 45,77 | S143            | 132MA/132M    | 4    | 35000        | 18500          |
| 30,3        | 2295       | 1,7 | 32,05 | S142            | 160M          | 6    | 35000        | 18500          |
| 29,6        | 2345       | 1,3 | 32,76 | S122            | 160M          | 6    | 30000        | 10189          |
| 29,6        | 2325       | 1,0 | 49,04 | S122            | 132MA/132M    | 4    | 30000        | 10217          |

## 5.1 S GEARED MOTORS (50Hz)

## 7,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 29,0        | 2394       | 1,3 | 33,44  | S122            | 160M          | 6    | 30000        | 10224          |
| 28,7        | 2419       | 3,3 | 33,79  | S152            | 160M          | 6    | 40000        | 19400          |
| 28,4        | 2367       | 1,9 | 50,97  | S143            | 132MA/132M    | 4    | 35000        | 18500          |
| 28,3        | 2450       | 1,7 | 34,22  | S142            | 160M          | 6    | 35000        | 18500          |
| 28,2        | 2386       | 3,3 | 51,38  | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 27,6        | 2520       | 1,2 | 35,20  | S122            | 160M          | 6    | 30000        | 10306          |
| 27,0        | 2549       | 1,0 | 53,75  | S122            | 132MA/132M    | 4    | 30000        | 10367          |
| 25,7        | 2619       | 3,2 | 56,39  | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 25,4        | 2655       | 1,8 | 57,17  | S143            | 132MA/132M    | 4    | 35000        | 18500          |
| 25,0        | 2781       | 2,9 | 38,84  | S152            | 160M          | 6    | 40000        | 19400          |
| 24,6        | 2819       | 1,7 | 39,38  | S142            | 160M          | 6    | 35000        | 18500          |
| 24,2        | 2811       | 2,3 | 40,10  | S153            | 160M          | 6    | 40000        | 19400          |
| 23,6        | 2940       | 1,1 | 41,07  | S122            | 160M          | 6    | 30000        | 10531          |
| 22,6        | 2974       | 3,0 | 64,05  | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 22,5        | 2990       | 0,9 | 64,84  | S123            | 132MA/132M    | 4    | 30000        | 10696          |
| 22,4        | 3003       | 1,6 | 64,68  | S143            | 132MA/132M    | 4    | 35000        | 18500          |
| 22,0        | 3130       | 1,0 | 66,00  | S122            | 132MA/132M    | 4    | 30000        | 10658          |
| 21,7        | 3138       | 2,3 | 44,76  | S153            | 160M          | 6    | 40000        | 19400          |
| 21,2        | 3208       | 1,3 | 45,77  | S143            | 160M          | 6    | 35000        | 18500          |
| 21,0        | 3206       | 1,5 | 69,06  | S143            | 132MA/132M    | 4    | 35000        | 18500          |
| 19,7        | 3419       | 2,3 | 73,63  | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 19,0        | 3573       | 1,3 | 50,97  | S143            | 160M          | 6    | 35000        | 18500          |
| 18,9        | 3602       | 2,3 | 51,38  | S153            | 160M          | 6    | 40000        | 19400          |
| 18,2        | 3689       | 1,1 | 79,45  | S143            | 132MA/132M    | 4    | 35000        | 18500          |
| 17,2        | 3953       | 2,2 | 56,39  | S153            | 160M          | 6    | 40000        | 19400          |
| 17,0        | 4008       | 1,2 | 57,17  | S143            | 160M          | 6    | 35000        | 18500          |
| 16,6        | 4047       | 1,8 | 87,16  | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 15,1        | 4490       | 2,1 | 64,05  | S153            | 160M          | 6    | 40000        | 19400          |
| 15,0        | 4534       | 1,1 | 64,68  | S143            | 160M          | 6    | 35000        | 18500          |
| 14,9        | 4517       | 1,8 | 97,27  | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 14,7        | 4588       | 1,0 | 98,81  | S143            | 132MA/132M    | 4    | 35000        | 18500          |
| 14,0        | 4841       | 1,1 | 69,06  | S143            | 160M          | 6    | 35000        | 18500          |
| 13,2        | 5110       | 0,9 | 110,05 | S143            | 132MA/132M    | 4    | 35000        | 18500          |
| 13,2        | 5161       | 1,6 | 73,63  | S153            | 160M          | 6    | 40000        | 19400          |
| 13,0        | 5185       | 1,8 | 111,67 | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 11,8        | 5691       | 1,7 | 122,57 | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 11,1        | 6110       | 1,2 | 87,16  | S153            | 160M          | 6    | 40000        | 19400          |
| 10,4        | 6464       | 1,4 | 139,21 | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 10,0        | 6819       | 1,2 | 97,27  | S153            | 160M          | 6    | 40000        | 19400          |
| 9,4         | 7151       | 1,0 | 154,02 | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 9,1         | 7430       | 1,1 | 160,02 | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 8,7         | 7829       | 1,2 | 111,67 | S153            | 160M          | 6    | 40000        | 19400          |

## 5.1 S GEARED MOTORS (50Hz)

## 7,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|---------------|------|--------------|----------------|
| 8,2         | 8210       | 1,0 | 176,81 | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 7,9         | 8592       | 1,2 | 122,57 | S153            | 160M          | 6    | 40000        | 19400          |
| 7,5         | 9011       | 1,0 | 194,06 | S153            | 132MA/132M    | 4    | 40000        | 19400          |
| 7,0         | 9759       | 1,0 | 139,21 | S153            | 160M          | 6    | 40000        | 19400          |
| 6,6         | 10235      | 0,9 | 220,42 | S153            | 132MA/132M    | 4    | 40000        | 19400          |

## 9,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------|------|--------------|----------------|
| 396,5       | 205        | 2,0 | 7,34  | S082            | 132M/132MA    | 2    | 10195        | 2913           |
| 360,9       | 226        | 2,0 | 8,06  | S082            | 132M/132MA    | 2    | 10471        | 2992           |
| 360,9       | 226        | 2,8 | 8,06  | S102            | 132M/132MA    | 2    | 13058        | 3731           |
| 328,9       | 247        | 2,7 | 8,85  | S102            | 132M/132MA    | 2    | 13426        | 3836           |
| 292,6       | 278        | 1,8 | 9,94  | S082            | 132M/132MA    | 2    | 11101        | 3172           |
| 267,4       | 304        | 2,3 | 10,88 | S102            | 132M/132MA    | 2    | 14274        | 4078           |
| 250,7       | 325        | 1,6 | 11,61 | S082            | 132M/132MA    | 2    | 11577        | 3308           |
| 228,2       | 357        | 1,6 | 12,75 | S082            | 132M/132MA    | 2    | 11871        | 3392           |
| 228,2       | 357        | 2,1 | 12,75 | S102            | 132M/132MA    | 2    | 14946        | 4270           |
| 208,0       | 391        | 2,3 | 13,99 | S102            | 132M/132MA    | 2    | 15349        | 4385           |
| 207,2       | 393        | 1,5 | 14,04 | S082            | 132M/132MA    | 2    | 12174        | 3478           |
| 198,2       | 426        | 3,3 | 7,32  | S142            | 132MB         | 4    | 34533        | 18500          |
| 197,6       | 427        | 1,3 | 7,34  | S082            | 132MB         | 4    | 12275        | 3507           |
| 188,6       | 432        | 1,3 | 15,43 | S082            | 132M/132MA    | 2    | 12471        | 3563           |
| 188,6       | 432        | 2,2 | 15,43 | S102            | 132M/132MA    | 2    | 15782        | 4509           |
| 185,1       | 440        | 1,3 | 15,73 | S082            | 132M/132MA    | 2    | 12532        | 3580           |
| 179,8       | 469        | 1,3 | 8,06  | S082            | 132MB         | 4    | 12568        | 3591           |
| 179,8       | 469        | 1,8 | 8,06  | S102            | 132MB         | 4    | 15952        | 4558           |
| 176,7       | 477        | 3,3 | 8,21  | S142            | 132MB         | 4    | 35000        | 18500          |
| 169,1       | 481        | 2,0 | 17,21 | S102            | 132M/132MA    | 2    | 16274        | 4650           |
| 168,3       | 484        | 1,2 | 17,29 | S082            | 132M/132MA    | 2    | 12833        | 3667           |
| 163,9       | 515        | 1,7 | 8,85  | S102            | 132MB         | 4    | 16368        | 4677           |
| 156,2       | 540        | 3,3 | 9,29  | S142            | 132MB         | 4    | 35000        | 18500          |
| 153,2       | 531        | 2,0 | 19,00 | S102            | 132M/132MA    | 2    | 16725        | 4779           |
| 152,9       | 532        | 1,1 | 19,03 | S082            | 132M/132MA    | 2    | 13136        | 3753           |
| 146,3       | 577        | 3,3 | 9,91  | S142            | 132MB         | 4    | 35000        | 18500          |
| 145,8       | 578        | 1,1 | 9,94  | S082            | 132MB         | 4    | 13220        | 3777           |
| 144,5       | 563        | 1,0 | 20,14 | S082            | 132M/132MA    | 2    | 13315        | 3804           |
| 139,7       | 583        | 1,8 | 20,83 | S102            | 132M/132MA    | 2    | 17150        | 4900           |
| 136,9       | 594        | 3,5 | 21,25 | S122            | 132M/132MA    | 2    | 24623        | 7035           |
| 133,2       | 633        | 1,5 | 10,88 | S102            | 132MB         | 4    | 17314        | 4947           |
| 131,5       | 619        | 1,7 | 22,13 | S102            | 132M/132MA    | 2    | 17431        | 4980           |
| 130,1       | 626        | 3,4 | 22,37 | S122            | 132M/132MA    | 2    | 24963        | 7132           |

## 5.1 S GEARED MOTORS (50Hz)

## 9,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size       | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|------------|-------|------|--------------|----------------|
| 127,1       | 663        | 3,1 | 11,41 | S142            | 132MB      |       | 4    | 35000        | 18500          |
| 124,9       | 675        | 1,0 | 11,61 | S082            | 132MB      |       | 4    | 13693        | 3912           |
| 124,9       | 651        | 3,3 | 23,29 | S122            | 132M/132MA |       | 2    | 25233        | 7209           |
| 119,9       | 679        | 1,7 | 24,28 | S102            | 132M/132MA |       | 2    | 17867        | 5105           |
| 113,7       | 742        | 1,0 | 12,75 | S082            | 132MB      |       | 4    | 13976        | 3993           |
| 113,7       | 742        | 1,3 | 12,75 | S102            | 132MB      |       | 4    | 18048        | 5157           |
| 113,2       | 745        | 2,6 | 12,81 | S142            | 132MB      |       | 4    | 35000        | 18500          |
| 111,3       | 732        | 3,1 | 26,15 | S122            | 132M/132MA |       | 2    | 26010        | 7431           |
| 110,5       | 737        | 1,5 | 26,33 | S102            | 132M/132MA |       | 2    | 18252        | 5215           |
| 103,6       | 814        | 1,5 | 13,99 | S102            | 132MB      |       | 4    | 18482        | 5281           |
| 103,2       | 817        | 0,9 | 14,04 | S082            | 132MB      |       | 4    | 14261        | 4075           |
| 101,7       | 800        | 2,8 | 28,60 | S122            | 132M/132MA |       | 2    | 26613        | 7604           |
| 101,6       | 830        | 2,1 | 14,27 | S142            | 132MB      |       | 4    | 35000        | 18500          |
| 97,4        | 835        | 1,3 | 29,87 | S102            | 132M/132MA |       | 2    | 18851        | 5386           |
| 95,4        | 853        | 2,6 | 30,51 | S122            | 132M/132MA |       | 2    | 27050        | 7729           |
| 94,0        | 897        | 1,4 | 15,43 | S102            | 132MB      |       | 4    | 18941        | 5412           |
| 90,6        | 931        | 2,1 | 16,01 | S142            | 132MB      |       | 4    | 35000        | 18500          |
| 89,8        | 906        | 1,2 | 32,40 | S102            | 132M/132MA |       | 2    | 19239        | 5497           |
| 88,8        | 916        | 2,5 | 32,76 | S122            | 132M/132MA |       | 2    | 27530        | 7866           |
| 87,0        | 935        | 2,4 | 33,44 | S122            | 132M/132MA |       | 2    | 27670        | 7906           |
| 84,2        | 1001       | 1,3 | 17,21 | S102            | 132MB      |       | 4    | 19454        | 5558           |
| 83,4        | 976        | 1,1 | 34,91 | S102            | 132M/132MA |       | 2    | 19595        | 5599           |
| 82,7        | 985        | 2,3 | 35,20 | S122            | 132M/132MA |       | 2    | 28016        | 8004           |
| 80,1        | 1053       | 2,1 | 18,11 | S142            | 132MB      |       | 4    | 35000        | 18500          |
| 76,3        | 1105       | 1,3 | 19,00 | S102            | 132MB      |       | 4    | 19915        | 5690           |
| 76,0        | 1071       | 1,1 | 38,30 | S102            | 132M/132MA |       | 2    | 20036        | 5725           |
| 75,0        | 1125       | 2,1 | 19,33 | S142            | 132MB      |       | 4    | 35000        | 18500          |
| 70,9        | 1149       | 2,0 | 41,07 | S122            | 132M/132MA |       | 2    | 29051        | 8300           |
| 69,6        | 1212       | 1,2 | 20,83 | S102            | 132MB      |       | 4    | 20340        | 5811           |
| 68,2        | 1236       | 2,3 | 21,25 | S122            | 132MB      |       | 4    | 29138        | 8325           |
| 66,7        | 1219       | 1,8 | 43,60 | S122            | 132M/132MA |       | 2    | 29448        | 8414           |
| 65,5        | 1287       | 1,1 | 22,13 | S102            | 132MB      |       | 4    | 20617        | 5891           |
| 65,2        | 1248       | 1,4 | 44,63 | S122            | 132M/132MA |       | 2    | 29603        | 8458           |
| 65,2        | 1294       | 1,9 | 22,24 | S142            | 132MB      |       | 4    | 35000        | 18500          |
| 64,8        | 1301       | 2,2 | 22,37 | S122            | 132MB      |       | 4    | 29468        | 8420           |
| 62,3        | 1355       | 2,1 | 23,29 | S122            | 132MB      |       | 4    | 29728        | 8494           |
| 59,7        | 1412       | 1,1 | 24,28 | S102            | 132MB      |       | 4    | 21037        | 6011           |
| 59,3        | 1372       | 1,3 | 49,04 | S122            | 132M/132MA |       | 2    | 30000        | 8634           |
| 57,4        | 1469       | 1,4 | 25,26 | S142            | 132MB      |       | 4    | 35000        | 18500          |
| 55,4        | 1521       | 2,0 | 26,15 | S122            | 132MB      |       | 4    | 30000        | 8702           |
| 55,1        | 1532       | 1,0 | 26,33 | S102            | 132MB      |       | 4    | 21399        | 6114           |
| 54,1        | 1503       | 1,3 | 53,75 | S122            | 132M/132MA |       | 2    | 30000        | 8803           |

## 5.1 S GEARED MOTORS (50Hz)

## 9,20 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Size       | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|------------|---------------|--------------|----------------|
| 51,2        | 1648       | 1,4 | 28,33  | S142            | 132MB      | 4             | 35000        | 18500          |
| 50,7        | 1664       | 1,8 | 28,60  | S122            | 132MB      | 4             | 30000        | 8858           |
| 47,5        | 1775       | 1,7 | 30,51  | S122            | 132MB      | 4             | 30000        | 8967           |
| 45,2        | 1864       | 1,4 | 32,05  | S142            | 132MB      | 4             | 35000        | 18500          |
| 44,9        | 1776       | 1,1 | 64,84  | S123            | 132M/132MA | 2             | 30000        | 9174           |
| 44,3        | 1905       | 1,6 | 32,76  | S122            | 132MB      | 4             | 30000        | 9084           |
| 44,1        | 1846       | 1,2 | 66,00  | S122            | 132M/132MA | 2             | 30000        | 9163           |
| 43,4        | 1945       | 1,5 | 33,44  | S122            | 132MB      | 4             | 30000        | 9117           |
| 42,4        | 1991       | 1,4 | 34,22  | S142            | 132MB      | 4             | 35000        | 18500          |
| 41,2        | 2048       | 1,5 | 35,20  | S122            | 132MB      | 4             | 30000        | 9198           |
| 40,9        | 1946       | 1,0 | 71,07  | S123            | 132M/132MA | 2             | 30000        | 9330           |
| 37,1        | 2149       | 1,0 | 78,46  | S123            | 132M/132MA | 2             | 30000        | 9491           |
| 36,8        | 2290       | 1,9 | 39,38  | S142            | 132MB      | 4             | 35000        | 18500          |
| 36,2        | 2284       | 2,7 | 40,10  | S153            | 132MB      | 4             | 40000        | 19400          |
| 35,3        | 2389       | 1,3 | 41,07  | S122            | 132MB      | 4             | 30000        | 9424           |
| 33,3        | 2536       | 1,2 | 43,60  | S122            | 132MB      | 4             | 30000        | 9504           |
| 32,5        | 2596       | 0,9 | 44,63  | S122            | 132MB      | 4             | 30000        | 9534           |
| 32,4        | 2549       | 2,7 | 44,76  | S153            | 132MB      | 4             | 40000        | 19400          |
| 31,7        | 2607       | 1,5 | 45,77  | S143            | 132MB      | 4             | 35000        | 18500          |
| 28,4        | 2903       | 1,5 | 50,97  | S143            | 132MB      | 4             | 35000        | 18500          |
| 28,2        | 2927       | 2,7 | 51,38  | S153            | 132MB      | 4             | 40000        | 19400          |
| 25,7        | 3212       | 2,6 | 56,39  | S153            | 132MB      | 4             | 40000        | 19400          |
| 25,4        | 3256       | 1,5 | 57,17  | S143            | 132MB      | 4             | 35000        | 18500          |
| 22,6        | 3648       | 2,4 | 64,05  | S153            | 132MB      | 4             | 40000        | 19400          |
| 22,4        | 3684       | 1,3 | 64,68  | S143            | 132MB      | 4             | 35000        | 18500          |
| 21,0        | 3933       | 1,2 | 69,06  | S143            | 132MB      | 4             | 35000        | 18500          |
| 19,7        | 4194       | 1,9 | 73,63  | S153            | 132MB      | 4             | 40000        | 19400          |
| 18,2        | 4525       | 0,9 | 79,45  | S143            | 132MB      | 4             | 35000        | 18500          |
| 16,6        | 4964       | 1,4 | 87,16  | S153            | 132MB      | 4             | 40000        | 19400          |
| 14,9        | 5541       | 1,4 | 97,27  | S153            | 132MB      | 4             | 40000        | 19400          |
| 13,0        | 6361       | 1,4 | 111,67 | S153            | 132MB      | 4             | 40000        | 19400          |
| 11,8        | 6981       | 1,4 | 122,57 | S153            | 132MB      | 4             | 40000        | 19400          |
| 10,4        | 7929       | 1,2 | 139,21 | S153            | 132MB      | 4             | 40000        | 19400          |

## 11,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i    | Gear<br>reducer | Size                 | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|------|-----------------|----------------------|---------------|--------------|----------------|
| 396,5       | 245        | 1,7 | 7,34 | S082            | 132MB <sup>(1)</sup> | 2             | 10063        | 2875           |
| 360,9       | 270        | 1,7 | 8,06 | S082            | 132MB <sup>(1)</sup> | 2             | 10326        | 2950           |
| 360,9       | 270        | 2,4 | 8,06 | S102            | 132MB <sup>(1)</sup> | 2             | 12944        | 3698           |
| 349,7       | 288        | 3,5 | 4,12 | S142            | 132MC <sup>(1)</sup> | 4             | 29139        | 16651          |
| 328,9       | 296        | 2,3 | 8,85 | S102            | 132MB <sup>(1)</sup> | 2             | 13300        | 3800           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 11,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                 | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|-------|------|--------------|----------------|
| 314,0       | 321        | 3,5 | 4,59  | S142            | 132MC <sup>(1)</sup> |       | 4    | 30017        | 17153          |
| 292,6       | 333        | 1,5 | 9,94  | S082            | 132MB <sup>(1)</sup> |       | 2    | 10922        | 3121           |
| 279,9       | 360        | 3,5 | 5,14  | S142            | 132MC <sup>(1)</sup> |       | 4    | 30966        | 17695          |
| 267,4       | 364        | 2,0 | 10,88 | S102            | 132MB <sup>(1)</sup> |       | 2    | 14119        | 4034           |
| 250,7       | 388        | 1,4 | 11,61 | S082            | 132MB <sup>(1)</sup> |       | 2    | 11369        | 3248           |
| 247,5       | 408        | 3,5 | 5,82  | S142            | 132MC <sup>(1)</sup> |       | 4    | 31997        | 18284          |
| 235,6       | 432        | 3,4 | 4,12  | S142            | 160L                 |       | 6    | 32378        | 18500          |
| 231,8       | 435        | 3,5 | 6,21  | S142            | 132MC <sup>(1)</sup> |       | 4    | 32549        | 18500          |
| 228,2       | 426        | 1,3 | 12,75 | S082            | 132MB <sup>(1)</sup> |       | 2    | 11641        | 3326           |
| 228,2       | 426        | 1,8 | 12,75 | S102            | 132MB <sup>(1)</sup> |       | 2    | 14765        | 4218           |
| 211,5       | 482        | 3,4 | 4,59  | S142            | 160L                 |       | 6    | 33285        | 18500          |
| 208,0       | 468        | 1,9 | 13,99 | S102            | 132MB <sup>(1)</sup> |       | 2    | 15150        | 4329           |
| 207,2       | 470        | 1,2 | 14,04 | S082            | 132MB <sup>(1)</sup> |       | 2    | 11922        | 3406           |
| 196,8       | 512        | 2,7 | 7,32  | S142            | 132MC/160MA/160S     |       | 4    | 33935        | 18500          |
| 196,2       | 514        | 1,1 | 7,34  | S082            | 132MC <sup>(1)</sup> |       | 4    | 12021        | 3434           |
| 188,6       | 516        | 1,1 | 15,43 | S082            | 132MB <sup>(1)</sup> |       | 2    | 12194        | 3484           |
| 188,6       | 516        | 1,8 | 15,43 | S102            | 132MB <sup>(1)</sup> |       | 2    | 15563        | 4447           |
| 188,6       | 540        | 3,4 | 5,14  | S142            | 160L                 |       | 6    | 34255        | 18500          |
| 185,1       | 526        | 1,1 | 15,73 | S082            | 132MB <sup>(1)</sup> |       | 2    | 12249        | 3500           |
| 178,6       | 565        | 1,1 | 8,06  | S082            | 132MC <sup>(1)</sup> |       | 4    | 12286        | 3510           |
| 178,6       | 565        | 1,5 | 8,06  | S102            | 132MC/160MA/160S     |       | 4    | 15743        | 4498           |
| 175,4       | 575        | 2,7 | 8,21  | S142            | 132MC/160MA/160S     |       | 4    | 34910        | 18500          |
| 169,8       | 594        | 2,5 | 8,48  | S122            | 160MA/160S           |       | 4    | 22785        | 6510           |
| 169,1       | 576        | 1,7 | 17,21 | S102            | 132MB <sup>(1)</sup> |       | 2    | 16029        | 4580           |
| 166,7       | 611        | 3,4 | 5,82  | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 162,8       | 620        | 1,5 | 8,85  | S102            | 132MC/160MA/160S     |       | 4    | 16136        | 4610           |
| 156,1       | 652        | 3,4 | 6,21  | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 155,1       | 650        | 2,7 | 9,29  | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 154,9       | 651        | 2,6 | 9,30  | S122            | 160MA/160S           |       | 4    | 23338        | 6668           |
| 153,2       | 635        | 1,7 | 19,00 | S102            | 132MB <sup>(1)</sup> |       | 2    | 16455        | 4701           |
| 145,3       | 694        | 2,7 | 9,91  | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 144,8       | 696        | 0,9 | 9,94  | S082            | 132MC <sup>(1)</sup> |       | 4    | 12867        | 3676           |
| 140,7       | 717        | 2,4 | 10,24 | S122            | 160MA/160S           |       | 4    | 23923        | 6835           |
| 139,7       | 697        | 1,5 | 20,83 | S102            | 132MB <sup>(1)</sup> |       | 2    | 16854        | 4815           |
| 136,9       | 711        | 3,0 | 21,25 | S122            | 132MB <sup>(1)</sup> |       | 2    | 24183        | 6909           |
| 132,6       | 768        | 2,6 | 7,32  | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 132,3       | 762        | 1,2 | 10,88 | S102            | 132MC/160MA/160S     |       | 4    | 17022        | 4863           |
| 131,5       | 740        | 1,4 | 22,13 | S102            | 132MB <sup>(1)</sup> |       | 2    | 17117        | 4891           |
| 130,1       | 748        | 2,8 | 22,37 | S122            | 132MB <sup>(1)</sup> |       | 2    | 24500        | 7000           |
| 126,2       | 799        | 2,6 | 11,41 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 126,1       | 800        | 2,4 | 11,42 | S122            | 160MA/160S           |       | 4    | 24585        | 7024           |
| 124,9       | 779        | 2,8 | 23,29 | S122            | 132MB <sup>(1)</sup> |       | 2    | 24750        | 7072           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 11,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                 | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|-------|------|--------------|----------------|
| 120,3       | 847        | 1,1 | 8,06  | S102            | 160L                 |       | 6    | 17408        | 4974           |
| 119,9       | 812        | 1,4 | 24,28 | S102            | 132MB <sup>(1)</sup> |       | 2    | 17522        | 5006           |
| 118,2       | 862        | 2,6 | 8,21  | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 115,5       | 873        | 3,8 | 12,46 | S152            | 160MA/160S           |       | 4    | 40000        | 19400          |
| 114,4       | 891        | 1,8 | 8,48  | S122            | 160L                 |       | 6    | 25148        | 7185           |
| 114,1       | 884        | 2,5 | 12,63 | S122            | 160MA/160S           |       | 4    | 25197        | 7199           |
| 112,9       | 893        | 1,1 | 12,75 | S102            | 132MC/160MA/160S     |       | 4    | 17701        | 5057           |
| 112,4       | 897        | 2,1 | 12,81 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 111,3       | 875        | 2,6 | 26,15 | S122            | 132MB <sup>(1)</sup> |       | 2    | 25468        | 7276           |
| 110,5       | 881        | 1,3 | 26,33 | S102            | 132MB <sup>(1)</sup> |       | 2    | 17878        | 5108           |
| 109,6       | 929        | 1,0 | 8,85  | S102            | 160L                 |       | 6    | 17804        | 5087           |
| 104,5       | 975        | 2,6 | 9,29  | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 104,3       | 976        | 1,8 | 9,30  | S122            | 160L                 |       | 6    | 25700        | 7343           |
| 104,1       | 969        | 2,5 | 13,84 | S122            | 160MA/160S           |       | 4    | 25753        | 7358           |
| 103,5       | 974        | 3,8 | 13,91 | S152            | 160MA/160S           |       | 4    | 40000        | 19400          |
| 102,9       | 980        | 1,2 | 13,99 | S102            | 132MC/160MA/160S     |       | 4    | 18098        | 5171           |
| 101,7       | 956        | 2,4 | 28,60 | S122            | 132MB <sup>(1)</sup> |       | 2    | 26020        | 7434           |
| 100,9       | 999        | 1,8 | 14,27 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 97,8        | 1041       | 2,6 | 9,91  | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 97,4        | 999        | 1,1 | 29,87 | S102            | 132MB <sup>(1)</sup> |       | 2    | 18427        | 5265           |
| 95,4        | 1020       | 2,2 | 30,51 | S122            | 132MB <sup>(1)</sup> |       | 2    | 26417        | 7548           |
| 94,7        | 1075       | 1,7 | 10,24 | S122            | 160L                 |       | 6    | 26276        | 7508           |
| 93,3        | 1081       | 1,2 | 15,43 | S102            | 132MC <sup>(1)</sup> |       | 4    | 18515        | 5290           |
| 90,2        | 1118       | 3,8 | 15,97 | S152            | 160MA/160S           |       | 4    | 40000        | 19400          |
| 90,0        | 1121       | 1,7 | 16,01 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 89,8        | 1084       | 1,0 | 32,40 | S102            | 132MB <sup>(1)</sup> |       | 2    | 18779        | 5365           |
| 88,8        | 1095       | 2,1 | 32,76 | S122            | 132MB <sup>(1)</sup> |       | 2    | 26850        | 7672           |
| 87,0        | 1118       | 2,0 | 33,44 | S122            | 132MB <sup>(1)</sup> |       | 2    | 26977        | 7708           |
| 85,0        | 1199       | 1,7 | 11,42 | S122            | 160L                 |       | 6    | 26918        | 7691           |
| 85,0        | 1198       | 2,5 | 11,41 | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 84,7        | 1190       | 2,2 | 16,99 | S122            | 160MA/160S           |       | 4    | 26979        | 7708           |
| 83,7        | 1205       | 1,1 | 17,21 | S102            | 132MC/160MA/160S     |       | 4    | 18974        | 5421           |
| 82,7        | 1177       | 1,9 | 35,20 | S122            | 132MB <sup>(1)</sup> |       | 2    | 27286        | 7796           |
| 82,2        | 1227       | 3,8 | 17,53 | S152            | 160MA/160S           |       | 4    | 40000        | 19400          |
| 79,5        | 1268       | 1,7 | 18,11 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 77,8        | 1309       | 2,7 | 12,46 | S152            | 160L                 |       | 6    | 40000        | 19400          |
| 76,8        | 1326       | 1,7 | 12,63 | S122            | 160L                 |       | 6    | 27500        | 7857           |
| 75,8        | 1331       | 1,1 | 19,00 | S102            | 132MC <sup>(1)</sup> |       | 4    | 19382        | 5538           |
| 75,7        | 1345       | 2,0 | 12,81 | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 74,5        | 1354       | 1,7 | 19,33 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 72,3        | 1394       | 3,8 | 19,91 | S152            | 160MA/160S           |       | 4    | 40000        | 19400          |
| 70,9        | 1373       | 1,6 | 41,07 | S122            | 132MB <sup>(1)</sup> |       | 2    | 28199        | 8057           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 11,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                 | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|-------|------|--------------|----------------|
| 70,1        | 1453       | 1,7 | 13,84 | S122            | 160L                 |       | 6    | 28017        | 8005           |
| 69,7        | 1461       | 2,7 | 13,91 | S152            | 160L                 |       | 6    | 40000        | 19400          |
| 69,1        | 1459       | 1,0 | 20,83 | S102            | 132MC <sup>(1)</sup> |       | 4    | 19752        | 5644           |
| 68,0        | 1499       | 1,7 | 14,27 | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 67,8        | 1488       | 1,9 | 21,25 | S122            | 132MC/160MA/160S     |       | 4    | 28260        | 8074           |
| 66,7        | 1458       | 1,5 | 43,60 | S122            | 132MB <sup>(1)</sup> |       | 2    | 28544        | 8156           |
| 65,2        | 1493       | 1,2 | 44,63 | S122            | 132MB <sup>(1)</sup> |       | 2    | 28678        | 8194           |
| 65,1        | 1549       | 0,9 | 22,13 | S102            | 132MC <sup>(1)</sup> |       | 4    | 19991        | 5712           |
| 64,7        | 1558       | 1,6 | 22,24 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 64,4        | 1566       | 1,8 | 22,37 | S122            | 132MC/160MA/160S     |       | 4    | 28542        | 8155           |
| 62,9        | 1602       | 3,8 | 22,88 | S152            | 160MA/160S           |       | 4    | 40000        | 19400          |
| 61,8        | 1631       | 1,8 | 23,29 | S122            | 132MC/160MA/160S     |       | 4    | 28761        | 8217           |
| 60,7        | 1677       | 2,7 | 15,97 | S152            | 160L                 |       | 6    | 40000        | 19400          |
| 60,6        | 1681       | 1,7 | 16,01 | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 59,3        | 1640       | 1,1 | 49,04 | S122            | 132MB <sup>(1)</sup> |       | 2    | 29203        | 8344           |
| 57,1        | 1784       | 1,5 | 16,99 | S122            | 160L                 |       | 6    | 29113        | 8318           |
| 57,0        | 1769       | 1,2 | 25,26 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 55,3        | 1840       | 2,7 | 17,53 | S152            | 160L                 |       | 6    | 40000        | 19400          |
| 55,1        | 1832       | 1,6 | 26,15 | S122            | 132MC/160MA/160S     |       | 4    | 29364        | 8390           |
| 54,1        | 1798       | 1,1 | 53,75 | S122            | 132MB <sup>(1)</sup> |       | 2    | 29695        | 8484           |
| 53,6        | 1901       | 1,7 | 18,11 | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 53,1        | 1898       | 3,2 | 27,11 | S152            | 160MA/160S           |       | 4    | 40000        | 19400          |
| 50,8        | 1984       | 1,2 | 28,33 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 50,3        | 2003       | 1,5 | 28,60 | S122            | 132MC/160MA/160S     |       | 4    | 29802        | 8515           |
| 50,2        | 2030       | 1,7 | 19,33 | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 48,7        | 2090       | 2,7 | 19,91 | S152            | 160L                 |       | 6    | 40000        | 19400          |
| 48,4        | 2083       | 3,2 | 29,75 | S152            | 160MA/160S           |       | 4    | 40000        | 19400          |
| 47,2        | 2137       | 1,4 | 30,51 | S122            | 132MC/160MA/160S     |       | 4    | 30000        | 8600           |
| 45,6        | 2231       | 1,3 | 21,25 | S122            | 160L                 |       | 6    | 30000        | 8619           |
| 44,9        | 2245       | 1,2 | 32,05 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 44,1        | 2207       | 1,0 | 66,00 | S122            | 132MB <sup>(1)</sup> |       | 2    | 30000        | 8772           |
| 44,0        | 2294       | 1,3 | 32,76 | S122            | 132MC/160MA/160S     |       | 4    | 30000        | 8689           |
| 43,6        | 2336       | 1,5 | 22,24 | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 43,4        | 2349       | 1,3 | 22,37 | S122            | 160L                 |       | 6    | 30000        | 8680           |
| 43,1        | 2342       | 1,3 | 33,44 | S122            | 132MC/160MA/160S     |       | 4    | 30000        | 8714           |
| 42,6        | 2366       | 3,2 | 33,79 | S152            | 160MA/160S           |       | 4    | 40000        | 19400          |
| 42,4        | 2403       | 2,7 | 22,88 | S152            | 160L                 |       | 6    | 40000        | 19400          |
| 42,1        | 2397       | 1,2 | 34,22 | S142            | 132MC/160MA/160S     |       | 4    | 35000        | 18500          |
| 41,6        | 2446       | 1,2 | 23,29 | S122            | 160L                 |       | 6    | 30000        | 8726           |
| 40,9        | 2465       | 1,2 | 35,20 | S122            | 132MC/160MA/160S     |       | 4    | 30000        | 8772           |
| 38,4        | 2653       | 1,1 | 25,26 | S142            | 160L                 |       | 6    | 35000        | 18500          |
| 37,1        | 2746       | 1,1 | 26,15 | S122            | 160L                 |       | 6    | 30000        | 8844           |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 11,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i      | Gear<br>reducer | Motor<br>Size        | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|--------|-----------------|----------------------|------|--------------|----------------|
| 37,1        | 2720       | 2,8 | 38,84  | S152            | 160MA/160S           | 4    | 40000        | 19400          |
| 36,6        | 2758       | 1,6 | 39,38  | S142            | 132MC/160MA/160S     | 4    | 35000        | 18500          |
| 35,9        | 2750       | 2,3 | 40,10  | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |
| 35,8        | 2846       | 2,2 | 27,11  | S152            | 160L                 | 6    | 40000        | 19400          |
| 35,1        | 2876       | 1,0 | 41,07  | S122            | 132MC/160MA/160S     | 4    | 30000        | 8924           |
| 34,2        | 2975       | 1,1 | 28,33  | S142            | 160L                 | 6    | 35000        | 18500          |
| 33,9        | 3003       | 1,0 | 28,60  | S122            | 160L                 | 6    | 30000        | 8920           |
| 33,0        | 3053       | 1,0 | 43,60  | S122            | 132MC <sup>(1)</sup> | 4    | 30000        | 8973           |
| 32,6        | 3124       | 2,2 | 29,75  | S152            | 160L                 | 6    | 40000        | 19400          |
| 32,2        | 3069       | 2,3 | 44,76  | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |
| 31,8        | 3204       | 1,0 | 30,51  | S122            | 160L                 | 6    | 30000        | 8965           |
| 31,5        | 3138       | 1,3 | 45,77  | S143            | 132MC/160MA/160S     | 4    | 35000        | 18500          |
| 30,3        | 3366       | 1,1 | 32,05  | S142            | 160L                 | 6    | 35000        | 18500          |
| 29,6        | 3440       | 0,9 | 32,76  | S122            | 160L                 | 6    | 30000        | 9005           |
| 28,7        | 3548       | 2,2 | 33,79  | S152            | 160L                 | 6    | 40000        | 19400          |
| 28,3        | 3594       | 1,1 | 34,22  | S142            | 160L                 | 6    | 35000        | 18500          |
| 28,3        | 3495       | 1,3 | 50,97  | S143            | 132MC/160MA/160S     | 4    | 35000        | 18500          |
| 28,0        | 3523       | 2,2 | 51,38  | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |
| 25,5        | 3867       | 2,1 | 56,39  | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |
| 25,2        | 3921       | 1,2 | 57,17  | S143            | 132MC/160MA/160S     | 4    | 35000        | 18500          |
| 25,0        | 4078       | 2,0 | 38,84  | S152            | 160L                 | 6    | 40000        | 19400          |
| 24,6        | 4135       | 1,1 | 39,38  | S142            | 160L                 | 6    | 35000        | 18500          |
| 24,2        | 4123       | 1,6 | 40,10  | S153            | 160L                 | 6    | 40000        | 19400          |
| 22,5        | 4392       | 2,0 | 64,05  | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |
| 22,3        | 4435       | 1,1 | 64,68  | S143            | 132MC/160MA/160S     | 4    | 35000        | 18500          |
| 21,7        | 4602       | 1,6 | 44,76  | S153            | 160L                 | 6    | 40000        | 19400          |
| 20,9        | 4735       | 1,0 | 69,06  | S143            | 132MC/160MA/160S     | 4    | 35000        | 18500          |
| 19,6        | 5049       | 1,5 | 73,63  | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |
| 18,9        | 5283       | 1,6 | 51,38  | S153            | 160L                 | 6    | 40000        | 19400          |
| 17,2        | 5798       | 1,5 | 56,39  | S153            | 160L                 | 6    | 40000        | 19400          |
| 16,5        | 5977       | 1,2 | 87,16  | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |
| 15,1        | 6586       | 1,4 | 64,05  | S153            | 160L                 | 6    | 40000        | 19400          |
| 14,8        | 6671       | 1,2 | 97,27  | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |
| 13,2        | 7570       | 1,1 | 73,63  | S153            | 160L                 | 6    | 40000        | 19400          |
| 12,9        | 7658       | 1,2 | 111,67 | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |
| 11,7        | 8405       | 1,1 | 122,57 | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |
| 10,3        | 9546       | 1,0 | 139,21 | S153            | 132MC/160MA/160S     | 4    | 40000        | 19400          |

## 15,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i    | Gear<br>reducer | Motor<br>Size | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|------|-----------------|---------------|------|--------------|----------------|
| 358,2       | 384        | 3,6 | 4,12 | S142            | 160LA         | 4    | 28137        | 16078          |

<sup>(1)</sup> Available only with brake motor (TBS)

## 5.1 S GEARED MOTORS (50Hz)

## 15,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------------|---------------|--------------|----------------|
| 321,6       | 428        | 3,6 | 4,59  | S142            | 160LA               | 4             | 28921        | 16526          |
| 286,8       | 480        | 3,6 | 5,14  | S142            | 160LA               | 4             | 29758        | 17004          |
| 253,5       | 543        | 3,6 | 5,82  | S142            | 160LA               | 4             | 30654        | 17517          |
| 238,0       | 584        | 2,5 | 4,12  | S142            | 180L <sup>(2)</sup> | 6             | 31064        | 17751          |
| 237,4       | 579        | 3,6 | 6,21  | S142            | 160LA               | 4             | 31128        | 17787          |
| 213,7       | 650        | 2,5 | 4,59  | S142            | 180L <sup>(2)</sup> | 6             | 31832        | 18190          |
| 201,6       | 682        | 2,8 | 7,32  | S142            | 160LA               | 4             | 32297        | 18455          |
| 190,5       | 729        | 2,5 | 5,14  | S142            | 180L <sup>(2)</sup> | 6             | 32635        | 18500          |
| 182,9       | 752        | 1,1 | 8,06  | S102            | 160LA               | 4             | 15122        | 4321           |
| 179,7       | 765        | 2,8 | 8,21  | S142            | 160LA               | 4             | 33097        | 18500          |
| 173,9       | 791        | 1,9 | 8,48  | S122            | 160LA               | 4             | 21842        | 6241           |
| 171,6       | 809        | 3,8 | 5,71  | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 168,4       | 825        | 2,5 | 5,82  | S142            | 180L <sup>(2)</sup> | 6             | 33475        | 18500          |
| 166,7       | 825        | 1,1 | 8,85  | S102            | 160LA               | 4             | 15463        | 4418           |
| 158,9       | 866        | 2,8 | 9,29  | S142            | 160LA               | 4             | 33930        | 18500          |
| 158,6       | 867        | 2,0 | 9,30  | S122            | 160LA               | 4             | 22318        | 6376           |
| 157,7       | 881        | 2,5 | 6,21  | S142            | 180L <sup>(2)</sup> | 6             | 33908        | 18500          |
| 150,2       | 925        | 3,5 | 6,52  | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 148,8       | 924        | 2,8 | 9,91  | S142            | 160LA               | 4             | 34359        | 18500          |
| 144,1       | 955        | 1,8 | 10,24 | S122            | 160LA               | 4             | 22813        | 6518           |
| 135,5       | 1015       | 0,9 | 10,88 | S102            | 160LA               | 4             | 16217        | 4633           |
| 134,6       | 1032       | 3,3 | 7,28  | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 133,9       | 1037       | 1,9 | 7,32  | S142            | 180L <sup>(2)</sup> | 6             | 34940        | 18500          |
| 129,3       | 1063       | 2,6 | 11,41 | S142            | 160LA               | 4             | 35000        | 18500          |
| 129,2       | 1064       | 1,8 | 11,42 | S122            | 160LA               | 4             | 23364        | 6675           |
| 119,4       | 1163       | 1,9 | 8,21  | S142            | 180L <sup>(2)</sup> | 6             | 35000        | 18500          |
| 118,3       | 1162       | 2,8 | 12,46 | S152            | 160LA               | 4             | 40000        | 19400          |
| 117,3       | 1185       | 3,1 | 8,36  | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 116,8       | 1177       | 1,9 | 12,63 | S122            | 160LA               | 4             | 23862        | 6818           |
| 115,5       | 1202       | 1,3 | 8,48  | S122            | 180L <sup>(2)</sup> | 6             | 23871        | 6820           |
| 115,1       | 1195       | 2,2 | 12,81 | S142            | 160LA               | 4             | 35000        | 18500          |
| 106,8       | 1300       | 3,0 | 9,17  | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 106,6       | 1290       | 1,9 | 13,84 | S122            | 160LA               | 4             | 24305        | 6944           |
| 106,0       | 1297       | 2,8 | 13,91 | S152            | 160LA               | 4             | 40000        | 19400          |
| 105,5       | 1316       | 1,9 | 9,29  | S142            | 180L <sup>(2)</sup> | 6             | 35000        | 18500          |
| 105,4       | 1304       | 0,9 | 13,99 | S102            | 160LA               | 4             | 17093        | 4884           |
| 105,4       | 1318       | 1,4 | 9,30  | S122            | 180L <sup>(2)</sup> | 6             | 24308        | 6945           |
| 103,4       | 1331       | 1,8 | 14,27 | S142            | 160LA               | 4             | 35000        | 18500          |
| 98,9        | 1405       | 1,9 | 9,91  | S142            | 180L <sup>(2)</sup> | 6             | 35000        | 18500          |
| 95,7        | 1451       | 1,2 | 10,24 | S122            | 180L <sup>(2)</sup> | 6             | 24749        | 7071           |
| 94,1        | 1477       | 3,0 | 10,42 | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 92,4        | 1489       | 2,8 | 15,97 | S152            | 160LA               | 4             | 40000        | 19400          |

<sup>(2)</sup> With TBS brake motor, please contact our Technical Sales Support

## 5.1 S GEARED MOTORS (50Hz)

## 15,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------------|---------------|--------------|----------------|
| 92,2        | 1492       | 1,8 | 16,01 | S142            | 160LA               | 4             | 35000        | 18500          |
| 86,8        | 1584       | 1,6 | 16,99 | S122            | 160LA               | 4             | 25237        | 7211           |
| 85,9        | 1617       | 1,8 | 11,41 | S142            | 180L <sup>(2)</sup> | 6             | 35000        | 18500          |
| 85,8        | 1618       | 1,2 | 11,42 | S122            | 180L <sup>(2)</sup> | 6             | 25224        | 7207           |
| 84,2        | 1634       | 2,8 | 17,53 | S152            | 160LA               | 4             | 40000        | 19400          |
| 81,5        | 1688       | 1,8 | 18,11 | S142            | 160LA               | 4             | 35000        | 18500          |
| 78,6        | 1766       | 2,0 | 12,46 | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 77,6        | 1789       | 1,3 | 12,63 | S122            | 180L <sup>(2)</sup> | 6             | 25634        | 7324           |
| 76,5        | 1816       | 1,5 | 12,81 | S142            | 180L <sup>(2)</sup> | 6             | 35000        | 18500          |
| 76,3        | 1803       | 1,8 | 19,33 | S142            | 160LA               | 4             | 35000        | 18500          |
| 74,1        | 1856       | 2,8 | 19,91 | S152            | 160LA               | 4             | 40000        | 19400          |
| 70,8        | 1961       | 1,3 | 13,84 | S122            | 180L <sup>(2)</sup> | 6             | 25979        | 7423           |
| 70,5        | 1971       | 2,0 | 13,91 | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 69,4        | 1981       | 1,4 | 21,25 | S122            | 160LA               | 4             | 26125        | 7464           |
| 68,7        | 2023       | 1,3 | 14,27 | S142            | 180L <sup>(2)</sup> | 6             | 35000        | 18500          |
| 66,3        | 2074       | 1,6 | 22,24 | S142            | 160LA               | 4             | 35000        | 18500          |
| 65,9        | 2085       | 1,3 | 22,37 | S122            | 160LA               | 4             | 26304        | 7515           |
| 64,5        | 2133       | 2,8 | 22,88 | S152            | 160LA               | 4             | 40000        | 19400          |
| 63,3        | 2172       | 1,3 | 23,29 | S122            | 160LA               | 4             | 26438        | 7554           |
| 61,4        | 2263       | 2,0 | 15,97 | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 61,2        | 2269       | 1,2 | 16,01 | S142            | 180L <sup>(2)</sup> | 6             | 35000        | 18500          |
| 58,4        | 2355       | 1,2 | 25,26 | S142            | 160LA               | 4             | 35000        | 18500          |
| 57,7        | 2408       | 1,1 | 16,99 | S122            | 180L <sup>(2)</sup> | 6             | 26628        | 7608           |
| 56,4        | 2438       | 1,2 | 26,15 | S122            | 160LA               | 4             | 26778        | 7651           |
| 55,9        | 2484       | 2,0 | 17,53 | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 54,4        | 2527       | 2,4 | 27,11 | S152            | 160LA               | 4             | 40000        | 19400          |
| 54,1        | 2566       | 1,2 | 18,11 | S142            | 180L <sup>(2)</sup> | 6             | 35000        | 18500          |
| 52,1        | 2642       | 1,2 | 28,33 | S142            | 160LA               | 4             | 35000        | 18500          |
| 51,6        | 2666       | 1,1 | 28,60 | S122            | 160LA               | 4             | 26993        | 7712           |
| 50,7        | 2740       | 1,2 | 19,33 | S142            | 180L <sup>(2)</sup> | 6             | 35000        | 18500          |
| 49,6        | 2774       | 2,4 | 29,75 | S152            | 160LA               | 4             | 40000        | 19400          |
| 49,2        | 2821       | 2,0 | 19,91 | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |
| 48,3        | 2845       | 1,1 | 30,51 | S122            | 160LA               | 4             | 27118        | 7748           |
| 46,1        | 3012       | 1,0 | 21,25 | S122            | 180L <sup>(2)</sup> | 6             | 27079        | 7737           |
| 46,0        | 2988       | 1,2 | 32,05 | S142            | 160LA               | 4             | 35000        | 18500          |
| 45,0        | 3054       | 1,0 | 32,76 | S122            | 160LA               | 4             | 27224        | 7778           |
| 44,1        | 3118       | 1,0 | 33,44 | S122            | 160LA               | 4             | 27248        | 7785           |
| 44,1        | 3153       | 1,1 | 22,24 | S142            | 180L <sup>(2)</sup> | 6             | 35000        | 18500          |
| 43,8        | 3170       | 0,9 | 22,37 | S122            | 180L <sup>(2)</sup> | 6             | 27136        | 7753           |
| 43,7        | 3150       | 2,4 | 33,79 | S152            | 160LA               | 4             | 40000        | 19400          |
| 43,1        | 3191       | 1,2 | 34,22 | S142            | 160LA               | 4             | 35000        | 18500          |
| 42,8        | 3243       | 2,0 | 22,88 | S152            | 180L <sup>(2)</sup> | 6             | 40000        | 19400          |

<sup>(2)</sup> With TBS brake motor, please contact our Technical Sales Support

## 5.1 S GEARED MOTORS (50Hz)

## 15,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------------|-------|------|--------------|----------------|
| 42,1        | 3301       | 0,9 | 23,29 | S122            | 180L <sup>(2)</sup> |       | 6    | 27166        | 7762           |
| 41,9        | 3282       | 0,9 | 35,20 | S122            | 160LA               |       | 4    | 27293        | 7798           |
| 38,0        | 3621       | 2,1 | 38,84 | S152            | 160LA               |       | 4    | 40000        | 19400          |
| 37,5        | 3671       | 1,2 | 39,38 | S142            | 160LA               |       | 4    | 35000        | 18500          |
| 36,8        | 3661       | 1,7 | 40,10 | S153            | 160LA               |       | 4    | 40000        | 19400          |
| 36,2        | 3842       | 1,7 | 27,11 | S152            | 180L <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 33,0        | 4086       | 1,7 | 44,76 | S153            | 160LA               |       | 4    | 40000        | 19400          |
| 32,9        | 4216       | 1,7 | 29,75 | S152            | 180L <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 32,2        | 4178       | 1,0 | 45,77 | S143            | 160LA               |       | 4    | 35000        | 18500          |
| 29,0        | 4789       | 1,7 | 33,79 | S152            | 180L <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 28,9        | 4653       | 1,0 | 50,97 | S143            | 160LA               |       | 4    | 34794        | 18500          |
| 28,7        | 4691       | 1,7 | 51,38 | S153            | 160LA               |       | 4    | 40000        | 19400          |
| 26,2        | 5148       | 1,6 | 56,39 | S153            | 160LA               |       | 4    | 40000        | 19400          |
| 25,8        | 5219       | 0,9 | 57,17 | S143            | 160LA               |       | 4    | 33091        | 18500          |
| 25,2        | 5505       | 1,5 | 38,84 | S152            | 180L <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 24,4        | 5565       | 1,2 | 40,10 | S153            | 180L <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 23,0        | 5847       | 1,5 | 64,05 | S153            | 160LA               |       | 4    | 40000        | 19400          |
| 21,9        | 6211       | 1,2 | 44,76 | S153            | 180L <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 20,0        | 6721       | 1,2 | 73,63 | S153            | 160LA               |       | 4    | 40000        | 19400          |
| 19,1        | 7131       | 1,2 | 51,38 | S153            | 180L <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 17,4        | 7826       | 1,1 | 56,39 | S153            | 180L <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 15,3        | 8889       | 1,0 | 64,05 | S153            | 180L <sup>(2)</sup> |       | 6    | 40000        | 19400          |

## 18,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i    | Gear<br>reducer | Size                 | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|------|-----------------|----------------------|-------|------|--------------|----------------|
| 357,0       | 475        | 2,9 | 4,12 | S142            | 180M <sup>(2)</sup>  |       | 4    | 27453        | 15687          |
| 320,5       | 529        | 2,9 | 4,59 | S142            | 180M <sup>(2)</sup>  |       | 4    | 28156        | 16089          |
| 285,8       | 593        | 2,9 | 5,14 | S142            | 180M <sup>(2)</sup>  |       | 4    | 28897        | 16513          |
| 252,6       | 671        | 2,9 | 5,82 | S142            | 180M <sup>(2)</sup>  |       | 4    | 29677        | 16958          |
| 241,3       | 710        | 3,8 | 4,06 | S152            | 200LA <sup>(2)</sup> |       | 6    | 39103        | 19400          |
| 238,0       | 720        | 2,0 | 4,12 | S142            | 200LA <sup>(2)</sup> |       | 6    | 29990        | 17137          |
| 236,6       | 717        | 2,9 | 6,21 | S142            | 180M <sup>(2)</sup>  |       | 4    | 30083        | 17190          |
| 216,2       | 792        | 3,8 | 4,53 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 213,7       | 802        | 2,0 | 4,59 | S142            | 200LA <sup>(2)</sup> |       | 6    | 30636        | 17506          |
| 201,9       | 840        | 3,9 | 7,28 | S152            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 200,9       | 844        | 2,3 | 7,32 | S142            | 180M <sup>(2)</sup>  |       | 4    | 31061        | 17749          |
| 190,5       | 899        | 2,0 | 5,14 | S142            | 200LA <sup>(2)</sup> |       | 6    | 31294        | 17882          |
| 188,3       | 910        | 3,4 | 5,20 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 179,1       | 947        | 2,3 | 8,21 | S142            | 180M <sup>(2)</sup>  |       | 4    | 31707        | 18118          |
| 175,9       | 964        | 3,7 | 8,36 | S152            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 173,3       | 979        | 1,5 | 8,48 | S122            | 180M <sup>(2)</sup>  |       | 4    | 21158        | 6045           |

<sup>(2)</sup> With TBS brake motor, please contact our Technical Sales Support

## 5.1 S GEARED MOTORS (50Hz)

## 18,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                 | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|---------------|--------------|----------------|
| 171,6       | 998        | 3,1 | 5,71  | S152            | 200LA <sup>(2)</sup> | 6             | 40000        | 19400          |
| 168,4       | 1017       | 2,0 | 5,82  | S142            | 200LA <sup>(2)</sup> | 6             | 31957        | 18261          |
| 160,3       | 1058       | 3,5 | 9,17  | S152            | 180M <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 158,3       | 1071       | 2,3 | 9,29  | S142            | 180M <sup>(2)</sup>  | 4             | 32354        | 18488          |
| 158,1       | 1073       | 1,6 | 9,30  | S122            | 180M <sup>(2)</sup>  | 4             | 21566        | 6162           |
| 157,7       | 1086       | 2,0 | 6,21  | S142            | 200LA <sup>(2)</sup> | 6             | 32288        | 18450          |
| 150,2       | 1140       | 2,8 | 6,52  | S152            | 200LA <sup>(2)</sup> | 6             | 40000        | 19400          |
| 148,3       | 1144       | 2,3 | 9,91  | S142            | 180M <sup>(2)</sup>  | 4             | 32674        | 18500          |
| 143,6       | 1181       | 1,4 | 10,24 | S122            | 180M <sup>(2)</sup>  | 4             | 21983        | 6281           |
| 141,1       | 1202       | 3,5 | 10,42 | S152            | 180M <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 134,6       | 1273       | 2,7 | 7,28  | S152            | 200LA <sup>(2)</sup> | 6             | 40000        | 19400          |
| 133,9       | 1279       | 1,6 | 7,32  | S142            | 200LA <sup>(2)</sup> | 6             | 33032        | 18500          |
| 128,9       | 1316       | 2,1 | 11,41 | S142            | 180M <sup>(2)</sup>  | 4             | 33291        | 18500          |
| 128,8       | 1317       | 1,4 | 11,42 | S122            | 180M <sup>(2)</sup>  | 4             | 22437        | 6411           |
| 119,4       | 1435       | 1,6 | 8,21  | S142            | 200LA <sup>(2)</sup> | 6             | 33470        | 18500          |
| 117,9       | 1438       | 2,3 | 12,46 | S152            | 180M <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 117,3       | 1461       | 2,5 | 8,36  | S152            | 200LA <sup>(2)</sup> | 6             | 40000        | 19400          |
| 116,4       | 1457       | 1,5 | 12,63 | S122            | 180M <sup>(2)</sup>  | 4             | 22835        | 6524           |
| 115,5       | 1483       | 1,1 | 8,48  | S122            | 200LA <sup>(2)</sup> | 6             | 22809        | 6517           |
| 114,7       | 1478       | 1,8 | 12,81 | S142            | 180M <sup>(2)</sup>  | 4             | 33719        | 18500          |
| 106,8       | 1603       | 2,5 | 9,17  | S152            | 200LA <sup>(2)</sup> | 6             | 40000        | 19400          |
| 106,2       | 1597       | 1,5 | 13,84 | S122            | 180M <sup>(2)</sup>  | 4             | 23176        | 6622           |
| 105,7       | 1605       | 2,3 | 13,91 | S152            | 180M <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 105,5       | 1623       | 1,6 | 9,29  | S142            | 200LA <sup>(2)</sup> | 6             | 33845        | 18500          |
| 105,4       | 1625       | 1,1 | 9,30  | S122            | 200LA <sup>(2)</sup> | 6             | 23143        | 6612           |
| 103,0       | 1647       | 1,5 | 14,27 | S142            | 180M <sup>(2)</sup>  | 4             | 34036        | 18500          |
| 98,9        | 1733       | 1,6 | 9,91  | S142            | 200LA <sup>(2)</sup> | 6             | 33998        | 18500          |
| 95,7        | 1790       | 1,0 | 10,24 | S122            | 200LA <sup>(2)</sup> | 6             | 23467        | 6705           |
| 94,1        | 1821       | 2,4 | 10,42 | S152            | 200LA <sup>(2)</sup> | 6             | 40000        | 19400          |
| 92,1        | 1842       | 2,3 | 15,97 | S152            | 180M <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 91,8        | 1847       | 1,4 | 16,01 | S142            | 180M <sup>(2)</sup>  | 4             | 34271        | 18500          |
| 86,5        | 1961       | 1,3 | 16,99 | S122            | 180M <sup>(2)</sup>  | 4             | 23846        | 6813           |
| 85,9        | 1994       | 1,5 | 11,41 | S142            | 200LA <sup>(2)</sup> | 6             | 34198        | 18500          |
| 85,8        | 1996       | 1,0 | 11,42 | S122            | 200LA <sup>(2)</sup> | 6             | 23794        | 6798           |
| 83,9        | 2022       | 2,3 | 17,53 | S152            | 180M <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 81,2        | 2089       | 1,4 | 18,11 | S142            | 180M <sup>(2)</sup>  | 4             | 34388        | 18500          |
| 78,6        | 2179       | 1,6 | 12,46 | S152            | 200LA <sup>(2)</sup> | 6             | 40000        | 19400          |
| 77,6        | 2207       | 1,0 | 12,63 | S122            | 200LA <sup>(2)</sup> | 6             | 24052        | 6872           |
| 76,5        | 2240       | 1,2 | 12,81 | S142            | 200LA <sup>(2)</sup> | 6             | 34212        | 18500          |
| 76,0        | 2231       | 1,4 | 19,33 | S142            | 180M <sup>(2)</sup>  | 4             | 34384        | 18500          |
| 73,8        | 2297       | 2,3 | 19,91 | S152            | 180M <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 70,8        | 2419       | 1,0 | 13,84 | S122            | 200LA <sup>(2)</sup> | 6             | 24245        | 6927           |

<sup>(2)</sup> With TBS brake motor, please contact our Technical Sales Support

## 5.1 S GEARED MOTORS (50Hz)

## 18,50 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                 | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|-------|------|--------------|----------------|
| 70,5        | 2431       | 1,6 | 13,91 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 69,2        | 2452       | 1,1 | 21,25 | S122            | 180M <sup>(2)</sup>  |       | 4    | 24380        | 6966           |
| 68,7        | 2495       | 1,0 | 14,27 | S142            | 200LA <sup>(2)</sup> |       | 6    | 34080        | 18500          |
| 66,1        | 2567       | 1,3 | 22,24 | S142            | 180M <sup>(2)</sup>  |       | 4    | 34198        | 18500          |
| 65,7        | 2581       | 1,1 | 22,37 | S122            | 180M <sup>(2)</sup>  |       | 4    | 24466        | 6990           |
| 64,2        | 2640       | 2,3 | 22,88 | S152            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 63,1        | 2687       | 1,1 | 23,29 | S122            | 180M <sup>(2)</sup>  |       | 4    | 24523        | 7006           |
| 61,4        | 2791       | 1,6 | 15,97 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 61,2        | 2798       | 1,0 | 16,01 | S142            | 200LA <sup>(2)</sup> |       | 6    | 33763        | 18500          |
| 58,2        | 2915       | 1,0 | 25,26 | S142            | 180M <sup>(2)</sup>  |       | 4    | 33786        | 18500          |
| 57,7        | 2970       | 0,9 | 16,99 | S122            | 200LA <sup>(2)</sup> |       | 6    | 24499        | 7000           |
| 56,2        | 3018       | 1,0 | 26,15 | S122            | 180M <sup>(2)</sup>  |       | 4    | 24625        | 7036           |
| 55,9        | 3064       | 1,6 | 17,53 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 54,2        | 3127       | 1,9 | 27,11 | S152            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 54,1        | 3165       | 1,0 | 18,11 | S142            | 200LA <sup>(2)</sup> |       | 6    | 33185        | 18500          |
| 51,9        | 3269       | 1,0 | 28,33 | S142            | 180M <sup>(2)</sup>  |       | 4    | 33182        | 18500          |
| 51,4        | 3300       | 0,9 | 28,60 | S122            | 180M <sup>(2)</sup>  |       | 4    | 24635        | 7039           |
| 50,7        | 3379       | 1,0 | 19,33 | S142            | 200LA <sup>(2)</sup> |       | 6    | 32766        | 18500          |
| 49,4        | 3433       | 1,9 | 29,75 | S152            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 49,2        | 3480       | 1,6 | 19,91 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 45,9        | 3698       | 1,0 | 32,05 | S142            | 180M <sup>(2)</sup>  |       | 4    | 32248        | 18427          |
| 43,5        | 3899       | 1,9 | 33,79 | S152            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 43,0        | 3949       | 1,0 | 34,22 | S142            | 180M <sup>(2)</sup>  |       | 4    | 31615        | 18066          |
| 42,8        | 4000       | 1,6 | 22,88 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 37,8        | 4481       | 1,7 | 38,84 | S152            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 37,3        | 4543       | 1,0 | 39,38 | S142            | 180M <sup>(2)</sup>  |       | 4    | 29900        | 17085          |
| 36,7        | 4531       | 1,4 | 40,10 | S153            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 36,2        | 4738       | 1,3 | 27,11 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 32,9        | 5200       | 1,3 | 29,75 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 32,8        | 5056       | 1,4 | 44,76 | S153            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 29,0        | 5907       | 1,3 | 33,79 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 28,6        | 5805       | 1,4 | 51,38 | S153            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 26,1        | 6371       | 1,3 | 56,39 | S153            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 25,2        | 6789       | 1,2 | 38,84 | S152            | 200LA <sup>(2)</sup> |       | 6    | 40000        | 19400          |
| 22,9        | 7236       | 1,2 | 64,05 | S153            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |
| 20,0        | 8318       | 0,9 | 73,63 | S153            | 180M <sup>(2)</sup>  |       | 4    | 40000        | 19400          |

## 22,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i    | Gear<br>reducer | Size                | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|------|-----------------|---------------------|-------|------|--------------|----------------|
| 357,0       | 565        | 2,5 | 4,12 | S142            | 180L <sup>(2)</sup> |       | 4    | 26744        | 15282          |
| 320,5       | 629        | 2,5 | 4,59 | S142            | 180L <sup>(2)</sup> |       | 4    | 27367        | 15638          |

<sup>(2)</sup> With TBS brake motor, please contact our Technical Sales Support

## 5.1 S GEARED MOTORS (50Hz)

## 22,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                 | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|---------------|--------------|----------------|
| 285,8       | 706        | 2,5 | 5,14  | S142            | 180L <sup>(2)</sup>  | 4             | 28011        | 16007          |
| 257,4       | 784        | 3,8 | 5,71  | S152            | 180L <sup>(2)</sup>  | 4             | 37840        | 19400          |
| 252,6       | 798        | 2,5 | 5,82  | S142            | 180L <sup>(2)</sup>  | 4             | 28676        | 16386          |
| 241,3       | 844        | 3,2 | 4,06  | S152            | 200LB <sup>(2)</sup> | 6             | 38438        | 19400          |
| 238,0       | 856        | 1,7 | 4,12  | S142            | 200LB <sup>(2)</sup> | 6             | 28917        | 16524          |
| 236,6       | 852        | 2,5 | 6,21  | S142            | 180L <sup>(2)</sup>  | 4             | 29014        | 16579          |
| 225,4       | 895        | 3,4 | 6,52  | S152            | 180L <sup>(2)</sup>  | 4             | 39159        | 19400          |
| 216,2       | 942        | 3,2 | 4,53  | S152            | 200LB <sup>(2)</sup> | 6             | 39526        | 19400          |
| 213,7       | 953        | 1,7 | 4,59  | S142            | 200LB <sup>(2)</sup> | 6             | 29440        | 16823          |
| 201,9       | 999        | 3,3 | 7,28  | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 200,9       | 1004       | 1,9 | 7,32  | S142            | 180L <sup>(2)</sup>  | 4             | 29801        | 17029          |
| 190,5       | 1069       | 1,7 | 5,14  | S142            | 200LB <sup>(2)</sup> | 6             | 29952        | 17116          |
| 188,3       | 1082       | 2,8 | 5,20  | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 179,1       | 1126       | 1,9 | 8,21  | S142            | 180L <sup>(2)</sup>  | 4             | 30294        | 17311          |
| 175,9       | 1147       | 3,1 | 8,36  | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 173,3       | 1164       | 1,3 | 8,48  | S122            | 180L <sup>(2)</sup>  | 4             | 20457        | 5845           |
| 171,6       | 1187       | 2,6 | 5,71  | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 168,4       | 1210       | 1,7 | 5,82  | S142            | 200LB <sup>(2)</sup> | 6             | 30440        | 17394          |
| 160,3       | 1259       | 3,0 | 9,17  | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 158,3       | 1274       | 1,9 | 9,29  | S142            | 180L <sup>(2)</sup>  | 4             | 30756        | 17575          |
| 158,1       | 1276       | 1,3 | 9,30  | S122            | 180L <sup>(2)</sup>  | 4             | 20797        | 5942           |
| 157,7       | 1291       | 1,7 | 6,21  | S142            | 200LB <sup>(2)</sup> | 6             | 30668        | 17524          |
| 150,2       | 1356       | 2,4 | 6,52  | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 148,3       | 1360       | 1,9 | 9,91  | S142            | 180L <sup>(2)</sup>  | 4             | 30967        | 17696          |
| 143,6       | 1405       | 1,2 | 10,24 | S122            | 180L <sup>(2)</sup>  | 4             | 21137        | 6039           |
| 141,1       | 1430       | 2,9 | 10,42 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 134,6       | 1513       | 2,3 | 7,28  | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 133,9       | 1521       | 1,3 | 7,32  | S142            | 200LB <sup>(2)</sup> | 6             | 31124        | 17785          |
| 128,9       | 1565       | 1,8 | 11,41 | S142            | 180L <sup>(2)</sup>  | 4             | 31327        | 17901          |
| 128,8       | 1566       | 1,2 | 11,42 | S122            | 180L <sup>(2)</sup>  | 4             | 21493        | 6141           |
| 119,4       | 1706       | 1,3 | 8,21  | S142            | 200LB <sup>(2)</sup> | 6             | 31329        | 17902          |
| 117,9       | 1710       | 1,9 | 12,46 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 117,3       | 1737       | 2,1 | 8,36  | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 116,4       | 1732       | 1,3 | 12,63 | S122            | 180L <sup>(2)</sup>  | 4             | 21791        | 6226           |
| 114,7       | 1758       | 1,5 | 12,81 | S142            | 180L <sup>(2)</sup>  | 4             | 31514        | 18008          |
| 106,8       | 1907       | 2,1 | 9,17  | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 106,2       | 1899       | 1,3 | 13,84 | S122            | 180L <sup>(2)</sup>  | 4             | 22032        | 6295           |
| 105,7       | 1909       | 1,9 | 13,91 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 105,5       | 1930       | 1,3 | 9,29  | S142            | 200LB <sup>(2)</sup> | 6             | 31423        | 17956          |
| 105,4       | 1933       | 0,9 | 9,30  | S122            | 200LB <sup>(2)</sup> | 6             | 21978        | 6279           |
| 103,0       | 1958       | 1,2 | 14,27 | S142            | 180L <sup>(2)</sup>  | 4             | 31579        | 18045          |
| 98,9        | 2061       | 1,3 | 9,91  | S142            | 200LB <sup>(2)</sup> | 6             | 31412        | 17950          |

<sup>(2)</sup> With TBS brake motor, please contact our Technical Sales Support

## 5.1 S GEARED MOTORS (50Hz)

## 22,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                 | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|----------------------|---------------|--------------|----------------|
| 94,1        | 2166       | 2,0 | 10,42 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 92,1        | 2191       | 1,9 | 15,97 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 91,8        | 2196       | 1,2 | 16,01 | S142            | 180L <sup>(2)</sup>  | 4             | 31516        | 18009          |
| 86,5        | 2332       | 1,1 | 16,99 | S122            | 180L <sup>(2)</sup>  | 4             | 22441        | 6412           |
| 85,9        | 2371       | 1,2 | 11,41 | S142            | 200LB <sup>(2)</sup> | 6             | 31223        | 17842          |
| 83,9        | 2405       | 1,9 | 17,53 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 81,2        | 2485       | 1,2 | 18,11 | S142            | 180L <sup>(2)</sup>  | 4             | 31271        | 17869          |
| 78,6        | 2591       | 1,3 | 12,46 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 76,5        | 2663       | 1,0 | 12,81 | S142            | 200LB <sup>(2)</sup> | 6             | 30870        | 17640          |
| 76,0        | 2653       | 1,2 | 19,33 | S142            | 180L <sup>(2)</sup>  | 4             | 31056        | 17746          |
| 73,8        | 2731       | 1,9 | 19,91 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 70,5        | 2891       | 1,3 | 13,91 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 69,2        | 2916       | 1,0 | 21,25 | S122            | 180L <sup>(2)</sup>  | 4             | 22623        | 6464           |
| 66,1        | 3052       | 1,1 | 22,24 | S142            | 180L <sup>(2)</sup>  | 4             | 30369        | 17354          |
| 65,7        | 3069       | 0,9 | 22,37 | S122            | 180L <sup>(2)</sup>  | 4             | 22616        | 6462           |
| 64,2        | 3140       | 1,9 | 22,88 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 63,1        | 3196       | 0,9 | 23,29 | S122            | 180L <sup>(2)</sup>  | 4             | 22597        | 6456           |
| 61,4        | 3319       | 1,3 | 15,97 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 55,9        | 3643       | 1,3 | 17,53 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 54,2        | 3719       | 1,6 | 27,11 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 49,4        | 4082       | 1,6 | 29,75 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 49,2        | 4138       | 1,3 | 19,91 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 43,5        | 4636       | 1,6 | 33,79 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 42,8        | 4756       | 1,3 | 22,88 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 37,8        | 5329       | 1,4 | 38,84 | S152            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 36,7        | 5388       | 1,2 | 40,10 | S153            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 36,2        | 5634       | 1,1 | 27,11 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 32,9        | 6184       | 1,1 | 29,75 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 32,8        | 6013       | 1,2 | 44,76 | S153            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 29,0        | 7024       | 1,1 | 33,79 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 28,6        | 6903       | 1,1 | 51,38 | S153            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 26,1        | 7577       | 1,1 | 56,39 | S153            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |
| 25,2        | 8074       | 1,0 | 38,84 | S152            | 200LB <sup>(2)</sup> | 6             | 40000        | 19400          |
| 22,9        | 8605       | 1,0 | 64,05 | S153            | 180L <sup>(2)</sup>  | 4             | 40000        | 19400          |

## 30,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i    | Gear<br>reducer | Size                | Motor<br>Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|------|-----------------|---------------------|---------------|--------------|----------------|
| 363,2       | 757        | 3,4 | 4,06 | S152            | 200L <sup>(2)</sup> | 4             | 33490        | 19137          |
| 358,2       | 768        | 1,8 | 4,12 | S142            | 200L <sup>(2)</sup> | 4             | 25110        | 14348          |
| 325,4       | 845        | 3,4 | 4,53 | S152            | 200L <sup>(2)</sup> | 4             | 34429        | 19400          |
| 321,6       | 855        | 1,8 | 4,59 | S142            | 200L <sup>(2)</sup> | 4             | 25549        | 14600          |

<sup>(2)</sup> With TBS brake motor, please contact our Technical Sales Support

## 5.1 S GEARED MOTORS (50Hz)

## 30,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------------|-------|------|--------------|----------------|
| 286,8       | 959        | 1,8 | 5,14  | S142            | 200L <sup>(2)</sup> |       | 4    | 25976        | 14843          |
| 283,4       | 970        | 3,0 | 5,20  | S152            | 200L <sup>(2)</sup> |       | 4    | 35610        | 19400          |
| 258,2       | 1065       | 2,8 | 5,71  | S152            | 200L <sup>(2)</sup> |       | 4    | 36402        | 19400          |
| 253,5       | 1085       | 1,8 | 5,82  | S142            | 200L <sup>(2)</sup> |       | 4    | 26376        | 15072          |
| 237,4       | 1159       | 1,8 | 6,21  | S142            | 200L <sup>(2)</sup> |       | 4    | 26560        | 15177          |
| 226,1       | 1216       | 2,5 | 6,52  | S152            | 200L <sup>(2)</sup> |       | 4    | 37521        | 19400          |
| 202,6       | 1358       | 2,4 | 7,28  | S152            | 200L <sup>(2)</sup> |       | 4    | 38430        | 19400          |
| 201,6       | 1365       | 1,4 | 7,32  | S142            | 200L <sup>(2)</sup> |       | 4    | 26916        | 15381          |
| 179,7       | 1530       | 1,4 | 8,21  | S142            | 200L <sup>(2)</sup> |       | 4    | 27062        | 15464          |
| 176,5       | 1558       | 2,3 | 8,36  | S152            | 200L <sup>(2)</sup> |       | 4    | 39540        | 19400          |
| 173,9       | 1582       | 0,9 | 8,48  | S122            | 200L <sup>(2)</sup> |       | 4    | 18846        | 5385           |
| 160,8       | 1710       | 2,2 | 9,17  | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 158,9       | 1731       | 1,4 | 9,29  | S142            | 200L <sup>(2)</sup> |       | 4    | 27103        | 15488          |
| 158,6       | 1734       | 1,0 | 9,30  | S122            | 200L <sup>(2)</sup> |       | 4    | 19034        | 5438           |
| 148,8       | 1849       | 1,4 | 9,91  | S142            | 200L <sup>(2)</sup> |       | 4    | 27070        | 15468          |
| 141,6       | 1943       | 2,2 | 10,42 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 129,3       | 2127       | 1,3 | 11,41 | S142            | 200L <sup>(2)</sup> |       | 4    | 26847        | 15341          |
| 118,3       | 2324       | 1,4 | 12,46 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 116,8       | 2354       | 0,9 | 12,63 | S122            | 200L <sup>(2)</sup> |       | 4    | 19403        | 5544           |
| 115,1       | 2389       | 1,1 | 12,81 | S142            | 200L <sup>(2)</sup> |       | 4    | 26486        | 15135          |
| 106,6       | 2581       | 0,9 | 13,84 | S122            | 200L <sup>(2)</sup> |       | 4    | 19417        | 5548           |
| 106,0       | 2594       | 1,4 | 13,91 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 103,4       | 2661       | 0,9 | 14,27 | S142            | 200L <sup>(2)</sup> |       | 4    | 25983        | 14847          |
| 92,4        | 2978       | 1,4 | 15,97 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 84,2        | 3268       | 1,4 | 17,53 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 74,1        | 3712       | 1,4 | 19,91 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 64,5        | 4267       | 1,4 | 22,88 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 54,4        | 5054       | 1,2 | 27,11 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 49,6        | 5547       | 1,2 | 29,75 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 43,7        | 6301       | 1,2 | 33,79 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 38,0        | 7242       | 1,1 | 38,84 | S152            | 200L <sup>(2)</sup> |       | 4    | 40000        | 19400          |

## 37,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i    | Gear<br>reducer | Size                | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|------|-----------------|---------------------|-------|------|--------------|----------------|
| 365,6       | 928        | 2,8 | 4,06 | S152            | 225S <sup>(2)</sup> |       | 4    | 32564        | 18608          |
| 327,6       | 1035       | 2,8 | 4,53 | S152            | 225S <sup>(2)</sup> |       | 4    | 33402        | 19087          |
| 285,4       | 1189       | 2,5 | 5,20 | S152            | 225S <sup>(2)</sup> |       | 4    | 34440        | 19400          |
| 260,0       | 1305       | 2,3 | 5,71 | S152            | 225S <sup>(2)</sup> |       | 4    | 35124        | 19400          |
| 227,7       | 1490       | 2,1 | 6,52 | S152            | 225S <sup>(2)</sup> |       | 4    | 36070        | 19400          |
| 204,0       | 1663       | 2,0 | 7,28 | S152            | 225S <sup>(2)</sup> |       | 4    | 36818        | 19400          |
| 177,7       | 1909       | 1,8 | 8,36 | S152            | 225S <sup>(2)</sup> |       | 4    | 37700        | 19400          |

<sup>(2)</sup> With TBS brake motor, please contact our Technical Sales Support

## 5.1 S GEARED MOTORS (50Hz)

## 37,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------------|-------|------|--------------|----------------|
| 161,9       | 2095       | 1,8 | 9,17  | S152            | 225S <sup>(2)</sup> |       | 4    | 38249        | 19400          |
| 142,5       | 2380       | 1,8 | 10,42 | S152            | 225S <sup>(2)</sup> |       | 4    | 38928        | 19400          |
| 119,2       | 2847       | 1,2 | 12,46 | S152            | 225S <sup>(2)</sup> |       | 4    | 39707        | 19400          |
| 106,8       | 3177       | 1,2 | 13,91 | S152            | 225S <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 93,0        | 3648       | 1,2 | 15,97 | S152            | 225S <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 84,7        | 4004       | 1,2 | 17,53 | S152            | 225S <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 74,6        | 4547       | 1,2 | 19,91 | S152            | 225S <sup>(2)</sup> |       | 4    | 40000        | 19400          |
| 64,9        | 5227       | 1,2 | 22,88 | S152            | 225S <sup>(2)</sup> |       | 4    | 39878        | 19400          |
| 54,8        | 6192       | 1,0 | 27,11 | S152            | 225S <sup>(2)</sup> |       | 4    | 38885        | 19400          |
| 49,9        | 6796       | 1,0 | 29,75 | S152            | 225S <sup>(2)</sup> |       | 4    | 38066        | 19400          |
| 43,9        | 7719       | 1,0 | 33,79 | S152            | 225S <sup>(2)</sup> |       | 4    | 36577        | 19400          |

## 45,00 kW

| n2<br>[rpm] | M2<br>[Nm] | fs  | i     | Gear<br>reducer | Size                | Motor | Pole | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------|------------|-----|-------|-----------------|---------------------|-------|------|--------------|----------------|
| 365,6       | 1128       | 2,3 | 4,06  | S152            | 225M <sup>(2)</sup> |       | 4    | 31572        | 18041          |
| 327,6       | 1259       | 2,3 | 4,53  | S152            | 225M <sup>(2)</sup> |       | 4    | 32295        | 18454          |
| 285,4       | 1446       | 2,0 | 5,20  | S152            | 225M <sup>(2)</sup> |       | 4    | 33169        | 18953          |
| 260,0       | 1587       | 1,9 | 5,71  | S152            | 225M <sup>(2)</sup> |       | 4    | 33729        | 19274          |
| 227,7       | 1812       | 1,7 | 6,52  | S152            | 225M <sup>(2)</sup> |       | 4    | 34477        | 19400          |
| 204,0       | 2023       | 1,6 | 7,28  | S152            | 225M <sup>(2)</sup> |       | 4    | 35040        | 19400          |
| 177,7       | 2322       | 1,5 | 8,36  | S152            | 225M <sup>(2)</sup> |       | 4    | 35658        | 19400          |
| 161,9       | 2548       | 1,5 | 9,17  | S152            | 225M <sup>(2)</sup> |       | 4    | 36009        | 19400          |
| 142,5       | 2895       | 1,4 | 10,42 | S152            | 225M <sup>(2)</sup> |       | 4    | 36383        | 19400          |
| 119,2       | 3462       | 1,0 | 12,46 | S152            | 225M <sup>(2)</sup> |       | 4    | 36662        | 19400          |
| 106,8       | 3864       | 1,0 | 13,91 | S152            | 225M <sup>(2)</sup> |       | 4    | 36660        | 19400          |
| 93,0        | 4436       | 1,0 | 15,97 | S152            | 225M <sup>(2)</sup> |       | 4    | 36430        | 19400          |
| 84,7        | 4869       | 1,0 | 17,53 | S152            | 225M <sup>(2)</sup> |       | 4    | 36110        | 19400          |
| 74,6        | 5530       | 1,0 | 19,91 | S152            | 225M <sup>(2)</sup> |       | 4    | 35423        | 19400          |
| 64,9        | 6357       | 1,0 | 22,88 | S152            | 225M <sup>(2)</sup> |       | 4    | 34288        | 19400          |

<sup>(2)</sup> With TBS brake motor, please contact our Technical Sales Support

## 5.2 IS GEAR REDUCER - 1750 rpm

## IS052

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 160                     | 8,63  | 3,54                    | 202,9                   | 759        | 3125         | 3125           |
| 179                     | 11,14 | 3,06                    | 157,1                   | 846        | 3373         | 3373           |
| 188                     | 12,00 | 2,99                    | 145,8                   | 859        | 3428         | 3428           |
| 197                     | 13,66 | 2,76                    | 128,2                   | 901        | 3570         | 3570           |
| 226                     | 15,27 | 2,82                    | 114,6                   | 890        | 3584         | 3584           |
| 226                     | 16,29 | 2,64                    | 107,5                   | 922        | 3689         | 3689           |
| 226                     | 18,63 | 2,31                    | 93,9                    | 983        | 3916         | 3916           |
| 226                     | 19,73 | 2,18                    | 88,7                    | 1007       | 4015         | 4015           |
| 244                     | 21,04 | 2,22                    | 83,2                    | 1000       | 4020         | 4020           |
| 244                     | 21,53 | 2,17                    | 81,3                    | 1010       | 4062         | 4062           |
| 244                     | 24,07 | 1,94                    | 72,7                    | 1051       | 4267         | 4267           |
| 273                     | 25,20 | 2,06                    | 69,4                    | 1028       | 4190         | 4190           |
| 273                     | 25,79 | 2,02                    | 67,9                    | 1037       | 4234         | 4234           |
| 273                     | 27,81 | 1,87                    | 62,9                    | 1064       | 4381         | 4381           |
| 273                     | 30,00 | 1,73                    | 58,3                    | 1089       | 4532         | 4532           |
| 282                     | 32,55 | 1,65                    | 53,8                    | 1104       | 4644         | 4644           |
| 282                     | 33,00 | 1,63                    | 53,0                    | 1108       | 4673         | 4673           |
| 282                     | 34,09 | 1,58                    | 51,3                    | 1117       | 4741         | 4741           |
| 310                     | 36,55 | 1,62                    | 47,9                    | 1110       | 4725         | 4725           |
| 310                     | 38,75 | 1,53                    | 45,2                    | 1127       | 4853         | 4853           |
| 329                     | 39,90 | 1,57                    | 43,9                    | 1118       | 4808         | 4808           |
| 329                     | 42,63 | 1,47                    | 41,1                    | 1137       | 4956         | 4956           |
| 329                     | 46,00 | 1,37                    | 38,0                    | 1156       | 5131         | 5131           |
| 329                     | 47,20 | 1,33                    | 37,1                    | 1163       | 5191         | 5191           |
| 329                     | 52,25 | 1,20                    | 33,5                    | 1186       | 5433         | 5433           |
| 329                     | 57,86 | 1,09                    | 30,2                    | 1208       | 5685         | 5685           |
| 329                     | 59,42 | 1,06                    | 29,4                    | 1213       | 5752         | 5752           |
| 329                     | 72,83 | 0,86                    | 24,0                    | 1249       | 6000         | 6000           |

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 329                     | 36,50  | 1,76                    | 48,0                    | 1091       | 4613         | 4613           |
| 329                     | 47,14  | 1,36                    | 37,1                    | 1162       | 5188         | 5188           |
| 329                     | 57,79  | 1,11                    | 30,3                    | 1207       | 5682         | 5682           |
| 329                     | 63,74  | 1,01                    | 27,4                    | 1226       | 5931         | 5931           |
| 329                     | 74,20  | 0,86                    | 23,6                    | 1251       | 6000         | 6000           |
| 329                     | 78,14  | 0,82                    | 22,4                    | 1259       | 6000         | 6000           |
| 329                     | 95,84  | 0,67                    | 18,3                    | 1286       | 6000         | 6000           |
| 329                     | 117,48 | 0,55                    | 14,9                    | 1309       | 6000         | 6000           |
| 329                     | 137,45 | 0,47                    | 12,7                    | 1323       | 6000         | 6000           |
| 329                     | 177,55 | 0,36                    | 9,9                     | 1342       | 6000         | 6000           |

## 5.2 IS GEAR REDUCER - 1750 rpm

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 329                     | 198,45 | 0,32                    | 8,8                     | 1348       | 6000         | 6000           |
| 329                     | 217,64 | 0,29                    | 8,0                     | 1354       | 6000         | 6000           |
| 329                     | 256,33 | 0,25                    | 6,8                     | 1362       | 6000         | 6000           |
| 329                     | 314,21 | 0,20                    | 5,6                     | 1370       | 6000         | 6000           |

## IS062

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 310                     | 8,00  | 7,40                    | 218,8                   | 413        | 4832         | 1933           |
| 310                     | 8,92  | 6,64                    | 196,2                   | 516        | 5081         | 2032           |
| 338                     | 9,55  | 6,77                    | 183,3                   | 499        | 5061         | 2024           |
| 338                     | 10,65 | 6,07                    | 164,4                   | 593        | 5325         | 2130           |
| 367                     | 11,71 | 5,98                    | 149,5                   | 605        | 5385         | 2154           |
| 395                     | 13,06 | 5,77                    | 134,0                   | 633        | 5488         | 2195           |
| 395                     | 13,36 | 5,64                    | 131,0                   | 650        | 5548         | 2219           |
| 423                     | 15,94 | 5,07                    | 109,8                   | 727        | 5853         | 2341           |
| 423                     | 16,16 | 5,00                    | 108,3                   | 737        | 5892         | 2357           |
| 423                     | 19,29 | 4,19                    | 90,7                    | 846        | 6407         | 2563           |
| 432                     | 19,55 | 4,22                    | 89,5                    | 841        | 6388         | 2555           |
| 442                     | 23,18 | 3,64                    | 75,5                    | 920        | 6856         | 2742           |
| 442                     | 23,75 | 3,55                    | 73,7                    | 931        | 6934         | 2774           |
| 451                     | 25,14 | 3,43                    | 69,6                    | 948        | 7059         | 2824           |
| 451                     | 27,66 | 3,11                    | 63,3                    | 990        | 7376         | 2950           |
| 470                     | 30,00 | 2,99                    | 58,3                    | 1007       | 7536         | 3014           |
| 508                     | 33,93 | 2,86                    | 51,6                    | 1025       | 7733         | 3093           |
| 564                     | 36,57 | 2,94                    | 47,9                    | 1013       | 7650         | 3060           |
| 564                     | 39,38 | 2,73                    | 44,4                    | 1041       | 7927         | 3171           |
| 564                     | 43,64 | 2,47                    | 40,1                    | 1077       | 8324         | 3329           |
| 564                     | 46,10 | 2,34                    | 38,0                    | 1095       | 8541         | 3416           |
| 564                     | 48,30 | 2,23                    | 36,2                    | 1109       | 8729         | 3492           |
| 564                     | 53,53 | 2,01                    | 32,7                    | 1138       | 9154         | 3661           |
| 564                     | 55,00 | 1,96                    | 31,8                    | 1146       | 9268         | 3707           |
| 564                     | 67,47 | 1,60                    | 25,9                    | 1194       | 10000        | 4000           |

## ISO63

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 564                     | 33,57 | 3,28                    | 52,1                    | 978        | 7337         | 2935           |
| 564                     | 37,77 | 2,91                    | 46,3                    | 1026       | 7770         | 3108           |
| 564                     | 40,05 | 2,74                    | 43,7                    | 1047       | 7992         | 3197           |
| 564                     | 49,13 | 2,24                    | 35,6                    | 1114       | 8799         | 3519           |

## 5.2 IS GEAR REDUCER - 1750 rpm

## IS063

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 564                     | 55,29  | 1,99                    | 31,6                    | 1147       | 9290         | 3716           |
| 564                     | 58,72  | 1,87                    | 29,8                    | 1162       | 9548         | 3819           |
| 564                     | 65,85  | 1,67                    | 26,6                    | 1189       | 10000        | 4000           |
| 564                     | 68,25  | 1,61                    | 25,6                    | 1197       | 10000        | 4000           |
| 564                     | 73,63  | 1,49                    | 23,8                    | 1212       | 10000        | 4000           |
| 564                     | 81,43  | 1,35                    | 21,5                    | 1231       | 10000        | 4000           |
| 564                     | 99,89  | 1,10                    | 17,5                    | 1264       | 10000        | 4000           |
| 564                     | 126,43 | 0,87                    | 13,8                    | 1294       | 10000        | 4000           |
| 564                     | 150,85 | 0,73                    | 11,6                    | 1313       | 10000        | 4000           |
| 564                     | 182,53 | 0,60                    | 9,6                     | 1330       | 10000        | 4000           |
| 564                     | 185,05 | 0,59                    | 9,5                     | 1331       | 10000        | 4000           |
| 564                     | 217,79 | 0,50                    | 8,0                     | 1342       | 10000        | 4000           |
| 564                     | 267,16 | 0,41                    | 6,5                     | 1355       | 10000        | 4000           |

## IS082

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 517                     | 7,34  | 13,45                   | 238,4                   | 1365       | 11156        | 3188           |
| 564                     | 8,06  | 13,35                   | 217,1                   | 1376       | 11407        | 3259           |
| 611                     | 9,94  | 11,73                   | 176,0                   | 1572       | 12203        | 3487           |
| 658                     | 11,61 | 10,82                   | 150,8                   | 1681       | 12792        | 3655           |
| 705                     | 12,75 | 10,55                   | 137,2                   | 1714       | 13109        | 3745           |
| 714                     | 14,04 | 9,71                    | 124,6                   | 1816       | 13578        | 3879           |
| 724                     | 15,43 | 8,95                    | 113,4                   | 1907       | 14049        | 4014           |
| 724                     | 15,73 | 8,79                    | 111,3                   | 1927       | 14153        | 4044           |
| 724                     | 17,29 | 7,99                    | 101,2                   | 2023       | 14680        | 4194           |
| 724                     | 19,03 | 7,26                    | 92,0                    | 2111       | 15226        | 4350           |
| 724                     | 20,14 | 6,86                    | 86,9                    | 2159       | 15559        | 4445           |
| 752                     | 22,13 | 6,49                    | 79,1                    | 2204       | 16032        | 4580           |
| 752                     | 24,00 | 5,98                    | 72,9                    | 2265       | 16535        | 4724           |
| 752                     | 26,05 | 5,51                    | 67,2                    | 2322       | 17056        | 4873           |
| 846                     | 27,29 | 5,92                    | 64,1                    | 2273       | 17049        | 4871           |
| 846                     | 28,67 | 5,63                    | 61,0                    | 2308       | 17375        | 4964           |
| 846                     | 29,60 | 5,46                    | 59,1                    | 2329       | 17588        | 5025           |
| 940                     | 31,78 | 5,65                    | 55,1                    | 2306       | 17762        | 5075           |
| 940                     | 34,91 | 5,14                    | 50,1                    | 2367       | 18000        | 5263           |
| 940                     | 35,50 | 5,05                    | 49,3                    | 2377       | 18000        | 5297           |
| 940                     | 40,05 | 4,48                    | 43,7                    | 2447       | 18000        | 5548           |
| 940                     | 43,05 | 4,17                    | 40,6                    | 2484       | 18000        | 5703           |
| 940                     | 50,25 | 3,57                    | 34,8                    | 2556       | 18000        | 6047           |
| 940                     | 54,27 | 3,31                    | 32,2                    | 2588       | 18000        | 6226           |
| 940                     | 61,98 | 2,90                    | 28,2                    | 2638       | 18000        | 6544           |

## 5.2 IS GEAR REDUCER - 1750 rpm

## IS083

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 940                     | 67,52  | 2,71                    | 25,9                    | 2667       | 18000        | 6757           |
| 940                     | 74,18  | 2,47                    | 23,6                    | 2695       | 18000        | 6998           |
| 940                     | 81,71  | 2,24                    | 21,4                    | 2722       | 18000        | 7200           |
| 940                     | 91,49  | 2,00                    | 19,1                    | 2750       | 18000        | 7200           |
| 940                     | 100,62 | 1,82                    | 17,4                    | 2772       | 18000        | 7200           |
| 940                     | 117,17 | 1,56                    | 14,9                    | 2802       | 18000        | 7200           |
| 940                     | 128,73 | 1,42                    | 13,6                    | 2819       | 18000        | 7200           |
| 940                     | 136,34 | 1,34                    | 12,8                    | 2828       | 18000        | 7200           |
| 940                     | 158,76 | 1,15                    | 11,0                    | 2851       | 18000        | 7200           |
| 940                     | 184,88 | 0,99                    | 9,5                     | 2870       | 18000        | 7200           |
| 940                     | 203,11 | 0,90                    | 8,6                     | 2881       | 18000        | 7200           |
| 940                     | 205,34 | 0,89                    | 8,5                     | 2882       | 18000        | 7200           |
| 940                     | 226,04 | 0,81                    | 7,7                     | 2891       | 18000        | 7200           |
| 940                     | 250,50 | 0,73                    | 7,0                     | 2901       | 18000        | 7200           |
| 940                     | 266,13 | 0,69                    | 6,6                     | 2906       | 18000        | 7200           |
| 940                     | 292,36 | 0,63                    | 6,0                     | 2913       | 18000        | 7200           |
| 940                     | 315,73 | 0,58                    | 5,5                     | 2919       | 18000        | 7200           |
| 940                     | 360,58 | 0,51                    | 4,8                     | 2927       | 18000        | 7200           |

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 799                     | 8,06  | 18,92                   | 217,1                   | 788        | 14063        | 4018           |
| 846                     | 8,85  | 18,25                   | 197,8                   | 865        | 14442        | 4126           |
| 893                     | 10,88 | 15,66                   | 160,8                   | 1166       | 15499        | 4428           |
| 940                     | 12,75 | 14,07                   | 137,2                   | 1351       | 16332        | 4666           |
| 1128                    | 13,99 | 15,39                   | 125,1                   | 1198       | 16427        | 4694           |
| 1175                    | 15,43 | 14,54                   | 113,4                   | 1297       | 16941        | 4840           |
| 1222                    | 17,21 | 13,55                   | 101,7                   | 1412       | 17554        | 5015           |
| 1316                    | 19,00 | 13,22                   | 92,1                    | 1450       | 17997        | 5142           |
| 1316                    | 20,83 | 12,06                   | 84,0                    | 1585       | 18656        | 5330           |
| 1316                    | 22,13 | 11,35                   | 79,1                    | 1668       | 19100        | 5457           |
| 1410                    | 24,28 | 11,09                   | 72,1                    | 1699       | 19556        | 5588           |
| 1410                    | 26,33 | 10,22                   | 66,5                    | 1800       | 20188        | 5768           |
| 1410                    | 29,87 | 9,01                    | 58,6                    | 1940       | 21200        | 6057           |
| 1410                    | 32,40 | 8,31                    | 54,0                    | 2022       | 21877        | 6250           |
| 1316                    | 34,91 | 7,20                    | 50,1                    | 2152       | 22000        | 6502           |
| 1410                    | 38,30 | 7,03                    | 45,7                    | 2171       | 22000        | 6665           |
| 1316                    | 42,53 | 5,91                    | 41,1                    | 2301       | 22000        | 7005           |
| 1222                    | 44,00 | 5,30                    | 39,8                    | 2372       | 22000        | 7165           |
| 1504                    | 47,13 | 6,09                    | 37,1                    | 2280       | 22000        | 7141           |
| 1316                    | 50,25 | 5,00                    | 34,8                    | 2407       | 22000        | 7457           |

## 5.2 IS GEAR REDUCER - 1750 rpm

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1222                    | 55,14 | 4,23                    | 31,7                    | 2497       | 22000        | 7789           |
| 1504                    | 59,40 | 4,83                    | 29,5                    | 2426       | 22000        | 7796           |
| 1504                    | 67,84 | 4,23                    | 25,8                    | 2496       | 22000        | 8196           |

## IS103

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1504                    | 74,18  | 3,95                    | 23,6                    | 2539       | 22000        | 8474           |
| 1504                    | 81,39  | 3,60                    | 21,5                    | 2578       | 22000        | 8773           |
| 1504                    | 89,77  | 3,27                    | 19,5                    | 2617       | 22000        | 9000           |
| 1504                    | 100,15 | 2,93                    | 17,5                    | 2655       | 22000        | 9000           |
| 1504                    | 110,55 | 2,65                    | 15,8                    | 2687       | 22000        | 9000           |
| 1504                    | 121,29 | 2,42                    | 14,4                    | 2713       | 22000        | 9000           |
| 1504                    | 128,73 | 2,28                    | 13,6                    | 2729       | 22000        | 9000           |
| 1504                    | 141,24 | 2,08                    | 12,4                    | 2752       | 22000        | 9000           |
| 1504                    | 173,78 | 1,69                    | 10,1                    | 2797       | 22000        | 9000           |
| 1504                    | 188,51 | 1,56                    | 9,3                     | 2812       | 22000        | 9000           |
| 1504                    | 203,11 | 1,44                    | 8,6                     | 2824       | 22000        | 9000           |
| 1504                    | 222,85 | 1,32                    | 7,8                     | 2839       | 22000        | 9000           |
| 1504                    | 224,76 | 1,30                    | 7,8                     | 2840       | 22000        | 9000           |
| 1504                    | 274,20 | 1,07                    | 6,4                     | 2867       | 22000        | 9000           |
| 1504                    | 280,89 | 1,04                    | 6,2                     | 2870       | 22000        | 9000           |
| 1504                    | 292,36 | 1,00                    | 6,0                     | 2875       | 22000        | 9000           |
| 1504                    | 320,79 | 0,91                    | 5,5                     | 2885       | 22000        | 9000           |
| 1504                    | 345,60 | 0,85                    | 5,1                     | 2892       | 22000        | 9000           |
| 1504                    | 394,69 | 0,74                    | 4,4                     | 2904       | 22000        | 9000           |

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1410                    | 8,48  | 31,73                   | 206,3                   | 3012       | 18134        | 5181           |
| 1598                    | 9,30  | 32,81                   | 188,2                   | 2979       | 18143        | 5184           |
| 1598                    | 10,24 | 29,79                   | 170,9                   | 3070       | 18925        | 5407           |
| 1786                    | 11,42 | 29,86                   | 153,3                   | 3068       | 19127        | 5465           |
| 2068                    | 12,63 | 31,26                   | 138,6                   | 3026       | 18934        | 5410           |
| 2256                    | 13,84 | 31,12                   | 126,5                   | 3030       | 19045        | 5441           |
| 2444                    | 16,99 | 27,45                   | 103,0                   | 3140       | 20267        | 5791           |
| 2632                    | 21,25 | 23,64                   | 82,3                    | 3255       | 21815        | 6233           |
| 2632                    | 22,37 | 22,46                   | 78,2                    | 3290       | 22357        | 6388           |
| 2726                    | 23,29 | 22,34                   | 75,1                    | 3294       | 22436        | 6410           |
| 2820                    | 26,15 | 20,58                   | 66,9                    | 3347       | 23357        | 6674           |

## 5.2 IS GEAR REDUCER - 1750 rpm

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 2820                    | 28,60 | 18,82                   | 61,2                    | 3400       | 24377        | 6965           |
| 2820                    | 30,51 | 17,64                   | 57,4                    | 3435       | 25134        | 7181           |
| 2820                    | 32,76 | 16,43                   | 53,4                    | 3471       | 25982        | 7423           |
| 2820                    | 33,44 | 16,09                   | 52,3                    | 3482       | 26235        | 7496           |
| 2820                    | 35,20 | 15,29                   | 49,7                    | 3506       | 26863        | 7675           |
| 2820                    | 41,07 | 13,11                   | 42,6                    | 3571       | 28822        | 8235           |
| 2820                    | 43,60 | 12,35                   | 40,1                    | 3594       | 29610        | 8460           |
| 2256                    | 44,63 | 9,65                    | 39,2                    | 3675       | 30000        | 9160           |
| 2256                    | 49,04 | 8,78                    | 35,7                    | 3702       | 30000        | 9526           |
| 2444                    | 53,75 | 8,68                    | 32,6                    | 3705       | 30000        | 9690           |
| 2820                    | 66,00 | 8,16                    | 26,5                    | 3720       | 30000        | 10148          |

## IS123

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 2538                    | 64,84  | 7,63                    | 27,0                    | 3741       | 30000        | 10376          |
| 2538                    | 71,07  | 6,96                    | 24,6                    | 3761       | 30000        | 10780          |
| 2820                    | 78,46  | 7,01                    | 22,3                    | 3759       | 30000        | 10923          |
| 2820                    | 87,27  | 6,30                    | 20,1                    | 3780       | 30000        | 11200          |
| 2820                    | 105,91 | 5,19                    | 16,5                    | 3813       | 30000        | 11200          |
| 2820                    | 112,52 | 4,89                    | 15,6                    | 3822       | 30000        | 11200          |
| 2820                    | 123,33 | 4,46                    | 14,2                    | 3834       | 30000        | 11200          |
| 2820                    | 130,04 | 4,23                    | 13,5                    | 3841       | 30000        | 11200          |
| 2820                    | 133,78 | 4,11                    | 13,1                    | 3845       | 30000        | 11200          |
| 2820                    | 151,43 | 3,63                    | 11,6                    | 3859       | 30000        | 11200          |
| 2820                    | 177,53 | 3,10                    | 9,9                     | 3874       | 30000        | 11200          |
| 2820                    | 194,59 | 2,83                    | 9,0                     | 3882       | 30000        | 11200          |
| 2820                    | 215,60 | 2,55                    | 8,1                     | 3890       | 30000        | 11200          |
| 2820                    | 238,93 | 2,30                    | 7,3                     | 3898       | 30000        | 11200          |
| 2820                    | 255,54 | 2,15                    | 6,8                     | 3902       | 30000        | 11200          |

## IS142

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 1306                    | 4,12 | 60,53                   | 425,0                   | 2548       | 19159        | 10948          |
| 1455                    | 4,59 | 60,57                   | 381,6                   | 2546       | 19045        | 10883          |
| 1633                    | 5,14 | 60,61                   | 340,2                   | 2545       | 18820        | 10754          |
| 1846                    | 5,82 | 60,56                   | 300,7                   | 2547       | 18458        | 10548          |
| 1973                    | 6,21 | 60,62                   | 281,7                   | 2545       | 18177        | 10387          |
| 1801                    | 7,32 | 46,97                   | 239,2                   | 3073       | 21411        | 12235          |
| 2020                    | 8,21 | 46,97                   | 213,2                   | 3073       | 21057        | 12033          |

## 5.2 IS GEAR REDUCER - 1750 rpm

## IS142

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 2286                    | 9,29  | 46,99                   | 188,5                   | 3073       | 20496        | 11712          |
| 2441                    | 9,91  | 47,00                   | 176,5                   | 3072       | 20113        | 11493          |
| 2647                    | 11,41 | 44,30                   | 153,4                   | 3177       | 20353        | 11630          |
| 2463                    | 12,81 | 36,69                   | 136,6                   | 3471       | 23418        | 13382          |
| 2294                    | 14,27 | 30,68                   | 122,6                   | 3704       | 26304        | 15031          |
| 2493                    | 16,01 | 29,73                   | 109,3                   | 3741       | 26448        | 15113          |
| 2820                    | 18,11 | 29,73                   | 96,6                    | 3741       | 25783        | 14733          |
| 3011                    | 19,33 | 29,73                   | 90,5                    | 3741       | 25321        | 14469          |
| 3116                    | 22,24 | 26,74                   | 78,7                    | 3857       | 26820        | 15326          |
| 2722                    | 25,26 | 20,57                   | 69,3                    | 4096       | 32131        | 18360          |
| 3053                    | 28,33 | 20,57                   | 61,8                    | 4096       | 31591        | 18052          |
| 3454                    | 32,05 | 20,57                   | 54,6                    | 4096       | 30742        | 17567          |
| 3688                    | 34,22 | 20,57                   | 51,1                    | 4096       | 30165        | 17237          |
| 4165                    | 39,38 | 20,19                   | 44,4                    | 4111       | 29206        | 16689          |

## IS143

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 3772                    | 45,77  | 16,07                   | 38,2                    | 4200       | 35000        | 18500          |
| 4202                    | 50,97  | 16,07                   | 34,3                    | 4200       | 34436        | 18500          |
| 4450                    | 57,17  | 15,17                   | 30,6                    | 4200       | 35000        | 18500          |
| 4488                    | 64,68  | 13,53                   | 27,1                    | 4200       | 35000        | 18500          |
| 4584                    | 69,06  | 12,94                   | 25,3                    | 4200       | 35000        | 18500          |
| 3979                    | 79,45  | 9,76                    | 22,0                    | 4200       | 35000        | 18500          |
| 4174                    | 98,81  | 8,23                    | 17,7                    | 4200       | 35000        | 18500          |
| 4450                    | 110,05 | 7,88                    | 15,9                    | 4200       | 35000        | 18500          |
| 4469                    | 123,44 | 7,06                    | 14,2                    | 4200       | 35000        | 18500          |
| 4550                    | 139,64 | 6,35                    | 12,5                    | 4200       | 35000        | 18500          |
| 4499                    | 149,10 | 5,88                    | 11,7                    | 4200       | 35000        | 18500          |
| 3573                    | 157,49 | 4,42                    | 11,1                    | 4200       | 35000        | 18500          |
| 4389                    | 171,55 | 4,99                    | 10,2                    | 4200       | 35000        | 18500          |
| 3980                    | 175,41 | 4,42                    | 10,0                    | 4200       | 35000        | 18500          |
| 4464                    | 196,74 | 4,42                    | 8,9                     | 4200       | 35000        | 18500          |
| 4432                    | 222,57 | 3,88                    | 7,9                     | 4200       | 35000        | 18500          |
| 4589                    | 237,63 | 3,76                    | 7,4                     | 4200       | 35000        | 18500          |
| 4504                    | 273,41 | 3,21                    | 6,4                     | 4200       | 35000        | 18500          |

## IS152

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 2419                    | 4,06 | 113,68                  | 430,9                   | 2971       | 23230        | 13274          |

## 5.2 IS GEAR REDUCER - 1750 rpm

## IS152

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 2699                    | 4,53  | 113,65                  | 386,1                   | 2972       | 23144        | 13225          |
| 2739                    | 5,20  | 100,47                  | 336,3                   | 3282       | 24645        | 14083          |
| 2765                    | 5,71  | 92,42                   | 306,4                   | 3471       | 25706        | 14689          |
| 2891                    | 6,52  | 84,58                   | 268,3                   | 3656       | 26853        | 15345          |
| 3063                    | 7,28  | 80,32                   | 240,4                   | 3756       | 27516        | 15724          |
| 3319                    | 8,36  | 75,81                   | 209,4                   | 3862       | 28240        | 16137          |
| 3526                    | 9,17  | 73,37                   | 190,8                   | 3919       | 28610        | 16349          |
| 3931                    | 10,42 | 72,02                   | 168,0                   | 3951       | 28583        | 16333          |
| 3107                    | 12,46 | 47,59                   | 140,4                   | 4525       | 35582        | 19400          |
| 3467                    | 13,91 | 47,57                   | 125,8                   | 4526       | 35686        | 19400          |
| 3980                    | 15,97 | 47,58                   | 109,6                   | 4526       | 35607        | 19400          |
| 4369                    | 17,53 | 47,59                   | 99,8                    | 4525       | 35408        | 19400          |
| 4963                    | 19,91 | 47,59                   | 87,9                    | 4525       | 34919        | 19400          |
| 5706                    | 22,88 | 47,60                   | 76,5                    | 4525       | 34041        | 19400          |
| 5724                    | 27,11 | 40,31                   | 64,6                    | 4697       | 37532        | 19400          |
| 6284                    | 29,75 | 40,32                   | 58,8                    | 4696       | 36818        | 19400          |
| 7137                    | 33,79 | 40,32                   | 51,8                    | 4696       | 35512        | 19400          |
| 7228                    | 38,84 | 35,52                   | 45,1                    | 4809       | 38394        | 19400          |

## IS153

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 5905                    | 40,10  | 28,70                   | 43,6                    | 4984       | 40000        | 19400          |
| 6589                    | 44,76  | 28,70                   | 39,1                    | 4984       | 40000        | 19400          |
| 7393                    | 51,38  | 28,05                   | 34,1                    | 4999       | 40000        | 19400          |
| 7759                    | 56,39  | 26,82                   | 31,0                    | 5027       | 40000        | 19400          |
| 8268                    | 64,05  | 25,16                   | 27,3                    | 5065       | 40000        | 19400          |
| 7313                    | 73,63  | 19,36                   | 23,8                    | 5199       | 40000        | 19400          |
| 6679                    | 87,16  | 14,94                   | 20,1                    | 5200       | 40000        | 19400          |
| 7455                    | 97,27  | 14,94                   | 18,0                    | 5200       | 40000        | 19400          |
| 8558                    | 111,67 | 14,94                   | 15,7                    | 5200       | 40000        | 19400          |
| 8964                    | 122,57 | 14,26                   | 14,3                    | 5200       | 40000        | 19400          |
| 8593                    | 139,21 | 12,03                   | 12,6                    | 5200       | 40000        | 19400          |
| 6701                    | 154,02 | 8,48                    | 11,4                    | 5200       | 40000        | 19400          |
| 7599                    | 160,02 | 9,26                    | 10,9                    | 5200       | 40000        | 19400          |
| 7693                    | 176,81 | 8,48                    | 9,9                     | 5200       | 40000        | 19400          |
| 8443                    | 194,06 | 8,48                    | 9,0                     | 5200       | 40000        | 19400          |
| 8792                    | 220,42 | 7,78                    | 7,9                     | 5200       | 40000        | 19400          |
| 7782                    | 253,36 | 5,99                    | 6,9                     | 5200       | 40000        | 19400          |

## 5.3 IS GEAR REDUCER - 1400 rpm

## IS052

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 170                     | 8,63  | 3,01                    | 162,3                   | 718        | 3375         | 3375           |
| 190                     | 11,14 | 2,60                    | 125,7                   | 810        | 3644         | 3644           |
| 200                     | 12,00 | 2,55                    | 116,7                   | 824        | 3703         | 3703           |
| 210                     | 13,66 | 2,35                    | 102,5                   | 869        | 3857         | 3857           |
| 240                     | 15,27 | 2,40                    | 91,7                    | 857        | 3874         | 3874           |
| 240                     | 16,29 | 2,25                    | 86,0                    | 891        | 3987         | 3987           |
| 240                     | 18,63 | 1,97                    | 75,1                    | 956        | 4231         | 4231           |
| 240                     | 19,73 | 1,86                    | 71,0                    | 981        | 4338         | 4338           |
| 260                     | 21,04 | 1,89                    | 66,5                    | 974        | 4345         | 4345           |
| 260                     | 21,53 | 1,84                    | 65,0                    | 984        | 4390         | 4390           |
| 260                     | 24,07 | 1,65                    | 58,2                    | 1029       | 4611         | 4611           |
| 290                     | 25,20 | 1,76                    | 55,6                    | 1004       | 4530         | 4530           |
| 290                     | 25,79 | 1,72                    | 54,3                    | 1013       | 4578         | 4578           |
| 290                     | 27,81 | 1,59                    | 50,3                    | 1042       | 4736         | 4736           |
| 290                     | 30,00 | 1,48                    | 46,7                    | 1069       | 4898         | 4898           |
| 300                     | 32,55 | 1,41                    | 43,0                    | 1084       | 5020         | 5020           |
| 300                     | 33,00 | 1,39                    | 42,4                    | 1089       | 5051         | 5051           |
| 300                     | 34,09 | 1,34                    | 41,1                    | 1099       | 5124         | 5124           |
| 330                     | 36,55 | 1,38                    | 38,3                    | 1091       | 5109         | 5109           |
| 330                     | 38,75 | 1,30                    | 36,1                    | 1109       | 5246         | 5246           |
| 350                     | 39,90 | 1,34                    | 35,1                    | 1100       | 5200         | 5200           |
| 350                     | 42,63 | 1,25                    | 32,8                    | 1119       | 5359         | 5359           |
| 350                     | 46,00 | 1,16                    | 30,4                    | 1140       | 5547         | 5547           |
| 350                     | 47,20 | 1,13                    | 29,7                    | 1147       | 5612         | 5612           |
| 350                     | 52,25 | 1,02                    | 26,8                    | 1172       | 5873         | 5873           |
| 350                     | 57,86 | 0,92                    | 24,2                    | 1195       | 6000         | 6000           |
| 350                     | 59,42 | 0,90                    | 23,6                    | 1201       | 6000         | 6000           |
| 350                     | 72,83 | 0,73                    | 19,2                    | 1238       | 6000         | 6000           |

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 350                     | 36,50  | 1,50                    | 38,4                    | 1071       | 4990         | 4990           |
| 350                     | 47,14  | 1,16                    | 29,7                    | 1147       | 5609         | 5609           |
| 350                     | 57,79  | 0,94                    | 24,2                    | 1195       | 6000         | 6000           |
| 350                     | 63,74  | 0,86                    | 22,0                    | 1214       | 6000         | 6000           |
| 350                     | 74,20  | 0,74                    | 18,9                    | 1242       | 6000         | 6000           |
| 350                     | 78,14  | 0,70                    | 17,9                    | 1250       | 6000         | 6000           |
| 350                     | 95,84  | 0,57                    | 14,6                    | 1279       | 6000         | 6000           |
| 350                     | 117,48 | 0,46                    | 11,9                    | 1302       | 6000         | 6000           |
| 350                     | 137,45 | 0,40                    | 10,2                    | 1317       | 6000         | 6000           |
| 350                     | 177,55 | 0,31                    | 7,9                     | 1338       | 6000         | 6000           |

## 5.3 IS GEAR REDUCER - 1400 rpm

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 350                     | 198,45 | 0,28                    | 7,0                     | 1345       | 6000         | 6000           |
| 350                     | 217,64 | 0,25                    | 6,4                     | 1350       | 6000         | 6000           |
| 350                     | 256,33 | 0,21                    | 5,5                     | 1359       | 6000         | 6000           |
| 350                     | 314,21 | 0,17                    | 4,5                     | 1367       | 6000         | 6000           |

## IS062

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 330                     | 8,00  | 6,30                    | 175,0                   | 350        | 5225         | 2090           |
| 330                     | 8,92  | 5,65                    | 156,9                   | 459        | 5494         | 2197           |
| 360                     | 9,55  | 5,76                    | 146,7                   | 441        | 5474         | 2190           |
| 360                     | 10,65 | 5,16                    | 131,5                   | 541        | 5759         | 2303           |
| 390                     | 11,71 | 5,09                    | 119,6                   | 554        | 5825         | 2330           |
| 420                     | 13,06 | 4,91                    | 107,2                   | 583        | 5939         | 2376           |
| 420                     | 13,36 | 4,80                    | 104,8                   | 602        | 6004         | 2401           |
| 450                     | 15,94 | 4,31                    | 87,8                    | 684        | 6334         | 2533           |
| 450                     | 16,16 | 4,25                    | 86,6                    | 694        | 6376         | 2551           |
| 450                     | 19,29 | 3,56                    | 72,6                    | 810        | 6930         | 2772           |
| 460                     | 19,55 | 3,59                    | 71,6                    | 805        | 6911         | 2764           |
| 470                     | 23,18 | 3,10                    | 60,4                    | 888        | 7415         | 2966           |
| 470                     | 23,75 | 3,02                    | 59,0                    | 901        | 7499         | 3000           |
| 480                     | 25,14 | 2,92                    | 55,7                    | 919        | 7635         | 3054           |
| 480                     | 27,66 | 2,65                    | 50,6                    | 963        | 7976         | 3190           |
| 500                     | 30,00 | 2,55                    | 46,7                    | 981        | 8149         | 3260           |
| 540                     | 33,93 | 2,43                    | 41,3                    | 1000       | 8364         | 3346           |
| 600                     | 36,57 | 2,51                    | 38,3                    | 988        | 8280         | 3312           |
| 600                     | 39,38 | 2,33                    | 35,6                    | 1018       | 8578         | 3431           |
| 600                     | 43,64 | 2,10                    | 32,1                    | 1056       | 9005         | 3602           |
| 600                     | 46,10 | 1,99                    | 30,4                    | 1075       | 9239         | 3695           |
| 600                     | 48,30 | 1,90                    | 29,0                    | 1090       | 9441         | 3776           |
| 600                     | 53,53 | 1,71                    | 26,1                    | 1121       | 9898         | 3959           |
| 600                     | 55,00 | 1,67                    | 25,4                    | 1129       | 10000        | 4000           |
| 600                     | 67,47 | 1,36                    | 20,8                    | 1181       | 10000        | 4000           |

## IS063

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 600                     | 33,57 | 2,79                    | 41,7                    | 950        | 7943         | 3177           |
| 600                     | 37,77 | 2,48                    | 37,1                    | 1001       | 8409         | 3364           |
| 600                     | 40,05 | 2,34                    | 35,0                    | 1024       | 8648         | 3459           |
| 600                     | 49,13 | 1,90                    | 28,5                    | 1095       | 9516         | 3806           |

## 5.3 IS GEAR REDUCER - 1400 rpm

## IS063

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 600                     | 55,29  | 1,69                    | 25,3                    | 1130       | 10000        | 4000           |
| 600                     | 58,72  | 1,59                    | 23,8                    | 1147       | 10000        | 4000           |
| 600                     | 65,85  | 1,42                    | 21,3                    | 1175       | 10000        | 4000           |
| 600                     | 68,25  | 1,37                    | 20,5                    | 1183       | 10000        | 4000           |
| 600                     | 73,63  | 1,27                    | 19,0                    | 1200       | 10000        | 4000           |
| 600                     | 81,43  | 1,15                    | 17,2                    | 1220       | 10000        | 4000           |
| 600                     | 99,89  | 0,94                    | 14,0                    | 1255       | 10000        | 4000           |
| 600                     | 126,43 | 0,74                    | 11,1                    | 1287       | 10000        | 4000           |
| 600                     | 150,85 | 0,62                    | 9,3                     | 1307       | 10000        | 4000           |
| 600                     | 182,53 | 0,51                    | 7,7                     | 1324       | 10000        | 4000           |
| 600                     | 185,05 | 0,51                    | 7,6                     | 1326       | 10000        | 4000           |
| 600                     | 217,79 | 0,43                    | 6,4                     | 1338       | 10000        | 4000           |
| 600                     | 267,16 | 0,35                    | 5,2                     | 1351       | 10000        | 4000           |

## IS082

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 550                     | 7,34  | 11,44                   | 190,8                   | 1261       | 12030        | 3437           |
| 600                     | 8,06  | 11,36                   | 173,6                   | 1273       | 12302        | 3515           |
| 650                     | 9,94  | 9,98                    | 140,8                   | 1482       | 13161        | 3760           |
| 700                     | 11,61 | 9,21                    | 120,6                   | 1598       | 13797        | 3942           |
| 750                     | 12,75 | 8,98                    | 109,8                   | 1632       | 14140        | 4040           |
| 760                     | 14,04 | 8,26                    | 99,7                    | 1741       | 14645        | 4184           |
| 770                     | 15,43 | 7,62                    | 90,7                    | 1838       | 15153        | 4329           |
| 770                     | 15,73 | 7,48                    | 89,0                    | 1859       | 15264        | 4361           |
| 770                     | 17,29 | 6,80                    | 81,0                    | 1962       | 15832        | 4523           |
| 770                     | 19,03 | 6,18                    | 73,6                    | 2055       | 16420        | 4691           |
| 770                     | 20,14 | 5,84                    | 69,5                    | 2107       | 16778        | 4794           |
| 800                     | 22,13 | 5,52                    | 63,3                    | 2154       | 17288        | 4939           |
| 800                     | 24,00 | 5,09                    | 58,3                    | 2219       | 17830        | 5094           |
| 800                     | 26,05 | 4,69                    | 53,8                    | 2280       | 18000        | 5254           |
| 900                     | 27,29 | 5,04                    | 51,3                    | 2228       | 18000        | 5253           |
| 900                     | 28,67 | 4,79                    | 48,8                    | 2264       | 18000        | 5354           |
| 900                     | 29,60 | 4,64                    | 47,3                    | 2287       | 18000        | 5419           |
| 1000                    | 31,78 | 4,81                    | 44,1                    | 2262       | 18000        | 5474           |
| 1000                    | 34,91 | 4,37                    | 40,1                    | 2327       | 18000        | 5676           |
| 1000                    | 35,50 | 4,30                    | 39,4                    | 2338       | 18000        | 5713           |
| 1000                    | 40,05 | 3,81                    | 35,0                    | 2412       | 18000        | 5983           |
| 1000                    | 43,05 | 3,55                    | 32,5                    | 2452       | 18000        | 6150           |
| 1000                    | 50,25 | 3,04                    | 27,9                    | 2529       | 18000        | 6521           |
| 1000                    | 54,27 | 2,81                    | 25,8                    | 2563       | 18000        | 6712           |
| 1000                    | 61,98 | 2,46                    | 22,6                    | 2616       | 18000        | 7055           |

## 5.3 IS GEAR REDUCER - 1400 rpm

## IS083

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1000                    | 67,52  | 2,31                    | 20,7                    | 2646       | 18000        | 7200           |
| 1000                    | 74,18  | 2,10                    | 18,9                    | 2677       | 18000        | 7200           |
| 1000                    | 81,71  | 1,91                    | 17,1                    | 2705       | 18000        | 7200           |
| 1000                    | 91,49  | 1,70                    | 15,3                    | 2735       | 18000        | 7200           |
| 1000                    | 100,62 | 1,55                    | 13,9                    | 2758       | 18000        | 7200           |
| 1000                    | 117,17 | 1,33                    | 11,9                    | 2791       | 18000        | 7200           |
| 1000                    | 128,73 | 1,21                    | 10,9                    | 2808       | 18000        | 7200           |
| 1000                    | 136,34 | 1,14                    | 10,3                    | 2818       | 18000        | 7200           |
| 1000                    | 158,76 | 0,98                    | 8,8                     | 2842       | 18000        | 7200           |
| 1000                    | 184,88 | 0,84                    | 7,6                     | 2863       | 18000        | 7200           |
| 1000                    | 203,11 | 0,77                    | 6,9                     | 2874       | 18000        | 7200           |
| 1000                    | 205,34 | 0,76                    | 6,8                     | 2875       | 18000        | 7200           |
| 1000                    | 226,04 | 0,69                    | 6,2                     | 2885       | 18000        | 7200           |
| 1000                    | 250,50 | 0,62                    | 5,6                     | 2895       | 18000        | 7200           |
| 1000                    | 266,13 | 0,59                    | 5,3                     | 2901       | 18000        | 7200           |
| 1000                    | 292,36 | 0,53                    | 4,8                     | 2908       | 18000        | 7200           |
| 1000                    | 315,73 | 0,49                    | 4,4                     | 2914       | 18000        | 7200           |
| 1000                    | 360,58 | 0,43                    | 3,9                     | 2923       | 18000        | 7200           |

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 850                     | 8,06  | 16,10                   | 173,6                   | 647        | 15163        | 4332           |
| 900                     | 8,85  | 15,54                   | 158,3                   | 729        | 15574        | 4450           |
| 950                     | 10,88 | 13,33                   | 128,6                   | 1050       | 16712        | 4775           |
| 1000                    | 12,75 | 11,98                   | 109,8                   | 1247       | 17610        | 5032           |
| 1200                    | 13,99 | 13,10                   | 100,1                   | 1084       | 17719        | 5063           |
| 1250                    | 15,43 | 12,37                   | 90,7                    | 1189       | 18274        | 5221           |
| 1300                    | 17,21 | 11,53                   | 81,3                    | 1311       | 18935        | 5410           |
| 1400                    | 19,00 | 11,25                   | 73,7                    | 1352       | 19415        | 5547           |
| 1400                    | 20,83 | 10,26                   | 67,2                    | 1496       | 20125        | 5750           |
| 1400                    | 22,13 | 9,66                    | 63,3                    | 1583       | 20603        | 5886           |
| 1500                    | 24,28 | 9,44                    | 57,7                    | 1616       | 21097        | 6028           |
| 1500                    | 26,33 | 8,70                    | 53,2                    | 1724       | 21777        | 6222           |
| 1500                    | 29,87 | 7,67                    | 46,9                    | 1873       | 22000        | 6533           |
| 1500                    | 32,40 | 7,07                    | 43,2                    | 1961       | 22000        | 6741           |
| 1400                    | 34,91 | 6,12                    | 40,1                    | 2098       | 22000        | 7011           |
| 1500                    | 38,30 | 5,98                    | 36,5                    | 2119       | 22000        | 7187           |
| 1400                    | 42,53 | 5,03                    | 32,9                    | 2258       | 22000        | 7553           |
| 1300                    | 44,00 | 4,51                    | 31,8                    | 2333       | 22000        | 7724           |
| 1600                    | 47,13 | 5,18                    | 29,7                    | 2235       | 22000        | 7701           |
| 1400                    | 50,25 | 4,25                    | 27,9                    | 2370       | 22000        | 8039           |

## 5.3 IS GEAR REDUCER - 1400 rpm

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1300                    | 55,14 | 3,60                    | 25,4                    | 2465       | 22000        | 8396           |
| 1600                    | 59,40 | 4,11                    | 23,6                    | 2391       | 22000        | 8406           |
| 1600                    | 67,84 | 3,60                    | 20,6                    | 2465       | 22000        | 8836           |

## IS103

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1600                    | 74,18  | 3,36                    | 18,9                    | 2510       | 22000        | 9000           |
| 1600                    | 81,39  | 3,07                    | 17,2                    | 2552       | 22000        | 9000           |
| 1600                    | 89,77  | 2,78                    | 15,6                    | 2593       | 22000        | 9000           |
| 1600                    | 100,15 | 2,49                    | 14,0                    | 2634       | 22000        | 9000           |
| 1600                    | 110,55 | 2,26                    | 12,7                    | 2667       | 22000        | 9000           |
| 1600                    | 121,29 | 2,06                    | 11,5                    | 2696       | 22000        | 9000           |
| 1600                    | 128,73 | 1,94                    | 10,9                    | 2713       | 22000        | 9000           |
| 1600                    | 141,24 | 1,77                    | 9,9                     | 2737       | 22000        | 9000           |
| 1600                    | 173,78 | 1,44                    | 8,1                     | 2784       | 22000        | 9000           |
| 1600                    | 188,51 | 1,32                    | 7,4                     | 2800       | 22000        | 9000           |
| 1600                    | 203,11 | 1,23                    | 6,9                     | 2814       | 22000        | 9000           |
| 1600                    | 222,85 | 1,12                    | 6,3                     | 2829       | 22000        | 9000           |
| 1600                    | 224,76 | 1,11                    | 6,2                     | 2831       | 22000        | 9000           |
| 1600                    | 274,20 | 0,91                    | 5,1                     | 2859       | 22000        | 9000           |
| 1600                    | 280,89 | 0,89                    | 5,0                     | 2862       | 22000        | 9000           |
| 1600                    | 292,36 | 0,85                    | 4,8                     | 2867       | 22000        | 9000           |
| 1600                    | 320,79 | 0,78                    | 4,4                     | 2878       | 22000        | 9000           |
| 1600                    | 345,60 | 0,72                    | 4,0                     | 2886       | 22000        | 9000           |
| 1600                    | 394,69 | 0,63                    | 3,5                     | 2899       | 22000        | 9000           |

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1500                    | 8,48  | 27,00                   | 165,1                   | 2951       | 19587        | 5596           |
| 1700                    | 9,30  | 27,92                   | 150,6                   | 2916       | 19606        | 5602           |
| 1700                    | 10,24 | 25,36                   | 136,7                   | 3013       | 20448        | 5842           |
| 1900                    | 11,42 | 25,41                   | 122,6                   | 3010       | 20674        | 5907           |
| 2200                    | 12,63 | 26,61                   | 110,9                   | 2966       | 20480        | 5851           |
| 2400                    | 13,84 | 26,48                   | 101,2                   | 2970       | 20608        | 5888           |
| 2600                    | 16,99 | 23,36                   | 82,4                    | 3087       | 21932        | 6266           |
| 2800                    | 21,25 | 20,12                   | 65,9                    | 3209       | 23608        | 6745           |
| 2800                    | 22,37 | 19,12                   | 62,6                    | 3247       | 24191        | 6912           |
| 2900                    | 23,29 | 19,01                   | 60,1                    | 3251       | 24280        | 6937           |
| 3000                    | 26,15 | 17,52                   | 53,5                    | 3307       | 25277        | 7222           |

## 5.3 IS GEAR REDUCER - 1400 rpm

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 3000                    | 28,60 | 16,02                   | 49,0                    | 3364       | 26374        | 7535           |
| 3000                    | 30,51 | 15,01                   | 45,9                    | 3401       | 27189        | 7768           |
| 3000                    | 32,76 | 13,99                   | 42,7                    | 3440       | 28102        | 8029           |
| 3000                    | 33,44 | 13,70                   | 41,9                    | 3451       | 28374        | 8107           |
| 3000                    | 35,20 | 13,01                   | 39,8                    | 3476       | 29050        | 8300           |
| 3000                    | 41,07 | 11,16                   | 34,1                    | 3546       | 30000        | 8903           |
| 3000                    | 43,60 | 10,51                   | 32,1                    | 3571       | 30000        | 9145           |
| 2400                    | 44,63 | 8,21                    | 31,4                    | 3657       | 30000        | 9890           |
| 2400                    | 49,04 | 7,47                    | 28,6                    | 3685       | 30000        | 10285          |
| 2600                    | 53,75 | 7,39                    | 26,1                    | 3688       | 30000        | 10464          |
| 3000                    | 66,00 | 6,94                    | 21,2                    | 3705       | 30000        | 10962          |

## IS123

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 2700                    | 64,84  | 6,49                    | 21,6                    | 3727       | 30000        | 11200          |
| 2700                    | 71,07  | 5,92                    | 19,7                    | 3748       | 30000        | 11200          |
| 3000                    | 78,46  | 5,96                    | 17,8                    | 3746       | 30000        | 11200          |
| 3000                    | 87,27  | 5,36                    | 16,0                    | 3768       | 30000        | 11200          |
| 3000                    | 105,91 | 4,42                    | 13,2                    | 3803       | 30000        | 11200          |
| 3000                    | 112,52 | 4,16                    | 12,4                    | 3813       | 30000        | 11200          |
| 3000                    | 123,33 | 3,79                    | 11,3                    | 3826       | 30000        | 11200          |
| 3000                    | 130,04 | 3,60                    | 10,8                    | 3833       | 30000        | 11200          |
| 3000                    | 133,78 | 3,50                    | 10,5                    | 3837       | 30000        | 11200          |
| 3000                    | 151,43 | 3,09                    | 9,2                     | 3852       | 30000        | 11200          |
| 3000                    | 177,53 | 2,64                    | 7,9                     | 3869       | 30000        | 11200          |
| 3000                    | 194,59 | 2,40                    | 7,2                     | 3877       | 30000        | 11200          |
| 3000                    | 215,60 | 2,17                    | 6,5                     | 3886       | 30000        | 11200          |
| 3000                    | 238,93 | 1,96                    | 5,9                     | 3894       | 30000        | 11200          |
| 3000                    | 255,54 | 1,83                    | 5,5                     | 3898       | 30000        | 11200          |

## IS142

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 1389                    | 4,12 | 51,51                   | 340,0                   | 2398       | 20752        | 11858          |
| 1548                    | 4,59 | 51,55                   | 305,3                   | 2397       | 20645        | 11797          |
| 1737                    | 5,14 | 51,58                   | 272,2                   | 2395       | 20421        | 11669          |
| 1964                    | 5,82 | 51,54                   | 240,6                   | 2397       | 20052        | 11458          |
| 2099                    | 6,21 | 51,59                   | 225,3                   | 2395       | 19762        | 11293          |
| 1915                    | 7,32 | 39,97                   | 191,3                   | 2957       | 23226        | 13272          |
| 2149                    | 8,21 | 39,98                   | 170,6                   | 2957       | 22867        | 13067          |

## 5.3 IS GEAR REDUCER - 1400 rpm

## IS142

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 2432                    | 9,29  | 39,99                   | 150,8                   | 2956       | 22289        | 12736          |
| 2597                    | 9,91  | 40,00                   | 141,2                   | 2956       | 21893        | 12510          |
| 2816                    | 11,41 | 37,70                   | 122,7                   | 3067       | 22171        | 12669          |
| 2620                    | 12,81 | 31,23                   | 109,3                   | 3381       | 25452        | 14544          |
| 2440                    | 14,27 | 26,11                   | 98,1                    | 3628       | 28542        | 16309          |
| 2652                    | 16,01 | 25,30                   | 87,5                    | 3668       | 28716        | 16409          |
| 3000                    | 18,11 | 25,30                   | 77,3                    | 3668       | 28033        | 16019          |
| 3204                    | 19,33 | 25,30                   | 72,4                    | 3667       | 27555        | 15746          |
| 3315                    | 22,24 | 22,76                   | 62,9                    | 3791       | 29179        | 16674          |
| 2896                    | 25,26 | 17,51                   | 55,4                    | 4045       | 34856        | 18500          |
| 3248                    | 28,33 | 17,50                   | 49,4                    | 4045       | 34308        | 18500          |
| 3674                    | 32,05 | 17,50                   | 43,7                    | 4045       | 33434        | 18500          |
| 3923                    | 34,22 | 17,50                   | 40,9                    | 4045       | 32836        | 18500          |
| 4431                    | 39,38 | 17,18                   | 35,6                    | 4061       | 31852        | 18201          |

## IS143

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 4013                    | 45,77  | 13,67                   | 30,6                    | 4200       | 35000        | 18500          |
| 4470                    | 50,97  | 13,68                   | 27,5                    | 4200       | 35000        | 18500          |
| 4735                    | 57,17  | 12,91                   | 24,5                    | 4200       | 35000        | 18500          |
| 4774                    | 64,68  | 11,51                   | 21,6                    | 4200       | 35000        | 18500          |
| 4876                    | 69,06  | 11,01                   | 20,3                    | 4200       | 35000        | 18500          |
| 4233                    | 79,45  | 8,31                    | 17,6                    | 4200       | 35000        | 18500          |
| 4440                    | 98,81  | 7,01                    | 14,2                    | 4200       | 35000        | 18500          |
| 4734                    | 110,05 | 6,71                    | 12,7                    | 4200       | 35000        | 18500          |
| 4754                    | 123,44 | 6,01                    | 11,3                    | 4200       | 35000        | 18500          |
| 4841                    | 139,64 | 5,41                    | 10,0                    | 4200       | 35000        | 18500          |
| 4786                    | 149,10 | 5,01                    | 9,4                     | 4200       | 35000        | 18500          |
| 3801                    | 157,49 | 3,76                    | 8,9                     | 4200       | 35000        | 18500          |
| 4669                    | 171,55 | 4,24                    | 8,2                     | 4200       | 35000        | 18500          |
| 4234                    | 175,41 | 3,76                    | 8,0                     | 4200       | 35000        | 18500          |
| 4749                    | 196,74 | 3,76                    | 7,1                     | 4200       | 35000        | 18500          |
| 4715                    | 222,57 | 3,30                    | 6,3                     | 4200       | 35000        | 18500          |
| 4882                    | 237,63 | 3,20                    | 5,9                     | 4200       | 35000        | 18500          |
| 4792                    | 273,41 | 2,73                    | 5,1                     | 4200       | 35000        | 18500          |

## IS152

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 2573                    | 4,06 | 96,75                   | 344,7                   | 2801       | 25156        | 14375          |

## 5.3 IS GEAR REDUCER - 1400 rpm

## IS152

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 2871                    | 4,53  | 96,72                   | 308,9                   | 2802       | 25081        | 14332          |
| 2914                    | 5,20  | 85,51                   | 269,0                   | 3131       | 26699        | 15256          |
| 2942                    | 5,71  | 78,66                   | 245,1                   | 3333       | 27843        | 15910          |
| 3075                    | 6,52  | 71,99                   | 214,6                   | 3529       | 29085        | 16620          |
| 3259                    | 7,28  | 68,36                   | 192,3                   | 3635       | 29810        | 17034          |
| 3531                    | 8,36  | 64,52                   | 167,5                   | 3748       | 30605        | 17488          |
| 3751                    | 9,17  | 62,44                   | 152,6                   | 3809       | 31016        | 17723          |
| 4182                    | 10,42 | 61,29                   | 134,4                   | 3843       | 31012        | 17721          |
| 3306                    | 12,46 | 40,50                   | 112,3                   | 4454       | 38494        | 19400          |
| 3688                    | 13,91 | 40,49                   | 100,7                   | 4454       | 38629        | 19400          |
| 4234                    | 15,97 | 40,49                   | 87,7                    | 4454       | 38576        | 19400          |
| 4648                    | 17,53 | 40,50                   | 79,9                    | 4454       | 38385        | 19400          |
| 5280                    | 19,91 | 40,50                   | 70,3                    | 4454       | 37896        | 19400          |
| 6070                    | 22,88 | 40,51                   | 61,2                    | 4454       | 36997        | 19400          |
| 6089                    | 27,11 | 34,30                   | 51,6                    | 4636       | 40000        | 19400          |
| 6685                    | 29,75 | 34,31                   | 47,1                    | 4636       | 40000        | 19400          |
| 7592                    | 33,79 | 34,31                   | 41,4                    | 4636       | 38670        | 19400          |
| 7689                    | 38,84 | 30,23                   | 36,0                    | 4756       | 40000        | 19400          |

## IS153

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 6281                    | 40,10  | 24,43                   | 34,9                    | 4941       | 40000        | 19400          |
| 7010                    | 44,76  | 24,43                   | 31,3                    | 4941       | 40000        | 19400          |
| 7865                    | 51,38  | 23,87                   | 27,2                    | 4957       | 40000        | 19400          |
| 8254                    | 56,39  | 22,83                   | 24,8                    | 4987       | 40000        | 19400          |
| 8795                    | 64,05  | 21,41                   | 21,9                    | 5028       | 40000        | 19400          |
| 7779                    | 73,63  | 16,48                   | 19,0                    | 5170       | 40000        | 19400          |
| 7105                    | 87,16  | 12,71                   | 16,1                    | 5200       | 40000        | 19400          |
| 7931                    | 97,27  | 12,71                   | 14,4                    | 5200       | 40000        | 19400          |
| 9104                    | 111,67 | 12,71                   | 12,5                    | 5200       | 40000        | 19400          |
| 9536                    | 122,57 | 12,13                   | 11,4                    | 5200       | 40000        | 19400          |
| 9142                    | 139,21 | 10,24                   | 10,1                    | 5200       | 40000        | 19400          |
| 7129                    | 154,02 | 7,22                    | 9,1                     | 5200       | 40000        | 19400          |
| 8084                    | 160,02 | 7,88                    | 8,8                     | 5200       | 40000        | 19400          |
| 8184                    | 176,81 | 7,22                    | 7,9                     | 5200       | 40000        | 19400          |
| 8982                    | 194,06 | 7,22                    | 7,2                     | 5200       | 40000        | 19400          |
| 9353                    | 220,42 | 6,62                    | 6,3                     | 5200       | 40000        | 19400          |
| 8279                    | 253,36 | 5,10                    | 5,5                     | 5200       | 40000        | 19400          |

## 5.4 IS GEAR REDUCER - 1140 rpm

## IS052

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 174                     | 8,63  | 2,51                    | 132,2                   | 700        | 3657         | 3657           |
| 195                     | 11,14 | 2,17                    | 102,3                   | 795        | 3949         | 3949           |
| 205                     | 12,00 | 2,12                    | 95,0                    | 809        | 4016         | 4016           |
| 215                     | 13,66 | 1,96                    | 83,5                    | 855        | 4183         | 4183           |
| 246                     | 15,27 | 2,00                    | 74,6                    | 843        | 4209         | 4209           |
| 246                     | 16,29 | 1,88                    | 70,0                    | 878        | 4330         | 4330           |
| 246                     | 18,63 | 1,64                    | 61,2                    | 945        | 4591         | 4591           |
| 246                     | 19,73 | 1,55                    | 57,8                    | 971        | 4706         | 4706           |
| 267                     | 21,04 | 1,58                    | 54,2                    | 964        | 4718         | 4718           |
| 267                     | 21,53 | 1,54                    | 53,0                    | 974        | 4766         | 4766           |
| 267                     | 24,07 | 1,38                    | 47,4                    | 1019       | 5003         | 5003           |
| 297                     | 25,20 | 1,47                    | 45,2                    | 994        | 4924         | 4924           |
| 297                     | 25,79 | 1,43                    | 44,2                    | 1003       | 4975         | 4975           |
| 297                     | 27,81 | 1,33                    | 41,0                    | 1033       | 5144         | 5144           |
| 297                     | 30,00 | 1,23                    | 38,0                    | 1060       | 5318         | 5318           |
| 308                     | 32,55 | 1,17                    | 35,0                    | 1076       | 5451         | 5451           |
| 308                     | 33,00 | 1,16                    | 34,5                    | 1081       | 5484         | 5484           |
| 308                     | 34,09 | 1,12                    | 33,4                    | 1091       | 5562         | 5562           |
| 338                     | 36,55 | 1,15                    | 31,2                    | 1083       | 5554         | 5554           |
| 338                     | 38,75 | 1,09                    | 29,4                    | 1101       | 5701         | 5701           |
| 359                     | 39,90 | 1,12                    | 28,6                    | 1092       | 5656         | 5656           |
| 359                     | 42,63 | 1,05                    | 26,7                    | 1112       | 5827         | 5827           |
| 359                     | 46,00 | 0,97                    | 24,8                    | 1134       | 6000         | 6000           |
| 359                     | 47,20 | 0,95                    | 24,1                    | 1141       | 6000         | 6000           |
| 359                     | 52,25 | 0,85                    | 21,8                    | 1166       | 6000         | 6000           |
| 359                     | 57,86 | 0,77                    | 19,7                    | 1190       | 6000         | 6000           |
| 359                     | 59,42 | 0,75                    | 19,2                    | 1195       | 6000         | 6000           |
| 359                     | 72,83 | 0,61                    | 15,7                    | 1234       | 6000         | 6000           |

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 359                     | 36,50  | 1,25                    | 31,2                    | 1063       | 5432         | 5432           |
| 359                     | 47,14  | 0,97                    | 24,2                    | 1140       | 6000         | 6000           |
| 359                     | 57,79  | 0,79                    | 19,7                    | 1189       | 6000         | 6000           |
| 359                     | 63,74  | 0,71                    | 17,9                    | 1210       | 6000         | 6000           |
| 359                     | 74,20  | 0,61                    | 15,4                    | 1237       | 6000         | 6000           |
| 359                     | 78,14  | 0,58                    | 14,6                    | 1246       | 6000         | 6000           |
| 359                     | 95,84  | 0,48                    | 11,9                    | 1276       | 6000         | 6000           |
| 359                     | 117,48 | 0,39                    | 9,7                     | 1300       | 6000         | 6000           |
| 359                     | 137,45 | 0,33                    | 8,3                     | 1315       | 6000         | 6000           |
| 359                     | 177,55 | 0,26                    | 6,4                     | 1336       | 6000         | 6000           |

## 5.4 IS GEAR REDUCER - 1140 rpm

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 359                     | 198,45 | 0,23                    | 5,7                     | 1343       | 6000         | 6000           |
| 359                     | 217,64 | 0,21                    | 5,2                     | 1349       | 6000         | 6000           |
| 359                     | 256,33 | 0,18                    | 4,5                     | 1357       | 6000         | 6000           |
| 359                     | 314,21 | 0,14                    | 3,6                     | 1367       | 6000         | 6000           |

## IS062

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 338                     | 8,00  | 5,26                    | 142,5                   | 323        | 5686         | 2275           |
| 338                     | 8,92  | 4,71                    | 127,8                   | 435        | 5973         | 2389           |
| 369                     | 9,55  | 4,81                    | 119,4                   | 416        | 5962         | 2385           |
| 369                     | 10,65 | 4,31                    | 107,1                   | 519        | 6266         | 2506           |
| 400                     | 11,71 | 4,25                    | 97,4                    | 532        | 6346         | 2538           |
| 431                     | 13,06 | 4,10                    | 87,3                    | 562        | 6476         | 2590           |
| 431                     | 13,36 | 4,01                    | 85,3                    | 581        | 6545         | 2618           |
| 461                     | 15,94 | 3,60                    | 71,5                    | 666        | 6907         | 2763           |
| 461                     | 16,16 | 3,55                    | 70,5                    | 676        | 6952         | 2781           |
| 461                     | 19,29 | 2,97                    | 59,1                    | 795        | 7545         | 3018           |
| 472                     | 19,55 | 3,00                    | 58,3                    | 790        | 7527         | 3011           |
| 482                     | 23,18 | 2,58                    | 49,2                    | 875        | 8070         | 3228           |
| 482                     | 23,75 | 2,52                    | 48,0                    | 888        | 8160         | 3264           |
| 492                     | 25,14 | 2,43                    | 45,3                    | 906        | 8308         | 3323           |
| 492                     | 27,66 | 2,21                    | 41,2                    | 952        | 8673         | 3469           |
| 513                     | 30,00 | 2,12                    | 38,0                    | 970        | 8864         | 3545           |
| 554                     | 33,93 | 2,03                    | 33,6                    | 990        | 9105         | 3642           |
| 615                     | 36,57 | 2,09                    | 31,2                    | 977        | 9032         | 3613           |
| 615                     | 39,38 | 1,94                    | 28,9                    | 1008       | 9351         | 3740           |
| 615                     | 43,64 | 1,75                    | 26,1                    | 1047       | 9808         | 3923           |
| 615                     | 46,10 | 1,66                    | 24,7                    | 1066       | 10000        | 4000           |
| 615                     | 48,30 | 1,58                    | 23,6                    | 1082       | 10000        | 4000           |
| 615                     | 53,53 | 1,43                    | 21,3                    | 1114       | 10000        | 4000           |
| 615                     | 55,00 | 1,39                    | 20,7                    | 1122       | 10000        | 4000           |
| 615                     | 67,47 | 1,13                    | 16,9                    | 1175       | 10000        | 4000           |

## IS063

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 615                     | 33,57 | 2,33                    | 34,0                    | 939        | 8672         | 3469           |
| 615                     | 37,77 | 2,07                    | 30,2                    | 991        | 9171         | 3668           |
| 615                     | 40,05 | 1,95                    | 28,5                    | 1015       | 9426         | 3770           |
| 615                     | 49,13 | 1,59                    | 23,2                    | 1088       | 10000        | 4000           |

## 5.4 IS GEAR REDUCER - 1140 rpm

## IS063

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 615                     | 55,29  | 1,41                    | 20,6                    | 1123       | 10000        | 4000           |
| 615                     | 58,72  | 1,33                    | 19,4                    | 1140       | 10000        | 4000           |
| 615                     | 65,85  | 1,19                    | 17,3                    | 1169       | 10000        | 4000           |
| 615                     | 68,25  | 1,14                    | 16,7                    | 1178       | 10000        | 4000           |
| 615                     | 73,63  | 1,06                    | 15,5                    | 1194       | 10000        | 4000           |
| 615                     | 81,43  | 0,96                    | 14,0                    | 1215       | 10000        | 4000           |
| 615                     | 99,89  | 0,78                    | 11,4                    | 1251       | 10000        | 4000           |
| 615                     | 126,43 | 0,62                    | 9,0                     | 1284       | 10000        | 4000           |
| 615                     | 150,85 | 0,52                    | 7,6                     | 1304       | 10000        | 4000           |
| 615                     | 182,53 | 0,43                    | 6,2                     | 1322       | 10000        | 4000           |
| 615                     | 185,05 | 0,42                    | 6,2                     | 1324       | 10000        | 4000           |
| 615                     | 217,79 | 0,36                    | 5,2                     | 1336       | 10000        | 4000           |
| 615                     | 267,16 | 0,29                    | 4,3                     | 1350       | 10000        | 4000           |

## IS082

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 564                     | 7,34  | 9,55                    | 155,3                   | 1218       | 12956        | 3702           |
| 615                     | 8,06  | 9,48                    | 141,4                   | 1230       | 13254        | 3787           |
| 666                     | 9,94  | 8,33                    | 114,6                   | 1444       | 14180        | 4052           |
| 718                     | 11,61 | 7,69                    | 98,2                    | 1563       | 14869        | 4248           |
| 769                     | 12,75 | 7,50                    | 89,4                    | 1599       | 15243        | 4355           |
| 779                     | 14,04 | 6,90                    | 81,2                    | 1710       | 15785        | 4510           |
| 789                     | 15,43 | 6,36                    | 73,9                    | 1809       | 16330        | 4666           |
| 789                     | 15,73 | 6,24                    | 72,5                    | 1831       | 16449        | 4700           |
| 789                     | 17,29 | 5,67                    | 65,9                    | 1936       | 17056        | 4873           |
| 789                     | 19,03 | 5,16                    | 59,9                    | 2032       | 17686        | 5053           |
| 789                     | 20,14 | 4,87                    | 56,6                    | 2085       | 18000        | 5163           |
| 820                     | 22,13 | 4,61                    | 51,5                    | 2134       | 18000        | 5320           |
| 820                     | 24,00 | 4,25                    | 47,5                    | 2200       | 18000        | 5485           |
| 820                     | 26,05 | 3,91                    | 43,8                    | 2262       | 18000        | 5657           |
| 923                     | 27,29 | 4,20                    | 41,8                    | 2209       | 18000        | 5660           |
| 923                     | 28,67 | 4,00                    | 39,8                    | 2246       | 18000        | 5767           |
| 923                     | 29,60 | 3,88                    | 38,5                    | 2269       | 18000        | 5837           |
| 1025                    | 31,78 | 4,01                    | 35,9                    | 2244       | 18000        | 5900           |
| 1025                    | 34,91 | 3,65                    | 32,7                    | 2311       | 18000        | 6116           |
| 1025                    | 35,50 | 3,59                    | 32,1                    | 2322       | 18000        | 6156           |
| 1025                    | 40,05 | 3,18                    | 28,5                    | 2398       | 18000        | 6445           |
| 1025                    | 43,05 | 2,96                    | 26,5                    | 2439       | 18000        | 6624           |
| 1025                    | 50,25 | 2,54                    | 22,7                    | 2517       | 18000        | 7020           |
| 1025                    | 54,27 | 2,35                    | 21,0                    | 2552       | 18000        | 7200           |
| 1025                    | 61,98 | 2,06                    | 18,4                    | 2606       | 18000        | 7200           |

## 5.4 IS GEAR REDUCER - 1140 rpm

## IS083

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1025                    | 67,52  | 1,93                    | 16,9                    | 2638       | 18000        | 7200           |
| 1025                    | 74,18  | 1,75                    | 15,4                    | 2669       | 18000        | 7200           |
| 1025                    | 81,71  | 1,59                    | 13,9                    | 2698       | 18000        | 7200           |
| 1025                    | 91,49  | 1,42                    | 12,5                    | 2729       | 18000        | 7200           |
| 1025                    | 100,62 | 1,29                    | 11,3                    | 2753       | 18000        | 7200           |
| 1025                    | 117,17 | 1,11                    | 9,7                     | 2786       | 18000        | 7200           |
| 1025                    | 128,73 | 1,01                    | 8,9                     | 2804       | 18000        | 7200           |
| 1025                    | 136,34 | 0,95                    | 8,4                     | 2814       | 18000        | 7200           |
| 1025                    | 158,76 | 0,82                    | 7,2                     | 2838       | 18000        | 7200           |
| 1025                    | 184,88 | 0,70                    | 6,2                     | 2859       | 18000        | 7200           |
| 1025                    | 203,11 | 0,64                    | 5,6                     | 2871       | 18000        | 7200           |
| 1025                    | 205,34 | 0,63                    | 5,5                     | 2872       | 18000        | 7200           |
| 1025                    | 226,04 | 0,58                    | 5,0                     | 2883       | 18000        | 7200           |
| 1025                    | 250,50 | 0,52                    | 4,5                     | 2893       | 18000        | 7200           |
| 1025                    | 266,13 | 0,49                    | 4,3                     | 2898       | 18000        | 7200           |
| 1025                    | 292,36 | 0,45                    | 3,9                     | 2906       | 18000        | 7200           |
| 1025                    | 315,73 | 0,41                    | 3,6                     | 2912       | 18000        | 7200           |
| 1025                    | 360,58 | 0,36                    | 3,2                     | 2922       | 18000        | 7200           |

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 871                     | 8,06  | 13,44                   | 141,4                   | 589        | 16327        | 4665           |
| 923                     | 8,85  | 12,97                   | 128,9                   | 673        | 16772        | 4792           |
| 974                     | 10,88 | 11,12                   | 104,7                   | 1002       | 17996        | 5142           |
| 1025                    | 12,75 | 10,00                   | 89,4                    | 1203       | 18963        | 5418           |
| 1230                    | 13,99 | 10,93                   | 81,5                    | 1036       | 19103        | 5458           |
| 1281                    | 15,43 | 10,33                   | 73,9                    | 1144       | 19702        | 5629           |
| 1333                    | 17,21 | 9,63                    | 66,2                    | 1269       | 20416        | 5833           |
| 1435                    | 19,00 | 9,39                    | 60,0                    | 1311       | 20941        | 5983           |
| 1435                    | 20,83 | 8,57                    | 54,7                    | 1459       | 21700        | 6200           |
| 1435                    | 22,13 | 8,06                    | 51,5                    | 1548       | 22000        | 6346           |
| 1538                    | 24,28 | 7,88                    | 47,0                    | 1582       | 22000        | 6501           |
| 1538                    | 26,33 | 7,26                    | 43,3                    | 1692       | 22000        | 6709           |
| 1538                    | 29,87 | 6,40                    | 38,2                    | 1845       | 22000        | 7042           |
| 1538                    | 32,40 | 5,90                    | 35,2                    | 1935       | 22000        | 7264           |
| 1435                    | 34,91 | 5,11                    | 32,7                    | 2076       | 22000        | 7550           |
| 1538                    | 38,30 | 4,99                    | 29,8                    | 2097       | 22000        | 7742           |
| 1435                    | 42,53 | 4,20                    | 26,8                    | 2239       | 22000        | 8129           |
| 1333                    | 44,00 | 3,77                    | 25,9                    | 2316       | 22000        | 8309           |
| 1640                    | 47,13 | 4,33                    | 24,2                    | 2216       | 22000        | 8295           |
| 1435                    | 50,25 | 3,55                    | 22,7                    | 2355       | 22000        | 8650           |

## 5.4 IS GEAR REDUCER - 1140 rpm

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1333                    | 55,14 | 3,01                    | 20,7                    | 2452       | 22000        | 9000           |
| 1640                    | 59,40 | 3,43                    | 19,2                    | 2376       | 22000        | 9000           |
| 1640                    | 67,84 | 3,01                    | 16,8                    | 2452       | 22000        | 9000           |

## IS103

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1640                    | 74,18  | 2,81                    | 15,4                    | 2498       | 22000        | 9000           |
| 1640                    | 81,39  | 2,56                    | 14,0                    | 2541       | 22000        | 9000           |
| 1640                    | 89,77  | 2,32                    | 12,7                    | 2583       | 22000        | 9000           |
| 1640                    | 100,15 | 2,08                    | 11,4                    | 2625       | 22000        | 9000           |
| 1640                    | 110,55 | 1,88                    | 10,3                    | 2659       | 22000        | 9000           |
| 1640                    | 121,29 | 1,72                    | 9,4                     | 2689       | 22000        | 9000           |
| 1640                    | 128,73 | 1,62                    | 8,9                     | 2706       | 22000        | 9000           |
| 1640                    | 141,24 | 1,47                    | 8,1                     | 2731       | 22000        | 9000           |
| 1640                    | 173,78 | 1,20                    | 6,6                     | 2779       | 22000        | 9000           |
| 1640                    | 188,51 | 1,10                    | 6,0                     | 2796       | 22000        | 9000           |
| 1640                    | 203,11 | 1,03                    | 5,6                     | 2810       | 22000        | 9000           |
| 1640                    | 222,85 | 0,93                    | 5,1                     | 2825       | 22000        | 9000           |
| 1640                    | 224,76 | 0,93                    | 5,1                     | 2827       | 22000        | 9000           |
| 1640                    | 274,20 | 0,76                    | 4,2                     | 2856       | 22000        | 9000           |
| 1640                    | 280,89 | 0,74                    | 4,1                     | 2859       | 22000        | 9000           |
| 1640                    | 292,36 | 0,71                    | 3,9                     | 2864       | 22000        | 9000           |
| 1640                    | 320,79 | 0,65                    | 3,5                     | 2875       | 22000        | 9000           |
| 1640                    | 345,60 | 0,60                    | 3,3                     | 2883       | 22000        | 9000           |
| 1640                    | 394,69 | 0,53                    | 2,9                     | 2897       | 22000        | 9000           |

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1538                    | 8,48  | 22,54                   | 134,4                   | 2925       | 21217        | 6062           |
| 1743                    | 9,30  | 23,30                   | 122,6                   | 2890       | 21272        | 6078           |
| 1743                    | 10,24 | 21,16                   | 111,3                   | 2989       | 22173        | 6335           |
| 1948                    | 11,42 | 21,21                   | 99,9                    | 2987       | 22449        | 6414           |
| 2255                    | 12,63 | 22,21                   | 90,3                    | 2941       | 22293        | 6369           |
| 2460                    | 13,84 | 22,10                   | 82,4                    | 2945       | 22464        | 6418           |
| 2665                    | 16,99 | 19,50                   | 67,1                    | 3066       | 23915        | 6833           |
| 2870                    | 21,25 | 16,79                   | 53,6                    | 3190       | 25743        | 7355           |
| 2870                    | 22,37 | 15,96                   | 51,0                    | 3229       | 26367        | 7533           |
| 2973                    | 23,29 | 15,87                   | 48,9                    | 3233       | 26480        | 7566           |
| 3075                    | 26,15 | 14,62                   | 43,6                    | 3291       | 27563        | 7875           |

## 5.4 IS GEAR REDUCER - 1140 rpm

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 3075                    | 28,60 | 13,37                   | 39,9                    | 3349       | 28737        | 8211           |
| 3075                    | 30,51 | 12,53                   | 37,4                    | 3387       | 29609        | 8460           |
| 3075                    | 32,76 | 11,67                   | 34,8                    | 3427       | 30000        | 8739           |
| 3075                    | 33,44 | 11,43                   | 34,1                    | 3438       | 30000        | 8822           |
| 3075                    | 35,20 | 10,86                   | 32,4                    | 3464       | 30000        | 9029           |
| 3075                    | 41,07 | 9,31                    | 27,8                    | 3536       | 30000        | 9674           |
| 3075                    | 43,60 | 8,77                    | 26,1                    | 3561       | 30000        | 9933           |
| 2460                    | 44,63 | 6,85                    | 25,5                    | 3649       | 30000        | 10701          |
| 2460                    | 49,04 | 6,24                    | 23,2                    | 3678       | 30000        | 11123          |
| 2665                    | 53,75 | 6,17                    | 21,2                    | 3681       | 30000        | 11200          |
| 3075                    | 66,00 | 5,79                    | 17,3                    | 3698       | 30000        | 11200          |

## IS123

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 2768                    | 64,84  | 5,42                    | 17,6                    | 3721       | 30000        | 11200          |
| 2768                    | 71,07  | 4,95                    | 16,0                    | 3742       | 30000        | 11200          |
| 3075                    | 78,46  | 4,98                    | 14,5                    | 3741       | 30000        | 11200          |
| 3075                    | 87,27  | 4,47                    | 13,1                    | 3763       | 30000        | 11200          |
| 3075                    | 105,91 | 3,69                    | 10,8                    | 3799       | 30000        | 11200          |
| 3075                    | 112,52 | 3,47                    | 10,1                    | 3809       | 30000        | 11200          |
| 3075                    | 123,33 | 3,17                    | 9,2                     | 3822       | 30000        | 11200          |
| 3075                    | 130,04 | 3,00                    | 8,8                     | 3830       | 30000        | 11200          |
| 3075                    | 133,78 | 2,92                    | 8,5                     | 3834       | 30000        | 11200          |
| 3075                    | 151,43 | 2,58                    | 7,5                     | 3849       | 30000        | 11200          |
| 3075                    | 177,53 | 2,20                    | 6,4                     | 3866       | 30000        | 11200          |
| 3075                    | 194,59 | 2,01                    | 5,9                     | 3875       | 30000        | 11200          |
| 3075                    | 215,60 | 1,81                    | 5,3                     | 3884       | 30000        | 11200          |
| 3075                    | 238,93 | 1,63                    | 4,8                     | 3892       | 30000        | 11200          |
| 3075                    | 255,54 | 1,53                    | 4,5                     | 3897       | 30000        | 11200          |

## IS142

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 1424                    | 4,12 | 43,00                   | 276,9                   | 2336       | 22702        | 12973          |
| 1587                    | 4,59 | 43,03                   | 248,6                   | 2334       | 22644        | 12940          |
| 1781                    | 5,14 | 43,05                   | 221,6                   | 2333       | 22472        | 12841          |
| 2013                    | 5,82 | 43,02                   | 195,9                   | 2335       | 22158        | 12662          |
| 2152                    | 6,21 | 43,06                   | 183,5                   | 2332       | 21896        | 12512          |
| 1963                    | 7,32 | 33,36                   | 155,8                   | 2909       | 25537        | 14593          |
| 2202                    | 8,21 | 33,37                   | 138,9                   | 2909       | 25236        | 14420          |

## 5.4 IS GEAR REDUCER - 1140 rpm

## IS142

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 2492                    | 9,29  | 33,38                   | 122,8                   | 2908       | 24718        | 14124          |
| 2662                    | 9,91  | 33,39                   | 115,0                   | 2908       | 24353        | 13916          |
| 2886                    | 11,41 | 31,47                   | 100,0                   | 3022       | 24729        | 14131          |
| 2686                    | 12,81 | 26,06                   | 89,0                    | 3343       | 28171        | 16098          |
| 2501                    | 14,27 | 21,79                   | 79,9                    | 3597       | 31412        | 17950          |
| 2718                    | 16,01 | 21,12                   | 71,2                    | 3637       | 31675        | 18100          |
| 3075                    | 18,11 | 21,11                   | 63,0                    | 3637       | 31068        | 17753          |
| 3284                    | 19,33 | 21,12                   | 59,0                    | 3637       | 30628        | 17502          |
| 3398                    | 22,24 | 18,99                   | 51,2                    | 3763       | 32406        | 18500          |
| 2968                    | 25,26 | 14,61                   | 45,1                    | 4024       | 35000        | 18500          |
| 3329                    | 28,33 | 14,61                   | 40,2                    | 4024       | 35000        | 18500          |
| 3766                    | 32,05 | 14,61                   | 35,6                    | 4024       | 35000        | 18500          |
| 4021                    | 34,22 | 14,61                   | 33,3                    | 4024       | 35000        | 18500          |
| 4542                    | 39,38 | 14,34                   | 28,9                    | 4040       | 35000        | 18500          |

## IS143

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 4113                    | 45,77  | 11,41                   | 24,9                    | 4200       | 35000        | 18500          |
| 4582                    | 50,97  | 11,41                   | 22,4                    | 4200       | 35000        | 18500          |
| 4853                    | 57,17  | 10,78                   | 19,9                    | 4200       | 35000        | 18500          |
| 4894                    | 64,68  | 9,61                    | 17,6                    | 4200       | 35000        | 18500          |
| 4998                    | 69,06  | 9,19                    | 16,5                    | 4200       | 35000        | 18500          |
| 4339                    | 79,45  | 6,94                    | 14,3                    | 4200       | 35000        | 18500          |
| 4551                    | 98,81  | 5,85                    | 11,5                    | 4200       | 35000        | 18500          |
| 4852                    | 110,05 | 5,60                    | 10,4                    | 4200       | 35000        | 18500          |
| 4873                    | 123,44 | 5,01                    | 9,2                     | 4200       | 35000        | 18500          |
| 4962                    | 139,64 | 4,51                    | 8,2                     | 4200       | 35000        | 18500          |
| 4905                    | 149,10 | 4,18                    | 7,7                     | 4200       | 35000        | 18500          |
| 3896                    | 157,49 | 3,14                    | 7,2                     | 4200       | 35000        | 18500          |
| 4786                    | 171,55 | 3,54                    | 6,7                     | 4200       | 35000        | 18500          |
| 4340                    | 175,41 | 3,14                    | 6,5                     | 4200       | 35000        | 18500          |
| 4867                    | 196,74 | 3,14                    | 5,8                     | 4200       | 35000        | 18500          |
| 4833                    | 222,57 | 2,76                    | 5,1                     | 4200       | 35000        | 18500          |
| 5004                    | 237,63 | 2,67                    | 4,8                     | 4200       | 35000        | 18500          |
| 4912                    | 273,41 | 2,28                    | 4,2                     | 4200       | 35000        | 18500          |

## IS152

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 2638                    | 4,06 | 80,75                   | 280,7                   | 2730       | 27495        | 15711          |

## 5.4 IS GEAR REDUCER - 1140 rpm

## IS152

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 2943                    | 4,53  | 80,73                   | 251,5                   | 2731       | 27481        | 15703          |
| 2987                    | 5,20  | 71,37                   | 219,1                   | 3068       | 29222        | 16698          |
| 3016                    | 5,71  | 65,65                   | 199,6                   | 3275       | 30453        | 17402          |
| 3152                    | 6,52  | 60,08                   | 174,8                   | 3476       | 31812        | 18178          |
| 3340                    | 7,28  | 57,06                   | 156,6                   | 3585       | 32628        | 18645          |
| 3619                    | 8,36  | 53,85                   | 136,4                   | 3701       | 33540        | 19166          |
| 3845                    | 9,17  | 52,12                   | 124,3                   | 3763       | 34029        | 19400          |
| 4287                    | 10,42 | 51,16                   | 109,4                   | 3798       | 34121        | 19400          |
| 3388                    | 12,46 | 33,81                   | 91,5                    | 4424       | 40000        | 19400          |
| 3780                    | 13,91 | 33,79                   | 82,0                    | 4425       | 40000        | 19400          |
| 4340                    | 15,97 | 33,80                   | 71,4                    | 4425       | 40000        | 19400          |
| 4764                    | 17,53 | 33,80                   | 65,0                    | 4424       | 40000        | 19400          |
| 5412                    | 19,91 | 33,80                   | 57,3                    | 4424       | 40000        | 19400          |
| 6222                    | 22,88 | 33,81                   | 49,8                    | 4424       | 40000        | 19400          |
| 6241                    | 27,11 | 28,63                   | 42,1                    | 4611       | 40000        | 19400          |
| 6852                    | 29,75 | 28,64                   | 38,3                    | 4611       | 40000        | 19400          |
| 7782                    | 33,79 | 28,64                   | 33,7                    | 4611       | 40000        | 19400          |
| 7881                    | 38,84 | 25,23                   | 29,4                    | 4734       | 40000        | 19400          |

## IS153

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 6438                    | 40,10  | 20,39                   | 28,4                    | 4924       | 40000        | 19400          |
| 7185                    | 44,76  | 20,39                   | 25,5                    | 4924       | 40000        | 19400          |
| 8062                    | 51,38  | 19,93                   | 22,2                    | 4940       | 40000        | 19400          |
| 8460                    | 56,39  | 19,05                   | 20,2                    | 4971       | 40000        | 19400          |
| 9015                    | 64,05  | 17,87                   | 17,8                    | 5013       | 40000        | 19400          |
| 7974                    | 73,63  | 13,75                   | 15,5                    | 5158       | 40000        | 19400          |
| 7283                    | 87,16  | 10,61                   | 13,1                    | 5200       | 40000        | 19400          |
| 8129                    | 97,27  | 10,61                   | 11,7                    | 5200       | 40000        | 19400          |
| 9331                    | 111,67 | 10,61                   | 10,2                    | 5200       | 40000        | 19400          |
| 9775                    | 122,57 | 10,13                   | 9,3                     | 5200       | 40000        | 19400          |
| 9370                    | 139,21 | 8,55                    | 8,2                     | 5200       | 40000        | 19400          |
| 7307                    | 154,02 | 6,02                    | 7,4                     | 5200       | 40000        | 19400          |
| 8286                    | 160,02 | 6,58                    | 7,1                     | 5200       | 40000        | 19400          |
| 8389                    | 176,81 | 6,02                    | 6,5                     | 5200       | 40000        | 19400          |
| 9206                    | 194,06 | 6,02                    | 5,9                     | 5200       | 40000        | 19400          |
| 9587                    | 220,42 | 5,52                    | 5,2                     | 5200       | 40000        | 19400          |
| 8486                    | 253,36 | 4,25                    | 4,5                     | 5200       | 40000        | 19400          |

## 5.5 IS GEAR REDUCER - 900 rpm

## IS052

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 179                     | 8,63  | 2,01                    | 104,3                   | 683        | 4011         | 4011           |
| 200                     | 11,14 | 1,74                    | 80,8                    | 781        | 4334         | 4334           |
| 210                     | 12,00 | 1,70                    | 75,0                    | 795        | 4409         | 4409           |
| 221                     | 13,66 | 1,57                    | 65,9                    | 842        | 4593         | 4593           |
| 252                     | 15,27 | 1,60                    | 58,9                    | 830        | 4631         | 4631           |
| 252                     | 16,29 | 1,50                    | 55,3                    | 866        | 4762         | 4762           |
| 252                     | 18,63 | 1,31                    | 48,3                    | 934        | 5045         | 5045           |
| 252                     | 19,73 | 1,24                    | 45,6                    | 960        | 5169         | 5169           |
| 273                     | 21,04 | 1,26                    | 42,8                    | 953        | 5189         | 5189           |
| 273                     | 21,53 | 1,23                    | 41,8                    | 963        | 5241         | 5241           |
| 273                     | 24,07 | 1,10                    | 37,4                    | 1010       | 5496         | 5496           |
| 305                     | 25,20 | 1,17                    | 35,7                    | 984        | 5422         | 5422           |
| 305                     | 25,79 | 1,15                    | 34,9                    | 994        | 5476         | 5476           |
| 305                     | 27,81 | 1,06                    | 32,4                    | 1024       | 5659         | 5659           |
| 305                     | 30,00 | 0,99                    | 30,0                    | 1052       | 5848         | 5848           |
| 315                     | 32,55 | 0,94                    | 27,6                    | 1068       | 5994         | 5994           |
| 315                     | 33,00 | 0,93                    | 27,3                    | 1073       | 6000         | 6000           |
| 315                     | 34,09 | 0,90                    | 26,4                    | 1083       | 6000         | 6000           |
| 347                     | 36,55 | 0,92                    | 24,6                    | 1075       | 6000         | 6000           |
| 347                     | 38,75 | 0,87                    | 23,2                    | 1094       | 6000         | 6000           |
| 368                     | 39,90 | 0,90                    | 22,6                    | 1084       | 6000         | 6000           |
| 368                     | 42,63 | 0,84                    | 21,1                    | 1105       | 6000         | 6000           |
| 368                     | 46,00 | 0,78                    | 19,6                    | 1127       | 6000         | 6000           |
| 368                     | 47,20 | 0,76                    | 19,1                    | 1134       | 6000         | 6000           |
| 368                     | 52,25 | 0,68                    | 17,2                    | 1161       | 6000         | 6000           |
| 368                     | 57,86 | 0,62                    | 15,6                    | 1184       | 6000         | 6000           |
| 368                     | 59,42 | 0,60                    | 15,2                    | 1190       | 6000         | 6000           |
| 368                     | 72,83 | 0,49                    | 12,4                    | 1230       | 6000         | 6000           |

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 368                     | 36,50  | 1,00                    | 24,7                    | 1054       | 5991         | 5991           |
| 368                     | 47,14  | 0,77                    | 19,1                    | 1134       | 6000         | 6000           |
| 368                     | 57,79  | 0,63                    | 15,6                    | 1184       | 6000         | 6000           |
| 368                     | 63,74  | 0,57                    | 14,1                    | 1205       | 6000         | 6000           |
| 368                     | 74,20  | 0,49                    | 12,1                    | 1233       | 6000         | 6000           |
| 368                     | 78,14  | 0,47                    | 11,5                    | 1242       | 6000         | 6000           |
| 368                     | 95,84  | 0,38                    | 9,4                     | 1272       | 6000         | 6000           |
| 368                     | 117,48 | 0,31                    | 7,7                     | 1297       | 6000         | 6000           |
| 368                     | 137,45 | 0,27                    | 6,5                     | 1313       | 6000         | 6000           |
| 368                     | 177,55 | 0,21                    | 5,1                     | 1334       | 6000         | 6000           |

## 5.5 IS GEAR REDUCER - 900 rpm

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 368                     | 198,45 | 0,18                    | 4,5                     | 1342       | 6000         | 6000           |
| 368                     | 217,64 | 0,17                    | 4,1                     | 1347       | 6000         | 6000           |
| 368                     | 256,33 | 0,14                    | 3,5                     | 1356       | 6000         | 6000           |
| 368                     | 314,21 | 0,12                    | 2,9                     | 1366       | 6000         | 6000           |

## IS062

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 347                     | 8,00  | 4,21                    | 112,5                   | 297        | 6269         | 2508           |
| 347                     | 8,92  | 3,77                    | 100,9                   | 412        | 6580         | 2632           |
| 378                     | 9,55  | 3,85                    | 94,3                    | 392        | 6578         | 2631           |
| 378                     | 10,65 | 3,45                    | 84,5                    | 497        | 6907         | 2763           |
| 410                     | 11,71 | 3,40                    | 76,9                    | 511        | 7004         | 2802           |
| 441                     | 13,06 | 3,28                    | 68,9                    | 542        | 7156         | 2862           |
| 441                     | 13,36 | 3,21                    | 67,4                    | 561        | 7231         | 2892           |
| 473                     | 15,94 | 2,88                    | 56,5                    | 648        | 7633         | 3053           |
| 473                     | 16,16 | 2,84                    | 55,7                    | 658        | 7682         | 3073           |
| 473                     | 19,29 | 2,38                    | 46,7                    | 780        | 8323         | 3329           |
| 483                     | 19,55 | 2,40                    | 46,0                    | 775        | 8308         | 3323           |
| 494                     | 23,18 | 2,07                    | 38,8                    | 862        | 8898         | 3559           |
| 494                     | 23,75 | 2,02                    | 37,9                    | 875        | 8995         | 3598           |
| 504                     | 25,14 | 1,95                    | 35,8                    | 894        | 9159         | 3663           |
| 504                     | 27,66 | 1,77                    | 32,5                    | 941        | 9553         | 3821           |
| 525                     | 30,00 | 1,70                    | 30,0                    | 960        | 9767         | 3907           |
| 567                     | 33,93 | 1,62                    | 26,5                    | 980        | 10000        | 4000           |
| 630                     | 36,57 | 1,67                    | 24,6                    | 967        | 9986         | 3994           |
| 630                     | 39,38 | 1,56                    | 22,9                    | 998        | 10000        | 4000           |
| 630                     | 43,64 | 1,40                    | 20,6                    | 1038       | 10000        | 4000           |
| 630                     | 46,10 | 1,33                    | 19,5                    | 1058       | 10000        | 4000           |
| 630                     | 48,30 | 1,27                    | 18,6                    | 1074       | 10000        | 4000           |
| 630                     | 53,53 | 1,14                    | 16,8                    | 1107       | 10000        | 4000           |
| 630                     | 55,00 | 1,11                    | 16,4                    | 1115       | 10000        | 4000           |
| 630                     | 67,47 | 0,91                    | 13,3                    | 1169       | 10000        | 4000           |

## IS063

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 630                     | 33,57 | 1,86                    | 26,8                    | 927        | 9596         | 3839           |
| 630                     | 37,77 | 1,66                    | 23,8                    | 981        | 10000        | 4000           |
| 630                     | 40,05 | 1,56                    | 22,5                    | 1005       | 10000        | 4000           |
| 630                     | 49,13 | 1,27                    | 18,3                    | 1080       | 10000        | 4000           |

## 5.5 IS GEAR REDUCER - 900 rpm

## IS063

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 630                     | 55,29  | 1,13                    | 16,3                    | 1116       | 10000        | 4000           |
| 630                     | 58,72  | 1,07                    | 15,3                    | 1133       | 10000        | 4000           |
| 630                     | 65,85  | 0,95                    | 13,7                    | 1163       | 10000        | 4000           |
| 630                     | 68,25  | 0,92                    | 13,2                    | 1172       | 10000        | 4000           |
| 630                     | 73,63  | 0,85                    | 12,2                    | 1189       | 10000        | 4000           |
| 630                     | 81,43  | 0,77                    | 11,1                    | 1210       | 10000        | 4000           |
| 630                     | 99,89  | 0,63                    | 9,0                     | 1247       | 10000        | 4000           |
| 630                     | 126,43 | 0,49                    | 7,1                     | 1281       | 10000        | 4000           |
| 630                     | 150,85 | 0,41                    | 6,0                     | 1302       | 10000        | 4000           |
| 630                     | 182,53 | 0,34                    | 4,9                     | 1320       | 10000        | 4000           |
| 630                     | 185,05 | 0,34                    | 4,9                     | 1321       | 10000        | 4000           |
| 630                     | 217,79 | 0,29                    | 4,1                     | 1335       | 10000        | 4000           |
| 630                     | 267,16 | 0,23                    | 3,4                     | 1348       | 10000        | 4000           |

## IS082

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 578                     | 7,34  | 7,65                    | 122,6                   | 1175       | 14112        | 4032           |
| 630                     | 8,06  | 7,59                    | 111,6                   | 1188       | 14444        | 4127           |
| 683                     | 9,94  | 6,67                    | 90,5                    | 1406       | 15455        | 4416           |
| 735                     | 11,61 | 6,16                    | 77,5                    | 1529       | 16209        | 4631           |
| 788                     | 12,75 | 6,00                    | 70,6                    | 1565       | 16623        | 4749           |
| 798                     | 14,04 | 5,52                    | 64,1                    | 1678       | 17211        | 4917           |
| 809                     | 15,43 | 5,09                    | 58,3                    | 1780       | 17802        | 5086           |
| 809                     | 15,73 | 5,00                    | 57,2                    | 1803       | 17931        | 5123           |
| 809                     | 17,29 | 4,54                    | 52,0                    | 1910       | 18000        | 5311           |
| 809                     | 19,03 | 4,13                    | 47,3                    | 2009       | 18000        | 5505           |
| 809                     | 20,14 | 3,90                    | 44,7                    | 2063       | 18000        | 5623           |
| 840                     | 22,13 | 3,69                    | 40,7                    | 2113       | 18000        | 5795           |
| 840                     | 24,00 | 3,40                    | 37,5                    | 2181       | 18000        | 5974           |
| 840                     | 26,05 | 3,13                    | 34,5                    | 2244       | 18000        | 6159           |
| 945                     | 27,29 | 3,37                    | 33,0                    | 2190       | 18000        | 6168           |
| 945                     | 28,67 | 3,20                    | 31,4                    | 2228       | 18000        | 6285           |
| 945                     | 29,60 | 3,10                    | 30,4                    | 2252       | 18000        | 6360           |
| 1050                    | 31,78 | 3,21                    | 28,3                    | 2226       | 18000        | 6433           |
| 1050                    | 34,91 | 2,92                    | 25,8                    | 2294       | 18000        | 6667           |
| 1050                    | 35,50 | 2,87                    | 25,4                    | 2306       | 18000        | 6710           |
| 1050                    | 40,05 | 2,55                    | 22,5                    | 2383       | 18000        | 7022           |
| 1050                    | 43,05 | 2,37                    | 20,9                    | 2425       | 18000        | 7200           |
| 1050                    | 50,25 | 2,03                    | 17,9                    | 2506       | 18000        | 7200           |
| 1050                    | 54,27 | 1,88                    | 16,6                    | 2542       | 18000        | 7200           |
| 1050                    | 61,98 | 1,65                    | 14,5                    | 2597       | 18000        | 7200           |

## 5.5 IS GEAR REDUCER - 900 rpm

## IS083

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1050                    | 67,52  | 1,54                    | 13,3                    | 2629       | 18000        | 7200           |
| 1050                    | 74,18  | 1,41                    | 12,1                    | 2661       | 18000        | 7200           |
| 1050                    | 81,71  | 1,28                    | 11,0                    | 2691       | 18000        | 7200           |
| 1050                    | 91,49  | 1,14                    | 9,8                     | 2723       | 18000        | 7200           |
| 1050                    | 100,62 | 1,04                    | 8,9                     | 2747       | 18000        | 7200           |
| 1050                    | 117,17 | 0,89                    | 7,7                     | 2781       | 18000        | 7200           |
| 1050                    | 128,73 | 0,81                    | 7,0                     | 2799       | 18000        | 7200           |
| 1050                    | 136,34 | 0,76                    | 6,6                     | 2810       | 18000        | 7200           |
| 1050                    | 158,76 | 0,66                    | 5,7                     | 2835       | 18000        | 7200           |
| 1050                    | 184,88 | 0,56                    | 4,9                     | 2856       | 18000        | 7200           |
| 1050                    | 203,11 | 0,51                    | 4,4                     | 2868       | 18000        | 7200           |
| 1050                    | 205,34 | 0,51                    | 4,4                     | 2869       | 18000        | 7200           |
| 1050                    | 226,04 | 0,46                    | 4,0                     | 2880       | 18000        | 7200           |
| 1050                    | 250,50 | 0,42                    | 3,6                     | 2891       | 18000        | 7200           |
| 1050                    | 266,13 | 0,39                    | 3,4                     | 2896       | 18000        | 7200           |
| 1050                    | 292,36 | 0,36                    | 3,1                     | 2904       | 18000        | 7200           |
| 1050                    | 315,73 | 0,33                    | 2,9                     | 2911       | 18000        | 7200           |
| 1050                    | 360,58 | 0,29                    | 2,5                     | 2920       | 18000        | 7200           |

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 893                     | 8,06  | 10,76                   | 111,6                   | 530        | 17780        | 5080           |
| 945                     | 8,85  | 10,38                   | 101,7                   | 616        | 18268        | 5220           |
| 998                     | 10,88 | 8,91                    | 82,7                    | 953        | 19599        | 5600           |
| 1050                    | 12,75 | 8,00                    | 70,6                    | 1160       | 20652        | 5901           |
| 1260                    | 13,99 | 8,75                    | 64,3                    | 988        | 20834        | 5953           |
| 1313                    | 15,43 | 8,27                    | 58,3                    | 1099       | 21489        | 6140           |
| 1365                    | 17,21 | 7,71                    | 52,3                    | 1227       | 22000        | 6362           |
| 1470                    | 19,00 | 7,52                    | 47,4                    | 1270       | 22000        | 6529           |
| 1470                    | 20,83 | 6,86                    | 43,2                    | 1421       | 22000        | 6763           |
| 1470                    | 22,13 | 6,46                    | 40,7                    | 1513       | 22000        | 6922           |
| 1575                    | 24,28 | 6,31                    | 37,1                    | 1548       | 22000        | 7093           |
| 1575                    | 26,33 | 5,81                    | 34,2                    | 1660       | 22000        | 7318           |
| 1575                    | 29,87 | 5,13                    | 30,1                    | 1818       | 22000        | 7678           |
| 1575                    | 32,40 | 4,72                    | 27,8                    | 1909       | 22000        | 7918           |
| 1470                    | 34,91 | 4,09                    | 25,8                    | 2054       | 22000        | 8223           |
| 1575                    | 38,30 | 4,00                    | 23,5                    | 2076       | 22000        | 8434           |
| 1470                    | 42,53 | 3,36                    | 21,2                    | 2221       | 22000        | 8849           |
| 1365                    | 44,00 | 3,02                    | 20,4                    | 2300       | 22000        | 9000           |
| 1680                    | 47,13 | 3,46                    | 19,1                    | 2197       | 22000        | 9000           |
| 1470                    | 50,25 | 2,84                    | 17,9                    | 2339       | 22000        | 9000           |

## 5.5 IS GEAR REDUCER - 900 rpm

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1365                    | 55,14 | 2,41                    | 16,3                    | 2439       | 22000        | 9000           |
| 1680                    | 59,40 | 2,75                    | 15,2                    | 2361       | 22000        | 9000           |
| 1680                    | 67,84 | 2,41                    | 13,3                    | 2439       | 22000        | 9000           |

## IS103

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1680                    | 74,18  | 2,25                    | 12,1                    | 2486       | 22000        | 9000           |
| 1680                    | 81,39  | 2,05                    | 11,1                    | 2530       | 22000        | 9000           |
| 1680                    | 89,77  | 1,86                    | 10,0                    | 2573       | 22000        | 9000           |
| 1680                    | 100,15 | 1,67                    | 9,0                     | 2616       | 22000        | 9000           |
| 1680                    | 110,55 | 1,51                    | 8,1                     | 2651       | 22000        | 9000           |
| 1680                    | 121,29 | 1,37                    | 7,4                     | 2681       | 22000        | 9000           |
| 1680                    | 128,73 | 1,30                    | 7,0                     | 2699       | 22000        | 9000           |
| 1680                    | 141,24 | 1,18                    | 6,4                     | 2725       | 22000        | 9000           |
| 1680                    | 173,78 | 0,96                    | 5,2                     | 2774       | 22000        | 9000           |
| 1680                    | 188,51 | 0,88                    | 4,8                     | 2791       | 22000        | 9000           |
| 1680                    | 203,11 | 0,82                    | 4,4                     | 2805       | 22000        | 9000           |
| 1680                    | 222,85 | 0,75                    | 4,0                     | 2821       | 22000        | 9000           |
| 1680                    | 224,76 | 0,74                    | 4,0                     | 2823       | 22000        | 9000           |
| 1680                    | 274,20 | 0,61                    | 3,3                     | 2853       | 22000        | 9000           |
| 1680                    | 280,89 | 0,59                    | 3,2                     | 2856       | 22000        | 9000           |
| 1680                    | 292,36 | 0,57                    | 3,1                     | 2861       | 22000        | 9000           |
| 1680                    | 320,79 | 0,52                    | 2,8                     | 2873       | 22000        | 9000           |
| 1680                    | 345,60 | 0,48                    | 2,6                     | 2881       | 22000        | 9000           |
| 1680                    | 394,69 | 0,42                    | 2,3                     | 2894       | 22000        | 9000           |

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1575                    | 8,48  | 18,05                   | 106,1                   | 2900       | 23269        | 6648           |
| 1785                    | 9,30  | 18,66                   | 96,8                    | 2864       | 23372        | 6678           |
| 1785                    | 10,24 | 16,95                   | 87,9                    | 2965       | 24346        | 6956           |
| 1995                    | 11,42 | 16,99                   | 78,8                    | 2963       | 24689        | 7054           |
| 2310                    | 12,63 | 17,78                   | 71,3                    | 2916       | 24586        | 7025           |
| 2520                    | 13,84 | 17,70                   | 65,0                    | 2921       | 24815        | 7090           |
| 2730                    | 16,99 | 15,61                   | 53,0                    | 3044       | 26428        | 7551           |
| 2940                    | 21,25 | 13,45                   | 42,4                    | 3172       | 28448        | 8128           |
| 2940                    | 22,37 | 12,78                   | 40,2                    | 3211       | 29123        | 8321           |
| 3045                    | 23,29 | 12,71                   | 38,6                    | 3215       | 29267        | 8362           |
| 3150                    | 26,15 | 11,71                   | 34,4                    | 3274       | 30000        | 8703           |

## 5.5 IS GEAR REDUCER - 900 rpm

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 3150                    | 28,60 | 10,71                   | 31,5                    | 3333       | 30000        | 9066           |
| 3150                    | 30,51 | 10,03                   | 29,5                    | 3373       | 30000        | 9335           |
| 3150                    | 32,76 | 9,35                    | 27,5                    | 3414       | 30000        | 9637           |
| 3150                    | 33,44 | 9,15                    | 26,9                    | 3425       | 30000        | 9727           |
| 3150                    | 35,20 | 8,70                    | 25,6                    | 3452       | 30000        | 9950           |
| 3150                    | 41,07 | 7,46                    | 21,9                    | 3525       | 30000        | 10647          |
| 3150                    | 43,60 | 7,02                    | 20,6                    | 3551       | 30000        | 10928          |
| 2520                    | 44,63 | 5,49                    | 20,2                    | 3642       | 30000        | 11200          |
| 2520                    | 49,04 | 4,99                    | 18,4                    | 3671       | 30000        | 11200          |
| 2730                    | 53,75 | 4,94                    | 16,7                    | 3674       | 30000        | 11200          |
| 3150                    | 66,00 | 4,64                    | 13,6                    | 3692       | 30000        | 11200          |

## IS123

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 2835                    | 64,84  | 4,34                    | 13,9                    | 3715       | 30000        | 11200          |
| 2835                    | 71,07  | 3,96                    | 12,7                    | 3737       | 30000        | 11200          |
| 3150                    | 78,46  | 3,99                    | 11,5                    | 3735       | 30000        | 11200          |
| 3150                    | 87,27  | 3,58                    | 10,3                    | 3758       | 30000        | 11200          |
| 3150                    | 105,91 | 2,95                    | 8,5                     | 3795       | 30000        | 11200          |
| 3150                    | 112,52 | 2,78                    | 8,0                     | 3805       | 30000        | 11200          |
| 3150                    | 123,33 | 2,54                    | 7,3                     | 3819       | 30000        | 11200          |
| 3150                    | 130,04 | 2,40                    | 6,9                     | 3827       | 30000        | 11200          |
| 3150                    | 133,78 | 2,34                    | 6,7                     | 3830       | 30000        | 11200          |
| 3150                    | 151,43 | 2,06                    | 5,9                     | 3846       | 30000        | 11200          |
| 3150                    | 177,53 | 1,76                    | 5,1                     | 3864       | 30000        | 11200          |
| 3150                    | 194,59 | 1,61                    | 4,6                     | 3873       | 30000        | 11200          |
| 3150                    | 215,60 | 1,45                    | 4,2                     | 3882       | 30000        | 11200          |
| 3150                    | 238,93 | 1,31                    | 3,8                     | 3890       | 30000        | 11200          |
| 3150                    | 255,54 | 1,22                    | 3,5                     | 3895       | 30000        | 11200          |

## IS142

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 1458                    | 4,12 | 34,43                   | 218,6                   | 2274       | 25181        | 14389          |
| 1626                    | 4,59 | 34,45                   | 196,2                   | 2272       | 25192        | 14395          |
| 1824                    | 5,14 | 34,47                   | 175,0                   | 2270       | 25092        | 14338          |
| 2062                    | 5,82 | 34,44                   | 154,7                   | 2273       | 24856        | 14204          |
| 2204                    | 6,21 | 34,48                   | 144,9                   | 2270       | 24635        | 14077          |
| 2011                    | 7,32 | 26,71                   | 123,0                   | 2861       | 28487        | 16279          |
| 2256                    | 8,21 | 26,72                   | 109,7                   | 2860       | 28268        | 16153          |

## 5.5 IS GEAR REDUCER - 900 rpm

## IS142

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 2553                    | 9,29  | 26,73                   | 96,9                    | 2860       | 27839        | 15908          |
| 2727                    | 9,91  | 26,73                   | 90,8                    | 2859       | 27520        | 15726          |
| 2957                    | 11,41 | 25,20                   | 78,9                    | 2976       | 28027        | 16015          |
| 2751                    | 12,81 | 20,87                   | 70,2                    | 3305       | 31658        | 18090          |
| 2562                    | 14,27 | 17,45                   | 63,1                    | 3565       | 35000        | 18500          |
| 2784                    | 16,01 | 16,91                   | 56,2                    | 3606       | 35000        | 18500          |
| 3150                    | 18,11 | 16,91                   | 49,7                    | 3607       | 34964        | 18500          |
| 3364                    | 19,33 | 16,91                   | 46,5                    | 3606       | 34583        | 18500          |
| 3481                    | 22,24 | 15,21                   | 40,5                    | 3736       | 35000        | 18500          |
| 3041                    | 25,26 | 11,70                   | 35,6                    | 4003       | 35000        | 18500          |
| 3410                    | 28,33 | 11,70                   | 31,8                    | 4003       | 35000        | 18500          |
| 3858                    | 32,05 | 11,70                   | 28,1                    | 4003       | 35000        | 18500          |
| 4119                    | 34,22 | 11,70                   | 26,3                    | 4003       | 35000        | 18500          |
| 4652                    | 39,38 | 11,48                   | 22,9                    | 4019       | 35000        | 18500          |

## IS143

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 4214                    | 45,77  | 9,14                    | 19,7                    | 4200       | 35000        | 18500          |
| 4693                    | 50,97  | 9,14                    | 17,7                    | 4200       | 35000        | 18500          |
| 4971                    | 57,17  | 8,63                    | 15,7                    | 4200       | 35000        | 18500          |
| 5013                    | 64,68  | 7,69                    | 13,9                    | 4200       | 35000        | 18500          |
| 5120                    | 69,06  | 7,36                    | 13,0                    | 4200       | 35000        | 18500          |
| 4445                    | 79,45  | 5,55                    | 11,3                    | 4200       | 35000        | 18500          |
| 4662                    | 98,81  | 4,68                    | 9,1                     | 4200       | 35000        | 18500          |
| 4970                    | 110,05 | 4,48                    | 8,2                     | 4200       | 35000        | 18500          |
| 4992                    | 123,44 | 4,01                    | 7,3                     | 4200       | 35000        | 18500          |
| 5083                    | 139,64 | 3,61                    | 6,4                     | 4200       | 35000        | 18500          |
| 5025                    | 149,10 | 3,35                    | 6,0                     | 4200       | 35000        | 18500          |
| 3991                    | 157,49 | 2,52                    | 5,7                     | 4200       | 35000        | 18500          |
| 4903                    | 171,55 | 2,84                    | 5,2                     | 4200       | 35000        | 18500          |
| 4446                    | 175,41 | 2,52                    | 5,1                     | 4200       | 35000        | 18500          |
| 4986                    | 196,74 | 2,52                    | 4,6                     | 4200       | 35000        | 18500          |
| 4951                    | 222,57 | 2,21                    | 4,0                     | 4200       | 35000        | 18500          |
| 5126                    | 237,63 | 2,14                    | 3,8                     | 4200       | 35000        | 18500          |
| 5031                    | 273,41 | 1,83                    | 3,3                     | 4200       | 35000        | 18500          |

## IS152

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 2702                    | 4,06 | 64,66                   | 221,6                   | 2659       | 30466        | 17409          |

## 5.5 IS GEAR REDUCER - 900 rpm

## IS152

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 3015                    | 4,53  | 64,64                   | 198,6                   | 2660       | 30536        | 17449          |
| 3060                    | 5,20  | 57,15                   | 172,9                   | 3005       | 32431        | 18532          |
| 3089                    | 5,71  | 52,57                   | 157,6                   | 3217       | 33770        | 19297          |
| 3229                    | 6,52  | 48,11                   | 138,0                   | 3423       | 35277        | 19400          |
| 3422                    | 7,28  | 45,69                   | 123,6                   | 3535       | 36213        | 19400          |
| 3708                    | 8,36  | 43,12                   | 107,7                   | 3653       | 37277        | 19400          |
| 3939                    | 9,17  | 41,73                   | 98,1                    | 3717       | 37869        | 19400          |
| 4391                    | 10,42 | 40,96                   | 86,4                    | 3753       | 38092        | 19400          |
| 3471                    | 12,46 | 27,07                   | 72,2                    | 4394       | 40000        | 19400          |
| 3872                    | 13,91 | 27,06                   | 64,7                    | 4395       | 40000        | 19400          |
| 4446                    | 15,97 | 27,06                   | 56,4                    | 4395       | 40000        | 19400          |
| 4881                    | 17,53 | 27,07                   | 51,4                    | 4395       | 40000        | 19400          |
| 5544                    | 19,91 | 27,07                   | 45,2                    | 4394       | 40000        | 19400          |
| 6374                    | 22,88 | 27,07                   | 39,3                    | 4394       | 40000        | 19400          |
| 6394                    | 27,11 | 22,93                   | 33,2                    | 4586       | 40000        | 19400          |
| 7019                    | 29,75 | 22,93                   | 30,2                    | 4585       | 40000        | 19400          |
| 7972                    | 33,79 | 22,93                   | 26,6                    | 4586       | 40000        | 19400          |
| 8073                    | 38,84 | 20,20                   | 23,2                    | 4711       | 40000        | 19400          |

## IS153

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 6595                    | 40,10  | 16,33                   | 22,4                    | 4906       | 40000        | 19400          |
| 7360                    | 44,76  | 16,32                   | 20,1                    | 4906       | 40000        | 19400          |
| 8259                    | 51,38  | 15,95                   | 17,5                    | 4923       | 40000        | 19400          |
| 8667                    | 56,39  | 15,25                   | 16,0                    | 4955       | 40000        | 19400          |
| 9235                    | 64,05  | 14,31                   | 14,1                    | 4997       | 40000        | 19400          |
| 8168                    | 73,63  | 11,01                   | 12,2                    | 5146       | 40000        | 19400          |
| 7461                    | 87,16  | 8,50                    | 10,3                    | 5200       | 40000        | 19400          |
| 8327                    | 97,27  | 8,50                    | 9,2                     | 5200       | 40000        | 19400          |
| 9559                    | 111,67 | 8,50                    | 8,1                     | 5200       | 40000        | 19400          |
| 10013                   | 122,57 | 8,11                    | 7,3                     | 5200       | 40000        | 19400          |
| 9599                    | 139,21 | 6,84                    | 6,5                     | 5200       | 40000        | 19400          |
| 7485                    | 154,02 | 4,82                    | 5,8                     | 5200       | 40000        | 19400          |
| 8489                    | 160,02 | 5,27                    | 5,6                     | 5200       | 40000        | 19400          |
| 8593                    | 176,81 | 4,82                    | 5,1                     | 5200       | 40000        | 19400          |
| 9431                    | 194,06 | 4,82                    | 4,6                     | 5200       | 40000        | 19400          |
| 9821                    | 220,42 | 4,42                    | 4,1                     | 5200       | 40000        | 19400          |
| 8693                    | 253,36 | 3,41                    | 3,5                     | 5200       | 40000        | 19400          |

## 5.6 IS GEAR REDUCER - 700 rpm

## IS052

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 181                     | 8,63  | 1,58                    | 81,2                    | 674        | 4435         | 4435           |
| 202                     | 11,14 | 1,36                    | 62,8                    | 773        | 4795         | 4795           |
| 213                     | 12,00 | 1,33                    | 58,3                    | 787        | 4881         | 4881           |
| 223                     | 13,66 | 1,23                    | 51,3                    | 835        | 5086         | 5086           |
| 255                     | 15,27 | 1,26                    | 45,8                    | 823        | 5141         | 5141           |
| 255                     | 16,29 | 1,18                    | 43,0                    | 859        | 5283         | 5283           |
| 255                     | 18,63 | 1,03                    | 37,6                    | 928        | 5590         | 5590           |
| 255                     | 19,73 | 0,97                    | 35,5                    | 955        | 5725         | 5725           |
| 276                     | 21,04 | 0,99                    | 33,3                    | 947        | 5756         | 5756           |
| 276                     | 21,53 | 0,97                    | 32,5                    | 958        | 5812         | 5812           |
| 276                     | 24,07 | 0,86                    | 29,1                    | 1005       | 6000         | 6000           |
| 308                     | 25,20 | 0,92                    | 27,8                    | 979        | 6000         | 6000           |
| 308                     | 25,79 | 0,90                    | 27,1                    | 989        | 6000         | 6000           |
| 308                     | 27,81 | 0,83                    | 25,2                    | 1019       | 6000         | 6000           |
| 308                     | 30,00 | 0,77                    | 23,3                    | 1047       | 6000         | 6000           |
| 319                     | 32,55 | 0,74                    | 21,5                    | 1064       | 6000         | 6000           |
| 319                     | 33,00 | 0,73                    | 21,2                    | 1069       | 6000         | 6000           |
| 319                     | 34,09 | 0,70                    | 20,5                    | 1080       | 6000         | 6000           |
| 351                     | 36,55 | 0,72                    | 19,1                    | 1071       | 6000         | 6000           |
| 351                     | 38,75 | 0,68                    | 18,1                    | 1090       | 6000         | 6000           |
| 372                     | 39,90 | 0,70                    | 17,5                    | 1081       | 6000         | 6000           |
| 372                     | 42,63 | 0,66                    | 16,4                    | 1101       | 6000         | 6000           |
| 372                     | 46,00 | 0,61                    | 15,2                    | 1124       | 6000         | 6000           |
| 372                     | 47,20 | 0,59                    | 14,8                    | 1131       | 6000         | 6000           |
| 372                     | 52,25 | 0,54                    | 13,4                    | 1158       | 6000         | 6000           |
| 372                     | 57,86 | 0,48                    | 12,1                    | 1182       | 6000         | 6000           |
| 372                     | 59,42 | 0,47                    | 11,8                    | 1188       | 6000         | 6000           |
| 372                     | 72,83 | 0,38                    | 9,6                     | 1228       | 6000         | 6000           |

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 372                     | 36,50  | 0,78                    | 19,2                    | 1050       | 6000         | 6000           |
| 372                     | 47,14  | 0,61                    | 14,8                    | 1131       | 6000         | 6000           |
| 372                     | 57,79  | 0,49                    | 12,1                    | 1181       | 6000         | 6000           |
| 372                     | 63,74  | 0,45                    | 11,0                    | 1203       | 6000         | 6000           |
| 372                     | 74,20  | 0,39                    | 9,4                     | 1231       | 6000         | 6000           |
| 372                     | 78,14  | 0,37                    | 9,0                     | 1240       | 6000         | 6000           |
| 372                     | 95,84  | 0,30                    | 7,3                     | 1271       | 6000         | 6000           |
| 372                     | 117,48 | 0,24                    | 6,0                     | 1296       | 6000         | 6000           |
| 372                     | 137,45 | 0,21                    | 5,1                     | 1312       | 6000         | 6000           |
| 372                     | 177,55 | 0,16                    | 3,9                     | 1333       | 6000         | 6000           |

## 5.6 IS GEAR REDUCER - 700 rpm

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 372                     | 198,45 | 0,14                    | 3,5                     | 1341       | 6000         | 6000           |
| 372                     | 217,64 | 0,13                    | 3,2                     | 1347       | 6000         | 6000           |
| 372                     | 256,33 | 0,11                    | 2,7                     | 1356       | 6000         | 6000           |
| 372                     | 314,21 | 0,09                    | 2,2                     | 1365       | 6000         | 6000           |

## IS062

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 351                     | 8,00  | 3,30                    | 87,5                    | 284        | 6975         | 2790           |
| 351                     | 8,92  | 2,96                    | 78,5                    | 400        | 7312         | 2925           |
| 383                     | 9,55  | 3,01                    | 73,3                    | 380        | 7325         | 2930           |
| 383                     | 10,65 | 2,70                    | 65,8                    | 486        | 7683         | 3073           |
| 414                     | 11,71 | 2,66                    | 59,8                    | 500        | 7803         | 3121           |
| 446                     | 13,06 | 2,57                    | 53,6                    | 531        | 7983         | 3193           |
| 446                     | 13,36 | 2,51                    | 52,4                    | 551        | 8065         | 3226           |
| 478                     | 15,94 | 2,26                    | 43,9                    | 639        | 8516         | 3407           |
| 478                     | 16,16 | 2,23                    | 43,3                    | 649        | 8570         | 3428           |
| 478                     | 19,29 | 1,86                    | 36,3                    | 772        | 9266         | 3706           |
| 489                     | 19,55 | 1,88                    | 35,8                    | 767        | 9254         | 3702           |
| 499                     | 23,18 | 1,62                    | 30,2                    | 856        | 9901         | 3960           |
| 499                     | 23,75 | 1,58                    | 29,5                    | 869        | 10000        | 4000           |
| 510                     | 25,14 | 1,53                    | 27,8                    | 888        | 10000        | 4000           |
| 510                     | 27,66 | 1,39                    | 25,3                    | 935        | 10000        | 4000           |
| 531                     | 30,00 | 1,33                    | 23,3                    | 954        | 10000        | 4000           |
| 574                     | 33,93 | 1,27                    | 20,6                    | 975        | 10000        | 4000           |
| 638                     | 36,57 | 1,31                    | 19,1                    | 961        | 10000        | 4000           |
| 638                     | 39,38 | 1,22                    | 17,8                    | 993        | 10000        | 4000           |
| 638                     | 43,64 | 1,10                    | 16,0                    | 1034       | 10000        | 4000           |
| 638                     | 46,10 | 1,04                    | 15,2                    | 1054       | 10000        | 4000           |
| 638                     | 48,30 | 0,99                    | 14,5                    | 1070       | 10000        | 4000           |
| 638                     | 53,53 | 0,90                    | 13,1                    | 1103       | 10000        | 4000           |
| 638                     | 55,00 | 0,87                    | 12,7                    | 1111       | 10000        | 4000           |
| 638                     | 67,47 | 0,71                    | 10,4                    | 1166       | 10000        | 4000           |

## IS063

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 638                     | 33,57 | 1,46                    | 20,9                    | 921        | 10000        | 4000           |
| 638                     | 37,77 | 1,30                    | 18,5                    | 976        | 10000        | 4000           |
| 638                     | 40,05 | 1,22                    | 17,5                    | 1000       | 10000        | 4000           |
| 638                     | 49,13 | 1,00                    | 14,2                    | 1076       | 10000        | 4000           |

## 5.6 IS GEAR REDUCER - 700 rpm

## ISO63

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 638                     | 55,29  | 0,89                    | 12,7                    | 1113       | 10000        | 4000           |
| 638                     | 58,72  | 0,83                    | 11,9                    | 1130       | 10000        | 4000           |
| 638                     | 65,85  | 0,74                    | 10,6                    | 1160       | 10000        | 4000           |
| 638                     | 68,25  | 0,72                    | 10,3                    | 1169       | 10000        | 4000           |
| 638                     | 73,63  | 0,67                    | 9,5                     | 1187       | 10000        | 4000           |
| 638                     | 81,43  | 0,60                    | 8,6                     | 1208       | 10000        | 4000           |
| 638                     | 99,89  | 0,49                    | 7,0                     | 1245       | 10000        | 4000           |
| 638                     | 126,43 | 0,39                    | 5,5                     | 1279       | 10000        | 4000           |
| 638                     | 150,85 | 0,32                    | 4,6                     | 1300       | 10000        | 4000           |
| 638                     | 182,53 | 0,27                    | 3,8                     | 1319       | 10000        | 4000           |
| 638                     | 185,05 | 0,26                    | 3,8                     | 1320       | 10000        | 4000           |
| 638                     | 217,79 | 0,22                    | 3,2                     | 1334       | 10000        | 4000           |
| 638                     | 267,16 | 0,18                    | 2,6                     | 1348       | 10000        | 4000           |

## ISO82

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 584                     | 7,34  | 5,99                    | 95,4                    | 1153       | 15474        | 4421           |
| 638                     | 8,06  | 5,95                    | 86,8                    | 1166       | 15847        | 4528           |
| 691                     | 9,94  | 5,22                    | 70,4                    | 1388       | 16959        | 4845           |
| 744                     | 11,61 | 4,82                    | 60,3                    | 1511       | 17790        | 5083           |
| 797                     | 12,75 | 4,70                    | 54,9                    | 1548       | 18000        | 5215           |
| 808                     | 14,04 | 4,33                    | 49,8                    | 1663       | 18000        | 5399           |
| 818                     | 15,43 | 3,99                    | 45,4                    | 1766       | 18000        | 5583           |
| 818                     | 15,73 | 3,91                    | 44,5                    | 1789       | 18000        | 5623           |
| 818                     | 17,29 | 3,56                    | 40,5                    | 1898       | 18000        | 5826           |
| 818                     | 19,03 | 3,23                    | 36,8                    | 1997       | 18000        | 6038           |
| 818                     | 20,14 | 3,06                    | 34,8                    | 2052       | 18000        | 6166           |
| 850                     | 22,13 | 2,89                    | 31,6                    | 2102       | 18000        | 6355           |
| 850                     | 24,00 | 2,66                    | 29,2                    | 2171       | 18000        | 6550           |
| 850                     | 26,05 | 2,45                    | 26,9                    | 2236       | 18000        | 6751           |
| 956                     | 27,29 | 2,64                    | 25,6                    | 2180       | 18000        | 6768           |
| 956                     | 28,67 | 2,51                    | 24,4                    | 2219       | 18000        | 6894           |
| 956                     | 29,60 | 2,43                    | 23,6                    | 2243       | 18000        | 6976           |
| 1063                    | 31,78 | 2,52                    | 22,0                    | 2217       | 18000        | 7063           |
| 1063                    | 34,91 | 2,29                    | 20,1                    | 2286       | 18000        | 7200           |
| 1063                    | 35,50 | 2,25                    | 19,7                    | 2298       | 18000        | 7200           |
| 1063                    | 40,05 | 2,00                    | 17,5                    | 2376       | 18000        | 7200           |
| 1063                    | 43,05 | 1,86                    | 16,3                    | 2419       | 18000        | 7200           |
| 1063                    | 50,25 | 1,59                    | 13,9                    | 2500       | 18000        | 7200           |
| 1063                    | 54,27 | 1,47                    | 12,9                    | 2536       | 18000        | 7200           |
| 1063                    | 61,98 | 1,29                    | 11,3                    | 2592       | 18000        | 7200           |

## 5.6 IS GEAR REDUCER - 700 rpm

## IS083

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1063                    | 67,52  | 1,21                    | 10,4                    | 2625       | 18000        | 7200           |
| 1063                    | 74,18  | 1,10                    | 9,4                     | 2657       | 18000        | 7200           |
| 1063                    | 81,71  | 1,00                    | 8,6                     | 2688       | 18000        | 7200           |
| 1063                    | 91,49  | 0,89                    | 7,7                     | 2720       | 18000        | 7200           |
| 1063                    | 100,62 | 0,81                    | 7,0                     | 2744       | 18000        | 7200           |
| 1063                    | 117,17 | 0,70                    | 6,0                     | 2778       | 18000        | 7200           |
| 1063                    | 128,73 | 0,63                    | 5,4                     | 2797       | 18000        | 7200           |
| 1063                    | 136,34 | 0,60                    | 5,1                     | 2808       | 18000        | 7200           |
| 1063                    | 158,76 | 0,51                    | 4,4                     | 2833       | 18000        | 7200           |
| 1063                    | 184,88 | 0,44                    | 3,8                     | 2855       | 18000        | 7200           |
| 1063                    | 203,11 | 0,40                    | 3,5                     | 2867       | 18000        | 7200           |
| 1063                    | 205,34 | 0,40                    | 3,4                     | 2868       | 18000        | 7200           |
| 1063                    | 226,04 | 0,36                    | 3,1                     | 2879       | 18000        | 7200           |
| 1063                    | 250,50 | 0,33                    | 2,8                     | 2889       | 18000        | 7200           |
| 1063                    | 266,13 | 0,31                    | 2,6                     | 2895       | 18000        | 7200           |
| 1063                    | 292,36 | 0,28                    | 2,4                     | 2903       | 18000        | 7200           |
| 1063                    | 315,73 | 0,26                    | 2,2                     | 2910       | 18000        | 7200           |
| 1063                    | 360,58 | 0,23                    | 1,9                     | 2919       | 18000        | 7200           |

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 903                     | 8,06  | 8,43                    | 86,8                    | 501        | 19490        | 5569           |
| 956                     | 8,85  | 8,13                    | 79,1                    | 588        | 20031        | 5723           |
| 1009                    | 10,88 | 6,98                    | 64,3                    | 929        | 21487        | 6139           |
| 1063                    | 12,75 | 6,27                    | 54,9                    | 1138       | 22000        | 6469           |
| 1275                    | 13,99 | 6,86                    | 50,0                    | 964        | 22000        | 6537           |
| 1328                    | 15,43 | 6,48                    | 45,4                    | 1077       | 22000        | 6743           |
| 1381                    | 17,21 | 6,04                    | 40,7                    | 1206       | 22000        | 6988           |
| 1488                    | 19,00 | 5,89                    | 36,8                    | 1250       | 22000        | 7175           |
| 1488                    | 20,83 | 5,37                    | 33,6                    | 1403       | 22000        | 7430           |
| 1488                    | 22,13 | 5,06                    | 31,6                    | 1495       | 22000        | 7601           |
| 1594                    | 24,28 | 4,94                    | 28,8                    | 1531       | 22000        | 7793           |
| 1594                    | 26,33 | 4,55                    | 26,6                    | 1645       | 22000        | 8037           |
| 1594                    | 29,87 | 4,01                    | 23,4                    | 1804       | 22000        | 8429           |
| 1594                    | 32,40 | 3,70                    | 21,6                    | 1896       | 22000        | 8690           |
| 1488                    | 34,91 | 3,21                    | 20,1                    | 2042       | 22000        | 9000           |
| 1594                    | 38,30 | 3,13                    | 18,3                    | 2065       | 22000        | 9000           |
| 1488                    | 42,53 | 2,63                    | 16,5                    | 2212       | 22000        | 9000           |
| 1381                    | 44,00 | 2,36                    | 15,9                    | 2292       | 22000        | 9000           |
| 1700                    | 47,13 | 2,71                    | 14,8                    | 2188       | 22000        | 9000           |
| 1488                    | 50,25 | 2,23                    | 13,9                    | 2331       | 22000        | 9000           |

## 5.6 IS GEAR REDUCER - 700 rpm

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1381                    | 55,14 | 1,88                    | 12,7                    | 2432       | 22000        | 9000           |
| 1700                    | 59,40 | 2,15                    | 11,8                    | 2353       | 22000        | 9000           |
| 1700                    | 67,84 | 1,89                    | 10,3                    | 2432       | 22000        | 9000           |

## IS103

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1700                    | 74,18  | 1,76                    | 9,4                     | 2480       | 22000        | 9000           |
| 1700                    | 81,39  | 1,60                    | 8,6                     | 2525       | 22000        | 9000           |
| 1700                    | 89,77  | 1,45                    | 7,8                     | 2568       | 22000        | 9000           |
| 1700                    | 100,15 | 1,30                    | 7,0                     | 2612       | 22000        | 9000           |
| 1700                    | 110,55 | 1,18                    | 6,3                     | 2647       | 22000        | 9000           |
| 1700                    | 121,29 | 1,08                    | 5,8                     | 2678       | 22000        | 9000           |
| 1700                    | 128,73 | 1,01                    | 5,4                     | 2696       | 22000        | 9000           |
| 1700                    | 141,24 | 0,92                    | 5,0                     | 2722       | 22000        | 9000           |
| 1700                    | 173,78 | 0,75                    | 4,0                     | 2772       | 22000        | 9000           |
| 1700                    | 188,51 | 0,69                    | 3,7                     | 2789       | 22000        | 9000           |
| 1700                    | 203,11 | 0,64                    | 3,5                     | 2803       | 22000        | 9000           |
| 1700                    | 222,85 | 0,59                    | 3,1                     | 2819       | 22000        | 9000           |
| 1700                    | 224,76 | 0,58                    | 3,1                     | 2821       | 22000        | 9000           |
| 1700                    | 274,20 | 0,48                    | 2,5                     | 2851       | 22000        | 9000           |
| 1700                    | 280,89 | 0,46                    | 2,5                     | 2854       | 22000        | 9000           |
| 1700                    | 292,36 | 0,45                    | 2,4                     | 2860       | 22000        | 9000           |
| 1700                    | 320,79 | 0,41                    | 2,2                     | 2871       | 22000        | 9000           |
| 1700                    | 345,60 | 0,38                    | 2,0                     | 2880       | 22000        | 9000           |
| 1700                    | 394,69 | 0,33                    | 1,8                     | 2893       | 22000        | 9000           |

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1594                    | 8,48  | 14,13                   | 82,5                    | 2887       | 25726        | 7350           |
| 1806                    | 9,30  | 14,61                   | 75,3                    | 2851       | 25898        | 7399           |
| 1806                    | 10,24 | 13,27                   | 68,4                    | 2953       | 26956        | 7702           |
| 2019                    | 11,42 | 13,30                   | 61,3                    | 2951       | 27388        | 7825           |
| 2338                    | 12,63 | 13,93                   | 55,4                    | 2903       | 27364        | 7818           |
| 2550                    | 13,84 | 13,86                   | 50,6                    | 2908       | 27673        | 7906           |
| 2763                    | 16,99 | 12,23                   | 41,2                    | 3033       | 29485        | 8424           |
| 2975                    | 21,25 | 10,53                   | 32,9                    | 3162       | 30000        | 9068           |
| 2975                    | 22,37 | 10,01                   | 31,3                    | 3202       | 30000        | 9278           |
| 3081                    | 23,29 | 9,95                    | 30,1                    | 3206       | 30000        | 9331           |
| 3188                    | 26,15 | 9,17                    | 26,8                    | 3266       | 30000        | 9710           |

## 5.6 IS GEAR REDUCER - 700 rpm

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 3188                    | 28,60 | 8,38                    | 24,5                    | 3326       | 30000        | 10104          |
| 3188                    | 30,51 | 7,86                    | 22,9                    | 3366       | 30000        | 10396          |
| 3188                    | 32,76 | 7,32                    | 21,4                    | 3407       | 30000        | 10724          |
| 3188                    | 33,44 | 7,17                    | 20,9                    | 3419       | 30000        | 10822          |
| 3188                    | 35,20 | 6,81                    | 19,9                    | 3446       | 30000        | 11065          |
| 3188                    | 41,07 | 5,84                    | 17,1                    | 3520       | 30000        | 11200          |
| 3188                    | 43,60 | 5,50                    | 16,1                    | 3546       | 30000        | 11200          |
| 2550                    | 44,63 | 4,30                    | 15,7                    | 3638       | 30000        | 11200          |
| 2550                    | 49,04 | 3,91                    | 14,3                    | 3667       | 30000        | 11200          |
| 2763                    | 53,75 | 3,87                    | 13,0                    | 3671       | 30000        | 11200          |
| 3188                    | 66,00 | 3,63                    | 10,6                    | 3688       | 30000        | 11200          |

## IS123

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 2869                    | 64,84  | 3,40                    | 10,8                    | 3712       | 30000        | 11200          |
| 2869                    | 71,07  | 3,10                    | 9,8                     | 3734       | 30000        | 11200          |
| 3188                    | 78,46  | 3,12                    | 8,9                     | 3732       | 30000        | 11200          |
| 3188                    | 87,27  | 2,81                    | 8,0                     | 3756       | 30000        | 11200          |
| 3188                    | 105,91 | 2,31                    | 6,6                     | 3793       | 30000        | 11200          |
| 3188                    | 112,52 | 2,18                    | 6,2                     | 3803       | 30000        | 11200          |
| 3188                    | 123,33 | 1,99                    | 5,7                     | 3817       | 30000        | 11200          |
| 3188                    | 130,04 | 1,88                    | 5,4                     | 3825       | 30000        | 11200          |
| 3188                    | 133,78 | 1,83                    | 5,2                     | 3829       | 30000        | 11200          |
| 3188                    | 151,43 | 1,62                    | 4,6                     | 3845       | 30000        | 11200          |
| 3188                    | 177,53 | 1,38                    | 3,9                     | 3863       | 30000        | 11200          |
| 3188                    | 194,59 | 1,26                    | 3,6                     | 3872       | 30000        | 11200          |
| 3188                    | 215,60 | 1,14                    | 3,2                     | 3881       | 30000        | 11200          |
| 3188                    | 238,93 | 1,02                    | 2,9                     | 3889       | 30000        | 11200          |
| 3188                    | 255,54 | 0,96                    | 2,7                     | 3894       | 30000        | 11200          |

## IS142

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 1476                    | 4,12 | 26,96                   | 170,0                   | 2243       | 28216        | 16124          |
| 1645                    | 4,59 | 26,98                   | 152,6                   | 2241       | 28326        | 16186          |
| 1846                    | 5,14 | 27,00                   | 136,1                   | 2239       | 28334        | 16191          |
| 2087                    | 5,82 | 26,97                   | 120,3                   | 2241       | 28218        | 16125          |
| 2230                    | 6,21 | 27,00                   | 112,7                   | 2239       | 28061        | 16035          |
| 2035                    | 7,32 | 20,92                   | 95,7                    | 2836       | 32133        | 18362          |
| 2283                    | 8,21 | 20,92                   | 85,3                    | 2836       | 32039        | 18308          |

## 5.6 IS GEAR REDUCER - 700 rpm

## IS142

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 2584                    | 9,29  | 20,93                   | 75,4                    | 2835       | 31747        | 18141          |
| 2759                    | 9,91  | 20,94                   | 70,6                    | 2835       | 31503        | 18002          |
| 2992                    | 11,41 | 19,73                   | 61,4                    | 2953       | 32189        | 18394          |
| 2784                    | 12,81 | 16,34                   | 54,6                    | 3286       | 35000        | 18500          |
| 2593                    | 14,27 | 13,67                   | 49,0                    | 3549       | 35000        | 18500          |
| 2818                    | 16,01 | 13,24                   | 43,7                    | 3591       | 35000        | 18500          |
| 3187                    | 18,11 | 13,24                   | 38,7                    | 3591       | 35000        | 18500          |
| 3404                    | 19,33 | 13,24                   | 36,2                    | 3591       | 35000        | 18500          |
| 3522                    | 22,24 | 11,91                   | 31,5                    | 3722       | 35000        | 18500          |
| 3077                    | 25,26 | 9,16                    | 27,7                    | 3992       | 35000        | 18500          |
| 3451                    | 28,33 | 9,16                    | 24,7                    | 3992       | 35000        | 18500          |
| 3904                    | 32,05 | 9,16                    | 21,8                    | 3992       | 35000        | 18500          |
| 4168                    | 34,22 | 9,16                    | 20,4                    | 3992       | 35000        | 18500          |
| 4708                    | 39,38 | 8,99                    | 17,8                    | 4009       | 35000        | 18500          |

## IS143

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 4264                    | 45,77  | 7,16                    | 15,3                    | 4200       | 35000        | 18500          |
| 4749                    | 50,97  | 7,16                    | 13,7                    | 4200       | 35000        | 18500          |
| 5030                    | 57,17  | 6,76                    | 12,2                    | 4200       | 35000        | 18500          |
| 5073                    | 64,68  | 6,03                    | 10,8                    | 4200       | 35000        | 18500          |
| 5181                    | 69,06  | 5,76                    | 10,1                    | 4200       | 35000        | 18500          |
| 4498                    | 79,45  | 4,35                    | 8,8                     | 4200       | 35000        | 18500          |
| 4717                    | 98,81  | 3,67                    | 7,1                     | 4200       | 35000        | 18500          |
| 5029                    | 110,05 | 3,51                    | 6,4                     | 4200       | 35000        | 18500          |
| 5052                    | 123,44 | 3,14                    | 5,7                     | 4200       | 35000        | 18500          |
| 5143                    | 139,64 | 2,83                    | 5,0                     | 4200       | 35000        | 18500          |
| 5085                    | 149,10 | 2,62                    | 4,7                     | 4200       | 35000        | 18500          |
| 4039                    | 157,49 | 1,97                    | 4,4                     | 4200       | 35000        | 18500          |
| 4961                    | 171,55 | 2,22                    | 4,1                     | 4200       | 35000        | 18500          |
| 4499                    | 175,41 | 1,97                    | 4,0                     | 4200       | 35000        | 18500          |
| 5046                    | 196,74 | 1,97                    | 3,6                     | 4200       | 35000        | 18500          |
| 5010                    | 222,57 | 1,73                    | 3,1                     | 4200       | 35000        | 18500          |
| 5187                    | 237,63 | 1,68                    | 3,0                     | 4200       | 35000        | 18500          |
| 5091                    | 273,41 | 1,43                    | 2,6                     | 4200       | 35000        | 18500          |

## IS152

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 2734                    | 4,06 | 50,64                   | 172,3                   | 2623       | 34097        | 19400          |

## 5.6 IS GEAR REDUCER - 700 rpm

## IS152

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 3051                    | 4,53  | 50,62                   | 154,4                   | 2624       | 34289        | 19400          |
| 3096                    | 5,20  | 44,76                   | 134,5                   | 2974       | 36364        | 19400          |
| 3126                    | 5,71  | 41,17                   | 122,6                   | 3188       | 37829        | 19400          |
| 3267                    | 6,52  | 37,68                   | 107,3                   | 3396       | 39518        | 19400          |
| 3463                    | 7,28  | 35,78                   | 96,2                    | 3510       | 40000        | 19400          |
| 3752                    | 8,36  | 33,77                   | 83,8                    | 3630       | 40000        | 19400          |
| 3985                    | 9,17  | 32,68                   | 76,3                    | 3694       | 40000        | 19400          |
| 4443                    | 10,42 | 32,08                   | 67,2                    | 3730       | 40000        | 19400          |
| 3512                    | 12,46 | 21,20                   | 56,2                    | 4380       | 40000        | 19400          |
| 3918                    | 13,91 | 21,19                   | 50,3                    | 4380       | 40000        | 19400          |
| 4499                    | 15,97 | 21,19                   | 43,8                    | 4380       | 40000        | 19400          |
| 4939                    | 17,53 | 21,20                   | 39,9                    | 4380       | 40000        | 19400          |
| 5610                    | 19,91 | 21,20                   | 35,2                    | 4380       | 40000        | 19400          |
| 6450                    | 22,88 | 21,20                   | 30,6                    | 4379       | 40000        | 19400          |
| 6470                    | 27,11 | 17,96                   | 25,8                    | 4573       | 40000        | 19400          |
| 7102                    | 29,75 | 17,96                   | 23,5                    | 4573       | 40000        | 19400          |
| 8067                    | 33,79 | 17,96                   | 20,7                    | 4573       | 40000        | 19400          |
| 8170                    | 38,84 | 15,82                   | 18,0                    | 4700       | 40000        | 19400          |

## IS153

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 6674                    | 40,10  | 12,79                   | 17,5                    | 4897       | 40000        | 19400          |
| 7448                    | 44,76  | 12,78                   | 15,6                    | 4898       | 40000        | 19400          |
| 8357                    | 51,38  | 12,50                   | 13,6                    | 4914       | 40000        | 19400          |
| 8770                    | 56,39  | 11,95                   | 12,4                    | 4946       | 40000        | 19400          |
| 9345                    | 64,05  | 11,21                   | 10,9                    | 4990       | 40000        | 19400          |
| 8266                    | 73,63  | 8,62                    | 9,5                     | 5141       | 40000        | 19400          |
| 7550                    | 87,16  | 6,65                    | 8,0                     | 5200       | 40000        | 19400          |
| 8426                    | 97,27  | 6,65                    | 7,2                     | 5200       | 40000        | 19400          |
| 9673                    | 111,67 | 6,65                    | 6,3                     | 5200       | 40000        | 19400          |
| 10132                   | 122,57 | 6,35                    | 5,7                     | 5200       | 40000        | 19400          |
| 9713                    | 139,21 | 5,36                    | 5,0                     | 5200       | 40000        | 19400          |
| 7574                    | 154,02 | 3,78                    | 4,5                     | 5200       | 40000        | 19400          |
| 8590                    | 160,02 | 4,12                    | 4,4                     | 5200       | 40000        | 19400          |
| 8695                    | 176,81 | 3,78                    | 4,0                     | 5200       | 40000        | 19400          |
| 9543                    | 194,06 | 3,78                    | 3,6                     | 5200       | 40000        | 19400          |
| 9938                    | 220,42 | 3,46                    | 3,2                     | 5200       | 40000        | 19400          |
| 8796                    | 253,36 | 2,67                    | 2,8                     | 5200       | 40000        | 19400          |

## 5.7 IS GEAR REDUCER - 500 rpm

## IS052

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 183                     | 8,63  | 1,13                    | 58,0                    | 666        | 5067         | 5067           |
| 204                     | 11,14 | 0,98                    | 44,9                    | 766        | 5482         | 5482           |
| 215                     | 12,00 | 0,96                    | 41,7                    | 780        | 5585         | 5585           |
| 226                     | 13,66 | 0,88                    | 36,6                    | 829        | 5820         | 5820           |
| 258                     | 15,27 | 0,90                    | 32,7                    | 816        | 5901         | 5901           |
| 258                     | 16,29 | 0,85                    | 30,7                    | 853        | 6000         | 6000           |
| 258                     | 18,63 | 0,74                    | 26,8                    | 922        | 6000         | 6000           |
| 258                     | 19,73 | 0,70                    | 25,4                    | 949        | 6000         | 6000           |
| 280                     | 21,04 | 0,71                    | 23,8                    | 942        | 6000         | 6000           |
| 280                     | 21,53 | 0,69                    | 23,2                    | 953        | 6000         | 6000           |
| 280                     | 24,07 | 0,62                    | 20,8                    | 1000       | 6000         | 6000           |
| 312                     | 25,20 | 0,66                    | 19,8                    | 974        | 6000         | 6000           |
| 312                     | 25,79 | 0,65                    | 19,4                    | 984        | 6000         | 6000           |
| 312                     | 27,81 | 0,60                    | 18,0                    | 1015       | 6000         | 6000           |
| 312                     | 30,00 | 0,56                    | 16,7                    | 1043       | 6000         | 6000           |
| 323                     | 32,55 | 0,53                    | 15,4                    | 1060       | 6000         | 6000           |
| 323                     | 33,00 | 0,52                    | 15,2                    | 1065       | 6000         | 6000           |
| 323                     | 34,09 | 0,51                    | 14,7                    | 1076       | 6000         | 6000           |
| 355                     | 36,55 | 0,52                    | 13,7                    | 1067       | 6000         | 6000           |
| 355                     | 38,75 | 0,49                    | 12,9                    | 1086       | 6000         | 6000           |
| 376                     | 39,90 | 0,50                    | 12,5                    | 1077       | 6000         | 6000           |
| 376                     | 42,63 | 0,47                    | 11,7                    | 1098       | 6000         | 6000           |
| 376                     | 46,00 | 0,44                    | 10,9                    | 1121       | 6000         | 6000           |
| 376                     | 47,20 | 0,43                    | 10,6                    | 1128       | 6000         | 6000           |
| 376                     | 52,25 | 0,39                    | 9,6                     | 1155       | 6000         | 6000           |
| 376                     | 57,86 | 0,35                    | 8,6                     | 1179       | 6000         | 6000           |
| 376                     | 59,42 | 0,34                    | 8,4                     | 1185       | 6000         | 6000           |
| 376                     | 72,83 | 0,28                    | 6,9                     | 1226       | 6000         | 6000           |

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 376                     | 36,50  | 0,56                    | 13,7                    | 1046       | 6000         | 6000           |
| 376                     | 47,14  | 0,44                    | 10,6                    | 1127       | 6000         | 6000           |
| 376                     | 57,79  | 0,36                    | 8,7                     | 1179       | 6000         | 6000           |
| 376                     | 63,74  | 0,32                    | 7,8                     | 1200       | 6000         | 6000           |
| 376                     | 74,20  | 0,28                    | 6,7                     | 1229       | 6000         | 6000           |
| 376                     | 78,14  | 0,26                    | 6,4                     | 1238       | 6000         | 6000           |
| 376                     | 95,84  | 0,21                    | 5,2                     | 1269       | 6000         | 6000           |
| 376                     | 117,48 | 0,17                    | 4,3                     | 1294       | 6000         | 6000           |
| 376                     | 137,45 | 0,15                    | 3,6                     | 1311       | 6000         | 6000           |
| 376                     | 177,55 | 0,12                    | 2,8                     | 1332       | 6000         | 6000           |

## 5.7 IS GEAR REDUCER - 500 rpm

## IS053

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 376                     | 198,45 | 0,10                    | 2,5                     | 1340       | 6000         | 6000           |
| 376                     | 217,64 | 0,09                    | 2,3                     | 1346       | 6000         | 6000           |
| 376                     | 256,33 | 0,08                    | 1,9                     | 1355       | 6000         | 6000           |
| 376                     | 314,21 | 0,07                    | 1,6                     | 1365       | 6000         | 6000           |

## IS062

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 355                     | 8,00  | 2,37                    | 62,5                    | 270        | 8029         | 3212           |
| 355                     | 8,92  | 2,13                    | 56,0                    | 388        | 8406         | 3362           |
| 387                     | 9,55  | 2,17                    | 52,4                    | 368        | 8442         | 3377           |
| 387                     | 10,65 | 1,94                    | 47,0                    | 475        | 8841         | 3536           |
| 419                     | 11,71 | 1,91                    | 42,7                    | 490        | 8997         | 3599           |
| 452                     | 13,06 | 1,85                    | 38,3                    | 521        | 9220         | 3688           |
| 452                     | 13,36 | 1,81                    | 37,4                    | 541        | 9310         | 3724           |
| 484                     | 15,94 | 1,62                    | 31,4                    | 630        | 9837         | 3935           |
| 484                     | 16,16 | 1,60                    | 30,9                    | 640        | 9897         | 3959           |
| 484                     | 19,29 | 1,34                    | 25,9                    | 765        | 10000        | 4000           |
| 495                     | 19,55 | 1,35                    | 25,6                    | 759        | 10000        | 4000           |
| 505                     | 23,18 | 1,17                    | 21,6                    | 849        | 10000        | 4000           |
| 505                     | 23,75 | 1,14                    | 21,1                    | 863        | 10000        | 4000           |
| 516                     | 25,14 | 1,10                    | 19,9                    | 882        | 10000        | 4000           |
| 516                     | 27,66 | 1,00                    | 18,1                    | 930        | 10000        | 4000           |
| 538                     | 30,00 | 0,96                    | 16,7                    | 949        | 10000        | 4000           |
| 581                     | 33,93 | 0,91                    | 14,7                    | 970        | 10000        | 4000           |
| 645                     | 36,57 | 0,94                    | 13,7                    | 956        | 10000        | 4000           |
| 645                     | 39,38 | 0,88                    | 12,7                    | 988        | 10000        | 4000           |
| 645                     | 43,64 | 0,79                    | 11,5                    | 1029       | 10000        | 4000           |
| 645                     | 46,10 | 0,75                    | 10,8                    | 1050       | 10000        | 4000           |
| 645                     | 48,30 | 0,71                    | 10,3                    | 1066       | 10000        | 4000           |
| 645                     | 53,53 | 0,64                    | 9,3                     | 1100       | 10000        | 4000           |
| 645                     | 55,00 | 0,63                    | 9,1                     | 1108       | 10000        | 4000           |
| 645                     | 67,47 | 0,51                    | 7,4                     | 1163       | 10000        | 4000           |

## IS063

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 645                     | 33,57 | 1,05                    | 14,9                    | 916        | 10000        | 4000           |
| 645                     | 37,77 | 0,93                    | 13,2                    | 970        | 10000        | 4000           |
| 645                     | 40,05 | 0,88                    | 12,5                    | 995        | 10000        | 4000           |
| 645                     | 49,13 | 0,72                    | 10,2                    | 1072       | 10000        | 4000           |

## 5.7 IS GEAR REDUCER - 500 rpm

## IS063

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 645                     | 55,29  | 0,64                    | 9,0                     | 1109       | 10000        | 4000           |
| 645                     | 58,72  | 0,60                    | 8,5                     | 1127       | 10000        | 4000           |
| 645                     | 65,85  | 0,53                    | 7,6                     | 1157       | 10000        | 4000           |
| 645                     | 68,25  | 0,52                    | 7,3                     | 1166       | 10000        | 4000           |
| 645                     | 73,63  | 0,48                    | 6,8                     | 1184       | 10000        | 4000           |
| 645                     | 81,43  | 0,43                    | 6,1                     | 1206       | 10000        | 4000           |
| 645                     | 99,89  | 0,35                    | 5,0                     | 1243       | 10000        | 4000           |
| 645                     | 126,43 | 0,28                    | 4,0                     | 1278       | 10000        | 4000           |
| 645                     | 150,85 | 0,23                    | 3,3                     | 1299       | 10000        | 4000           |
| 645                     | 182,53 | 0,19                    | 2,7                     | 1318       | 10000        | 4000           |
| 645                     | 185,05 | 0,19                    | 2,7                     | 1319       | 10000        | 4000           |
| 645                     | 217,79 | 0,16                    | 2,3                     | 1333       | 10000        | 4000           |
| 645                     | 267,16 | 0,13                    | 1,9                     | 1347       | 10000        | 4000           |

## IS082

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 591                     | 7,34  | 4,31                    | 68,1                    | 1132       | 17494        | 4998           |
| 645                     | 8,06  | 4,28                    | 62,0                    | 1145       | 17930        | 5123           |
| 699                     | 9,94  | 3,76                    | 50,3                    | 1369       | 18000        | 5483           |
| 753                     | 11,61 | 3,47                    | 43,1                    | 1494       | 18000        | 5754           |
| 806                     | 12,75 | 3,38                    | 39,2                    | 1531       | 18000        | 5907           |
| 817                     | 14,04 | 3,11                    | 35,6                    | 1647       | 18000        | 6113           |
| 828                     | 15,43 | 2,87                    | 32,4                    | 1752       | 18000        | 6319           |
| 828                     | 15,73 | 2,81                    | 31,8                    | 1775       | 18000        | 6364           |
| 828                     | 17,29 | 2,56                    | 28,9                    | 1885       | 18000        | 6592           |
| 828                     | 19,03 | 2,33                    | 26,3                    | 1985       | 18000        | 6828           |
| 828                     | 20,14 | 2,20                    | 24,8                    | 2041       | 18000        | 6972           |
| 860                     | 22,13 | 2,08                    | 22,6                    | 2092       | 18000        | 7186           |
| 860                     | 24,00 | 1,92                    | 20,8                    | 2162       | 18000        | 7200           |
| 860                     | 26,05 | 1,77                    | 19,2                    | 2227       | 18000        | 7200           |
| 968                     | 27,29 | 1,90                    | 18,3                    | 2171       | 18000        | 7200           |
| 968                     | 28,67 | 1,80                    | 17,4                    | 2210       | 18000        | 7200           |
| 968                     | 29,60 | 1,75                    | 16,9                    | 2234       | 18000        | 7200           |
| 1075                    | 31,78 | 1,81                    | 15,7                    | 2208       | 18000        | 7200           |
| 1075                    | 34,91 | 1,65                    | 14,3                    | 2278       | 18000        | 7200           |
| 1075                    | 35,50 | 1,62                    | 14,1                    | 2290       | 18000        | 7200           |
| 1075                    | 40,05 | 1,44                    | 12,5                    | 2369       | 18000        | 7200           |
| 1075                    | 43,05 | 1,34                    | 11,6                    | 2412       | 18000        | 7200           |
| 1075                    | 50,25 | 1,14                    | 9,9                     | 2494       | 18000        | 7200           |
| 1075                    | 54,27 | 1,06                    | 9,2                     | 2531       | 18000        | 7200           |
| 1075                    | 61,98 | 0,93                    | 8,1                     | 2588       | 18000        | 7200           |

## 5.7 IS GEAR REDUCER - 500 rpm

## IS083

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1075                    | 67,52  | 0,87                    | 7,4                     | 2620       | 18000        | 7200           |
| 1075                    | 74,18  | 0,79                    | 6,7                     | 2653       | 18000        | 7200           |
| 1075                    | 81,71  | 0,72                    | 6,1                     | 2684       | 18000        | 7200           |
| 1075                    | 91,49  | 0,64                    | 5,5                     | 2717       | 18000        | 7200           |
| 1075                    | 100,62 | 0,58                    | 5,0                     | 2741       | 18000        | 7200           |
| 1075                    | 117,17 | 0,50                    | 4,3                     | 2776       | 18000        | 7200           |
| 1075                    | 128,73 | 0,46                    | 3,9                     | 2795       | 18000        | 7200           |
| 1075                    | 136,34 | 0,43                    | 3,7                     | 2806       | 18000        | 7200           |
| 1075                    | 158,76 | 0,37                    | 3,1                     | 2831       | 18000        | 7200           |
| 1075                    | 184,88 | 0,32                    | 2,7                     | 2853       | 18000        | 7200           |
| 1075                    | 203,11 | 0,29                    | 2,5                     | 2865       | 18000        | 7200           |
| 1075                    | 205,34 | 0,29                    | 2,4                     | 2867       | 18000        | 7200           |
| 1075                    | 226,04 | 0,26                    | 2,2                     | 2878       | 18000        | 7200           |
| 1075                    | 250,50 | 0,23                    | 2,0                     | 2888       | 18000        | 7200           |
| 1075                    | 266,13 | 0,22                    | 1,9                     | 2894       | 18000        | 7200           |
| 1075                    | 292,36 | 0,20                    | 1,7                     | 2902       | 18000        | 7200           |
| 1075                    | 315,73 | 0,19                    | 1,6                     | 2909       | 18000        | 7200           |
| 1075                    | 360,58 | 0,16                    | 1,4                     | 2918       | 18000        | 7200           |

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 914                     | 8,06  | 6,06                    | 62,0                    | 471        | 22000        | 6293           |
| 968                     | 8,85  | 5,85                    | 56,5                    | 560        | 22000        | 6470           |
| 1021                    | 10,88 | 5,02                    | 45,9                    | 905        | 22000        | 6939           |
| 1075                    | 12,75 | 4,51                    | 39,2                    | 1116       | 22000        | 7312           |
| 1290                    | 13,99 | 4,93                    | 35,7                    | 941        | 22000        | 7405           |
| 1344                    | 15,43 | 4,66                    | 32,4                    | 1054       | 22000        | 7639           |
| 1398                    | 17,21 | 4,34                    | 29,1                    | 1185       | 22000        | 7917           |
| 1505                    | 19,00 | 4,24                    | 26,3                    | 1229       | 22000        | 8134           |
| 1505                    | 20,83 | 3,86                    | 24,0                    | 1384       | 22000        | 8419           |
| 1505                    | 22,13 | 3,64                    | 22,6                    | 1478       | 22000        | 8611           |
| 1613                    | 24,28 | 3,55                    | 20,6                    | 1513       | 22000        | 8833           |
| 1613                    | 26,33 | 3,27                    | 19,0                    | 1629       | 22000        | 9000           |
| 1613                    | 29,87 | 2,89                    | 16,7                    | 1790       | 22000        | 9000           |
| 1613                    | 32,40 | 2,66                    | 15,4                    | 1883       | 22000        | 9000           |
| 1505                    | 34,91 | 2,31                    | 14,3                    | 2031       | 22000        | 9000           |
| 1613                    | 38,30 | 2,25                    | 13,1                    | 2054       | 22000        | 9000           |
| 1505                    | 42,53 | 1,89                    | 11,8                    | 2203       | 22000        | 9000           |
| 1398                    | 44,00 | 1,70                    | 11,4                    | 2283       | 22000        | 9000           |
| 1720                    | 47,13 | 1,95                    | 10,6                    | 2178       | 22000        | 9000           |
| 1505                    | 50,25 | 1,60                    | 9,9                     | 2324       | 22000        | 9000           |

## 5.7 IS GEAR REDUCER - 500 rpm

## IS102

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1398                    | 55,14 | 1,36                    | 9,1                     | 2426       | 22000        | 9000           |
| 1720                    | 59,40 | 1,55                    | 8,4                     | 2346       | 22000        | 9000           |
| 1720                    | 67,84 | 1,36                    | 7,4                     | 2426       | 22000        | 9000           |

## IS103

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 1720                    | 74,18  | 1,27                    | 6,7                     | 2474       | 22000        | 9000           |
| 1720                    | 81,39  | 1,15                    | 6,1                     | 2520       | 22000        | 9000           |
| 1720                    | 89,77  | 1,05                    | 5,6                     | 2563       | 22000        | 9000           |
| 1720                    | 100,15 | 0,94                    | 5,0                     | 2607       | 22000        | 9000           |
| 1720                    | 110,55 | 0,85                    | 4,5                     | 2643       | 22000        | 9000           |
| 1720                    | 121,29 | 0,77                    | 4,1                     | 2674       | 22000        | 9000           |
| 1720                    | 128,73 | 0,73                    | 3,9                     | 2692       | 22000        | 9000           |
| 1720                    | 141,24 | 0,66                    | 3,5                     | 2718       | 22000        | 9000           |
| 1720                    | 173,78 | 0,54                    | 2,9                     | 2769       | 22000        | 9000           |
| 1720                    | 188,51 | 0,50                    | 2,6                     | 2786       | 22000        | 9000           |
| 1720                    | 203,11 | 0,46                    | 2,5                     | 2801       | 22000        | 9000           |
| 1720                    | 222,85 | 0,42                    | 2,2                     | 2817       | 22000        | 9000           |
| 1720                    | 224,76 | 0,42                    | 2,2                     | 2819       | 22000        | 9000           |
| 1720                    | 274,20 | 0,34                    | 1,8                     | 2850       | 22000        | 9000           |
| 1720                    | 280,89 | 0,33                    | 1,8                     | 2853       | 22000        | 9000           |
| 1720                    | 292,36 | 0,32                    | 1,7                     | 2858       | 22000        | 9000           |
| 1720                    | 320,79 | 0,29                    | 1,6                     | 2870       | 22000        | 9000           |
| 1720                    | 345,60 | 0,27                    | 1,4                     | 2878       | 22000        | 9000           |
| 1720                    | 394,69 | 0,24                    | 1,3                     | 2892       | 22000        | 9000           |

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 1613                    | 8,48  | 10,16                   | 59,0                    | 2875       | 29386        | 8396           |
| 1828                    | 9,30  | 10,51                   | 53,8                    | 2838       | 29662        | 8475           |
| 1828                    | 10,24 | 9,54                    | 48,8                    | 2941       | 30000        | 8813           |
| 2043                    | 11,42 | 9,57                    | 43,8                    | 2939       | 30000        | 8975           |
| 2365                    | 12,63 | 10,02                   | 39,6                    | 2891       | 30000        | 9004           |
| 2580                    | 13,84 | 9,97                    | 36,1                    | 2896       | 30000        | 9127           |
| 2795                    | 16,99 | 8,79                    | 29,4                    | 3022       | 30000        | 9729           |
| 3010                    | 21,25 | 7,57                    | 23,5                    | 3153       | 30000        | 10473          |
| 3010                    | 22,37 | 7,20                    | 22,4                    | 3193       | 30000        | 10707          |
| 3118                    | 23,29 | 7,16                    | 21,5                    | 3197       | 30000        | 10779          |
| 3225                    | 26,15 | 6,59                    | 19,1                    | 3258       | 30000        | 11200          |

## 5.7 IS GEAR REDUCER - 500 rpm

## IS122

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 3225                    | 28,60 | 6,03                    | 17,5                    | 3318       | 30000        | 11200          |
| 3225                    | 30,51 | 5,65                    | 16,4                    | 3359       | 30000        | 11200          |
| 3225                    | 32,76 | 5,26                    | 15,3                    | 3401       | 30000        | 11200          |
| 3225                    | 33,44 | 5,16                    | 14,9                    | 3412       | 30000        | 11200          |
| 3225                    | 35,20 | 4,90                    | 14,2                    | 3440       | 30000        | 11200          |
| 3225                    | 41,07 | 4,20                    | 12,2                    | 3515       | 30000        | 11200          |
| 3225                    | 43,60 | 3,96                    | 11,5                    | 3541       | 30000        | 11200          |
| 2580                    | 44,63 | 3,09                    | 11,2                    | 3634       | 30000        | 11200          |
| 2580                    | 49,04 | 2,81                    | 10,2                    | 3664       | 30000        | 11200          |
| 2795                    | 53,75 | 2,78                    | 9,3                     | 3667       | 30000        | 11200          |
| 3225                    | 66,00 | 2,61                    | 7,6                     | 3685       | 30000        | 11200          |

## IS123

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 2903                    | 64,84  | 2,44                    | 7,7                     | 3709       | 30000        | 11200          |
| 2903                    | 71,07  | 2,23                    | 7,0                     | 3731       | 30000        | 11200          |
| 3225                    | 78,46  | 2,24                    | 6,4                     | 3730       | 30000        | 11200          |
| 3225                    | 87,27  | 2,02                    | 5,7                     | 3753       | 30000        | 11200          |
| 3225                    | 105,91 | 1,66                    | 4,7                     | 3791       | 30000        | 11200          |
| 3225                    | 112,52 | 1,57                    | 4,4                     | 3801       | 30000        | 11200          |
| 3225                    | 123,33 | 1,43                    | 4,0                     | 3815       | 30000        | 11200          |
| 3225                    | 130,04 | 1,35                    | 3,8                     | 3823       | 30000        | 11200          |
| 3225                    | 133,78 | 1,32                    | 3,7                     | 3827       | 30000        | 11200          |
| 3225                    | 151,43 | 1,16                    | 3,3                     | 3843       | 30000        | 11200          |
| 3225                    | 177,53 | 0,99                    | 2,8                     | 3861       | 30000        | 11200          |
| 3225                    | 194,59 | 0,91                    | 2,6                     | 3870       | 30000        | 11200          |
| 3225                    | 215,60 | 0,82                    | 2,3                     | 3880       | 30000        | 11200          |
| 3225                    | 238,93 | 0,74                    | 2,1                     | 3888       | 30000        | 11200          |
| 3225                    | 255,54 | 0,69                    | 2,0                     | 3893       | 30000        | 11200          |

## IS142

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 1493                    | 4,12 | 19,39                   | 121,4                   | 2211       | 32760        | 18500          |
| 1664                    | 4,59 | 19,40                   | 109,0                   | 2210       | 33023        | 18500          |
| 1868                    | 5,14 | 19,41                   | 97,2                    | 2208       | 33200        | 18500          |
| 2111                    | 5,82 | 19,40                   | 85,9                    | 2210       | 33271        | 18500          |
| 2257                    | 6,21 | 19,42                   | 80,5                    | 2207       | 33215        | 18500          |
| 2059                    | 7,32 | 15,05                   | 68,3                    | 2812       | 35000        | 18500          |
| 2310                    | 8,21 | 15,05                   | 60,9                    | 2812       | 35000        | 18500          |

## 5.7 IS GEAR REDUCER - 500 rpm

## IS142

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 2614                    | 9,29  | 15,05                   | 53,9                    | 2811       | 35000        | 18500          |
| 2791                    | 9,91  | 15,06                   | 50,4                    | 2811       | 35000        | 18500          |
| 3027                    | 11,41 | 14,19                   | 43,8                    | 2930       | 35000        | 18500          |
| 2817                    | 12,81 | 11,75                   | 39,0                    | 3267       | 35000        | 18500          |
| 2623                    | 14,27 | 9,83                    | 35,0                    | 3534       | 35000        | 18500          |
| 2851                    | 16,01 | 9,52                    | 31,2                    | 3576       | 35000        | 18500          |
| 3225                    | 18,11 | 9,52                    | 27,6                    | 3576       | 35000        | 18500          |
| 3444                    | 19,33 | 9,52                    | 25,9                    | 3576       | 35000        | 18500          |
| 3564                    | 22,24 | 8,57                    | 22,5                    | 3708       | 35000        | 18500          |
| 3113                    | 25,26 | 6,59                    | 19,8                    | 3981       | 35000        | 18500          |
| 3491                    | 28,33 | 6,59                    | 17,6                    | 3982       | 35000        | 18500          |
| 3950                    | 32,05 | 6,59                    | 15,6                    | 3982       | 35000        | 18500          |
| 4217                    | 34,22 | 6,59                    | 14,6                    | 3982       | 35000        | 18500          |
| 4763                    | 39,38 | 6,47                    | 12,7                    | 3998       | 35000        | 18500          |

## IS143

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 4314                    | 45,77  | 5,15                    | 10,9                    | 4196       | 35000        | 18500          |
| 4805                    | 50,97  | 5,15                    | 9,8                     | 4196       | 35000        | 18500          |
| 5090                    | 57,17  | 4,86                    | 8,8                     | 4200       | 35000        | 18500          |
| 5133                    | 64,68  | 4,33                    | 7,7                     | 4200       | 35000        | 18500          |
| 5242                    | 69,06  | 4,15                    | 7,2                     | 4200       | 35000        | 18500          |
| 4551                    | 79,45  | 3,13                    | 6,3                     | 4200       | 35000        | 18500          |
| 4773                    | 98,81  | 2,64                    | 5,1                     | 4200       | 35000        | 18500          |
| 5089                    | 110,05 | 2,52                    | 4,5                     | 4200       | 35000        | 18500          |
| 5111                    | 123,44 | 2,26                    | 4,0                     | 4200       | 35000        | 18500          |
| 5204                    | 139,64 | 2,03                    | 3,6                     | 4200       | 35000        | 18500          |
| 5145                    | 149,10 | 1,88                    | 3,4                     | 4200       | 35000        | 18500          |
| 4086                    | 157,49 | 1,42                    | 3,2                     | 4200       | 35000        | 18500          |
| 5020                    | 171,55 | 1,60                    | 2,9                     | 4200       | 35000        | 18500          |
| 4551                    | 175,41 | 1,42                    | 2,9                     | 4200       | 35000        | 18500          |
| 5105                    | 196,74 | 1,42                    | 2,5                     | 4200       | 35000        | 18500          |
| 5069                    | 222,57 | 1,24                    | 2,2                     | 4200       | 35000        | 18500          |
| 5248                    | 237,63 | 1,21                    | 2,1                     | 4200       | 35000        | 18500          |
| 5151                    | 273,41 | 1,03                    | 1,8                     | 4200       | 35000        | 18500          |

## IS152

| Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|------|-------------------------|-------------------------|------------|--------------|----------------|
| 2766                    | 4,06 | 36,42                   | 123,1                   | 2588       | 39530        | 19400          |

## 5.7 IS GEAR REDUCER - 500 rpm

## IS152

| Mn <sub>2</sub><br>[Nm] | i     | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|-------|-------------------------|-------------------------|------------|--------------|----------------|
| 3086                    | 4,53  | 36,41                   | 110,3                   | 2588       | 39910        | 19400          |
| 3133                    | 5,20  | 32,19                   | 96,1                    | 2943       | 40000        | 19400          |
| 3163                    | 5,71  | 29,61                   | 87,5                    | 3159       | 40000        | 19400          |
| 3306                    | 6,52  | 27,10                   | 76,7                    | 3370       | 40000        | 19400          |
| 3503                    | 7,28  | 25,73                   | 68,7                    | 3485       | 40000        | 19400          |
| 3796                    | 8,36  | 24,28                   | 59,8                    | 3606       | 40000        | 19400          |
| 4032                    | 9,17  | 23,50                   | 54,5                    | 3671       | 40000        | 19400          |
| 4496                    | 10,42 | 23,07                   | 48,0                    | 3708       | 40000        | 19400          |
| 3554                    | 12,46 | 15,25                   | 40,1                    | 4365       | 40000        | 19400          |
| 3964                    | 13,91 | 15,24                   | 36,0                    | 4365       | 40000        | 19400          |
| 4552                    | 15,97 | 15,24                   | 31,3                    | 4365       | 40000        | 19400          |
| 4997                    | 17,53 | 15,24                   | 28,5                    | 4365       | 40000        | 19400          |
| 5676                    | 19,91 | 15,24                   | 25,1                    | 4365       | 40000        | 19400          |
| 6526                    | 22,88 | 15,25                   | 21,9                    | 4364       | 40000        | 19400          |
| 6546                    | 27,11 | 12,91                   | 18,4                    | 4561       | 40000        | 19400          |
| 7186                    | 29,75 | 12,91                   | 16,8                    | 4560       | 40000        | 19400          |
| 8162                    | 33,79 | 12,91                   | 14,8                    | 4560       | 40000        | 19400          |
| 8266                    | 38,84 | 11,38                   | 12,9                    | 4689       | 40000        | 19400          |

## IS153

| Mn <sub>2</sub><br>[Nm] | i      | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr1<br>[N] | Fr2<br>D [N] | Fr2<br>C-L [N] |
|-------------------------|--------|-------------------------|-------------------------|------------|--------------|----------------|
| 6752                    | 40,10  | 9,19                    | 12,5                    | 4889       | 40000        | 19400          |
| 7536                    | 44,76  | 9,19                    | 11,2                    | 4889       | 40000        | 19400          |
| 8455                    | 51,38  | 8,99                    | 9,7                     | 4906       | 40000        | 19400          |
| 8873                    | 56,39  | 8,59                    | 8,9                     | 4938       | 40000        | 19400          |
| 9455                    | 64,05  | 8,06                    | 7,8                     | 4982       | 40000        | 19400          |
| 8363                    | 73,63  | 6,20                    | 6,8                     | 5135       | 40000        | 19400          |
| 7638                    | 87,16  | 4,79                    | 5,7                     | 5200       | 40000        | 19400          |
| 8525                    | 97,27  | 4,79                    | 5,1                     | 5200       | 40000        | 19400          |
| 9787                    | 111,67 | 4,79                    | 4,5                     | 5200       | 40000        | 19400          |
| 10251                   | 122,57 | 4,57                    | 4,1                     | 5200       | 40000        | 19400          |
| 9828                    | 139,21 | 3,85                    | 3,6                     | 5200       | 40000        | 19400          |
| 7663                    | 154,02 | 2,72                    | 3,2                     | 5200       | 40000        | 19400          |
| 8691                    | 160,02 | 2,97                    | 3,1                     | 5200       | 40000        | 19400          |
| 8798                    | 176,81 | 2,72                    | 2,8                     | 5200       | 40000        | 19400          |
| 9656                    | 194,06 | 2,72                    | 2,6                     | 5200       | 40000        | 19400          |
| 10055                   | 220,42 | 2,49                    | 2,3                     | 5200       | 40000        | 19400          |
| 8900                    | 253,36 | 1,92                    | 2,0                     | 5200       | 40000        | 19400          |

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